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**TEST REPORT**

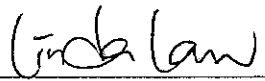
**CONCENTRIC CONSTRUCTION LIMITED**

**OPERATION OF PUBLIC FILL  
RECEPTION FACILITIES AT  
TSEUNG KWAN O AREA 137,  
QUARRY BAY AND MUI WO  
(CONTRACT NO.: CV/2005/12)**

**TSEUNG KWAN O AREA 137**

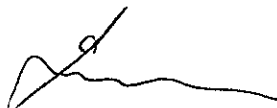
**MONTHLY EM&A REPORT  
(JUNE 2006)**

Prepared by:



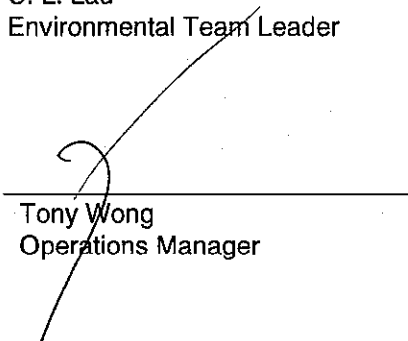
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Report No.: ENA60429



**BMT Asia Pacific Limited**

12 July 2006  
Our Ref: 8116/2875

By Hand

Concentric Construction Limited  
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Hong Kong

For the attention of Mr. Stephen Choi

Dear Sir

**Contract No. CV/2005/12**  
**Fill Bank at Tseung Kwan O Area 137**  
**Monthly EM&A Report**

Following review of the Monthly EM&A Report No. 6 for the reporting period June 2006, the IEC has verified the information presented.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Yours sincerely  
**BMT Asia Pacific Limited**

Ben Ridley  
IEC

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## **EXECUTIVE SUMMARY**

This is the sixth monthly Environmental Monitoring and Audit (EM&A) report prepared by ETS-Testconsult Ltd (ET) for the "Contract No. CV/2005/12 Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 in June 2006.

### **Construction Progress**

As informed by the Contractor, the construction activities in this reporting month were as below:

- Manage the incoming public fill dump trucks arriving through land access;
- Transport temporary stockpiled public fill from the Barge Handling Area (BHA) to Stockpile Areas or the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);
- Transport stockpile public fill from Stockpile Areas to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);
- Direct some incoming public fill dump trucks to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2) for unloading;
- Routine site cleaning and maintenance of internal haul roads and access roads; and
- Routine implementation of environmental mitigation measures such as dust suppression by water spraying, cleaning of nearby public roads by using road sweeper and collection of floating debris inside a berthing basin within the site boundary.

### **Environmental Monitoring Progress**

The summary of the monitoring activities in this monitoring month is listed below:

- Noise Monitoring (Day-time): 1 Occasion at 1 designated location
- 24-hour TSP Monitoring: 5 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 15 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 14 Occasions at 2 designated locations
- Weekly-site inspection: 5 Occasions

### **Noise Monitoring**

No exceedances of Action and Limit levels for noise monitoring were recorded in the reporting month.

### **Air Monitoring**

No exceedances of Action and Limit levels were recorded for 24-hr and 1-hr TSP monitoring in the reporting month.

### **Marine Water Quality Monitoring**

According to the summary of marine water monitoring results, one exceedance of Action Level on dissolved oxygen at Monitoring Station C1 was recorded on 23 June 2006 (mid-ebb). Exceedance was not due to the operation of the Fill Bank as monitoring station C1 was located upstream to the works area. Since the exceedances were not due to the operation of Fill Bank, no further actions were required.

### **Site Inspection**

Environmental site inspections conducted in this reporting month are presented as follows:

| <u>Concerned Parties</u>  | <u>Dates of Audit / Inspection</u> |
|---------------------------|------------------------------------|
| ET Weekly site inspection | 02, 08, 14, 20, 26                 |
| IEC site inspection       | 08, 20, 30                         |

In general, performance on environmental mitigation measures implemented was found to be satisfactory in this reporting month. The major findings observed during site inspections are presented in the Section 7.0.



### **Landscape and Visual**

The germination rate on the panel at Portion A, B, G, H and I was satisfactory in this reporting month. The Contractor should properly maintain the panel properly.

### **Environmental Complaints, Notification of summons and successful prosecutions**

No complaints, notification of summons and prosecutions with respect to environmental issues were received in this monitoring month.

### **Permits and Licenses**

An Amended Environmental Permit (No.: EP-134/2002/F) (the EP) was granted to the Project by EPD on 26 January 2006. Effluent discharge licence (Ref. No.: TE/D1152/839/1) for the site toilet and shower room issued on 06 June 2003 obtained from the previous contract continued to be valid in this Project. Chemical Waste Producer Licence (WPN No.: 5213-839-P2800-23) was also valid from 04 August 2005.

### **Future Key Issues**

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- *Noise and air quality impact due to construction works;*
- *Maintain wheel washing facilities properly;*
- *Maintain all drainage and desilting facilities properly;*
- *Use and maintain silt curtain properly;*
- *Clean up the fill material on concrete pavement along the BHA frequently;*
- *Watering, hydroseeding or covering all opening slopes and stockpiles with tarpaulin to avoid wind and water erosion;*
- *Sufficient drip trays for all oil drums / chemical containers;*
- *Implement all necessary preventive measures to avoid oil leakage. In the event an oil leakage happens, the Contractor should properly remove the leaked oil and handle the contaminated soil and all materials using for this cleaning works as chemical waste;*
- *Maintain good site practice and waste management to minimize environmental impacts at the site; and*
- *Follow-up improvements on waste management issues.*



## 1.0 INTRODUCTION

Concentric Construction Ltd (CCL) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo" (Contract No.: CV/2005/12) (The Project).

In accordance with the Amended Environmental Permit (No.: EP-134/2002/F) (the EP), an EM&A programme should be implemented in accordance with the procedures and requirements in the EM&A Manual of the approved EIA report (Registration No. AEIAR-060/2002). The EM&A programme for this study as stated in Section 2.3.1 of the EM&A Manual covers the following environmental aspects during the establishment, operation and removal phases of the Fill Bank at Tseung Kwan O Area 137:

- Fugitive Dust;
- Noise generation from onsite activities;
- Water Quality; and
- Landscape and Visual.

The EM&A programme requires environmental monitoring for air quality, noise and water quality and environmental site inspections for air quality, noise, water quality, landscape and visual, and waste management. The EM&A requirements for each parameter described in the following sections include:

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event/Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

Baseline monitoring was completed in August and September 2002 by Materialab. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 in June 2006.



## 2.0 PROJECT INFORMATION

### 2.1 Scope of the Project

The scale and scope of the Project as stated in the EP include:

- Site clearance;
- Construction of a temporary storm water system;
- Stockpiling of 6 million m<sup>3</sup> of public fill;
- Setting up two barging points: one at the Tseung Kwan O Basin (TKO Basin) and one at the Construction and Demolition Material Sorting Facility (C&DMSF) for transporting the stockpiled public fill by barges;
- Setting up a temporary barging point at the existing Explosive Off-loading Barging Point located in the south-eastern part of Area 137 for the period of May 2004 to December 2004 for transporting the stockpiled public fill by barge;
- Construction and operation of a Construction and Demolition Material Sorting Facility (C&DMSF);
- Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin; and
- Remove the temporary fill bank.

### 2.2 Site Description

Tseung Kwan O Area 137 is located at the southern end of Wan Po Road. In the vicinity of the site are other industrial uses such as SENT landfill, TKO Industrial Estate, etc. Both Island Resort and Fullview Garden are also situated at more than 1.8km from the site. Other existing ASRs and NSRs, including resident developments and schools, are located at a further distance away from TKO Area 137.

### 2.3 Construction Programme

Details of construction programme are shown in Appendix G.

### 2.4 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in Appendix A.

### 2.5 Contact Details of Key Personnel

The key personnel contact names and telephone numbers are shown in Table 2.1.

Table 2.1 Contact Details of Key Personnel

| Organization     | Name of Key Staff | Project Role    | Tel. No.               | Fax No.   |
|------------------|-------------------|-----------------|------------------------|-----------|
| CEDD             | Mr. H C TANG      | Engineer        | 2762 5602              | 2714 0113 |
| IEC (BMT)        | Mr Ben Ridley     | IEC             | 2815 2221              | 2815 3377 |
| Contractor (CCL) | Mr. C P Lam       | Project Manager | 2398 8001<br>9212 9417 | 2398 8301 |
| ET (ETL)         | Mr C. L. Lau      | ET Leader       | 2946 7791              | 2695 3944 |





### 3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

As informed by the Contractor, the activities in the reporting month include:

- *Manage the incoming public fill dump trucks arriving through land access;*
- *Transport temporary stockpiled public fill from the Barge Handling Area (BHA) to Stockpile Areas or the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Transport stockpile public fill from Stockpile Areas to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Direct some incoming public fill dump trucks to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2) for unloading;*
- *Routine site cleaning and maintenance of internal haul roads and access roads; and*
- *Routine implementation of environmental mitigation measures such as dust suppression by water spraying, cleaning of nearby public roads by using road sweeper and collection of floating debris inside a berthing basin within the site boundary.*



#### 4.0 AIR QUALITY MONITORING

##### 4.1 Monitoring Requirement

TSP levels were monitored in the reporting month in accordance with the EM&A Manual. Table 4.5 shows the Action and Limit Levels for the environmental monitoring works.

##### 4.2 Monitoring Equipment

Both 1-hour and 24-hour TSP air quality monitoring was performed using a GMWS2310 High Volume Air Sampler (HVS) located at each of the designated monitoring station. Table 4.1 summarizes the equipment used in the air quality monitoring programme. A copy of the calibration certificates for the HVS and portable dust meter are attached in Appendix B1.

Table 4.1 Air Quality Monitoring Equipment

| <i>Equipment</i>        | <i>Model and Make</i>           |
|-------------------------|---------------------------------|
| <i>HVS</i>              | <i>Greasby GMWS2310</i>         |
| <i>Calibrator</i>       | <i>Tisch TE-5025A</i>           |
| <i>Wind Data Logger</i> | <i>Davis Weather Monitor II</i> |

##### 4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

Table 4.2 Monitoring parameters, duration, frequency of air quality monitoring

| <i>Parameter</i> | <i>Duration</i> | <i>Frequency</i>                          |
|------------------|-----------------|---|
| <i>24-hr TSP</i> | <i>24 hr</i>    | <i>Once every six days</i>                |
| <i>1-hr TSP</i>  | <i>1 hr</i>     | <i>Three times per day every six days</i> |

##### 4.4 Monitoring Locations and Schedule

Table 4.3 tabulates the air quality monitoring locations of this project.

Table 4.3 Air quality monitoring locations

| <i>Monitoring station</i> | <i>Location</i>                 |
|---------------------------|---------------------------------|
| <i>AA1</i>                | <i>Outside CEDD Site Office</i> |
| <i>AA2</i>                | <i>Site Egress</i>              |

During the reporting month, 1-hr and 24-hr TSP monitoring were carried out as the schedule. The details for 24-hr and 1-hr TSP monitoring carried out in this reporting month are summarized in table 4.4.



Table 4.4 Monitoring Schedule for the air quality monitoring stations

| Air quality monitoring stations | Location                 | Monitoring Period |       |          |       |          |       |        |
|---------------------------------|--------------------------|-------------------|-------|----------|-------|----------|-------|--------|
|                                 |                          | 24-hr TSP         |       |          |       | 1-hr TSP |       |        |
|                                 |                          | Start             |       | Finish   |       | Date     | Start | Finish |
|                                 |                          | Date              | Time  | Date     | Time  |          |       |        |
| AA1                             | Outside CEDD Site Office |                   |       |          |       | 02/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 09:45 | 10:45  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       | 08/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       |          | 13:15 | 14:15  |
|                                 |                          |                   |       |          |       | 14/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       |          | 13:30 | 14:30  |
|                                 |                          |                   |       |          |       | 20/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       |          | 13:00 | 14:00  |
| 26/06/06                        | 08:30                    | 09:30             |       |          |       |          |       |        |
|                                 | 09:45                    | 10:45             |       |          |       |          |       |        |
|                                 | 11:00                    | 12:00             |       |          |       |          |       |        |
| 30/06/06                        | 08:30                    | 09:30             |       |          |       |          |       |        |
|                                 | 09:45                    | 10:45             |       |          |       |          |       |        |
|                                 | 11:00                    | 12:00             |       |          |       |          |       |        |
| AA2                             | Site Egress              |                   |       |          |       | 02/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 09:45 | 10:45  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       | 08/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       |          | 13:15 | 14:15  |
|                                 |                          |                   |       |          |       | 14/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       |          | 13:30 | 14:30  |
|                                 |                          |                   |       |          |       | 20/06/06 | 08:30 | 09:30  |
|                                 |                          |                   |       |          |       |          | 11:00 | 12:00  |
|                                 |                          |                   |       |          |       |          | 13:00 | 14:00  |
| 26/06/06                        | 08:30                    | 09:30             |       |          |       |          |       |        |
|                                 | 09:45                    | 10:45             |       |          |       |          |       |        |
|                                 | 11:00                    | 12:00             |       |          |       |          |       |        |
| 30/06/06                        | 08:30                    | 09:30             |       |          |       |          |       |        |
|                                 | 09:45                    | 10:45             |       |          |       |          |       |        |
|                                 | 11:00                    | 12:00             |       |          |       |          |       |        |
| AA1                             | Outside CEDD Site Office | 02/06/06          | 12:05 | 03/06/06 | 12:07 | ---      |       |        |
|                                 |                          | 08/06/06          | 14:30 | 09/06/06 | 14:30 |          |       |        |
|                                 |                          | 14/06/06          | 16:00 | 15/06/06 | 16:04 |          |       |        |
|                                 |                          | 20/06/06          | 14:15 | 21/06/06 | 14:51 |          |       |        |
|                                 |                          | 26/06/06          | 13:00 | 27/06/06 | 13:10 |          |       |        |
|                                 |                          | 30/06/06          | 13:00 | 01/07/06 | 13:14 |          |       |        |
| AA2                             | Site Egress              | 02/06/06          | 12:15 | 03/06/06 | 12:18 | ---      |       |        |
|                                 |                          | 08/06/06          | 14:30 | 09/06/06 | 14:50 |          |       |        |
|                                 |                          | 14/06/06          | 16:00 | 15/06/06 | 16:04 |          |       |        |
|                                 |                          | 20/06/06          | 14:15 | 21/06/06 | 14:20 |          |       |        |
|                                 |                          | 26/06/06          | 13:00 | 27/06/06 | 13:10 |          |       |        |
|                                 |                          | 30/06/06          | 13:00 | 01/07/06 | 13:05 |          |       |        |

#### 4.5 Monitoring Methodology

##### **Both 1-hr and 24-hr air quality monitoring (High Volume Sampler)**

###### Instrumentation

High volume sampler, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets were employed for both 1-hour and 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

###### Installation

The installation of HVS refers to the requirement stated in EM&A Manual.



Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS are as below:

Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6m<sup>3</sup>/min and 1.7m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.

- For TSP sampling, fiberglass filters (GA-55) were used.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling period of 24 hours. 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.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recoded.
- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of 25°C ± 3°C and the relative humidity (RH) <50% ±5%.
- All measurement procedures in Section 2.3 of the EM&A Manual were followed during the reporting month.

Maintenance & Calibration

- The HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVS should be calibrated at bi-monthly intervals.

**Wind Data Monitoring**

Measuring Procedure

Upon installation of the wind data logger on site, temperature, wind speed and direction was automatically stored in the logger. Regular downloading of the information was carried out weekly.

Maintenance

Cleaning was provided for all the rotational parts of the wind data logger regularly. Replacement of battery was carried out weekly. The wind data logger was checked once per week and no calibration was required for the equipment as instructed by the manufacturer.

**4.6 Action and Limit Levels**

Table 4.5 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.

Table 4.5 Action and Limit Levels for 24-hr TSP and 1-hr TSP

| Monitoring Location | 24-hr TSP (µg/m <sup>3</sup> ) |               | 1-hr TSP (µg/m <sup>3</sup> ) |               |
|---------------------|--------------------------------|---------------|-------------------------------|---------------|
|                     | Action Level *                 | Limit Level * | Action Level *                | Limit Level * |
| AA1                 | 210                            | 260           | 376                           | 500           |
| AA2                 | 210                            | 260           | 376                           | 500           |

\* Traceable to Method Statement (Environmental Monitoring and Audit Manual) of Contract No.CV/2002/08, Rev. 2

**4.7 Event-Action Plans**

Please refer to Appendix F for details.



#### 4.8 Results and Observation

##### 4.8.1 1-hour and 24-hour TSP Monitoring results

All monitoring data of both 1-hour and 24-hour TSP monitoring is provided in Appendix B2. Graphical presentation of 1-hour and 24-hour TSP monitoring results for the reporting month is shown in Appendix B3. Wind data, including wind speed and wind direction, are annexed in Appendix E. Table 4.6 summarizes 1-hr TSP and 24-hr TSP monitoring results.

Table 4.6 Summary of 1-hr TSP and 24-hr TSP Monitoring Results

| Air quality monitoring Stations | Location                 | Monitoring Period |                                     |              |          |            |                                     |              |
|---------------------------------|--------------------------|-------------------|-------------------------------------|--------------|----------|------------|-------------------------------------|--------------|
|                                 |                          | 24-hr TSP         |                                     |              | 1-hr TSP |            |                                     |              |
|                                 |                          | Date              | Result ( $\mu\text{g}/\text{m}^3$ ) | Exceedance # | Date     | Start Time | Result ( $\mu\text{g}/\text{m}^3$ ) | Exceedance # |
| AA1                             | Outside CEDD Site Office | 02/06/06          | 145                                 | X            | 02/06/06 | 08:30      | 175                                 | X            |
|                                 |                          |                   |                                     |              |          | 09:45      | 242                                 |              |
|                                 |                          |                   |                                     |              |          | 11:00      | 304                                 |              |
|                                 |                          | 08/06/06          | 163                                 | X            | 08/06/06 | 08:30      | 205                                 | X            |
|                                 |                          |                   |                                     |              |          | 11:00      | 337                                 |              |
|                                 |                          |                   |                                     |              |          | 13:15      | 277                                 |              |
|                                 |                          | 14/06/06          | 174                                 | X            | 14/06/06 | 08:30      | 245                                 | X            |
|                                 |                          |                   |                                     |              |          | 11:00      | 357                                 |              |
|                                 |                          |                   |                                     |              |          | 13:30      | 308                                 |              |
|                                 |                          | 20/06/06          | 168                                 | X            | 20/06/06 | 08:30      | 288                                 | X            |
|                                 |                          |                   |                                     |              |          | 11:00      | 364                                 |              |
|                                 |                          |                   |                                     |              |          | 13:00      | 323                                 |              |
| 26/06/06                        | 177                      | X                 | 26/06/06                            | 08:30        | 319      | X          |                                     |              |
|                                 |                          |                   |                                     | 09:45        | 337      |            |                                     |              |
|                                 |                          |                   |                                     | 11:00        | 369      |            |                                     |              |
| 30/06/06                        | 184                      | X                 | 30/06/06                            | 08:30        | 277      | X          |                                     |              |
|                                 |                          |                   |                                     | 09:45        | 304      |            |                                     |              |
|                                 |                          |                   |                                     | 11:00        | 359      |            |                                     |              |
| A2                              | Site Egress              | 02/06/06          | 130                                 | X            | 02/06/06 | 08:30      | 154                                 | X            |
|                                 |                          |                   |                                     |              |          | 09:45      | 198                                 |              |
|                                 |                          |                   |                                     |              |          | 11:00      | 296                                 |              |
|                                 |                          | 08/06/06          | 152                                 | X            | 08/06/06 | 08:30      | 233                                 | X            |
|                                 |                          |                   |                                     |              |          | 11:00      | 310                                 |              |
|                                 |                          |                   |                                     |              |          | 13:15      | 239                                 |              |
|                                 |                          | 14/06/06          | 159                                 | X            | 14/06/06 | 08:30      | 262                                 | X            |
|                                 |                          |                   |                                     |              |          | 11:00      | 329                                 |              |
|                                 |                          |                   |                                     |              |          | 13:30      | 288                                 |              |
|                                 |                          | 20/06/06          | 161                                 | X            | 20/06/06 | 08:30      | 276                                 | X            |
|                                 |                          |                   |                                     |              |          | 11:00      | 315                                 |              |
|                                 |                          |                   |                                     |              |          | 13:00      | 304                                 |              |
| 26/06/06                        | 165                      | X                 | 26/06/06                            | 08:30        | 296      | X          |                                     |              |
|                                 |                          |                   |                                     | 09:45        | 325      |            |                                     |              |
|                                 |                          |                   |                                     | 11:00        | 343      |            |                                     |              |
| 30/06/06                        | 170                      | X                 | 30/06/06                            | 08:30        | 247      | X          |                                     |              |
|                                 |                          |                   |                                     | 09:45        | 288      |            |                                     |              |
|                                 |                          |                   |                                     | 11:00        | 326      |            |                                     |              |

Remark (\*): L=Limit Level exceedance, A=Action Level exceedance and X= not an exceedance

No exceedances of Action and Limit Level of both 1-hour and 24-hour TSP monitoring results were recorded during the reporting month.

##### 4.8.2 Observation

Generally, the Contractor implemented sufficient dust mitigation measures, including operation of the mist spraying systems at the CEDD Combined Reception Office and the site egress area, wheel washing facilities, road dampening by water bowsers and automatic water sprinklers on the main haul roads. Furthermore, hydroseeded slopes on the stockpiling areas was maintained properly in order to prevent dust generation from wind erosion of the exposed surfaces. Besides the Fill Bank operation, the other dust sources near TKO Area 137 also included operation of the C&DMSF at PBR2 Project, the temporary C&DMSF at Portion K and dumping activities at the SENT Landfill.



## 5.0 Noise Monitoring

### 5.1 Monitoring Requirements

Noise monitoring was conducted at 1 monitoring station as specified in the approved EM&A Monitoring Proposal for good site practice. The equipment, parameter, frequency, duration, methodology, calibration details, results and observations of the noise monitoring for the reporting month are presented in this section.

### 5.2 Monitoring Equipment

An Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ). It complies with International Electro Technical Commission Publications 651:1979 (Type1) and 804:1985 (Type1), and speed in m/s was used to monitor the wind speed.

Table 5.1 summarizes noise monitoring equipment model being used. A copy of the calibration certificate for noise meter and calibrator are attached in Appendix C1.

Table 5.1 Noise Monitoring Equipment

| Equipment                     | Model                               |
|-------------------------------|-------------------------------------|
| Integrating Sound Level Meter | Rion NL-31 Sound Level Meter        |
| Calibrator                    | Rion NC-73 Sound Level Calibrator   |
| Portable Wind Speed Indicator | TSI Model 8340-M Air Velocity Meter |

### 5.3 Monitoring Parameters, Duration and Frequency

Duration, frequencies and parameters of noise measurement are presented in Table 5.2.

Table 5.2 Duration, Frequencies and Parameters of Noise Monitoring

| Time period                                  | Duration/min | Parameters                     | Frequency      |
|--|--------------|--------------------------------|----------------|
| Day-time: 0700-1900 hrs<br>on normal weekday | 30           | $L_{eq}$ , $L_{10}$ , $L_{90}$ | Once per month |

### 5.4 Monitoring Locations and Period

Noise monitoring was conducted at the noise monitoring location, N1 as shown in Figure 3.1 during the reporting month. Table 5.3 describes the location of the monitoring station.

Table 5.3 Noise Monitoring Locations

| Monitoring station | Location                              | Type of Measurement |
|--------------------|---------------------------------------|---------------------|
| N1                 | Outside site Egress along Wan Po Road | Façade              |

The noise-monitoring period of monitoring station is summarized in Table 5.4.

Table 5.4 Monitoring Period for noise monitoring stations

| Noise monitoring stations | Monitoring Period |       |
|---------------------------|-------------------|-------|
|                           | Day-time          |       |
| N1                        | 02/06/06          | 09:50 |

### 5.5 Monitoring Procedures and Calibration Details

#### Operation/Analysis Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- 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 weighting: A
  - Time weighting : Fast
  - Time measurement : 5 mins
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB(A), the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements.
- Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.

#### Maintenance and Calibration

- The microphone head of the sound level meter and calibrator are cleaned with soft cloth in quarterly intervals.
- The meter is sent to the supplier or HOKLAS laboratory to check and calibrated in yearly intervals.

### 5.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 5.5.

Table 5.5 Action and Limit Levels for noise monitoring

| Time Period  | Time Period                         | Action *                                     | Limit *  |
|--------------|-------------------------------------|--|----------|
| Normal hours | 0700-1900 hrs<br>on normal weekdays | When one documented<br>complaint is received | 75 dB(A) |

\*Traceable to Method Statement (Environmental Monitoring and Audit Manual) of Contract No.CV/2002/08, Rev. 2

### 5.7 Event-Action Plans

Please refer to the Appendix F for details.

### 5.8 Results and Observation

#### 5.8.1 Results

Only Day-time noise monitoring was carried out at monitoring station, N1 in this reporting month. Noise level is provided in Appendix C2. Graphical presentation of the monitoring result for the reporting month is shown in Appendix C3. A summary of the monitoring result is presented in Table 5.6.

Table 5.6 Summary of Impact Noise Level

| Date     | Start Sampling Time<br>(hh:mm) | Noise Level dB (A) |          |          |
|----------|--------------------------------|--------------------|----------|----------|
|          |                                | $L_{eq(30min)}$    | $L_{10}$ | $L_{90}$ |
| 02/06/06 | 09:50                          | 68.5               | 72.6     | 58.9     |

No Day-time noise monitoring result at monitoring station N1 exceeded the Action Level since no documented complaints on noise issue were received in this reporting month. Besides, no exceedances in Limit Level were recorded according to the result from Day-time noise monitoring.



### **5.8.2 Observation**

The major noise source during the monitoring event was the dump truck traffic. Operation of the Fill Bank was from 08:00 to 21:00 from Monday to Sunday in the reporting month. Whereas the operation hours for barge activities in the TKO Basin was from 08:00 to 23:00. The monitoring result complied with the noise limit of 75 dB(A).





## 6.0 MARINE WATER QUALITY MONITORING

### 6.1 Monitoring Requirements

In accordance with the EM&A Manual, impact marine water quality monitoring was conducted three days per week. Measurements were taken at both mid-flood and mid-ebb tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed) at the Control Station, C1 and Monitoring Station, M4.

### 6.2 Monitoring Locations

For the Reclamation Project, there were 4 Designated Monitoring Stations and 2 Designated Control Stations specified in the EM&A Manual. Upon the completion of the monitoring programme under Stage 2 reclamation works, the ET started monitoring events at the impact station M4 and the control station C1 from 18 May 2004 onwards. Figure 4.1 shows the location of the marine water quality monitoring stations. Table 6.1 describes the locations of the monitoring stations in the reporting month.

Table 6.1 Location of Marine Water Monitoring Stations

| Station Description                                     | Code | HK Metric Grid E | HK Metric Grid N |
|---|------|------------------|------------------|
| Control Station (Ebb tide)                              | C1   | 844 740.208      | 815 371.502      |
| Monitoring Station, Tung Lung Chau<br>Fish Culture Zone | M4   | 847 741.029      | 812 977.878      |

### 6.3 Monitoring Parameters

Monitoring of the marine water quality parameters are listed in Table 6.2.

Table 6.2 Marine Water Quality Monitoring Parameters

| In-situ measurement                      | Laboratory analysis     |
|--|-------------------------|
| Depth (m)                                | Suspended solids (mg/L) |
| Temperature (°C)                         |                         |
| Dissolved Oxygen (mg/L and % saturation) |                         |
| Turbidity (NTU)                          |                         |
| Salinity (ppt)                           |                         |

### 6.4 Monitoring Frequency

The monitoring frequency of the marine water monitoring is summarized in Table 6.3.

Table 6.3 The monitoring frequency of the marine water

| Parameter        | Frequency                   | No. of Location  | No. of Depths                          |
|------------------|-----------------------------|------------------|--|
| Temperature      | 3 days/week,<br>2 tides/day | 2<br>(C1 and M4) | 3<br>(Surface, mid-<br>depth & bottom) |
| Salinity         |                             |                  |  |
| DO               |                             |                  |  |
| Turbidity        |                             |                  |  |
| pH value         |                             |                  |  |
| Suspended solids |                             |                  |  |

### 6.5 Monitoring Methodology and Equipment Used

#### For Location of the monitoring stations

##### **Global Positioning System (GPS)**

A hand-held digital GPS was used to identify the designated monitoring stations prior to water sampling.



**For Water Depth measurement**

**Echo Sounder**

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

**For In-situ Water Quality Measurement**

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals or sometimes longer throughout all stages of the water quality monitoring.

**Dissolved Oxygen (DO) and temperature measuring equipment**

A portable, weatherproof DO-measuring meter with built-in salinity compensation (YSI model 95) was used in the impact monitoring. It can be capable for measuring:

- a dissolved oxygen level in the range of 0-20 mg/L and 0-200 % saturation; and
- a temperature of 0-45 degree Celsius

This type of DO-measuring meter has a membrane electrode with automatic temperature compensation complete with a 50-foot cable. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring location

**Turbidity Measurement Instrument**

A portable and weatherproof turbidity meter (HACH model 2100P) was used during impact monitoring. It has a photoelectric sensor capable of measuring turbidity between 0-1000 NTU. Response of the sensor was checked with certified standard Turbidity solutions before the start of measurement.

**Salinity Meter**

A portable salinity meter capable of measuring salinity in the range 0-40 ppt (YSI Model 30M) was provided for measuring salinity of the water at each monitoring location. It was checked with standard 30 ppt Salinity solutions before the start of measurement.

**For Water Sampling and Sample Analysis**

In-situ monitoring was carried out at three depths: 1 meter below water surface, at mid-depth and 1 meter above the seabed. If the water depth is less than 6 m, the mid-depth station shall be omitted and if the water depth is below 3 m, only the mid depth station shall be monitored.

**Water Sampler**

A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 liters, was lowered into the water body at the predetermined depth. The both opening ends of the sampler were then closed accordingly by dead weight and water samples were collected.

**Water Container**

The sample container, made by high-density polythene, was rinsed with a portion of the water sample. The water sample was then transferred to the container, labelled with a unique sample ID and sealed with a screw cap. The water samples were stored in a cool box maintained at 4°C. The water samples were then delivered to a local HOKLAS-accredited laboratory (Environmental Laboratory, ETS-Testconsult Ltd, HOKLAS Registration No. 022) on the same day for analysis.

The summary of testing method of testing parameter as recommended by EIA or required by EPD, with the QA/QC results in accordance with the requirement of HOKLAS or international accredited scheme is shown in Table 6.4.

Table 6.4 Summary of testing procedures

| Laboratory Analysis    | Testing Procedure  | Detection Limit |
|------------------------|--|-----------------|
| Total suspended solids | In house method<br>based on APHA 19 <sup>th</sup> ed 2540D | 1.0 mg/L        |



### In-situ measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring location.

At each measurement/sampling depth, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. For turbidity measurement, the sample was collected by using sampler and then transferred to the cell. The reading of turbidity of the sample was directly recorded from the Turbidimeter (HACH 2100P) after inserting the cell to the Turbidimeter. For DO, DOS and Salinity, duplicate measurements were performed by dropping the calibrated probes of the corresponding monitoring equipments to the designated depths of the water column and taking readings after stabilized. The duplicate measurements were averaged if the difference was not greater than 25%.

Table 6.5 shows the equipment used for in-situ monitoring of water quality. The calibration certificates are attached in Appendix D1.

Table 6.5 Details of Marine Water Quality Monitoring Equipment (In-site measurement)

| Parameter                                  | Model                              | Date of Calibration | Due Date   | Equipment No. |
|--|------------------------------------|---------------------|------------|---------------|
| Coordinate of Monitoring stations          | MLR GPS Navigator, SP24            | ----                | ----       | EW/005/01*    |
| Dissolved Oxygen (Saturation), Temperature | YSI Dissolved Oxygen Meter, YSI 95 | 30-05-2006          | 29-08-2006 | EW/003/001*   |
| Turbidity                                  | HACH Model 2100P Turbid Meter      | 28-04-2006          | 28-07-2006 | ET/0505/002   |
| Salinity                                   | YSI Model 30M                      | 28-04-2006          | 28-07-2006 | ET/0527/001   |
| Water Depth                                | EAGLE Strata 128 Sonar             | ----                | ----       | EW/002/02     |

Remark: (\*) indicates the instrument should be calibrated on use.

### 6.6 Action and Limit Level

The water quality criteria, namely Action and Limit (A/L) levels are presented in the table below.

Table 6.6 Water Quality Action and Limit Levels

| Parameter                           | Action Level *   | Limit Level *  |
|-------------------------------------|--|--|
| DO (mg/L)                           | <u>Surface &amp; Middle</u><br><5.45 mg/L (5%-ile of baseline data)<br><u>Bottom</u><br><4.72 mg/L (5%-ile of baseline data)   | <u>Surface &amp; Middle</u><br><5.10 mg/L (1%-ile of baseline data)<br><u>Bottom</u><br><2.00 mg/L                             |
| SS (mg/L)<br>(Depth-averaged)       | >6.74 mg/L (95%-ile of baseline data) or<br>>120% of the upstream control station's SS at<br>the same tide on the same day     | >7.67 mg/L (99%-ile of baseline data) or<br>>130% of the upstream control station's SS at<br>the same tide on the same day     |
| Turbidity (NTU)<br>(Depth-averaged) | >4.28 NTU (95%-ile of Impact data) or<br>>120% of the upstream control station's<br>turbidity at the same tide on the same day | >4.58 NTU (99%-ile of Impact data) or<br>>130% of the upstream control station's<br>turbidity at the same tide on the same day |

\* Traceable to Method Statement (Marine Water Quality Monitoring and Audit Manual) of Contract No. CV/2002/08, Rev. 2, Section 3.1 – 3.21

### 6.7 Event and Action Plan

Please refer to the Appendix F for details.



### 6.8 Monitoring Duration and Period in this reporting month

Below is the time schedule that water quality monitoring was conducted in this reporting month:

Table 6.7 Time Schedule of Water Quality Monitoring

| June 2006 |        |         |           |          |        |          |
|-----------|--------|---------|-----------|----------|--------|----------|
| Sunday    | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|           |        |         |           | 1        | 2      | 3        |
|           |        |         |           | ▼        |        | ▼        |
| 4         | 5      | 6       | 7         | 8        | 9      | 10       |
|           | ▼      |         | ▼         |          | ▼      |          |
| 11        | 12     | 13      | 14        | 15       | 16     | 17       |
|           | ▼      |         | ▼         |          | ▼      |          |
| 18        | 19     | 20      | 21        | 22       | 23     | 24       |
|           | ▼      |         | ▼         |          | ▼      |          |
| 25        | 26     | 27      | 28        | 29       | 30     |          |
|           | ▼      |         | ▼         |          | ▼      |          |

Remark ( ▼ ): Marine water quality monitoring carried out by ET

The daily marine water quality monitoring duration are detailed in Appendix D2.

### 6.9 Marine Water Quality Monitoring Results

The impact water quality measurement results are detailed in Appendix D2. Appendix D3 presents the water quality monitoring data and graphical presentations of monitoring results respectively.

The summary of marine water quality exceedances is shown in Table 6.8.

Table 6.8 Summary of Marine Water Quality Exceedances in this reporting month

| Station | Exceedance Level | DO    |     | Turbidity |     | SS    |     | Total |     |
|---------|------------------|-------|-----|-----------|-----|-------|-----|-------|-----|
|         |                  | Flood | Ebb | Flood     | Ebb | Flood | Ebb | Flood | Ebb |
| C1      | Action           | 0     | 1   | 0         | 0   | 0     | 0   | 0     | 1   |
|         | Limit            | 0     | 0   | 0         | 0   | 0     | 0   | 0     | 0   |
| M4      | Action           | 0     | 0   | 0         | 0   | 0     | 0   | 0     | 0   |
|         | Limit            | 0     | 0   | 0         | 0   | 0     | 0   | 0     | 0   |

According to the summary of marine water monitoring results, one exceedance of Action Level on Dissolved Oxygen at Monitoring Station C1 was recorded on 23 June 2006 (mid-ebb). Exceedance was not due to the operation of the Fill Bank as monitoring station C1 was located upstream to the works area. Since the exceedances were not due to the operation of Fill Bank, no further actions were required.

Interim notification of exceedance (NOE) for the exceedance was issued to EPD, ER, IEC and the Contractor by ET. The summary of NOE is attached in Appendix K.



## 7.0 IEC SITE AUDIT AND WEEKLY ET SITE INSPECTIONS

### 7.1 IEC Site Audit

7.1.1 During this reporting period, the IEC team conducted total of four independent site audits of the Contract CV 2005/12 site (Fill Bank at TKO Area 137) and the Contract CV 2004/13 site (Temporary C&DMSF at TKO Area 137).

7.1.2 Findings of the site audits have been recorded on site checklists, copies of which were submitted to the Contractor for their further action as appropriate, and to the Client for their records. Key issues were highlighted to the Contractor's representative at the completion of each site audit to ensure that they were aware of the problem(s) identified and where necessary, to take immediate corrective actions. A copy of the completed checklists are appended to this report in Appendix H.

Table 7.1 Dates of Site Audits in June 2006

| Date of Audit | Work Period                                     | Site Audit Checklist Submitted Under IEC's Ref No. |
|---------------|---|--|
| 8 June 2006   | Operation of Fill Bank & Construction of C&DMSF | 8116/2786 & 8116/2787                              |
| 20 June 2006  | Operation of Fill Bank                          | 8116/2822  |
| 30 June 2006  | Operation of Fill Bank                          | 8116/2853  |

7.1.3 The major findings recorded during the site audits conducted during this reporting period are summarized below. Full details are provided in the site audit checklists presented in Appendix H.

Table 7.2 Key Findings of Site Audits in April 2006 for Contract No. CV/2005/12

| Date     | Key Findings   | Action Taken by the Contractor  |
|----------|--|---|
| 8 Jun 06 | <ul style="list-style-type: none"> <li>The Contractor was reminded to clear the mud of the trapezoidal channel next to the Water Filling Station.</li> </ul>   | <ul style="list-style-type: none"> <li>The mud of the trapezoidal channel next to the Water Filling Station has been cleared.</li> </ul>  |
|          | <ul style="list-style-type: none"> <li>The Contractor should block the hole of the drip tray in which diesel oil drum underneath.</li> </ul>   | <ul style="list-style-type: none"> <li>The Contractor has arranged to seal up the hole of the drip tray.</li> </ul>   |
|          | <ul style="list-style-type: none"> <li>The Contractor was reminded to remove the water pond observed in the Maintenance Workshop.</li> </ul>   | <ul style="list-style-type: none"> <li>The low-lying area in the Maintenance Workshop that caused water ponding had been filled up.</li> </ul>  |
|          | <ul style="list-style-type: none"> <li>The silt curtains were still found damaged. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom.</li> </ul> | <ul style="list-style-type: none"> <li>Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006.</li> </ul> |
|          | <ul style="list-style-type: none"> <li>The Contractor was reminded to clear the C&amp;D materials along the walkway in BHA.</li> </ul>   | <ul style="list-style-type: none"> <li>The Contractor has arranged to clear the debris along the walkway in the Barge Handling Area (BHA).</li> </ul>   |



| Date       | Key Findings   | Action Taken by the Contractor  |
|------------|--|---|
| 20 Jun 06  | <ul style="list-style-type: none"> <li>The Contractor was reminded to clear the mud of the trapezoidal channel and sand trap of Chamber A.</li> </ul>  | <ul style="list-style-type: none"> <li>The mud of the trapezoidal channel and sand trap of Chamber A has been cleared.</li> </ul>   |
|            | <ul style="list-style-type: none"> <li>The Contractor was reminded to regularly clear the debris along the walkway in BHA</li> </ul>   | <ul style="list-style-type: none"> <li>The Contractor has arranged to clear the debris along the walkway in the Barge Handling Area (BHA).</li> </ul>   |
|            | <ul style="list-style-type: none"> <li>Fugitive dust emission was observed and the Contractor was reminded to provide adequate water spraying.</li> </ul>  | <ul style="list-style-type: none"> <li>The Contractor has arranged to enhance water spraying within the site area.</li> </ul>   |
|            | <ul style="list-style-type: none"> <li>The silt curtains were still found damaged. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom.</li> </ul> | <ul style="list-style-type: none"> <li>Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006.</li> </ul> |
|            | <ul style="list-style-type: none"> <li>The Contractor should fill the trap found in the Marine Workshop.</li> </ul>  | <ul style="list-style-type: none"> <li>The low-lying area (trap) found in the Marine Workshop will be filled up by 16 July 2006.</li> </ul>   |
| 30 June 06 | <ul style="list-style-type: none"> <li>The Contractor was reminded to clear the mud and debris in the trapezoidal channel.</li> </ul>  | <ul style="list-style-type: none"> <li>The mud and debris inside the trapezoidal channel has been cleared.</li> </ul>   |
|            | <ul style="list-style-type: none"> <li>The Contractor was reminded to regularly clear the debris along the walkway in BHA</li> </ul>   | <ul style="list-style-type: none"> <li>The Contractor has arranged to clear the debris along the walkway in the Barge Handling Area (BHA).</li> </ul>   |
|            | <ul style="list-style-type: none"> <li>Fugitive dust emission was observed and the Contractor was reminded to provide adequate water spraying.</li> </ul>  | <ul style="list-style-type: none"> <li>The Contractor has arranged to enhance water spraying within the site area.</li> </ul>   |
|            | <ul style="list-style-type: none"> <li>The silt curtains were still found damaged. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom.</li> </ul> | <ul style="list-style-type: none"> <li>Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006.</li> </ul> |
|            | <ul style="list-style-type: none"> <li>The Contractor should fill the trap found in the Marine Workshop.</li> </ul>  | <ul style="list-style-type: none"> <li>The low-lying area (trap) found in the Marine Workshop will be filled up by 16 July 2006.</li> </ul>   |
|            | <ul style="list-style-type: none"> <li>It is found that the chemical waste storage area was removed from the maintenance workshop. The Contractor is reminded to provide chemical waste storage for the site.</li> </ul>   | <ul style="list-style-type: none"> <li>A new chemical waste storage shed will be provided on site by 15 July 2006.</li> </ul>   |



| Date       | Key Findings  | Action Taken by the Contractor   |
|------------|---|--|
| 30 June 06 | <ul style="list-style-type: none"><li>The maintenance workshop is being decommissioned. Oil stain was found on the ground at several areas in the workshop. The Contractor is requested to remove the contaminated soil from the ground for proper disposal before future uses.</li></ul> | <ul style="list-style-type: none"><li>The contaminated soil has been removed for further proper disposal off site.</li></ul> |

7.1.4 Following from the previous two reporting periods (April 2006 and May 2006), there were again no air quality exceedances recorded during this reporting period. Based on observations recorded during site inspections and site supervision events, the Contractor was observed to have implemented most of their dust prevention measures during the reporting period. However, on occasion fugitive dust emission was observed when the trucks were travelling on the main haul road. As such, the CV/2005/12 Contractor was reminded to ensure that all dust mitigation measures, particularly those near the site entrance, were operated according to their design merits to ensure that fugitive dust impacts to neighbouring land users was minimized.

7.1.5 The frequency of road / platform watering was considered to be acceptable in the reporting period. Nevertheless, the Contractor has been reminded to regularly review the frequency of road watering in light of the seasonally dry weather conditions in Hong Kong.

7.1.6 The silt curtains at the BHA were still observed to be damaged on various occasions by both the IEC and the ET.

## 7.2 Weekly ET Site Inspections

Weekly ET site inspections were carried out by ET to monitor the timely implementation of proper environmental pollution control and mitigation measures for the Project. In this reporting month, five weekly site inspections were conducted (02, 08, 14, 20 and 26 June 2006). After each site inspection, the Contractor was notified of the ET's observations and recommendations. A follow-up action plan detailing the environmental observations had also been prepared by the ET. The Contractor then completed this plan to propose / report their remedial works. The Contractor should also submit the completed the follow-up action report to ET by e-mail. This follow-up action plan submission procedure was adopted for each subsequent ET's inspection to notify all the relevant parties of the Contractor's follow up actions. The weekly site inspection reports are attached in Appendix I. Summaries of the weekly site inspection findings in this reporting month are described as follows:

### **Air Quality**

- The major dust sources were dump truck movement on the unpaved haul roads and loading & unloading activities on various working platforms in the Fill Bank. The Contractor deployed water bowsers to dampen the haul roads and the working platforms;
- A road sweeper was used to remove settled dust particulates outside the site egress on Wan Po Road;
- Several automatic sprinklers served to dampen the haul roads outside the site office and on the ramp to the stockpiling area;
- Wheel washing facilities were operating during weekly site inspections. Besides, the Contractor operated several mist spraying systems at the site egress and weighbridge respectively. The truckloads were dampened during inspection of fill material at the CEDD Combined Reception Office;
- No potential fugitive dust from vehicle movement was observed in this reporting month. The Contractor was still reminded to water the haul road more frequently during dry season;
- The dump trucks were operating below the speed limit in the Fill Bank. There were sufficient speed limit signs on site to advise the drivers;



- The fill material was usually dampened on the barge. Dust impact was minimal from the barge delivery and unloading activity at the BHA;
- No dark emission was noted from the site machines in the reporting month. Generally, all the Powered Mechanical Equipment (PME) were maintained regularly; and
- Other than the Fill Bank operation, dust sources also included road paving works of Wan Po Road outside the site egress, operation of PBR2 at Portion J of the Fill Bank, temp C&DMSF at Portion K, delivery of rock fill material from the SENT Landfill to the EPD's barging point and associated dumping activity, operation of the SENT Landfill, vehicular movement and wind erosion on Wan Po Road.

#### **Noise**

- The major noise source was dump truck traffic in the Fill Bank. Since the nearby NSR were remote from the Fill Bank, the noise impact was minimal. There was no specific observation noted regarding noise issue.

#### **Water Quality**

- Debris and mud were observed to have accumulated at the drainage channel at Chamber A during the several ET weekly site inspections in this reporting month. The Contractor should clean up the drainage channel regularly. Since the finding was still observed during the last weekly site inspection in this reporting month, the finding will be verified in the coming month;
- Silt curtain enclosed the Marine Barging Area was still found to be damaged in this reporting month. The Contractor was reminded to repair the damaged section of silt curtain immediately. Since the repairing work of silt curtain was not finished at the end of this reporting month, it will be verified in the coming month;
- Stagnant water was found to be accumulated at Marine Workshop during the several ET weekly site inspections in this reporting month. The contractor should drain the stagnant water out or use pesticide to prevent mosquito breeding; and
- Fill materials had accumulated on the concrete embankment at the BHA. The Contractor should clean up the fill materials as soon as each unloading activity is completed to avoid the fill materials from being washed into the sea.

#### **Chemical and Waste Management**

- The Contractor provided waste skips to collect general refuse and disposal of them regularly to the SENT Landfill. In this reporting month, 3.04 tons C&D waste were disposed to SENT Landfill and no waste oil was collected by licensed waste collector;
- The chemical waste was stored in the Chemical Waste Storage Area (CWSA). The Contractor should dispose chemical wastes regularly to avoid over accumulation of chemical waste on site;
- Follow up action to the finding of the last month, the chemical containers without labels stored in a temporary shed near the water truck filling station had been relocated to appropriate chemical storage area;
- Equipment maintenance was undertaken at the workshop area. The Contractor was reminded to clean up the leaked oil and properly dispose the material as chemical waste. Tarpaulin sheeting and containers should be laid underneath the equipment undergoing maintenance to collect leaked oil and avoid further contamination; and
- A generator at water truck filling station was found without drip trays during the last weekly site inspection. The Contractor should remind the site workers to provide appropriate drip trays for all generators.

#### **Landscape and Visual**

- The germination rate on the hydroseeded panels at Portion A, B, G, H and I were observed to be satisfactory in this reporting month. The Contractor was still advised to maintain the panel properly;
- Sufficient lighting was provided for the Fill Bank operation in the evening.





#### **Site Practices**

- Sufficient rubbish skips had been provided at site by the Contractor and the site area was found tidy and clean; and
- The Contractor had provided drip tray for all generators in order to avoid oil spillage.

#### **Landfill Gas**

- The registered safety officer carried out landfill gas monitoring (oxygen, carbon dioxide and methane) twice per day for each temporary office in this reporting month;
- The equipments used in the monitoring have been calibrated for all these three parameters; and
- All the monitoring results were satisfactory.

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

The monitoring works conducted by the Environmental Team were inspected regularly. The observations for the monitoring works were recorded and summarized as follows:

#### **Air Quality Monitoring**

- The monitoring team recorded the observations around the monitoring stations within and outside of the construction site.
- The monitoring team recorded the temperature, air pressure and general weather condition on the monitoring day.

#### **Noise Monitoring**

- The monitoring team recorded the observations around the monitoring station, which might affect the results.
- Major noise sources were identified and recorded.

#### **Water Quality Monitoring**

- The monitoring team recorded the observations around the monitoring stations, which might affect the results.

### **7.4 Assessment of Environmental Monitoring Results**

All monitoring results were audited against the Action and Limit levels and any exceedances would be validated.

According to the summary of marine water monitoring results, one exceedance of Action Level on dissolved oxygen at Monitoring Station C1 was recorded on 23 June 2006 (mid-ebb). Exceedance was not due to the operation of the Fill Bank as monitoring station C1 was located upstream to the works area. Since the exceedances were not due to the operation of Fill Bank, no further actions were required. Interim notification of exceedance (NOE) for the exceedance was issued to EPD, ER, IEC and the Contractor by ET. The summary of NOE is attached in Appendix K.

No exceedances were recorded in air quality and noise monitoring in this reporting month.

The monitoring results in this reporting period were comparable with those of baseline period. Detailed discussions were given in Section 2, 3 and 4 of this Report.

### **7.5 Advice on the Solid and Liquid Waste Management Status**

The Contractor should provide sufficient preventive measures during equipment maintenance works so as to avoid oil leakage on the ground. In the event of any oil leakage, the Contractor should clean up the polluted soil and handle all the materials used for this cleaning works as chemical waste.



Concrete bundings were erected outside the CEDD combined reception office and near the automatic wheel washing facilities for storing generator sets and oil drums. The drain outlet of all the bunded areas should be plugged properly. Besides, pre-cast drip trays were provided for oil drums at several areas, such as workshop and chemical storage area. The Contractor should collect and dispose of any stagnant water accumulated in the concrete bunding and drip trays and handle them as chemical waste.

The Contractor should use suitable containers with proper labels to store chemical wastes in accordance with Code of Practice on the Packaging, Labeling and Storage of Chemical Waste. The Contractor should also advise their workers of the proper procedures in handling the chemical waste. All the trip tickets for chemical waste disposal were properly kept in the site office. No chemical waste disposal was undertaken in the reporting month.

The Contractor was reminded to increase the frequency of inspection and cleaning of the site drainage system, including permanent desilting chambers, desilting facilities, oil interceptor bypass tank, DP3 and DP4 and all the trapezoidal channels. Moreover, the Contractor should apply approved pesticides in the stagnant water ponds.

All the runoff from the parking area should be pumped to the desilting facilities and oil interceptors to remove suspended solids and oil & grease prior to discharge.



## 8.0 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting month are summarized in Table 8.1.

Table 8.1 Summary of environmental licensing and permit status

| Description                  | Permit No.        | Valid Period |          | Section  |
|------------------------------|-------------------|--------------|----------|--|
|                              |                   | From         | To       |  |
| Amended Environmental Permit | EP-134/2002/F     | 26/01/06     | ---      | (Valid) <ul style="list-style-type: none"> <li>▪ Site clearance</li> <li>▪ Construction of a temporary storm water system</li> <li>▪ Stockpiling of 6 million m<sup>3</sup> of public fill</li> <li>▪ Setting up two barging points for transporting the stockpiled public fill by barges</li> <li>▪ Setting up a temporary barging point at the existing Explosive Off-loading Barging Point for the period of May 2004 to December 2004 for transporting the stockpiled public fill by barge</li> <li>▪ Construction of operation of a construction and Demolition Material Sorting Facility (C&amp;DMSF)</li> <li>▪ Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin</li> <li>▪ Remove the temporary fill bank</li> </ul> |
| Effluent Discharge License   | TE/D1152/839/1    | 06/06/03     | 30/06/08 | <ul style="list-style-type: none"> <li>▪ For effluent from site toilet and shower room</li> <li>▪ For aerobic wastewater treatment plant</li> </ul>  |
| Chemical Waste Producer      | 5213-839-P2800-23 | 04/08/05     | ---      | <ul style="list-style-type: none"> <li>▪ Spent Lubricating Oil</li> <li>▪ Solvent &amp; Battery</li> <li>▪ Surplus Paint Bank &amp; Fuel</li> <li>▪ Contaminated Soil</li> <li>▪ Empty Chemical Containers</li> </ul>  |



## 9.0 ENVIRONMENTAL NON-CONFORMANCE

### 9.1 Summary of air quality, noise and marine water quality

No exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month.

No day-time noise level measured at all monitoring stations exceeded the Action and Limit Level in the reporting month.

According to the summary of marine water monitoring results, one exceedance of Action Level on dissolved oxygen at Monitoring Station C1 was recorded on 23 June 2006 (mid-ebb). Exceedance was not due to the operation of the Fill Bank as monitoring station C1 was located upstream to the works area. Since the exceedances were not due to the operation of Fill Bank, no further actions were required. Interim notification of exceedance (NOE) for the exceedance was issued to EPD, ER, IEC and the Contractor by ET. The summary of NOE is attached in Appendix K.

### 9.2 Summary of Environmental Complaints

No complaint was received in this reporting month.

### 9.3 Summary of Notification of Summons and Prosecution

There was no notification of summons respect to environmental issues registered in this reporting month.

## 10.0 IMPLEMENTATION STATUS

### 10.1 Implementation Status of Environmental Mitigation Measures

An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix J. Most of the necessary mitigation measures were implemented properly. Any deficiencies were noted in the remarks of the schedule.

### 10.2 Implementation Status of Event and Action Plan

There was no exceedance on air quality and noise monitoring parameters recorded in this monitoring month. Hence no further actions were required.

According to the summary of marine water monitoring results, one exceedance of Action Level on dissolved oxygen at Monitoring Station C1 was recorded on 23 June 2006 (mid-ebb). Exceedance was not due to the operation of the Fill Bank as monitoring station C1 was located upstream to the works area. Since the exceedances were not due to the operation of Fill Bank, no further actions were required. Interim notification of exceedance (NOE) for the exceedance was issued to EPD, ER, IEC and the Contractor by ET. The summary of NOE is attached in Appendix K.

### 10.3 Implementation Status of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

No complaints, notifications of summons and successful prosecutions were received in this reporting month. A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 10.1. Further details of the Complaint Log present in Appendix N.

Table 10.1 Summary of Environmental Complaints and Prosecutions

| <i>Complaints logged</i> |                   | <i>Summons served</i> |                   | <i>Successful Prosecution</i> |                   |
|--------------------------|-------------------|-----------------------|-------------------|-------------------------------|-------------------|
| <i>June 2006</i>         | <i>Cumulative</i> | <i>June 2006</i>      | <i>Cumulative</i> | <i>June 2006</i>              | <i>Cumulative</i> |
| 0                        | 1                 | 0                     | 0                 | 0                             | 0                 |



## 11.0 CONCLUSIONS AND RECOMMENDATIONS

### Conclusions

Impact monitoring of air quality and noise were carried out at designated locations in accordance with the EM&A Manual in this reporting month.

According to the summary of air monitoring results, no exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month.

Impact noise level monitoring was performed on 02 June 2006. The noise level measured at the monitoring station complied with the Limit Level of 75dB(A). No complaint was received regarding noise issue.

According to the summary of marine water monitoring results, one exceedance of Action Level on dissolved oxygen at Monitoring Station C1 was recorded on 23 June 2006 (mid-ebb). Exceedance was not due to the operation of the Fill Bank as monitoring station C1 was located upstream to the works area. Since the exceedances were not due to the operation of Fill Bank, no further actions were required. Interim notification of exceedance (NOE) for the exceedance was issued to EPD, ER, IEC and the Contractor by ET. The summary of NOE is attached in Appendix K.

According to the ET weekly site inspections and IEC site audits carried out in this reporting month, the Contractor generally implemented sufficient dust mitigation measures, including operation of the mist spraying systems and automatic wheel washing facilities, dampening of haul roads and stockpiling areas. However, the silt curtain enclosed the Marine Barging Area was found damaged after the Typhoon on 17 May 2006. The Contractor should repair it immediately.

No complaints, prosecutions or notifications of summons were received in this reporting month.

### Recommendations

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

#### **Air Quality**

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Conduct road sweeping on the public road and the main haul roads outside and near the site egress by the road sweeper. Undertake water spraying on stockpiling area by water bowers;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;
- Operate mist spraying systems and automatic water sprinklers in the Fill Bank;
- Implement the dust mitigation measures for the construction activities;
- Designate proper haul roads to ensure effective water spraying; and
- Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

#### **Noise**

- Conduct noisy activities at a farther location from the NSRs.



#### **Water Quality**

- Maintain the drainage system, including the trapezoidal channels, permanent desilting chambers, DP3 & DP4 regularly;
- Operate and maintain the silt curtains regularly;
- Operate the cleaning vessel within the TKO Basin regularly;
- Provide proper treatment for the oil discharge from the area near air monitoring station AA1;
- Clean up the fill material on the concrete pavement at BHA frequently; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, if any.

#### **Chemical and Waste Management**

- Remove waste materials from the site to avoid accumulation regularly;
- Handle and store chemical wastes properly;
- Remove unwanted material in the existing stockpiles and avoid further dumping of such material;
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain mesh screen on top of the additional drainage, DP3 to avoid improper dumping of rubbish;
- Maintain good housekeeping at the workshop area;
- Ensure sufficient tarpaulin sheets are provided to cover drip trays; and
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.

#### **Landscape and Visual**

- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding / chaining fences in accordance with agreed design at proper location; and
- Maintain the hydroseeded slopes in accordance with the Landscape Plan.



## 12.0 FUTURE KEY ISSUES

### 12.1 Construction Programme for the Coming Month

As informed by the Contractor, the activities to be conducted by them in the next month included:

- Manage the incoming public fill dump trucks arriving through land access;
- Transport temporary stockpiled public fill from the Barge Handling Area (BHA) to Stockpile Areas or the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);
- Transport stockpile public fill from Stockpile Areas to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);
- Direct some incoming public fill dump trucks to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2) for unloading;
- Routine site cleaning and maintenance of internal haul roads and access roads; and
- Routine implementation of environmental mitigation measures such as dust suppression by water spraying, cleaning of nearby public roads by using road sweeper and collection of floating debris inside a berthing basin within the site boundary; and
- Landscaping works in the vicinity of the main entrance of the Fill Bank at Tseung Kwan O Area 137 and in front of the Engineer's Site Office.

### 12.2 Key Issues for the Coming Month

**Key issues to be considered in the coming month include:**

- Chemical and waste management
- Treatment of runoff and wastewater prior to discharge
- Dust generated from loading and unloading activities; and
- Dust generated from dump trucks traffic.

**Mitigation measures to be required in the coming month:**

#### Air Quality Impact

- To provide adequate water spraying on haul roads and working platform;
- To operate and maintain automatic wheel washing facilities properly;
- To dampen the fill material prior to unloading or movement;
- To provide road sweeping on the haul road near site egress and the public roads outside site egress;
- To ensure implementation of the dust mitigation measures for the construction activities;
- To maintain proper operation of the mist spraying system;
- To provide proper maintenance for vehicles and machines on site; and
- To investigate any other dust sources around the air sensitive receivers.

#### Noise

- To switch off equipment if not in use;
- To operate silent equipment;
- To identify the noise sources inside and outside of the site;
- To follow up any exceedance caused by the Fill Bank operation; and
- To re-schedule the work activities in the event of valid noise exceedance.

#### Water Quality Impact

- To maintain the drainage system in the Fill Bank;
- To ensure the cleanliness of oil interceptor bypass tanks and all the drainage channels;
- To maintain the existing silt trap to ensure good efficiency of wheel wash facilities;
- To repair, inspect and maintain the silt curtains regularly;
- To provide covers for the drip trays to avoid stagnant water pond due to rainfall;
- To provide proper treatment for oily water discharged from the area around air monitoring station AA1;



- To deploy a cleaning vessel to remove floating rubbish in the TKO Basin;
- To clean up the concrete paved area at Portion I every night to avoid fill materials from being washed into the sea; and
- To avoid any stagnant water or provide insecticide to avoid mosquito breeding in the Fill Bank.

Chemical and Waste Management

- To remove waste from the site regularly;
- To properly store and handle chemical wastes on site;
- To implement trip ticket system for all the imported public fill and general refuse disposal;
- To provide and manage sufficiently sized drip trays for diesel drums or chemical containers;
- To remove existing unwanted material in the stockpiles and avoid improper disposal at the Fill Bank through inspection of imported truckloads;
- To maintain proper housekeeping at the workshop area;
- To remove the oil stains in the event of leakage and handle all materials using for this cleaning works as chemical waste;
- To maintain mesh screen on top of the additional drainage, DP3 opening to avoid improper dumping of rubbish into this channel; and
- To identify C&D material by packaging, labeling, storage, transportation and disposal in accordance with statutory regulations.

**12.3 Monitoring Schedule for the Coming Month**

The proposed EM&A program of the coming month is attached in Appendix M.





## **Appendix A**

### **Organization Chart and Lines of Communication**

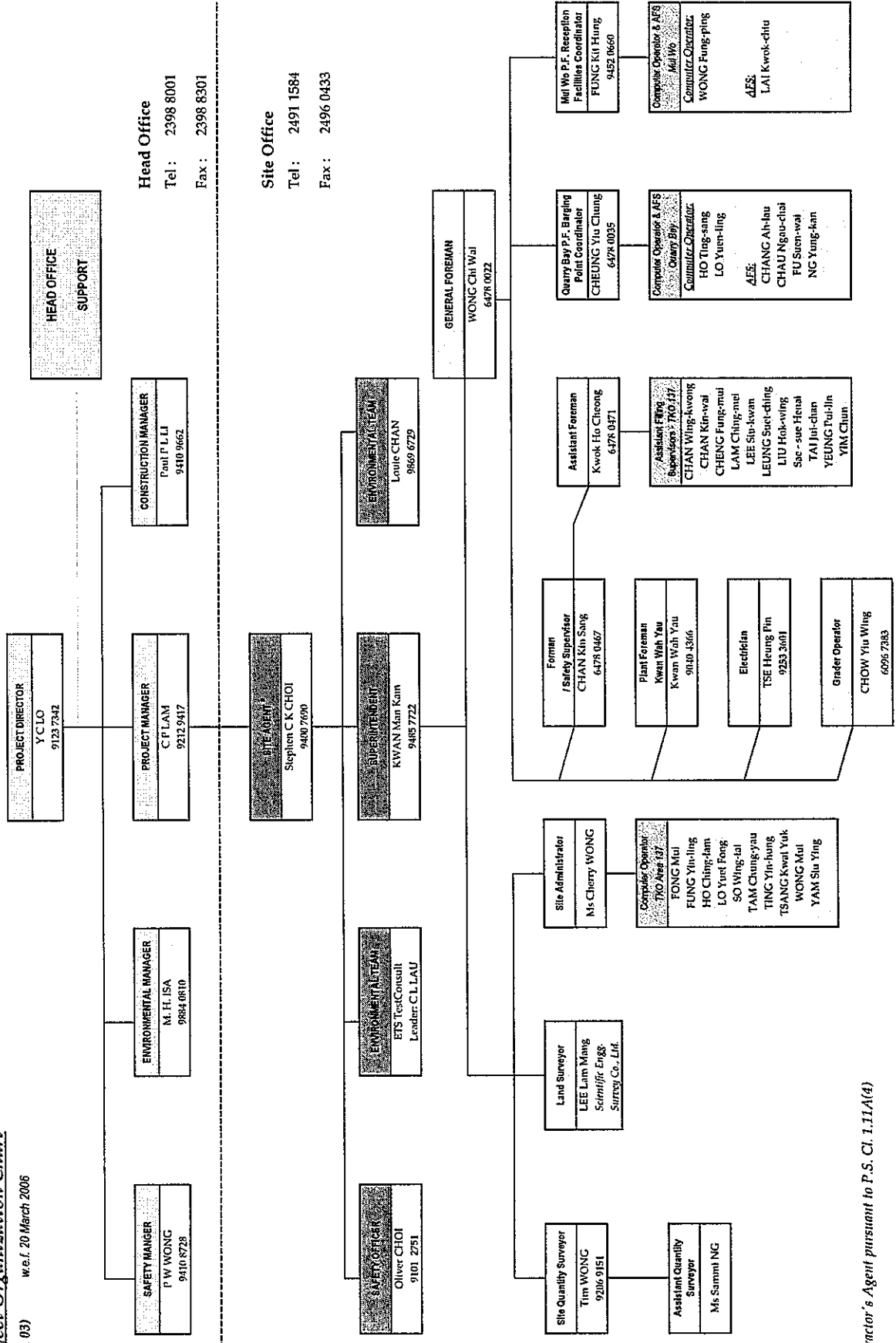
CEDD Contract No. CV/2005/12

Operation of Public Fill Reception Facilities at  
Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Project Organization Chart

(Rev. 03)

we.f. 20 March 2006

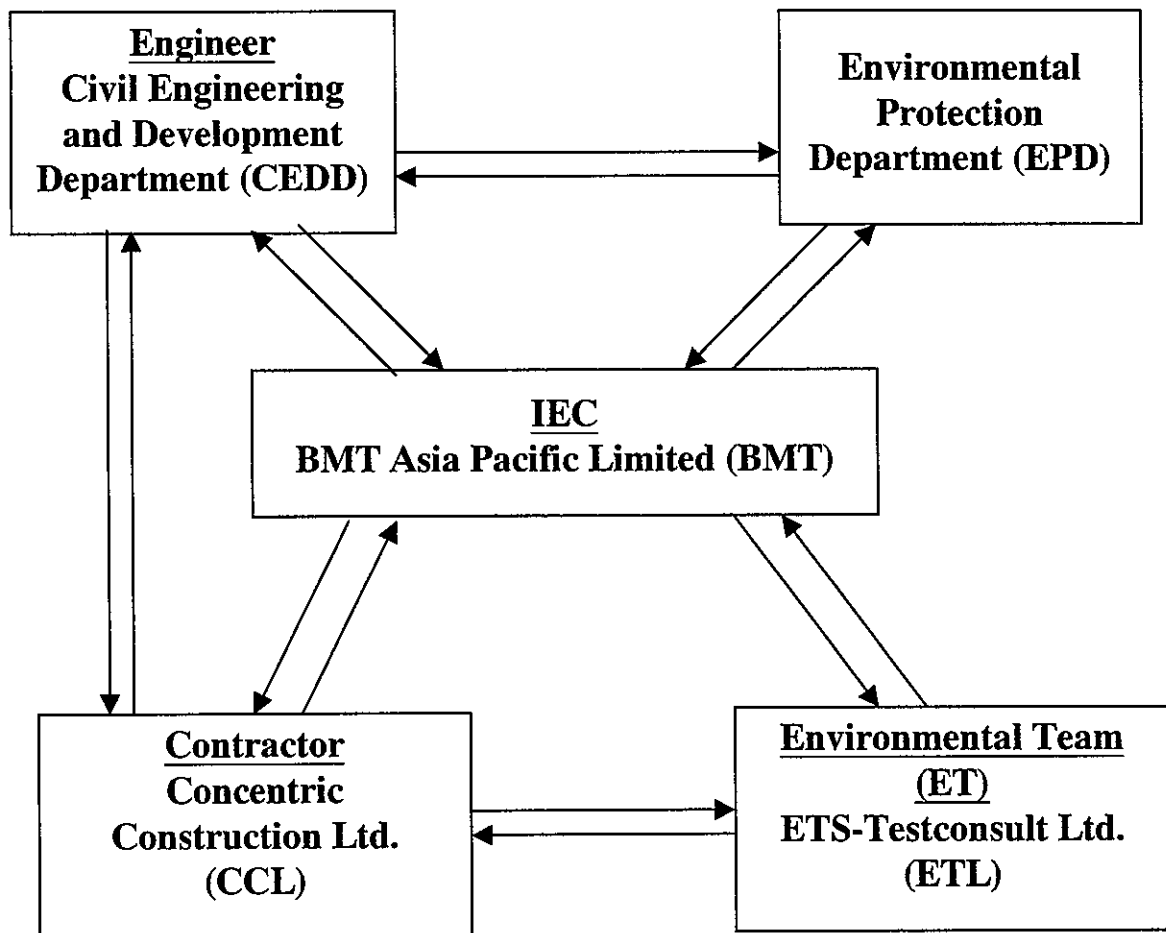


**Head Office**  
Tel: 2398 8001  
Fax: 2398 8301

**Site Office**  
Tel: 2491 1584  
Fax: 2496 0433

\* Contractor's Agent pursuant to P.S. Cl. 1.11A(d)

# Lines of Communication





## **Appendix B1**

### **Calibration Certificates for Air Quality Monitoring Equipments**



東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318 E-mail : etl@ets-testconsult.com  
Fax : 2695 3944 Web site : www.ets-testconsult.com

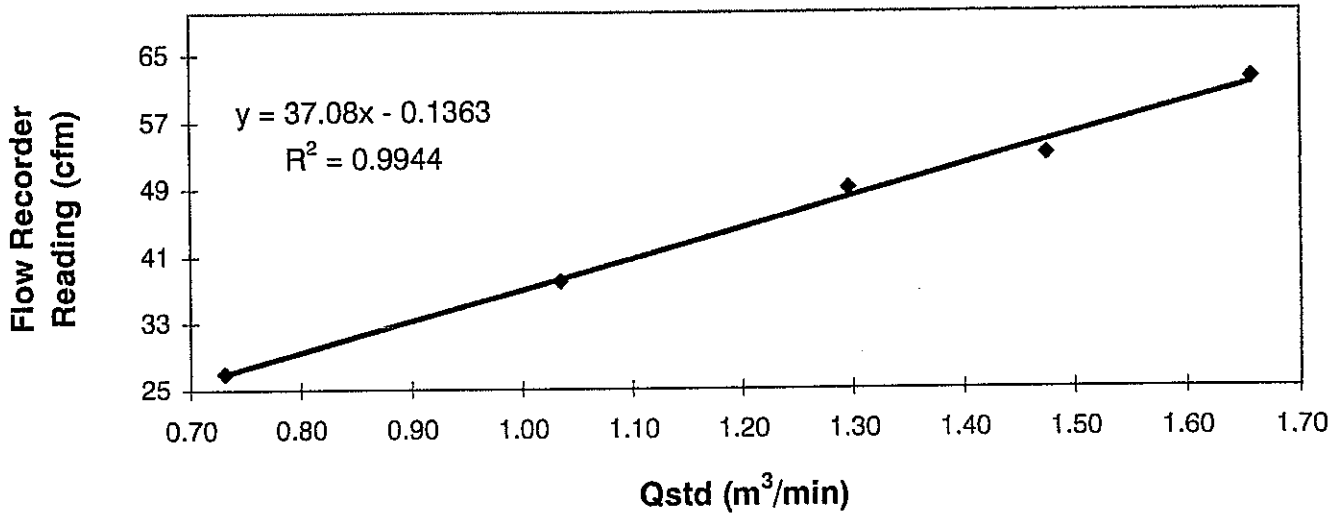
**TEST REPORT**

**Calibration Report**  
of  
**High Volume Air Sampler**

Manufacturer : Greasby GMW Date of Calibration : 22 May 2006  
Serial No. : 10347 ( ET / EA / 003 / 06 ) Calibration Due Date : 21 July 2006  
Method : Based on Operations Manual for in series calibration method by TISCH  
ENVIROMENTAL Model Te-5025A calibration kit

|         |  |              |      |         |       |      |
|---------|--|--------------|------|---------|-------|------|
| Results | Flow recorder reading (cfm)                  | 62           | 53   | 49      | 38    | 27   |
|         | Qstd (Actual flow rate, m <sup>3</sup> /min) | 1.66         | 1.48 | 1.30    | 1.03  | 0.73 |
|         | Pressure :                                   | 758.24 mm Hg |      | Temp. : | 299 K |      |

**Air Sampler 10347 Calibration Curve**  
Site: Tseung Kwan O (AA1)  
Date of Calibration: 22 May 2006



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use.

Calibrated by : H. T. Chow  
H. T. Chow  
(Asst. Environmental Officer)

Approved by : Linda Law  
Linda Law  
(Environmental Officer)



東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong  
Tel : 2695 8318 E-mail : etl@ets-testconsult.com  
Fax : 2695 3944 Web site : www.ets-testconsult.com

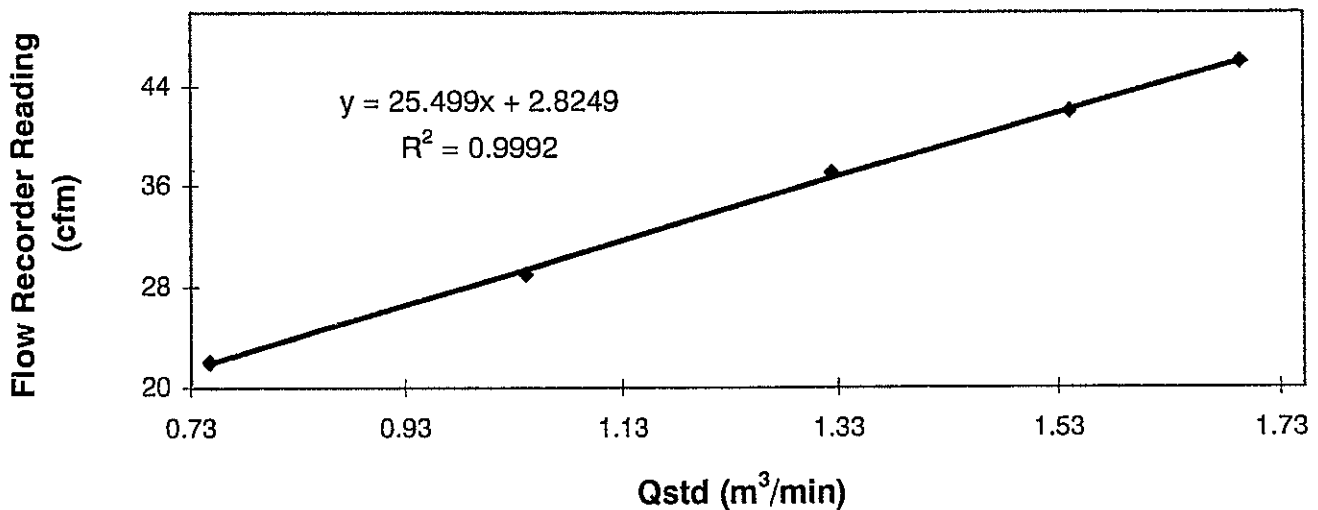
**TEST REPORT**

**Calibration Report  
of  
High Volume Air Sampler**

Manufacturer : Greasby GMW Date of Calibration : 22 May 2006  
Serial No. : 1176 ( ET / EA / 003 / 05 ) Calibration Due Date : 21 July 2006  
Method : Based on Operations Manual for in series calibration method by TISCH  
ENVIROMENTAL Model Te-5025A calibration kit

|         |  |               |      |      |      |      |
|---------|--|---------------|------|------|------|------|
| Results | Flow recorder reading (cfm)                  | 46            | 42   | 37   | 29   | 22   |
|         | Qstd (Actual flow rate, m <sup>3</sup> /min) | 1.72          | 1.56 | 1.34 | 1.06 | 0.76 |
|         | Pressure : 758.24 mm Hg                      | Temp. : 299 K |      |      |      |      |

**Air Sampler 1176 Calibration Curve  
Site: Tseung Kwan O (AA2)  
Date of Calibration: 22 May 2006**



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use.

Calibrated by :   
H. T. Chow  
(Asst. Environmental Officer)

Approved by :   
Linda Law  
(Environmental Officer)



TISCH ENVIRONMENTAL, INC.  
 145 SOUTH MIAMI AVE.  
 VILLAGE OF CLEVELAND, OH 45002  
 513.467.9000  
 877.263.7610 TOLL FREE  
 513.467.9009 FAX  
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jun 24, 2005 Rootsometer S/N 9833620 Ta (K) - 292  
 Operator Tisch Orifice I.D. - 0873 Pa (mm) - 761.24

| PLATE OR Run # | VOLUME START (m3) | VOLUME STOP (m3) | DIFF VOLUME (m3) | DIFF TIME (min) | METER DIFF Hg (mm) | ORFICE DIFF H2O (in.) |
|----------------|-------------------|------------------|------------------|-----------------|--------------------|-----------------------|
| 1              | NA                | NA               | 1.00             | 1.4090          | 3.1                | 2.00                  |
| 2              | NA                | NA               | 1.00             | 0.9980          | 6.2                | 4.00                  |
| 3              | NA                | NA               | 1.00             | 0.8930          | 7.8                | 5.00                  |
| 4              | NA                | NA               | 1.00             | 0.8510          | 8.6                | 5.50                  |
| 5              | NA                | NA               | 1.00             | 0.7020          | 12.5               | 8.00                  |

DATA TABULATION

| Vstd                                | (x axis) Qstd | (y axis) | Va                        | (x axis) Qa | (y axis) |
|-------------------------------------|---------------|----------|---------------------------|-------------|----------|
| 1.0180                              | 0.7225        | 1.4298   | 0.9959                    | 0.7068      | 0.8759   |
| 1.0139                              | 1.0159        | 2.0221   | 0.9919                    | 0.9938      | 1.2387   |
| 1.0118                              | 1.1330        | 2.2608   | 0.9898                    | 1.1084      | 1.3849   |
| 1.0106                              | 1.1876        | 2.3711   | 0.9887                    | 1.1618      | 1.4525   |
| 1.0054                              | 1.4322        | 2.8597   | 0.9835                    | 1.4010      | 1.7518   |
| Qstd slope (m) =                    |               | 2.01640  | Qa slope (m) =            |             | 1.26264  |
| intercept (b) =                     |               | -0.02588 | intercept (b) =           |             | -0.01585 |
| coefficient (r) =                   |               | 0.99998  | coefficient (r) =         |             | 0.99998  |
| y axis = SQRT[H2O(Pa/760) (298/Ta)] |               |          | y axis = SQRT[H2O(Ta/Pa)] |             |          |

CALCULATIONS

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

Va = Diff Vol [(Pa-Diff Hg)/Pa]  
 Qa = Va/Time

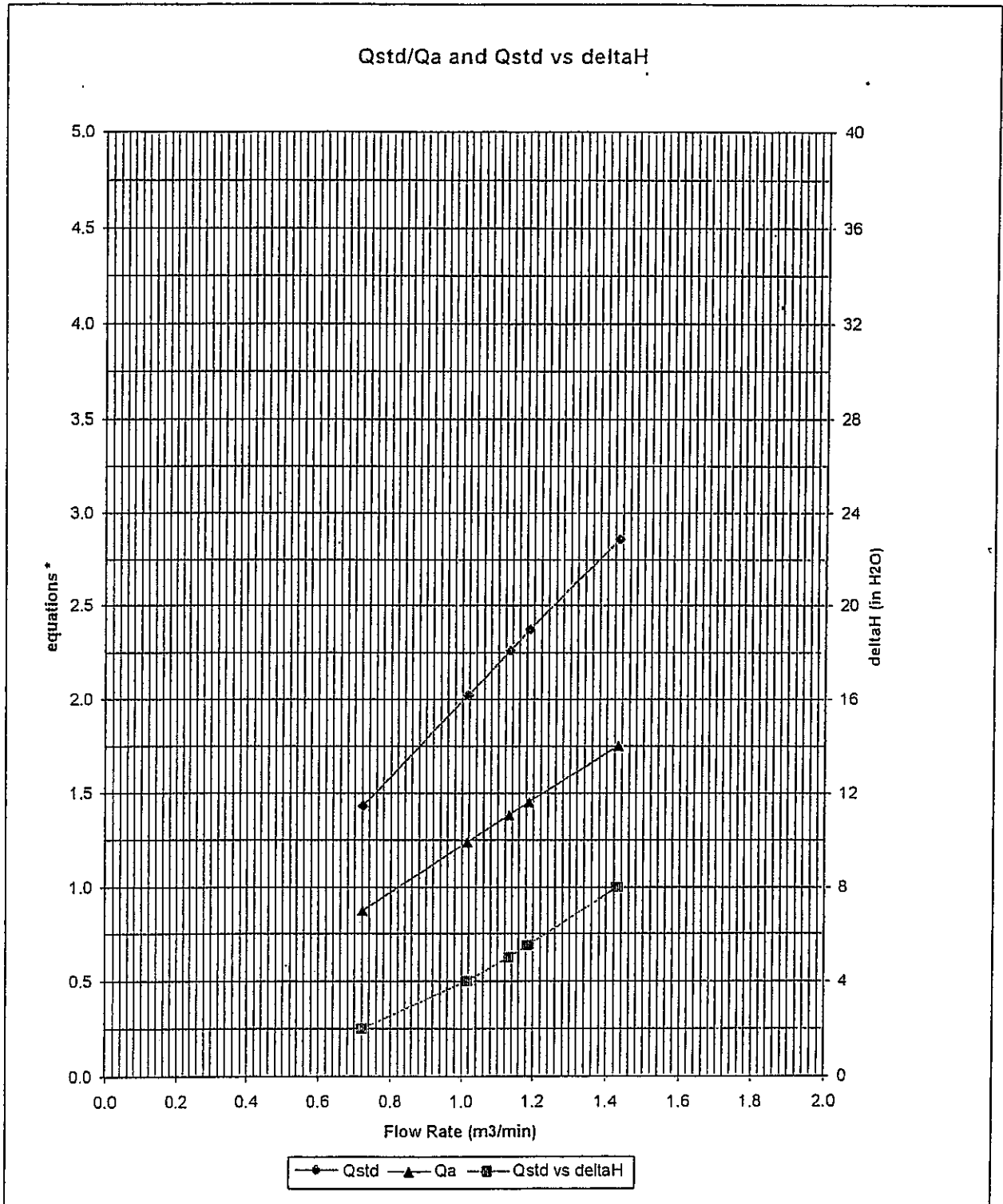
For subsequent flow rate calculations:

Qstd = 1/m { [SQRT(H2O(Pa/760) (298/Ta))] - b }  
 Qa = 1/m { [SQRT H2O(Ta/Pa)] - b }



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AIR POLLUTION MONITORING EQUIPMENT



\* y-axis equations:

Qstd series: 
$$\sqrt{\Delta H \left( \frac{P_a}{P_{std}} \right) \left( \frac{T_{std}}{T_a} \right)}$$

Qa series: 
$$\sqrt{(\Delta H (T_a / P_a))}$$

#0873





## **Appendix B2**

### **Air Quality Monitoring Results**

## Summary of 24-hr TSP Monitoring Results

Monitoring Station : AA1  
Location : Outside CEDD Site Office

| Start Date | Time  | Finish   |       | Elapse Time |         | Sampling Time (hrs) | Flow Rate (m <sup>3</sup> /min.) |       | Average (m <sup>3</sup> /min.) | Filter Weight (g) |        | Conc. (µg/m <sup>3</sup> ) |
|------------|-------|----------|-------|-------------|---------|---------------------|----------------------------------|-------|--------------------------------|-------------------|--------|----------------------------|
|            |       | Date     | Time  | Initial     | Final   |                     | Initial                          | Final |                                | Initial           | Final  |                            |
| 02/06/06   | 12:05 | 03/06/06 | 12:07 | 8922.68     | 8946.71 | 24.03               | 0.97                             | 0.97  | 0.97                           | 2.8461            | 3.0489 | 145                        |
| 08/06/06   | 14:30 | 09/06/06 | 14:30 | 8949.71     | 8973.71 | 24.00               | 0.95                             | 0.95  | 0.95                           | 2.8700            | 3.0930 | 163                        |
| 14/06/06   | 16:00 | 15/06/06 | 16:04 | 8976.71     | 9000.78 | 24.07               | 0.92                             | 0.92  | 0.92                           | 2.8414            | 3.0726 | 174                        |
| 20/06/06   | 14:15 | 21/06/06 | 14:51 | 9003.78     | 9028.38 | 24.60               | 0.81                             | 0.81  | 0.81                           | 2.8493            | 3.0502 | 168                        |
| 26/06/06   | 13:00 | 27/06/06 | 13:10 | 9031.38     | 9055.55 | 24.17               | 0.84                             | 0.84  | 0.84                           | 2.8710            | 3.0866 | 177                        |
| 30/06/06   | 13:00 | 01/07/06 | 13:14 | 9058.55     | 9082.78 | 24.23               | 0.92                             | 0.92  | 0.92                           | 2.8656            | 3.1117 | 184                        |

Monitoring Station : AA2  
Location : Site Egress

| Start Date | Time  | Finish   |       | Elapse Time |          | Sampling Time (hrs) | Flow Rate (m <sup>3</sup> /min.) |       | Average (m <sup>3</sup> /min.) | Filter Weight (g) |        | Conc. (µg/m <sup>3</sup> ) |
|------------|-------|----------|-------|-------------|----------|---------------------|----------------------------------|-------|--------------------------------|-------------------|--------|----------------------------|
|            |       | Date     | Time  | Initial     | Final    |                     | Initial                          | Final |                                | Initial           | Final  |                            |
| 02/06/06   | 12:15 | 03/06/06 | 12:18 | 12215.20    | 12239.25 | 24.05               | 1.22                             | 1.22  | 1.22                           | 2.8382            | 3.0671 | 130                        |
| 08/06/06   | 14:30 | 09/06/06 | 14:50 | 12242.25    | 12266.59 | 24.34               | 1.26                             | 1.26  | 1.26                           | 2.8595            | 3.1392 | 152                        |
| 14/06/06   | 16:00 | 15/06/06 | 16:04 | 12269.59    | 12293.65 | 24.06               | 1.30                             | 1.30  | 1.30                           | 2.8519            | 3.1503 | 159                        |
| 20/06/06   | 14:15 | 21/06/06 | 14:20 | 12296.65    | 12320.74 | 24.09               | 1.30                             | 1.30  | 1.30                           | 2.8686            | 3.1711 | 161                        |
| 26/06/06   | 13:00 | 27/06/06 | 13:10 | 12323.74    | 12347.90 | 24.16               | 1.26                             | 1.26  | 1.26                           | 2.8444            | 3.1458 | 165                        |
| 30/06/06   | 13:00 | 01/07/06 | 13:05 | 12350.90    | 12374.98 | 24.08               | 1.30                             | 1.30  | 1.30                           | 2.8637            | 3.1830 | 170                        |

## Summary of 1-hr TSP Monitoring Results

Monitoring Station : AA1  
 Location : Outside CEDD Site Office

| Date     | Time  |        | Elapse Time |         | Sampling Time (hrs) | Flow Rate (m <sup>3</sup> /min.) |       | Average (m <sup>3</sup> /min.) | Filter Weight (g) |        | Conc. (µg/m <sup>3</sup> ) |
|----------|-------|--------|-------------|---------|---------------------|----------------------------------|-------|--------------------------------|-------------------|--------|----------------------------|
|          | Start | Finish | Initial     | Final   |                     | Initial                          | Final |                                | Initial           | Final  |                            |
| 02/06/06 | 08:30 | 09:30  | 8919.68     | 8920.68 | 1.00                | 0.97                             | 0.97  | 0.97                           | 2.8495            | 2.8597 | 175                        |
|          | 09:45 | 10:45  | 8920.68     | 8921.68 | 1.00                | 0.97                             | 0.97  | 0.97                           | 2.8611            | 2.8752 | 242                        |
|          | 11:00 | 12:00  | 8921.68     | 8922.68 | 1.00                | 0.97                             | 0.97  | 0.97                           | 2.8329            | 2.8506 | 304                        |
| 08/06/06 | 08:30 | 09:30  | 8946.71     | 8947.71 | 1.00                | 0.95                             | 0.95  | 0.95                           | 2.8518            | 2.8635 | 205                        |
|          | 11:00 | 12:00  | 8947.71     | 8948.71 | 1.00                | 0.95                             | 0.95  | 0.95                           | 2.8697            | 2.8889 | 337                        |
|          | 13:15 | 14:15  | 8948.71     | 8949.71 | 1.00                | 0.95                             | 0.95  | 0.95                           | 2.8432            | 2.8590 | 277                        |
| 14/06/06 | 08:30 | 09:30  | 8973.71     | 8974.71 | 1.00                | 0.92                             | 0.92  | 0.92                           | 2.8629            | 2.8764 | 245                        |
|          | 11:00 | 12:00  | 8974.71     | 8975.71 | 1.00                | 0.92                             | 0.92  | 0.92                           | 2.8534            | 2.8731 | 357                        |
|          | 13:30 | 14:30  | 8975.71     | 8976.71 | 1.00                | 0.92                             | 0.92  | 0.92                           | 2.8490            | 2.8660 | 308                        |
| 20/06/06 | 08:30 | 09:30  | 9000.78     | 9001.78 | 1.00                | 0.81                             | 0.81  | 0.81                           | 2.8642            | 2.8782 | 288                        |
|          | 11:00 | 12:00  | 9001.78     | 9002.78 | 1.00                | 0.81                             | 0.81  | 0.81                           | 2.8573            | 2.8750 | 364                        |
|          | 13:00 | 14:00  | 9002.78     | 9003.78 | 1.00                | 0.81                             | 0.81  | 0.81                           | 2.8819            | 2.8976 | 323                        |
| 26/06/06 | 08:30 | 09:30  | 9028.38     | 9029.38 | 1.00                | 0.84                             | 0.84  | 0.84                           | 2.8441            | 2.8602 | 319                        |
|          | 09:45 | 10:45  | 9029.38     | 9030.38 | 1.00                | 0.84                             | 0.84  | 0.84                           | 2.8593            | 2.8763 | 337                        |
|          | 11:00 | 12:00  | 9030.38     | 9031.38 | 1.00                | 0.84                             | 0.84  | 0.84                           | 2.8687            | 2.8873 | 369                        |
| 30/06/06 | 08:30 | 09:30  | 9055.55     | 9056.55 | 1.00                | 0.92                             | 0.92  | 0.92                           | 2.8427            | 2.8580 | 277                        |
|          | 09:45 | 10:45  | 9056.55     | 9057.55 | 1.00                | 0.92                             | 0.92  | 0.92                           | 2.8514            | 2.8682 | 304                        |
|          | 11:00 | 12:00  | 9057.55     | 9058.55 | 1.00                | 0.92                             | 0.92  | 0.92                           | 2.8616            | 2.8814 | 359                        |

Monitoring Station : AA2  
 Location : Site Egress

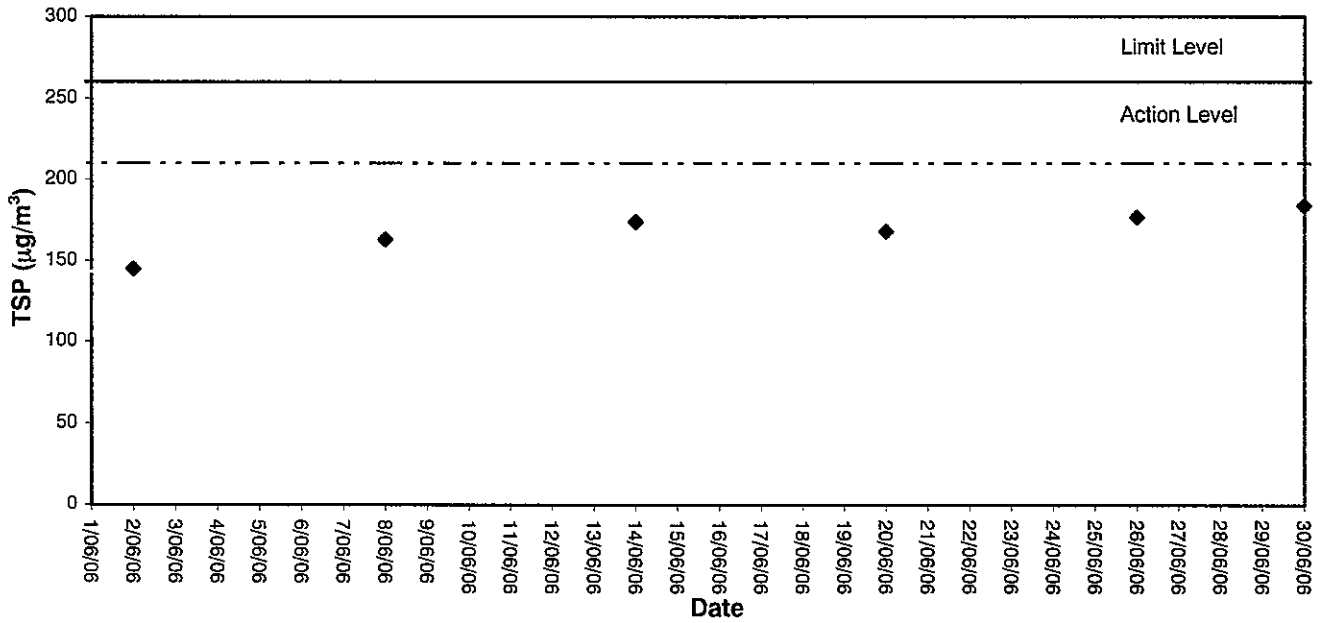
| Date     | Time  |        | Elapse Time |          | Sampling Time (hrs) | Flow Rate (m <sup>3</sup> /min.) |       | Average (m <sup>3</sup> /min.) | Filter Weight (g) |        | Conc. (µg/m <sup>3</sup> ) |
|----------|-------|--------|-------------|----------|---------------------|----------------------------------|-------|--------------------------------|-------------------|--------|----------------------------|
|          | Start | Finish | Initial     | Final    |                     | Initial                          | Final |                                | Initial           | Final  |                            |
| 02/06/06 | 08:30 | 09:30  | 12212.20    | 12213.20 | 1.00                | 1.22                             | 1.22  | 1.22                           | 2.8147            | 2.8260 | 154                        |
|          | 09:45 | 10:45  | 12213.20    | 12214.20 | 1.00                | 1.22                             | 1.22  | 1.22                           | 2.8282            | 2.8427 | 198                        |
|          | 11:00 | 12:00  | 12214.20    | 12215.20 | 1.00                | 1.22                             | 1.22  | 1.22                           | 2.8506            | 2.8723 | 296                        |
| 08/06/06 | 08:30 | 09:30  | 12239.25    | 12240.25 | 1.00                | 1.26                             | 1.26  | 1.26                           | 2.868             | 2.8794 | 233                        |
|          | 11:00 | 12:00  | 12240.25    | 12241.25 | 1.00                | 1.26                             | 1.26  | 1.26                           | 2.8510            | 2.8744 | 310                        |
|          | 13:15 | 14:15  | 12241.25    | 12242.25 | 1.00                | 1.26                             | 1.26  | 1.26                           | 2.8393            | 2.8574 | 239                        |
| 14/06/06 | 08:30 | 09:30  | 12266.59    | 12267.59 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8308            | 2.8512 | 262                        |
|          | 11:00 | 12:00  | 12267.59    | 12268.59 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8612            | 2.8869 | 329                        |
|          | 13:30 | 14:30  | 12268.59    | 12269.59 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8445            | 2.8670 | 288                        |
| 20/06/06 | 08:30 | 09:30  | 12293.65    | 12294.65 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8552            | 2.8767 | 276                        |
|          | 11:00 | 12:00  | 12294.65    | 12295.65 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8418            | 2.8664 | 315                        |
|          | 13:00 | 14:00  | 12295.65    | 12296.65 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8677            | 2.8914 | 304                        |
| 26/06/06 | 08:30 | 09:30  | 12320.74    | 12321.74 | 1.00                | 1.26                             | 1.26  | 1.26                           | 2.8329            | 2.8553 | 296                        |
|          | 09:45 | 10:45  | 12321.74    | 12322.74 | 1.00                | 1.26                             | 1.26  | 1.26                           | 2.8543            | 2.8789 | 325                        |
|          | 11:00 | 12:00  | 12322.74    | 12323.74 | 1.00                | 1.26                             | 1.26  | 1.26                           | 2.8618            | 2.8877 | 343                        |
| 30/06/06 | 08:30 | 09:30  | 12347.90    | 12348.90 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8547            | 2.8740 | 247                        |
|          | 09:45 | 10:45  | 12348.90    | 12349.90 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8339            | 2.8564 | 288                        |
|          | 11:00 | 12:00  | 12349.90    | 12350.90 | 1.00                | 1.30                             | 1.30  | 1.30                           | 2.8422            | 2.8676 | 326                        |



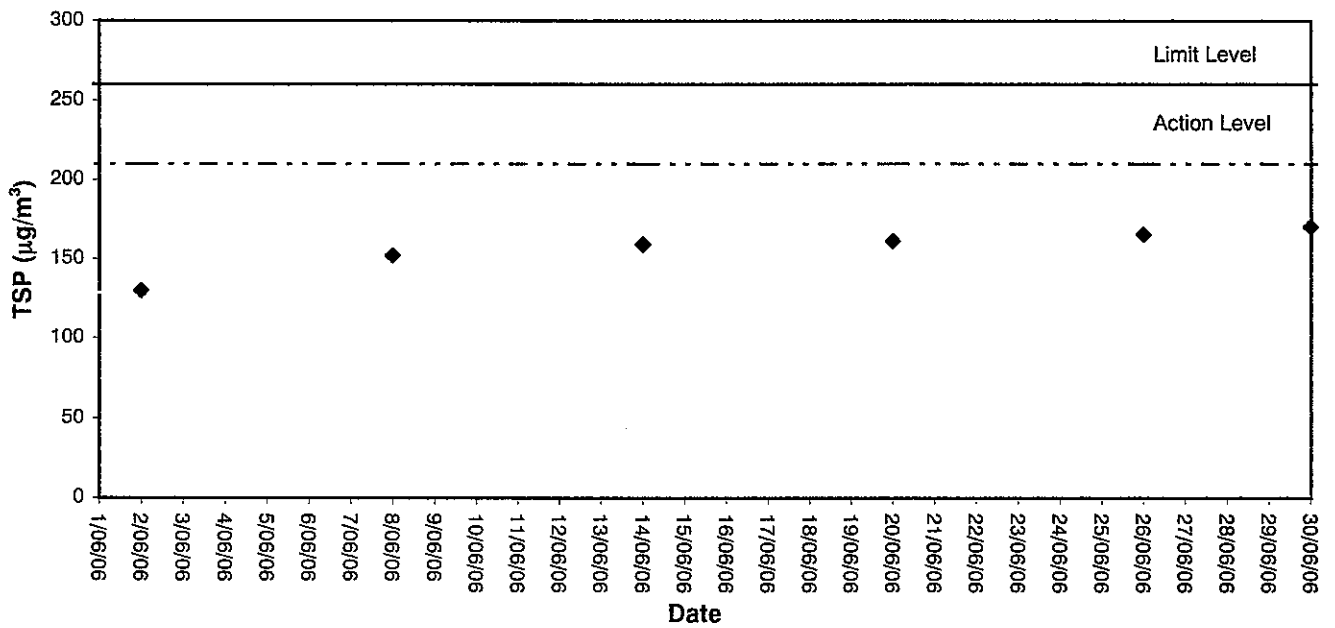
## **Appendix B3**

### **Graphical Plots of Air Quality Monitoring Data**

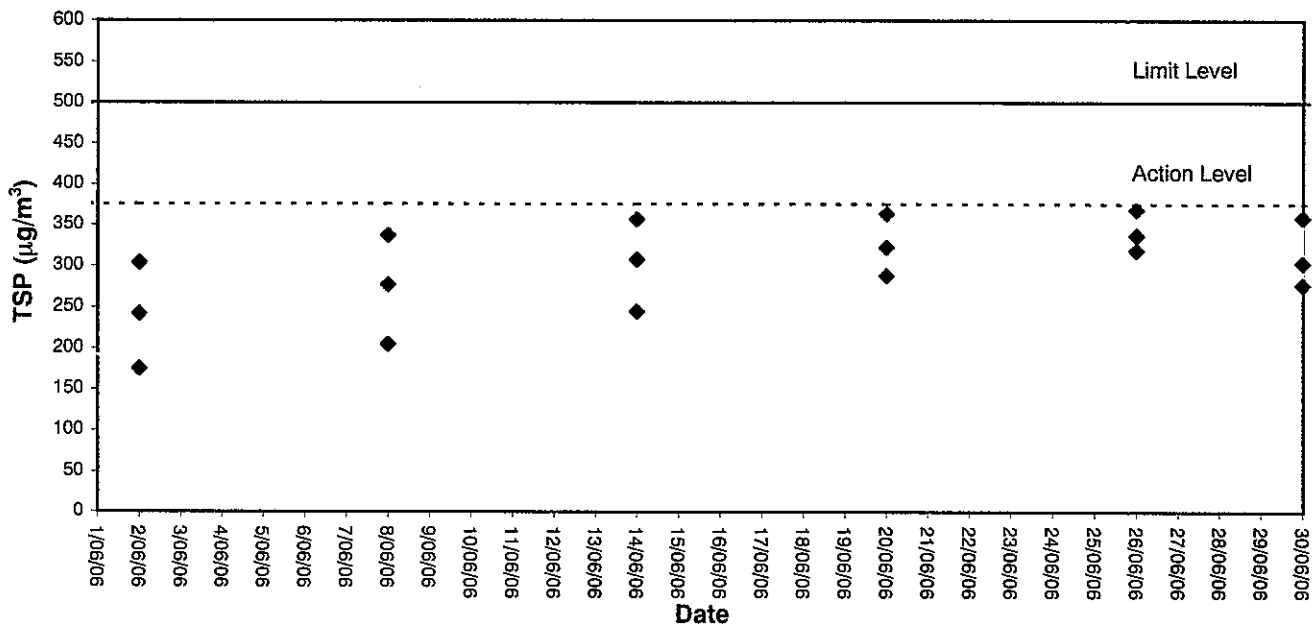
**24-hour TSP level at AA1 (Outside CEDD Site Office)**



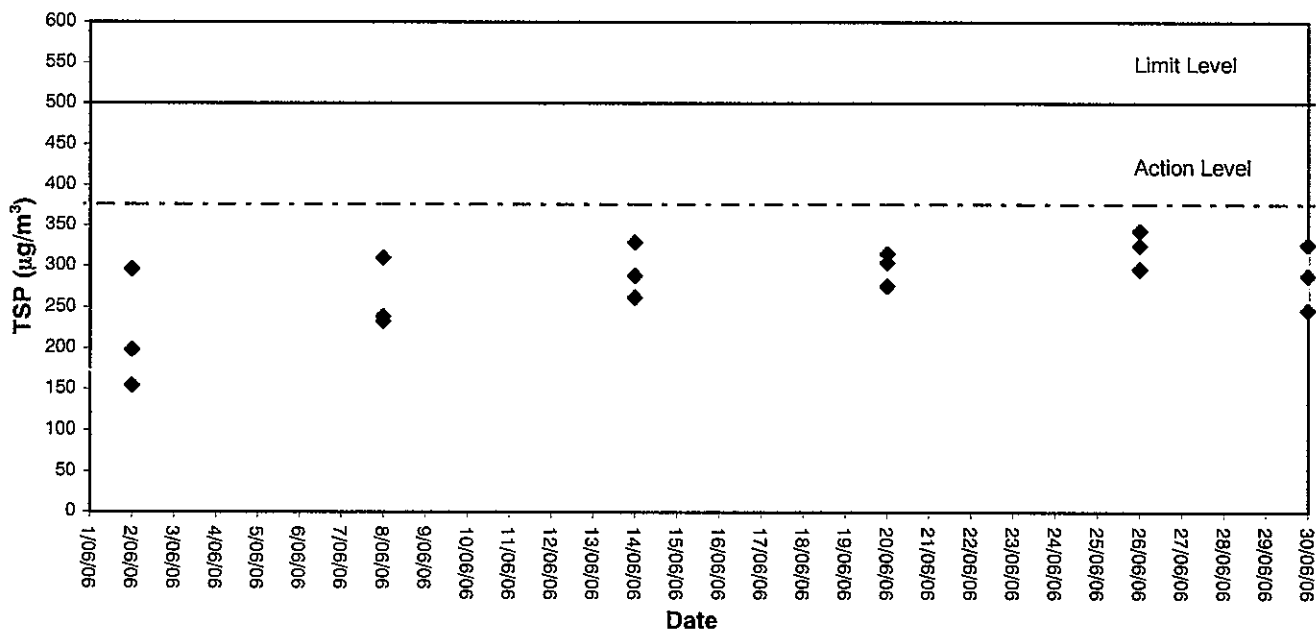
**24-hour TSP level at AA2 (Site Egress)**



**1-hour TSP level at AA1 (Outside CEDD Site Office)**



**1-hour TSP level at AA2 (Site Egress)**





## **Appendix C1**

### **Calibration Certificates for Noise Monitoring Equipments**



# Calibration Certificate

Certificate No. **61398**

Page 1 of 3 Pages

**Customer :** ETS-Testconsult Limited

**Address :** 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

**Order No. :** Q60555

**Date of receipt :** 29-Mar-06

## Item Tested

**Description :** Precision Integrating Sound Level Meter

**Manufacturer :** Rion

**Model :** NL-31

**Serial No. :** 00110024

## Test Conditions

**Date of Test :** 4-Apr-06

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Calibration procedure : Z01.

## Test Results

All results were within the IEC 651 Type 1 and IEC 804 Type 1 specification.

The results are shown in the attached page(s).

Test equipment used:

| <u>Equipment No.</u> | <u>Description</u> | <u>Cert. No.</u> | <u>Due Date</u> | <u>Traceable to</u> |
|----------------------|--------------------|------------------|-----------------|---------------------|
| S017                 | Function Generator | C051022          | 21-Mar-07       | HKGSCL              |
| S024                 | Calibrator         | S41431           | 22-May-06       | PRC-NIM             |

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

**Calibrated by :** 

P.F.Wong

**Approved by :** 

Dorothy Cheuk

**Date:** 4-Apr-06

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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# Calibration Certificate

Certificate No. 61398

Page 2 of 3 Pages

Results :

## 1. SPL Accuracy

| UUT Setting      |                |          | Applied Value (dB) | UUT Reading (dB) |
|------------------|----------------|----------|--------------------|------------------|
| Level Range (dB) | Weight         | Response |                    |                  |
| 20 – 100         | L <sub>A</sub> | Fast     | 94.0               | 93.8             |
|                  |                | Slow     |                    | 93.8             |
|                  | L <sub>C</sub> | Fast     |                    | 93.8             |
|                  | L <sub>p</sub> | Fast     |                    | 93.8             |
| 30 – 120         | L <sub>A</sub> | Fast     | 94.0               | 93.8             |
|                  |                | Slow     |                    | 93.7             |
|                  | L <sub>C</sub> | Fast     |                    | 93.8             |
|                  | L <sub>p</sub> | Fast     |                    | 93.8             |
| 30 – 120         | L <sub>A</sub> | Fast     | 113.9              | 113.8            |
|                  |                | Slow     |                    | 113.7            |
|                  | L <sub>C</sub> | Fast     |                    | 113.8            |
|                  | L <sub>p</sub> | Fast     |                    | 113.8            |

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.2$  dB

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  dB



# Calibration Certificate

Certificate No. 61398

Page 3 of 3 Pages

### 3. Frequency Weighting

A weighting

| Frequency | Attenuation (dB) | IEC 651 Type 1 Spec.        |
|-----------|------------------|-----------------------------|
| 31.5 Hz   | - 39.5           | - 39.4 dB, $\pm 1.5$ dB     |
| 63 Hz     | - 26.2           | - 26.2 dB, $\pm 1.5$ dB     |
| 125 Hz    | - 16.2           | - 16.1 dB, $\pm 1$ dB       |
| 250 Hz    | - 8.8            | - 8.6 dB, $\pm 1$ dB        |
| 500 Hz    | - 3.3            | - 3.2 dB, $\pm 1$ dB        |
| 1 kHz     | 0.0 (Ref.)       | 0 dB, $\pm 1$ dB            |
| 2 kHz     | + 1.2            | + 1.2 dB, $\pm 1$ dB        |
| 4 kHz     | + 1.1            | + 1.0 dB, $\pm 1$ dB        |
| 8 kHz     | - 1.2            | - 1.1 dB, + 1.5 dB ~ - 3 dB |
| 16 kHz    | - 6.7            | - 6.6 dB, + 3 dB ~ $\infty$ |

Uncertainty :  $\pm 0.1$  dB

### 4. Time Averaging

| Applied Burst duty Factor | Applied Leq Value (dB) | UUT Reading (dB) | IEC 804 Type 1 Spec. |
|---------------------------|------------------------|------------------|----------------------|
| continuous                | 40.0                   | 40.0             | --                   |
| 1/10                      | 40.0                   | 39.8             | $\pm 0.5$ dB         |
| 1/10 <sup>2</sup>         | 40.0                   | 40.0             |                      |
| 1/10 <sup>3</sup>         | 40.0                   | 40.0             | $\pm 1.0$ dB         |
| 1/10 <sup>4</sup>         | 40.0                   | 40.0             |                      |

Uncertainty :  $\pm 0.1$  dB

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 1 000 hPa.

----- END -----



# Calibration Certificate

Certificate No. **61399**

Page 1 of 2 Pages

**Customer :** ETS-Testconsult Limited

**Address :** 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

**Order No. :** Q60555

**Date of receipt :** 29-Mar-06

## Item Tested

**Description :** Sound Level Calibrator

**Manufacturer :** Rion

**Model :** NC-73

**Serial No. :** 10644871

## Test Conditions

**Date of Test :** 4-Apr-06

**Supply Voltage :** --

**Ambient Temperature :** (23 ± 3)°C

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

Calibration procedure : F21, Z02.

## Test Results

All results were within the manufacturer's specification.

The results are shown in the attached page(s).

Test equipment used:

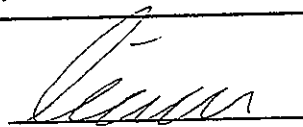
| <u>Equipment No.</u> | <u>Description</u> | <u>Cert. No.</u> | <u>Due Date</u> | <u>Traceable to</u> |
|----------------------|--------------------|------------------|-----------------|---------------------|
| S014                 | Spectrum Analyzer  | 53024            | 7-Jul-06        | PRC-NIM             |
| S024                 | Calibrator         | S41431           | 22-May-06       | PRC-NIM             |
| S041                 | Universal Counter  | 53972            | 26-Aug-06       | HKGSCS              |

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

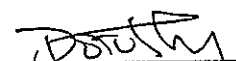
The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

**Calibrated by :**

  
P.F. Wong

**Approved by :**

  
Dorothy Cheuk

**Date:** 4-Apr-06

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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# Calibration Certificate

Certificate No. 61399

Page 2 of 2 Pages

Results :

## 1. Level Accuracy (at 1 kHz)

| UUT Nominal Value | Measured Value |               | Mfr's Spec. |
|-------------------|----------------|---------------|-------------|
|                   | Before Adjust. | After Adjust. |             |
| 94 dB             | 94.7           | 94.2          | $\pm 1$ dB  |

Uncertainty :  $\pm 0.2$  dB

## 2. Frequency Accuracy

| UUT Nominal Value | Measured Value | Mfr's Spec. |
|-------------------|----------------|-------------|
| 1 kHz             | 0.984 kHz      | $\pm 2$ %   |

Uncertainty :  $\pm 0.1$  %

## 3. Level Stability : 0.0 dB

Uncertainty :  $\pm 0.01$  dB

## 4. Total Harmonic Distortion : $< 0.3$ %

Mfr's Spec. :  $< 3$  %

Uncertainty :  $\pm 2.3$  % of reading

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. The above measured values are the mean of 3 measurement.

4. Atmospheric Pressure : 1 000 hPa

----- END -----



## **Appendix C2**

### **Noise Monitoring Results**



## Day-time Noise Monitoring

**Monitoring Location: N1 (Site Egress)**

| Date     | Start Sampling Time<br>(hh:mm) | Noise Level dB (A)     |                 |                 | Wind<br>Speed<br>(m/s) | Weather<br>Condition |
|----------|--------------------------------|------------------------|-----------------|-----------------|------------------------|----------------------|
|          |                                | L <sub>eq(30min)</sub> | L <sub>10</sub> | L <sub>90</sub> |                        |                      |
| 02/06/06 | 09:50                          | 68.5                   | 72.6            | 58.9            | 0.9                    | Drizzle              |

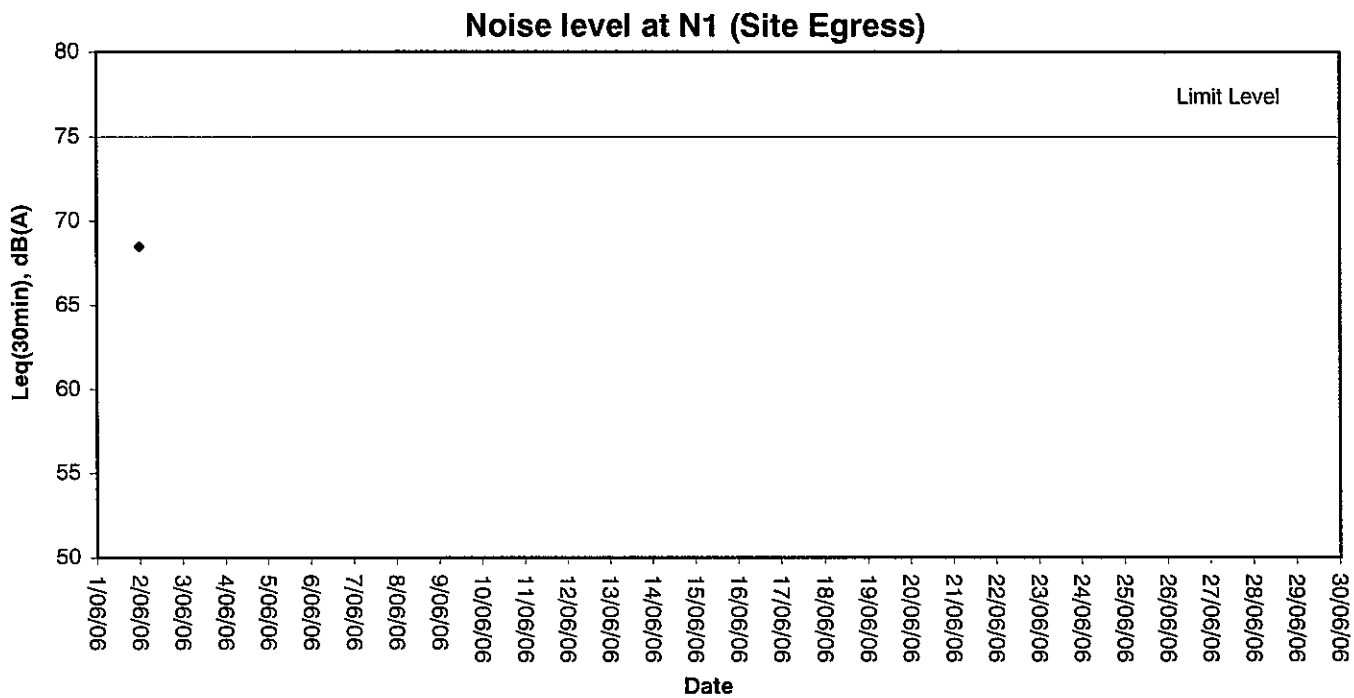


## **Appendix C3**

### **Graphical Plots of Noise Monitoring Data**



## Noise Monitoring (Day-time)







## **Appendix D1**

### **Calibration Certificates for Marine Water Quality Monitoring Equipments**



## Internal Calibration Report of Dissolved Oxygen Meter

|   |                                       |
|---|---------------------------------------|
| Equipment Ref. No. : <u>ET/EW/003/001</u> | Manufacturer : <u>YSI</u>             |
| Model No. : <u>95</u>                     | Serial No. : <u>97H 04071AD</u>       |
| Date of Calibration : <u>30/5/16</u>      | Calibration Due Date : <u>29/8/16</u> |

Ref. No. of Reference Thermometer : ET/2403/01  
 Ref. No. of Potassium Dichromate : ET/0520/003/02

### Temperature Verification

|                     | Temperature (°C) |
|---------------------|------------------|
| Thermometer reading | 20.0             |
| Meter reading       | 20.0             |

### Linearity Checking

| Purging time, min             | DO meter reading, mg/L |      |         | Winkler Titration result, mg/L |      |         | Difference (%) of DO Content |
|-------------------------------|------------------------|------|---------|--------------------------------|------|---------|------------------------------|
|                               | 1                      | 2    | Average | 1                              | 2    | Average |                              |
| 2                             | 7.45                   | 7.43 | 7.44    | 7.50                           | 7.52 | 7.51    | 0.94                         |
| 5                             | 5.51                   | 5.49 | 5.50    | 5.63                           | 5.61 | 5.62    | 2.16                         |
| 10                            | 3.68                   | 3.66 | 3.67    | 3.56                           | 3.54 | 3.55    | 3.32                         |
| Linear regression coefficient |                        |      |         | 0.9981                         |      |         |                              |

### Zero Point Checking

|                        |      |
|------------------------|------|
| DO meter reading, mg/L | 0.00 |
|------------------------|------|

### Salinity Checking

| Salinity (ppt) | DO meter reading, mg/L |      |         | Winkler Titration result, mg/L |      |         | Difference (%) of DO Content |
|----------------|------------------------|------|---------|--------------------------------|------|---------|------------------------------|
|                | 1                      | 2    | Average | 1                              | 2    | Average |                              |
| 10             | 7.11                   | 7.09 | 7.10    | 7.20                           | 7.18 | 7.19    | 1.26                         |
| 30             | 6.53                   | 6.51 | 6.52    | 6.66                           | 6.64 | 6.65    | 1.97                         |

### Acceptance Criteria

- (1) Difference between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : > 0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies \* / does not comply \* with the specified requirements and is deemed acceptable \* / unacceptable \* for use.  
 \* Delete as appropriate

Calibrated by : Gilda Lam                      Approved by :



## Performance Check of Salinity Meter

Equipment Ref. No. : ET / 0527 / 001      Manufacturer : YSI

Model No. : Model 30      Serial No. : 99G1183

Date of Calibration : 28 / 4 / 06      Due Date : 28 / 7 / 06

Ref. No. of Salinity Standard used (30ppt)

J 196A

| Salinity Standard (ppt) | Measured Salinity (ppt) | Difference % |
|-------------------------|-------------------------|--------------|
| 30                      | 29.3                    | 2.4%         |

Acceptance Criteria

Difference : <10 %

The salinity meter complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use. Measurements are traceable to national standards.

Checked by : RA

Approved by : Gda Law



## Internal Calibration Report of Turbidimeter

Equipment Ref. No. : ET/0505/002

Manufacturer : HACH

Model No. : 2100P

Serial No. : 930900003728

Date of Calibration : 28/4/06

Calibration Due : 28/17/06

### Data

| (4.95)                   | (49.0)                     | (409)                        |
|--------------------------|----------------------------|------------------------------|
| 0 - 10 NTU<br>Gelex Vial | 10 - 100 NTU<br>Gelex Vial | 100 - 1000 NTU<br>Gelex Vial |
| 4.91                     | 48.3                       | 406                          |

The equipment complies \* / ~~does not comply~~ \* with the specified requirements and is deemed acceptable \* / ~~unacceptable~~ \* for use.

\* Delete as appropriate

Calibrated by : RK

Approved by : [Signature]

## **Appendix D2**

### **Impact Marine Water Quality Monitoring Results**

# Mid-Flood Tide



東業 德 勤 測 試 顧 問 有 限 公 司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : C1

| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         |               | Dissolved Oxygen Saturation (%) |         |       | Turbidity (NTU) |               |       | Suspended Solids (mg/L) |               |  |
|----------|-------------------|---------------------------------------|----------------------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-------|-----------------|---------------|-------|-------------------------|---------------|--|
|          |                   |                                       |                      |           | Value          | Average | Value                   | Average | Depth-average | Value                           | Average | Value | Average         | Depth-average | Value | Average                 | Depth-average |  |
| 01/06/06 | 08:32 - 08:43     | 27/Rainy                              | Surface              | 25.8      | 31.9           | 32.0    | 6.42                    | 6.45    | 91.2          | 91.6                            | 2.83    | 2.83  | 3.0             | 3.1           | 3.0   |                         |               |  |
|          |                   |                                       | Middle               | 25.2      | 32.7           | 6.19    | 6.15                    | 87.9    | 87.4          | 2.76                            | 2.76    | 3.0   | 3.0             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 24.7      | 33.4           | 5.94    | 5.96                    | 84.3    | 84.6          | 2.55                            | 2.56    | 2.8   | 2.8             |               |       |                         |               |  |
| 03/06/06 | 08:30 - 08:42     | 26/Drizzle                            | Surface              | 25.3      | 32.8           | 32.8    | 6.25                    | 6.23    | 90.7          | 90.5                            | 2.65    | 2.67  | 3.0             | 3.0           | 3.0   |                         |               |  |
|          |                   |                                       | Middle               | 25.2      | 32.9           | 6.04    | 6.02                    | 89.6    | 89.4          | 2.88                            | 2.90    | 3.2   | 3.2             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.0      | 32.9           | 5.57    | 5.55                    | 83.4    | 83.2          | 2.43                            | 2.45    | 2.8   | 2.8             |               |       |                         |               |  |
| 05/06/06 | 12:30 - 12:45     | 26/Cloudy                             | Surface              | 26.2      | 32.1           | 32.1    | 6.59                    | 6.55    | 97.0          | 96.5                            | 3.66    | 3.63  | 4.0             | 4.0           | 4.2   |                         |               |  |
|          |                   |                                       | Middle               | 25.4      | 32.2           | 6.17    | 6.14                    | 91.1    | 90.6          | 3.97                            | 3.94    | 4.3   | 4.3             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.0      | 32.2           | 6.29    | 6.25                    | 92.4    | 91.9          | 4.00                            | 3.95    | 4.3   | 4.3             |               |       |                         |               |  |
| 07/06/06 | 15:00 - 15:13     | 30/Cloudy                             | Surface              | 26.8      | 31.7           | 31.7    | 6.65                    | 6.63    | 97.2          | 97.0                            | 2.07    | 2.07  | 2.5             | 2.5           | 3.7   |                         |               |  |
|          |                   |                                       | Middle               | 26.3      | 33.3           | 5.74    | 5.73                    | 83.8    | 83.7          | 3.96                            | 3.97    | 4.3   | 4.3             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 26.2      | 33.6           | 4.80    | 4.83                    | 71.5    | 71.9          | 4.03                            | 4.04    | 4.3   | 4.3             |               |       |                         |               |  |
| 09/06/06 | 16:30 - 16:43     | 28/Rainy                              | Surface              | 26.7      | 24.0           | 24.0    | 5.98                    | 5.97    | 86.1          | 85.9                            | 3.10    | 3.09  | 3.5             | 3.5           | 3.5   |                         |               |  |
|          |                   |                                       | Middle               | 26.4      | 32.2           | 5.72    | 5.71                    | 82.3    | 82.1          | 2.79                            | 2.79    | 3.0   | 3.0             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.9      | 32.4           | 5.21    | 5.23                    | 75.0    | 75.2          | 3.62                            | 3.63    | 4.0   | 4.0             |               |       |                         |               |  |
| 12/06/06 | 17:30 - 17:43     | 28/Cloudy                             | Surface              | 26.7      | 25.0           | 25.0    | 6.06                    | 6.06    | 88.0          | 85.8                            | 3.37    | 3.37  | 3.5             | 3.5           | 3.0   |                         |               |  |
|          |                   |                                       | Middle               | 26.4      | 32.6           | 5.70    | 5.69                    | 80.9    | 80.8          | 2.92                            | 2.93    | 3.0   | 3.0             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.9      | 32.7           | 5.13    | 5.12                    | 72.3    | 72.1          | 2.86                            | 2.87    | 2.5   | 2.5             |               |       |                         |               |  |
| 14/06/06 | 08:16 - 08:31     | 28/Cloudy                             | Surface              | 26.1      | 31.1           | 31.1    | 6.99                    | 6.95    | 103.5         | 103.0                           | 2.11    | 2.06  | 2.5             | 2.4           | 3.6   |                         |               |  |
|          |                   |                                       | Middle               | 25.4      | 31.7           | 6.33    | 6.38                    | 92.5    | 93.0          | 3.42                            | 3.37    | 3.5   | 3.5             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.1      | 31.9           | 6.59    | 6.55                    | 97.0    | 96.5          | 4.27                            | 4.24    | 4.7   | 4.8             |               |       |                         |               |  |

# Mid-Flood Tide



東業 德 勤 測 試 顧 問 有 限 公 司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : C1

| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         | Dissolved Oxygen Saturation (%) |         | Turbidity (NTU) |         |               | Suspended Solids (mg/L) |         |               |
|----------|-------------------|---------------------------------------|----------------------|-----------|----------------|---------|-------------------------|---------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
|          |                   |                                       |                      |           | Value          | Average | Value                   | Average | Value                           | Average | Value           | Average | Depth-average | Value                   | Average | Depth-average |
| 16/06/06 | 08:15-08:28       | 29/Cloudy                             | Surface              | 27.0      | 32.0           | 32.1    | 6.83                    | 6.80    | 97.0                            | 96.6    | 3.08            | 3.08    | 3.0           | 2.9                     | 2.8     |               |
|          |                   |                                       | Middle               | 26.6      | 32.8           | 6.52    | 6.49                    | 92.6    | 92.2                            | 3.01    | 3.01            | 2.5     | 2.5           |                         |         |               |
|          |                   |                                       | Bottom               | 26.3      | 33.0           | 6.68    | 6.63                    | 95.0    | 94.2                            | 2.86    | 2.86            | 3.0     | 3.0           |                         |         |               |
| 19/06/06 | 11:15-11:30       | 29/Cloudy                             | Surface              | 27.2      | 33.1           | 7.17    | 7.22                    | 103.1   | 103.6                           | 2.12    | 2.12            | 2.5     | 2.5           | 3.2                     |         |               |
|          |                   |                                       | Middle               | 27.0      | 33.4           | 6.61    | 6.56                    | 94.2    | 93.7                            | 2.39    | 2.35            | 2.8     | 2.8           |                         |         |               |
|          |                   |                                       | Bottom               | 26.0      | 33.6           | 6.31    | 6.26                    | 91.4    | 90.9                            | 3.91    | 3.86            | 4.3     | 4.3           |                         |         |               |
| 21/06/06 | 14:15-14:30       | 31/Sunny                              | Surface              | 27.7      | 30.9           | 6.55    | 6.52                    | 93.7    | 93.3                            | 3.38    | 3.38            | 3.5     | 3.5           | 3.3                     |         |               |
|          |                   |                                       | Middle               | 27.5      | 31.3           | 6.21    | 6.17                    | 88.8    | 88.3                            | 3.03    | 3.03            | 3.3     | 3.3           |                         |         |               |
|          |                   |                                       | Bottom               | 27.0      | 31.9           | 6.03    | 6.06                    | 85.2    | 86.7                            | 2.86    | 2.86            | 3.0     | 3.0           |                         |         |               |
| 23/06/06 | 16:30-16:43       | 31/Sunny                              | Surface              | 29.0      | 26.7           | 6.43    | 6.42                    | 95.1    | 94.9                            | 3.29    | 3.29            | 4.0     | 4.0           | 4.1                     |         |               |
|          |                   |                                       | Middle               | 27.8      | 32.9           | 5.72    | 5.74                    | 84.6    | 84.9                            | 4.02    | 4.03            | 4.3     | 4.3           |                         |         |               |
|          |                   |                                       | Bottom               | 26.4      | 33.3           | 5.13    | 5.15                    | 75.9    | 76.1                            | 4.18    | 4.19            | 4.0     | 4.0           |                         |         |               |
| 26/06/06 | 17:30-17:44       | 31/Sunny                              | Surface              | 27.3      | 32.0           | 6.62    | 6.60                    | 94.7    | 94.4                            | 3.18    | 3.18            | 3.5     | 3.4           | 2.9                     |         |               |
|          |                   |                                       | Middle               | 27.1      | 32.7           | 6.17    | 6.14                    | 88.2    | 87.8                            | 3.04    | 3.05            | 2.8     | 2.8           |                         |         |               |
|          |                   |                                       | Bottom               | 26.7      | 33.1           | 5.94    | 5.96                    | 84.9    | 85.2                            | 2.87    | 2.88            | 2.5     | 2.5           |                         |         |               |
| 28/06/06 | 14:30-14:43       | 29/Rainy                              | Surface              | 27.6      | 27.9           | 6.30    | 6.32                    | 90.0    | 90.3                            | 3.78    | 3.77            | 4.5     | 4.5           | 4.0                     |         |               |
|          |                   |                                       | Middle               | 26.9      | 31.8           | 5.96    | 5.97                    | 84.6    | 84.8                            | 4.06    | 4.07            | 4.0     | 4.0           |                         |         |               |
|          |                   |                                       | Bottom               | 26.8      | 32.0           | 5.17    | 5.19                    | 73.4    | 73.6                            | 3.99    | 3.99            | 3.5     | 3.5           |                         |         |               |
| 30/06/06 | 08:46-09:00       | 30/Cloudy                             | Surface              | 26.4      | 30.7           | 6.98    | 6.94                    | 98.6    | 98.3                            | 3.71    | 3.66            | 4.0     | 3.9           | 4.1                     |         |               |
|          |                   |                                       | Middle               | 26.0      | 31.1           | 6.47    | 6.44                    | 90.3    | 89.8                            | 3.92    | 3.87            | 4.2     | 4.3           |                         |         |               |
|          |                   |                                       | Bottom               | 25.4      | 31.6           | 6.26    | 6.23                    | 88.7    | 88.4                            | 3.81    | 3.76            | 4.0     | 4.0           |                         |         |               |

# Mid-Flood Tide



東業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : M4

| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) |        | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         |       | Dissolved Oxygen Saturation (%) |       |         | Turbidity (NTU) |         |       | Suspended Solids (mg/L) |       |         |
|----------|-------------------|---------------------------------------|----------------------|--------|-----------|----------------|---------|-------------------------|---------|-------|---------------------------------|-------|---------|-----------------|---------|-------|-------------------------|-------|---------|
|          |                   |                                       | Surface              | Bottom |           | Value          | Average | Value                   | Average | Value | Average                         | Value | Average | Value           | Average | Value | Average                 | Value | Average |
| 01/06/06 | 07:50 - 08:03     | 27/Rainy                              | Surface              | 1.0    | 25.5      | 32.0           | 32.0    | 6.32                    | 6.35    | 89.7  | 90.2                            | 3.21  | 3.21    | 3.2             | 3.2     | 2.9   |                         |       |         |
|          |                   |                                       | Middle               | 4.7    | 24.8      | 32.8           | 32.8    | 6.03                    | 6.07    | 85.6  | 86.1                            | 2.99  | 2.99    | 3.0             | 3.0     |       |                         |       |         |
|          |                   |                                       | Bottom               | 8.4    | 24.6      | 33.1           | 33.1    | 5.87                    | 5.91    | 83.4  | 83.9                            | 2.74  | 2.75    | 2.5             | 2.5     |       |                         |       |         |
| 03/06/06 | 09:13 - 09:26     | 26/Drizzle                            | Surface              | 1.0    | 25.3      | 32.7           | 32.7    | 6.44                    | 6.43    | 93.6  | 93.4                            | 3.14  | 3.16    | 3.0             | 3.0     | 3.0   |                         |       |         |
|          |                   |                                       | Middle               | 4.6    | 25.2      | 32.8           | 32.8    | 6.18                    | 6.15    | 91.3  | 91.0                            | 2.72  | 2.79    | 3.0             | 3.0     |       |                         |       |         |
|          |                   |                                       | Bottom               | 8.2    | 25.2      | 33.0           | 33.0    | 5.75                    | 5.74    | 87.4  | 87.2                            | 2.60  | 2.66    | 2.8             | 2.9     |       |                         |       |         |
| 05/06/06 | 11:45 - 12:00     | 26/Cloudy                             | Surface              | 1.0    | 25.6      | 31.9           | 31.9    | 6.67                    | 6.64    | 98.0  | 97.5                            | 3.45  | 3.50    | 3.8             | 3.8     | 3.8   |                         |       |         |
|          |                   |                                       | Middle               | 4.3    | 25.5      | 32.1           | 32.1    | 6.29                    | 6.34    | 91.1  | 91.6                            | 3.39  | 3.35    | 3.5             | 3.5     |       |                         |       |         |
|          |                   |                                       | Bottom               | 7.6    | 25.4      | 32.2           | 32.2    | 6.15                    | 6.10    | 90.6  | 90.3                            | 3.82  | 3.77    | 4.0             | 4.0     |       |                         |       |         |
| 07/06/06 | 15:43 - 15:56     | 30/Cloudy                             | Surface              | 1.0    | 27.5      | 25.8           | 25.9    | 6.91                    | 6.92    | 100.7 | 101.0                           | 2.60  | 2.62    | 2.8             | 2.8     | 3.3   |                         |       |         |
|          |                   |                                       | Middle               | 4.5    | 27.0      | 27.7           | 27.7    | 6.31                    | 6.30    | 92.1  | 92.0                            | 2.32  | 2.32    | 2.5             | 2.5     |       |                         |       |         |
|          |                   |                                       | Bottom               | 8.0    | 26.4      | 32.8           | 32.8    | 5.18                    | 5.20    | 77.2  | 77.4                            | 4.14  | 4.15    | 4.5             | 4.5     |       |                         |       |         |
| 09/06/06 | 17:13 - 17:26     | 28/Rainy                              | Surface              | 1.0    | 26.6      | 23.7           | 23.7    | 6.07                    | 6.06    | 87.4  | 87.2                            | 2.96  | 2.96    | 3.2             | 3.2     | 3.4   |                         |       |         |
|          |                   |                                       | Middle               | 4.9    | 26.2      | 32.0           | 32.0    | 5.83                    | 5.84    | 83.3  | 83.5                            | 3.05  | 3.05    | 3.5             | 3.5     |       |                         |       |         |
|          |                   |                                       | Bottom               | 8.8    | 25.9      | 32.4           | 32.4    | 5.37                    | 5.35    | 76.7  | 76.5                            | 3.43  | 3.43    | 3.5             | 3.5     |       |                         |       |         |
| 12/06/06 | 18:13 - 18:26     | 28/Cloudy                             | Surface              | 1.0    | 26.6      | 24.9           | 24.9    | 6.10                    | 6.12    | 86.6  | 86.9                            | 2.89  | 2.89    | 3.0             | 3.0     | 2.7   |                         |       |         |
|          |                   |                                       | Middle               | 4.8    | 26.3      | 29.8           | 29.8    | 5.81                    | 5.80    | 82.5  | 82.7                            | 2.64  | 2.63    | 2.5             | 2.5     |       |                         |       |         |
|          |                   |                                       | Bottom               | 8.6    | 26.1      | 32.1           | 32.1    | 5.29                    | 5.27    | 75.1  | 74.8                            | 2.77  | 2.77    | 2.5             | 2.5     |       |                         |       |         |
| 14/06/06 | 07:30 - 07:46     | 28/Cloudy                             | Surface              | 1.0    | 25.9      | 31.1           | 31.1    | 6.72                    | 6.67    | 99.5  | 99.0                            | 2.51  | 2.46    | 3.0             | 3.0     | 2.8   |                         |       |         |
|          |                   |                                       | Middle               | 4.3    | 25.2      | 31.6           | 31.6    | 6.44                    | 6.39    | 94.1  | 93.6                            | 2.97  | 2.89    | 2.5             | 2.5     |       |                         |       |         |
|          |                   |                                       | Bottom               | 7.6    | 25.3      | 31.6           | 31.6    | 6.19                    | 6.24    | 91.4  | 91.9                            | 2.81  | 2.86    | 2.8             | 2.9     |       |                         |       |         |



# Mid-Flood Tide



榮業德勤測試顧問有限公司  
ETS-TESTCONSULT LIMITED

## Monitoring Station : M4

| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         |               | Dissolved Oxygen Saturation (%) |         |       | Turbidity (NTU) |               |       | Suspended Solids (mg/L) |       |         |
|----------|-------------------|---------------------------------------|----------------------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-------|-----------------|---------------|-------|-------------------------|-------|---------|
|          |                   |                                       |                      |           | Value          | Average | Value                   | Average | Depth-average | Value                           | Average | Value | Average         | Depth-average | Value | Average                 | Value | Average |
| 16/06/06 | 08:59-09:13       | 29/Cloudy                             | Surface              | 27.1      | 32.1           | 32.1    | 6.91                    | 6.87    | 6.65          | 98.1                            | 97.5    | 2.93  | 2.93            | 3.0           | 3.0   | 2.9                     |       |         |
|          |                   |                                       | Middle               | 26.9      | 32.8           | 32.8    | 6.47                    | 6.44    | 6.65          | 96.8                            | 91.5    | 2.92  | 2.64            | 3.0           | 3.0   |                         |       |         |
|          |                   |                                       | Bottom               | 26.6      | 33.2           | 33.2    | 6.41                    | 6.29    | 6.29          | 91.0                            | 89.4    | 2.64  | 2.51            | 2.7           | 2.8   |                         |       |         |
| 19/06/06 | 12:03-12:13       | 29/Cloudy                             | Surface              | 27.1      | 32.7           | 32.7    | 7.51                    | 7.46    | 6.86          | 107.0                           | 106.5   | 1.91  | 1.86            | 2.2           | 2.2   | 2.9                     |       |         |
|          |                   |                                       | Middle               | 26.6      | 32.6           | 32.6    | 6.32                    | 6.27    | 6.86          | 106.0                           | 89.3    | 1.81  | 2.37            | 2.5           | 2.5   |                         |       |         |
|          |                   |                                       | Bottom               | 25.8      | 33.2           | 33.2    | 6.21                    | 6.45    | 6.45          | 89.0                            | 98.7    | 2.38  | 3.59            | 4.0           | 4.0   |                         |       |         |
| 21/06/06 | 15:01-15:15       | 31/Sunny                              | Surface              | 27.6      | 31.1           | 31.1    | 6.42                    | 6.45    | 6.30          | 91.8                            | 92.3    | 3.31  | 3.31            | 3.5           | 3.5   | 3.3                     |       |         |
|          |                   |                                       | Middle               | 27.4      | 31.2           | 31.3    | 6.11                    | 6.15    | 6.30          | 87.4                            | 88.0    | 3.16  | 3.16            | 3.5           | 3.5   |                         |       |         |
|          |                   |                                       | Bottom               | 27.3      | 32.1           | 32.1    | 5.92                    | 5.95    | 5.95          | 88.5                            | 85.1    | 3.16  | 3.03            | 3.0           | 3.0   |                         |       |         |
| 23/06/06 | 17:13-17:26       | 31/Sunny                              | Surface              | 29.2      | 25.8           | 25.8    | 6.62                    | 6.61    | 6.46          | 85.5                            | 98.4    | 2.49  | 2.50            | 3.0           | 3.0   | 2.9                     |       |         |
|          |                   |                                       | Middle               | 28.2      | 28.1           | 28.1    | 6.59                    | 6.31    | 6.46          | 98.1                            | 93.9    | 2.50  | 1.97            | 2.5           | 2.5   |                         |       |         |
|          |                   |                                       | Bottom               | 27.0      | 33.1           | 33.1    | 6.29                    | 6.32    | 5.55          | 94.1                            | 82.1    | 1.98  | 1.98            | 2.5           | 2.5   |                         |       |         |
| 26/06/06 | 18:13-18:27       | 28/Sunny                              | Surface              | 27.2      | 32.1           | 32.1    | 5.57                    | 6.57    | 6.32          | 82.4                            | 82.1    | 2.63  | 2.63            | 3.3           | 3.3   | 2.8                     |       |         |
|          |                   |                                       | Middle               | 27.0      | 32.6           | 32.6    | 5.53                    | 6.07    | 6.32          | 81.8                            | 86.8    | 2.62  | 2.98            | 3.0           | 2.8   |                         |       |         |
|          |                   |                                       | Bottom               | 26.9      | 33.2           | 33.2    | 6.53                    | 5.89    | 5.89          | 93.4                            | 84.3    | 3.10  | 2.91            | 3.0           | 2.5   |                         |       |         |
| 28/06/06 | 15:13-15:26       | 29/Rainy                              | Surface              | 27.8      | 28.4           | 28.4    | 6.48                    | 6.47    | 6.26          | 84.7                            | 92.4    | 3.60  | 3.61            | 3.8           | 3.8   | 3.4                     |       |         |
|          |                   |                                       | Middle               | 27.0      | 31.9           | 31.9    | 6.45                    | 6.05    | 6.26          | 92.2                            | 86.5    | 3.62  | 3.27            | 3.5           | 3.5   |                         |       |         |
|          |                   |                                       | Bottom               | 26.8      | 32.1           | 32.1    | 6.07                    | 5.32    | 5.32          | 86.2                            | 75.5    | 2.91  | 3.26            | 3.0           | 3.0   |                         |       |         |
| 30/06/06 | 08:00-08:14       | 30/Cloudy                             | Surface              | 26.4      | 31.0           | 31.0    | 5.34                    | 6.86    | 6.65          | 75.8                            | 95.8    | 3.62  | 3.62            | 4.0           | 4.0   | 3.8                     |       |         |
|          |                   |                                       | Middle               | 26.0      | 31.1           | 31.1    | 6.82                    | 6.45    | 6.65          | 75.2                            | 91.6    | 3.72  | 3.77            | 3.8           | 3.8   |                         |       |         |
|          |                   |                                       | Bottom               | 25.7      | 31.4           | 31.4    | 6.89                    | 6.34    | 6.34          | 89.9                            | 89.5    | 3.87  | 3.36            | 3.5           | 3.5   |                         |       |         |

**Mid-Ebb Tide**



東業德動測試顧問有限公司  
ETS-TESTCONSULT LIMITED

**Monitoring Station : C1**

| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         |               | Dissolved Oxygen Saturation (%) |         |       | Turbidity (NTU) |               |       | Suspended Solids (mg/L) |       |         |
|----------|-------------------|---------------------------------------|----------------------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-------|-----------------|---------------|-------|-------------------------|-------|---------|
|          |                   |                                       |                      |           | Value          | Average | Value                   | Average | Depth-average | Value                           | Average | Value | Average         | Depth-average | Value | Average                 | Value | Average |
| 01/06/06 | 16:14 - 16:28     | 27/Rainy                              | Surface              | 26.1      | 31.7           | 31.7    | 6.53                    | 6.50    | 92.7          | 92.3                            | 2.76    | 2.76  | 3.0             | 3.0           | 2.8   |                         |       |         |
|          |                   |                                       | Middle               | 25.4      | 32.6           | 32.6    | 6.17                    | 6.13    | 87.6          | 87.1                            | 2.52    | 2.52  | 2.7             | 2.8           |       |                         |       |         |
|          |                   |                                       | Bottom               | 24.9      | 33.1           | 33.1    | 5.99                    | 5.96    | 85.1          | 84.7                            | 2.44    | 2.45  | 2.7             | 2.8           |       |                         |       |         |
| 03/06/06 | 16:00 - 16:14     | 26/Drizzle                            | Surface              | 25.4      | 32.6           | 32.6    | 6.03                    | 6.01    | 87.5          | 87.3                            | 2.95    | 2.98  | 3.5             | 3.4           | 3.0   |                         |       |         |
|          |                   |                                       | Middle               | 25.2      | 32.7           | 32.7    | 5.89                    | 5.86    | 85.5          | 85.2                            | 2.44    | 2.47  | 2.5             | 2.5           |       |                         |       |         |
|          |                   |                                       | Bottom               | 25.0      | 32.8           | 32.8    | 5.43                    | 5.42    | 78.8          | 78.6                            | 2.77    | 2.74  | 3.0             | 3.0           |       |                         |       |         |
| 05/06/06 | 18:17 - 18:31     | 26/Cloudy                             | Surface              | 25.8      | 32.4           | 32.4    | 6.60                    | 6.65    | 97.6          | 98.1                            | 3.41    | 3.46  | 3.5             | 3.5           | 3.6   |                         |       |         |
|          |                   |                                       | Middle               | 25.8      | 32.5           | 32.5    | 6.09                    | 6.14    | 90.0          | 90.5                            | 3.77    | 3.74  | 4.0             | 4.0           |       |                         |       |         |
|          |                   |                                       | Bottom               | 25.5      | 32.5           | 32.5    | 6.00                    | 5.95    | 88.9          | 88.5                            | 3.11    | 3.16  | 3.3             | 3.3           |       |                         |       |         |
| 07/06/06 | 08:30 - 08:43     | 30/Cloudy                             | Surface              | 27.2      | 25.5           | 25.5    | 6.63                    | 6.62    | 96.1          | 95.9                            | 2.27    | 2.27  | 2.5             | 2.5           | 3.6   |                         |       |         |
|          |                   |                                       | Middle               | 26.4      | 32.6           | 32.6    | 5.69                    | 5.67    | 83.0          | 82.7                            | 3.97    | 3.97  | 4.3             | 4.3           |       |                         |       |         |
|          |                   |                                       | Bottom               | 26.3      | 33.1           | 33.1    | 5.37                    | 5.36    | 79.8          | 79.7                            | 3.86    | 3.87  | 4.0             | 4.0           |       |                         |       |         |
| 09/06/06 | 10:00 - 10:13     | 28/Rainy                              | Surface              | 26.5      | 24.2           | 24.2    | 6.14                    | 6.16    | 87.8          | 88.1                            | 3.79    | 3.78  | 4.0             | 4.0           | 4.1   |                         |       |         |
|          |                   |                                       | Middle               | 26.2      | 32.4           | 32.4    | 5.79                    | 5.77    | 82.2          | 81.9                            | 3.62    | 3.63  | 4.0             | 4.0           |       |                         |       |         |
|          |                   |                                       | Bottom               | 25.8      | 32.8           | 32.8    | 5.21                    | 5.20    | 73.9          | 73.8                            | 3.89    | 3.89  | 4.3             | 4.3           |       |                         |       |         |
| 12/06/06 | 11:30 - 11:43     | 28/Cloudy                             | Surface              | 26.5      | 24.7           | 24.7    | 6.10                    | 6.12    | 86.6          | 86.9                            | 3.67    | 3.68  | 3.5             | 3.5           | 3.7   |                         |       |         |
|          |                   |                                       | Middle               | 26.2      | 32.4           | 32.4    | 5.94                    | 5.93    | 83.7          | 83.5                            | 3.59    | 3.59  | 3.5             | 3.5           |       |                         |       |         |
|          |                   |                                       | Bottom               | 25.7      | 32.7           | 32.7    | 5.21                    | 5.19    | 73.4          | 73.1                            | 4.10    | 4.11  | 4.0             | 4.0           |       |                         |       |         |
| 14/06/06 | 13:40 - 13:55     | 28/Cloudy                             | Surface              | 26.3      | 31.9           | 31.9    | 6.79                    | 6.75    | 100.0         | 99.5                            | 2.57    | 2.52  | 3.0             | 2.9           | 2.8   |                         |       |         |
|          |                   |                                       | Middle               | 26.0      | 32.1           | 32.1    | 6.19                    | 6.24    | 91.7          | 92.2                            | 2.29    | 2.25  | 2.5             | 2.5           |       |                         |       |         |
|          |                   |                                       | Bottom               | 25.5      | 32.4           | 32.4    | 6.38                    | 6.34    | 93.2          | 92.7                            | 2.89    | 2.94  | 3.0             | 3.0           |       |                         |       |         |

**Mid-Ebb Tide**



東業德動測試顧問有限公司  
ETS-TESTCONSULT LIMITED

**Monitoring Station : C1**

| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) |        | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         |       | Dissolved Oxygen Saturation (%) |       |         | Turbidity (NTU) |         |       | Suspended Solids (mg/L) |       |         |
|----------|-------------------|---------------------------------------|----------------------|--------|-----------|----------------|---------|-------------------------|---------|-------|---------------------------------|-------|---------|-----------------|---------|-------|-------------------------|-------|---------|
|          |                   |                                       | Surface              | Middle |           | Value          | Average | Value                   | Average | Value | Average                         | Value | Average | Value           | Average | Value | Average                 | Value | Average |
| 16/06/06 | 15:00-15:14       | 29/Cloudy                             | Surface              | 1.0    | 27.4      | 31.9           | 32.0    | 6.74                    | 6.72    | 95.7  | 95.4                            | 3.06  | 3.07    | 3.5             | 3.5     | 3.3   |                         |       |         |
|          |                   |                                       | Middle               | 9.9    | 27.2      | 32.7           | 32.8    | 6.43                    | 6.40    | 91.3  | 90.9                            | 2.97  | 2.98    | 3.2             | 3.2     |       |                         |       |         |
|          |                   |                                       | Bottom               | 18.8   | 26.8      | 33.0           | 33.1    | 6.59                    | 6.55    | 93.6  | 93.0                            | 2.90  | 2.90    | 3.2             | 3.3     |       |                         |       |         |
| 19/06/06 | 17:48-18:08       | 30/Cloudy                             | Surface              | 1.0    | 27.7      | 32.6           | 32.6    | 6.98                    | 6.94    | 101.3 | 100.8                           | 3.61  | 3.56    | 4.0             | 4.0     | 3.7   |                         |       |         |
|          |                   |                                       | Middle               | 10.0   | 27.0      | 33.1           | 33.1    | 6.46                    | 6.43    | 92.8  | 92.4                            | 3.16  | 3.13    | 3.3             | 3.3     |       |                         |       |         |
|          |                   |                                       | Bottom               | 19.0   | 25.2      | 33.6           | 33.6    | 6.07                    | 6.12    | 86.5  | 87.0                            | 3.49  | 3.54    | 3.8             | 3.8     |       |                         |       |         |
| 21/06/06 | 08:30-08:44       | 30/Sunny                              | Surface              | 1.0    | 27.5      | 30.7           | 30.7    | 6.41                    | 6.44    | 91.0  | 91.5                            | 3.17  | 3.17    | 3.5             | 3.5     | 3.2   |                         |       |         |
|          |                   |                                       | Middle               | 9.7    | 27.3      | 31.2           | 31.2    | 6.18                    | 6.14    | 88.4  | 87.8                            | 2.84  | 2.84    | 3.2             | 3.2     |       |                         |       |         |
|          |                   |                                       | Bottom               | 18.4   | 27.0      | 32.1           | 32.1    | 5.92                    | 5.95    | 84.7  | 85.1                            | 2.61  | 2.61    | 3.0             | 3.0     |       |                         |       |         |
| 23/06/06 | 09:45-09:58       | 30/Sunny                              | Surface              | 1.0    | 28.4      | 26.5           | 26.5    | 6.66                    | 6.68    | 96.1  | 96.3                            | 2.35  | 2.30    | 2.7             | 2.7     | 3.4   |                         |       |         |
|          |                   |                                       | Middle               | 9.5    | 26.3      | 32.7           | 32.8    | 6.69                    | 4.33    | 93.5  | 63.5                            | 3.27  | 3.27    | 3.5             | 3.5     |       |                         |       |         |
|          |                   |                                       | Bottom               | 18.0   | 25.2      | 33.4           | 33.4    | 4.29                    | 4.31    | 63.0  | 63.2                            | 4.23  | 4.22    | 4.0             | 4.0     |       |                         |       |         |
| 26/06/06 | 12:00-12:13       | 30/Sunny                              | Surface              | 1.0    | 27.1      | 31.9           | 31.9    | 6.71                    | 6.68    | 96.0  | 95.6                            | 3.36  | 3.36    | 3.0             | 3.0     | 3.2   |                         |       |         |
|          |                   |                                       | Middle               | 9.7    | 26.9      | 32.5           | 32.5    | 6.28                    | 6.24    | 89.8  | 89.3                            | 3.03  | 3.03    | 3.5             | 3.5     |       |                         |       |         |
|          |                   |                                       | Bottom               | 18.4   | 26.6      | 32.9           | 33.0    | 6.03                    | 6.00    | 86.2  | 85.8                            | 2.94  | 2.95    | 3.0             | 3.0     |       |                         |       |         |
| 28/06/06 | 08:00-08:13       | 29/Rainy                              | Surface              | 1.0    | 27.8      | 28.0           | 28.0    | 6.47                    | 6.45    | 92.5  | 92.2                            | 3.20  | 3.21    | 3.5             | 3.5     | 4.1   |                         |       |         |
|          |                   |                                       | Middle               | 9.8    | 27.0      | 31.9           | 31.9    | 5.92                    | 5.94    | 84.6  | 84.8                            | 3.76  | 3.77    | 4.3             | 4.3     |       |                         |       |         |
|          |                   |                                       | Bottom               | 18.6   | 26.9      | 32.1           | 32.1    | 5.33                    | 5.35    | 75.6  | 75.9                            | 4.30  | 4.34    | 4.5             | 4.5     |       |                         |       |         |
| 30/06/06 | 15:42-16:00       | 30/Cloudy                             | Surface              | 1.0    | 27.6      | 31.2           | 31.2    | 7.06                    | 7.03    | 99.9  | 99.5                            | 4.11  | 4.06    | 4.0             | 4.0     | 4.2   |                         |       |         |
|          |                   |                                       | Middle               | 11.0   | 27.1      | 31.6           | 31.6    | 6.29                    | 6.25    | 88.1  | 87.6                            | 3.76  | 3.73    | 4.3             | 4.3     |       |                         |       |         |
|          |                   |                                       | Bottom               | 21.0   | 26.0      | 32.1           | 32.1    | 6.44                    | 6.49    | 90.0  | 90.5                            | 3.99  | 4.04    | 4.2             | 4.3     |       |                         |       |         |

# Mid-Ebb Tide

## Monitoring Station : M4

| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         |               | Dissolved Oxygen Saturation (%) |         |       | Turbidity (NTU) |               |       | Suspended Solids (mg/L) |               |  |
|----------|-------------------|---------------------------------------|----------------------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-------|-----------------|---------------|-------|-------------------------|---------------|--|
|          |                   |                                       |                      |           | Value          | Average | Value                   | Average | Depth-average | Value                           | Average | Value | Average         | Depth-average | Value | Average                 | Depth-average |  |
| 01/06/06 | 15:30 - 15:44     | 27/Rainy                              | Surface              | 25.6      | 31.9           | 6.44    | 6.41                    | 91.4    | 2.98          | 2.98                            | 3.0     | 3.0   | 3.0             | 2.8           |       |                         |               |  |
|          |                   |                                       | Middle               | 25.0      | 32.6           | 6.18    | 6.14                    | 87.6    | 2.76          | 2.76                            | 2.5     | 2.5   | 2.5             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 24.7      | 33.0           | 5.92    | 5.90                    | 84.1    | 2.61          | 2.61                            | 2.8     | 2.8   | 2.8             |               |       |                         |               |  |
| 03/06/06 | 16:42 - 16:55     | 26/Drizzle                            | Surface              | 25.6      | 32.4           | 6.12    | 6.11                    | 88.8    | 3.23          | 3.23                            | 3.0     | 3.0   | 3.0             | 3.0           |       |                         |               |  |
|          |                   |                                       | Middle               | 25.3      | 32.5           | 5.94    | 5.93                    | 86.2    | 2.98          | 2.98                            | 3.2     | 3.2   | 3.2             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.2      | 32.7           | 5.51    | 5.49                    | 80.0    | 2.69          | 2.69                            | 2.8     | 2.8   | 2.8             |               |       |                         |               |  |
| 05/06/06 | 17:30 - 17:46     | 26/Cloudy                             | Surface              | 25.8      | 32.1           | 6.44    | 6.49                    | 95.2    | 2.98          | 2.98                            | 3.2     | 3.2   | 3.2             | 3.5           |       |                         |               |  |
|          |                   |                                       | Middle               | 25.7      | 32.4           | 6.13    | 6.08                    | 90.7    | 3.29          | 3.29                            | 3.5     | 3.5   | 3.5             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.6      | 32.4           | 6.22    | 6.17                    | 92.1    | 3.56          | 3.56                            | 3.5     | 3.5   | 3.5             |               |       |                         |               |  |
| 07/06/06 | 09:13 - 09:26     | 30/Cloudy                             | Surface              | 27.4      | 25.8           | 6.79    | 6.78                    | 99.1    | 2.59          | 2.59                            | 2.8     | 2.8   | 2.8             | 3.5           |       |                         |               |  |
|          |                   |                                       | Middle               | 26.8      | 32.5           | 5.82    | 5.81                    | 86.1    | 3.60          | 3.60                            | 3.8     | 3.8   | 3.8             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 26.6      | 33.1           | 5.57    | 5.56                    | 82.4    | 3.79          | 3.79                            | 4.0     | 4.0   | 4.0             |               |       |                         |               |  |
| 09/06/06 | 10:43 - 10:56     | 28/Rainy                              | Surface              | 26.6      | 25.0           | 6.20    | 6.19                    | 88.6    | 3.17          | 3.17                            | 3.2     | 3.2   | 3.2             | 3.3           |       |                         |               |  |
|          |                   |                                       | Middle               | 26.4      | 32.4           | 5.82    | 5.80                    | 83.2    | 2.96          | 2.96                            | 3.5     | 3.5   | 3.5             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 26.0      | 32.5           | 5.48    | 5.47                    | 77.8    | 3.02          | 3.02                            | 4.0     | 4.0   | 4.0             |               |       |                         |               |  |
| 12/06/06 | 12:13 - 12:26     | 28/Cloudy                             | Surface              | 26.6      | 25.0           | 6.18    | 6.17                    | 87.7    | 3.27          | 3.27                            | 3.3     | 3.3   | 3.3             | 3.0           |       |                         |               |  |
|          |                   |                                       | Middle               | 26.4      | 29.8           | 5.86    | 5.85                    | 83.2    | 2.96          | 2.96                            | 2.5     | 2.5   | 2.5             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 26.0      | 32.0           | 5.45    | 5.43                    | 76.8    | 3.18          | 3.18                            | 3.0     | 3.0   | 3.0             |               |       |                         |               |  |
| 14/06/06 | 13:00 - 13:12     | 28/Cloudy                             | Surface              | 25.6      | 32.1           | 6.58    | 6.63                    | 97.2    | 2.79          | 2.79                            | 2.5     | 2.5   | 2.5             | 2.7           |       |                         |               |  |
|          |                   |                                       | Middle               | 25.4      | 32.4           | 6.26    | 6.31                    | 92.7    | 2.88          | 2.88                            | 2.7     | 2.7   | 2.7             |               |       |                         |               |  |
|          |                   |                                       | Bottom               | 25.3      | 32.6           | 6.26    | 6.23                    | 91.2    | 2.96          | 2.96                            | 3.0     | 3.0   | 3.0             |               |       |                         |               |  |

# Mid-Ebb Tide



東業德勤測試顧問有限公司  
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## Monitoring Station : M4

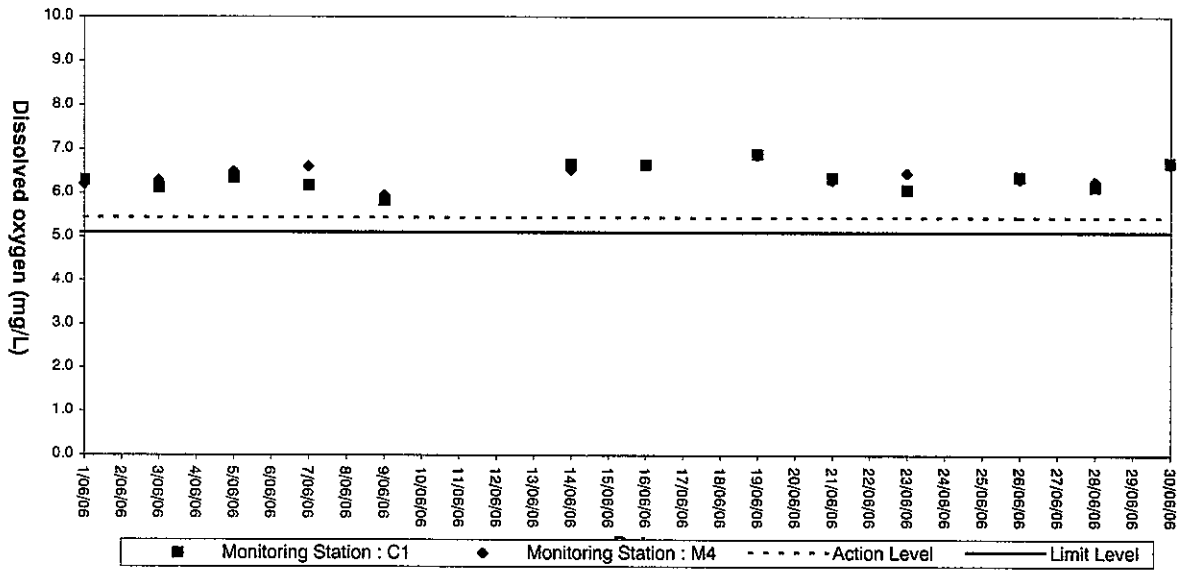
| Date     | Sampling Duration | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) |        | Temp (°C) | Salinity (ppt) |         | Dissolved Oxygen (mg/L) |         |               | Dissolved Oxygen Saturation (%) |         |               | Turbidity (NTU) |         |               | Suspended Solids (mg/L) |         |               |
|----------|-------------------|---------------------------------------|----------------------|--------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|---------------|-----------------|---------|---------------|-------------------------|---------|---------------|
|          |                   |                                       | Surface              | Bottom |           | Value          | Average | Value                   | Average | Depth-average | Value                           | Average | Depth-average | Value           | Average | Depth-average | Value                   | Average | Depth-average |
| 16/06/06 | 15:44-15:57       | 29/Cloudy                             | Surface              | 1.0    | 27.5      | 32.0           | 32.1    | 6.84                    | 6.82    | 97.1          | 96.9                            | 2.84    | 2.84          | 3.0             | 3.0     | 2.9           |                         |         |               |
|          |                   |                                       | Middle               | 4.5    | 27.1      | 32.6           | 32.7    | 6.37                    | 6.34    | 90.5          | 90.1                            | 2.56    | 2.56          | 3.0             | 3.0     |               |                         |         |               |
|          |                   |                                       | Bottom               | 8.0    | 26.9      | 32.9           | 33.0    | 6.22                    | 6.25    | 88.3          | 88.8                            | 2.47    | 2.48          | 2.7             | 2.7     |               |                         |         |               |
| 19/06/06 | 17:00-17:16       | 30/Cloudy                             | Surface              | 1.0    | 27.2      | 33.2           | 33.2    | 6.82                    | 6.77    | 98.7          | 98.4                            | 3.17    | 3.14          | 3.2             | 3.1     | 3.5           |                         |         |               |
|          |                   |                                       | Middle               | 4.3    | 26.6      | 33.0           | 33.0    | 6.22                    | 6.17    | 89.2          | 88.7                            | 3.91    | 3.86          | 4.0             | 4.2     |               |                         |         |               |
|          |                   |                                       | Bottom               | 7.6    | 26.1      | 33.7           | 33.7    | 6.33                    | 6.28    | 88.2          | 89.7                            | 3.81    | 3.46          | 4.3             | 3.2     |               |                         |         |               |
| 21/06/06 | 09:14-09:27       | 30/Sunny                              | Surface              | 1.0    | 27.4      | 30.8           | 30.9    | 6.58                    | 6.54    | 94.1          | 93.5                            | 3.25    | 3.25          | 3.5             | 3.5     | 3.2           |                         |         |               |
|          |                   |                                       | Middle               | 4.1    | 27.3      | 31.0           | 31.0    | 6.03                    | 6.06    | 86.2          | 86.7                            | 3.08    | 3.08          | 3.2             | 3.2     |               |                         |         |               |
|          |                   |                                       | Bottom               | 7.2    | 27.1      | 32.1           | 32.1    | 5.83                    | 5.87    | 83.4          | 84.0                            | 2.77    | 2.77          | 3.0             | 3.0     |               |                         |         |               |
| 23/06/06 | 10:30-10:43       | 30/Sunny                              | Surface              | 1.0    | 29.1      | 25.4           | 25.5    | 6.81                    | 6.83    | 102.3         | 102.6                           | 1.76    | 1.77          | 2.2             | 2.4     | 3.0           |                         |         |               |
|          |                   |                                       | Middle               | 4.7    | 27.8      | 27.4           | 27.5    | 6.71                    | 6.70    | 99.8          | 99.7                            | 2.07    | 2.07          | 2.5             | 2.5     |               |                         |         |               |
|          |                   |                                       | Bottom               | 8.4    | 26.6      | 32.8           | 32.8    | 5.18                    | 5.17    | 76.5          | 76.3                            | 3.46    | 3.48          | 4.0             | 4.0     |               |                         |         |               |
| 26/06/06 | 12:42-12:56       | 30/Sunny                              | Surface              | 1.0    | 27.2      | 32.0           | 32.1    | 6.62                    | 6.58    | 94.7          | 94.1                            | 3.18    | 3.18          | 2.7             | 2.9     | 2.6           |                         |         |               |
|          |                   |                                       | Middle               | 4.3    | 27.1      | 32.8           | 32.8    | 6.09                    | 6.13    | 87.1          | 87.6                            | 2.91    | 2.91          | 2.5             | 2.5     |               |                         |         |               |
|          |                   |                                       | Bottom               | 7.6    | 27.0      | 33.0           | 33.1    | 5.94                    | 5.92    | 84.9          | 84.7                            | 2.62    | 2.62          | 2.5             | 2.5     |               |                         |         |               |
| 28/06/06 | 08:43-08:56       | 29/Rainy                              | Surface              | 1.0    | 27.9      | 28.2           | 28.2    | 6.69                    | 6.66    | 95.6          | 95.3                            | 2.97    | 2.96          | 3.3             | 3.3     | 3.4           |                         |         |               |
|          |                   |                                       | Middle               | 4.5    | 27.2      | 32.0           | 32.0    | 6.10                    | 6.12    | 87.2          | 87.5                            | 3.03    | 3.04          | 3.5             | 3.5     |               |                         |         |               |
|          |                   |                                       | Bottom               | 8.0    | 26.9      | 32.2           | 32.2    | 5.43                    | 5.45    | 77.6          | 77.8                            | 2.88    | 2.89          | 3.2             | 3.4     |               |                         |         |               |
| 30/06/06 | 15:00-15:14       | 30/Cloudy                             | Surface              | 1.0    | 27.7      | 31.6           | 31.6    | 6.62                    | 6.67    | 93.4          | 93.9                            | 2.89    | 2.85          | 3.5             | 3.5     | 3.9           |                         |         |               |
|          |                   |                                       | Middle               | 4.5    | 26.2      | 32.0           | 32.0    | 6.19                    | 6.24    | 88.4          | 87.9                            | 3.70    | 3.65          | 4.5             | 4.4     |               |                         |         |               |
|          |                   |                                       | Bottom               | 8.0    | 25.9      | 31.8           | 31.8    | 6.52                    | 6.47    | 92.1          | 91.6                            | 3.47    | 3.44          | 3.8             | 3.8     |               |                         |         |               |

## **Appendix D3**

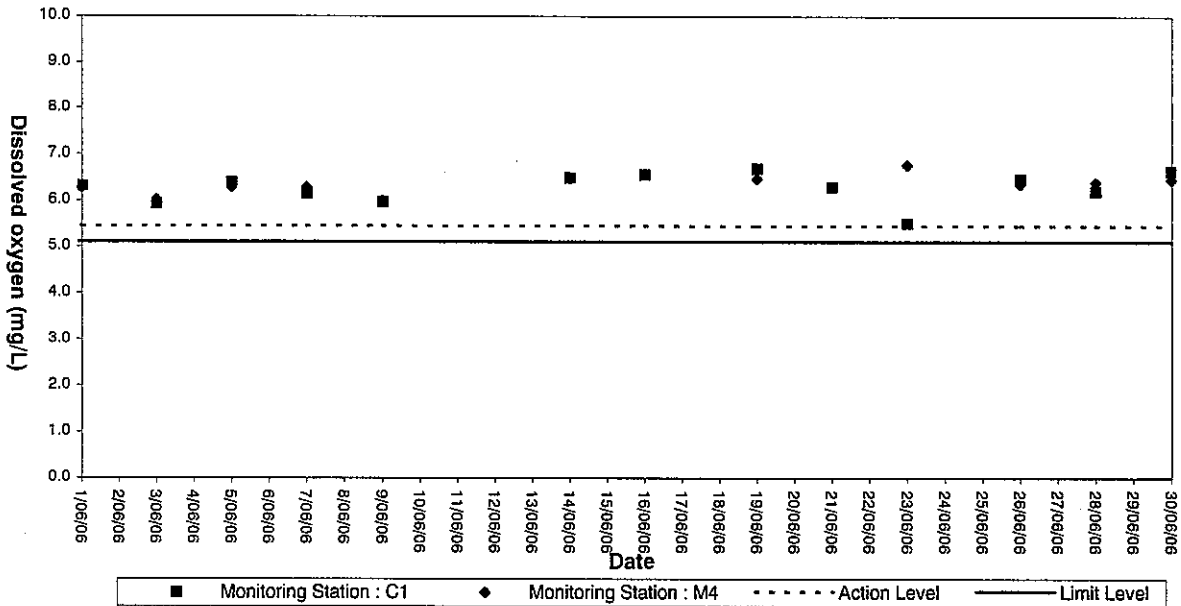
### **Graphical Plots of Impact Marine Water Quality Monitoring Data**



### Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide

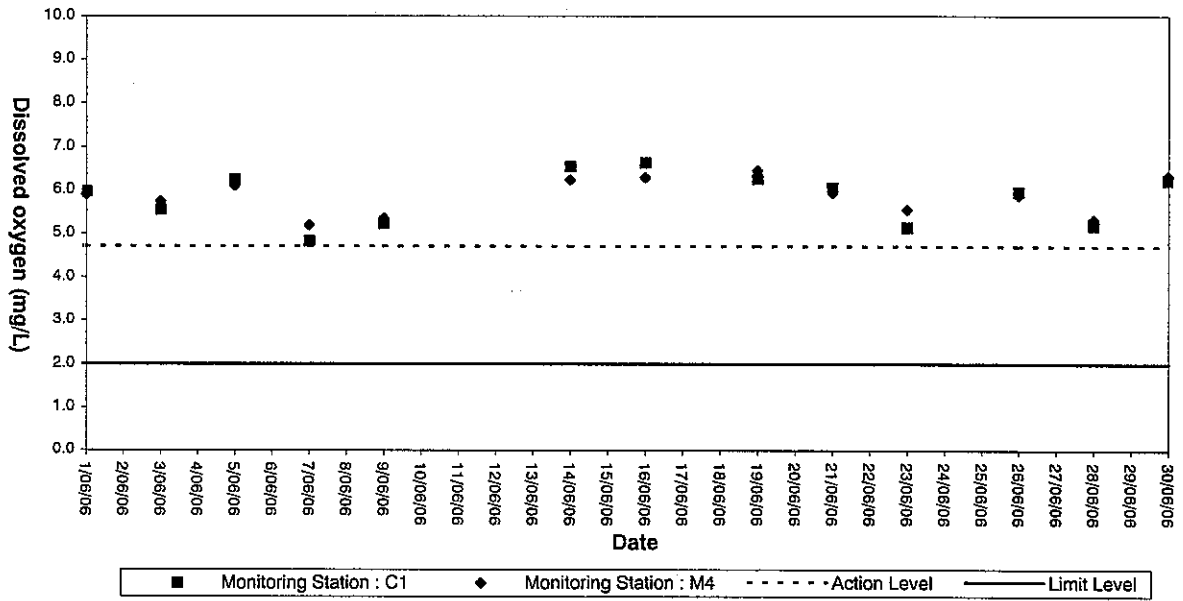


### Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

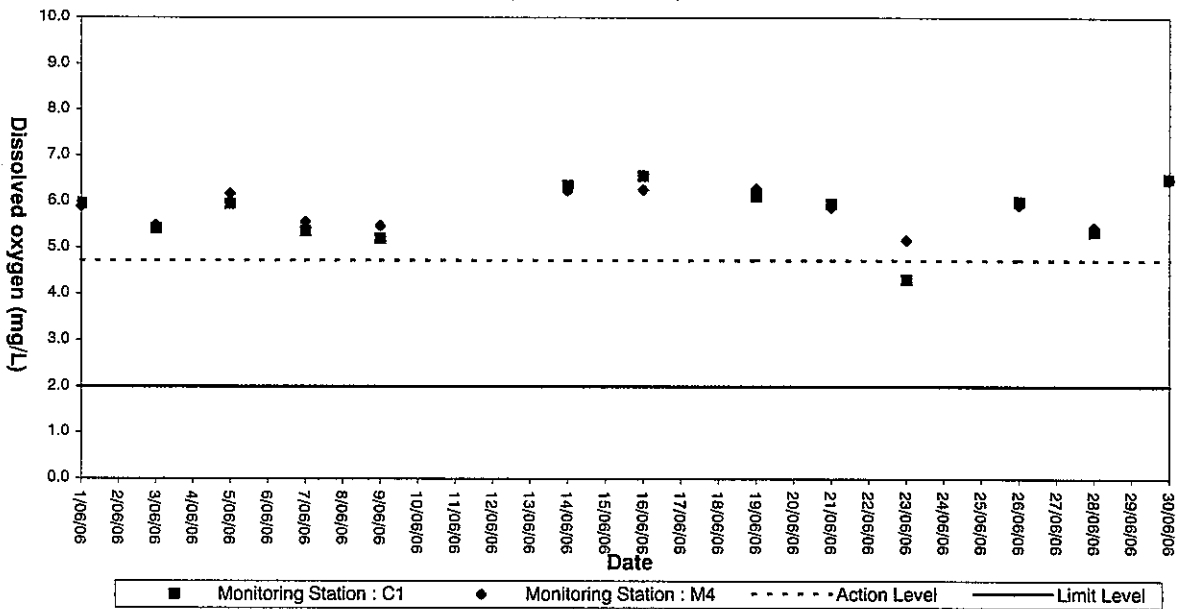




### Dissolved Oxygen (Bottom) at Mid-Flood Tide



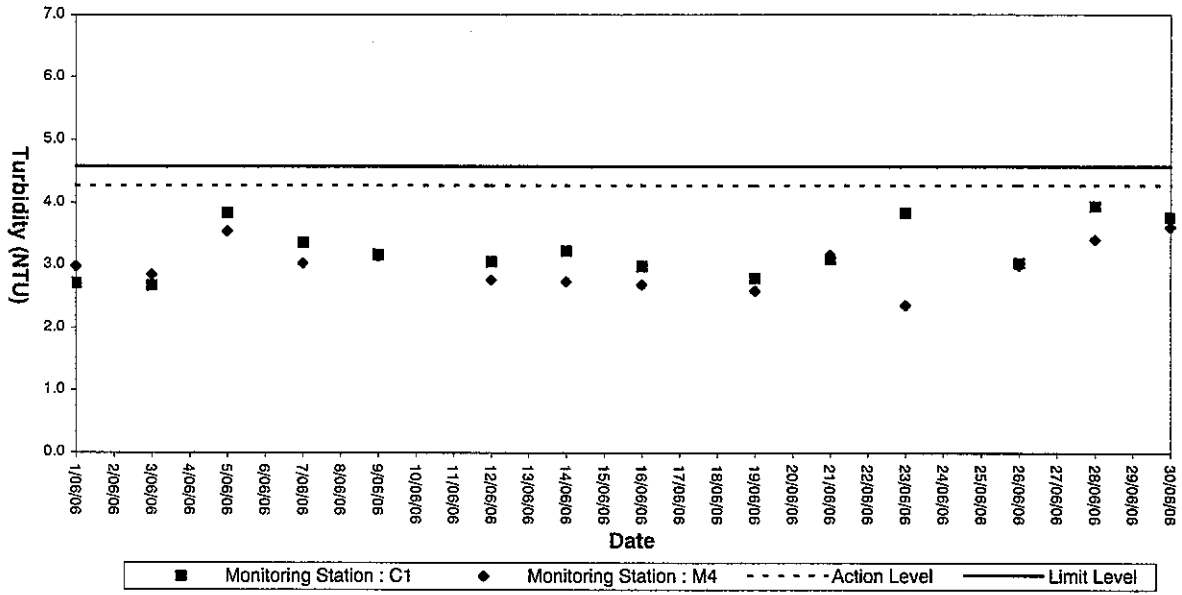
### Dissolved Oxygen (Bottom) at Mid-Ebb Tide



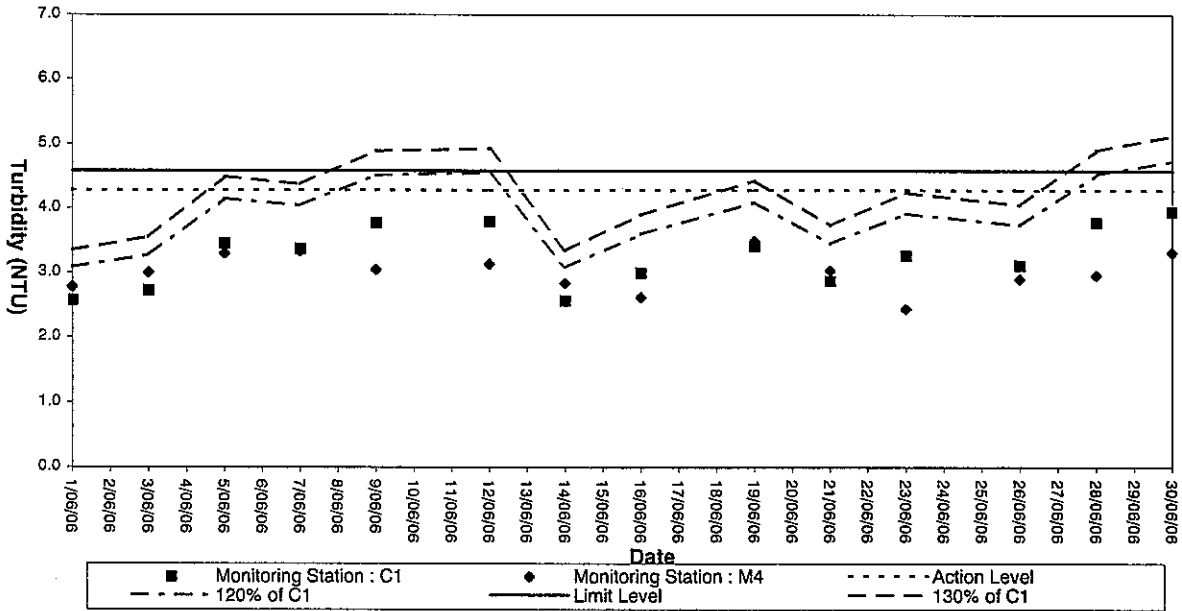




### Turbidity (Depth-average) at Mid-Flood Tide

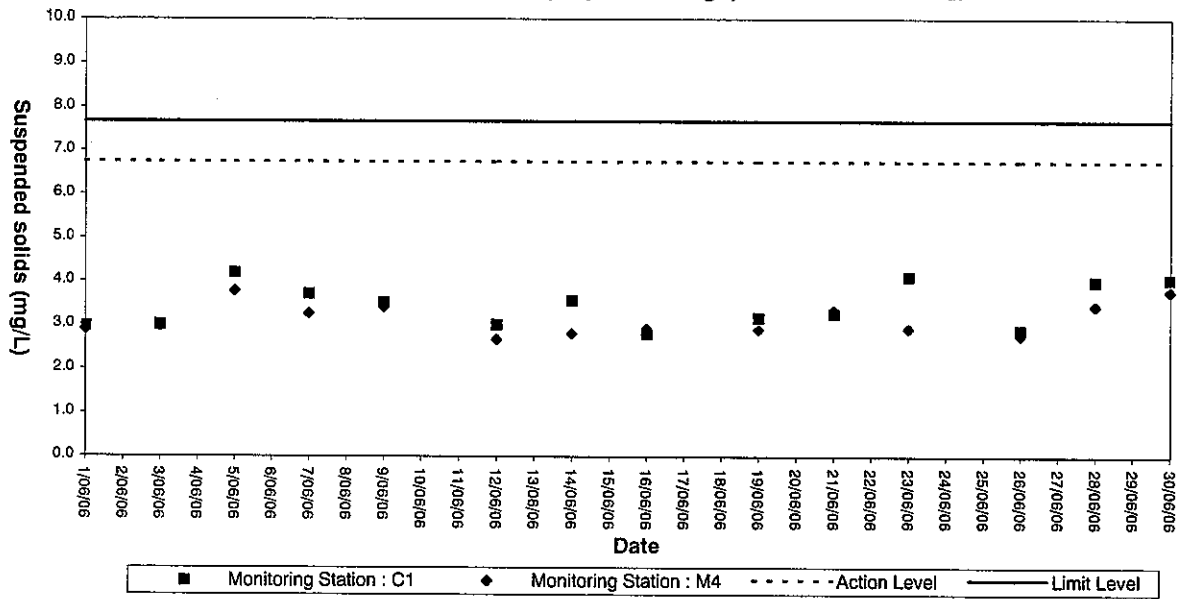


### Turbidity (Depth-average) at Mid-Ebb Tide

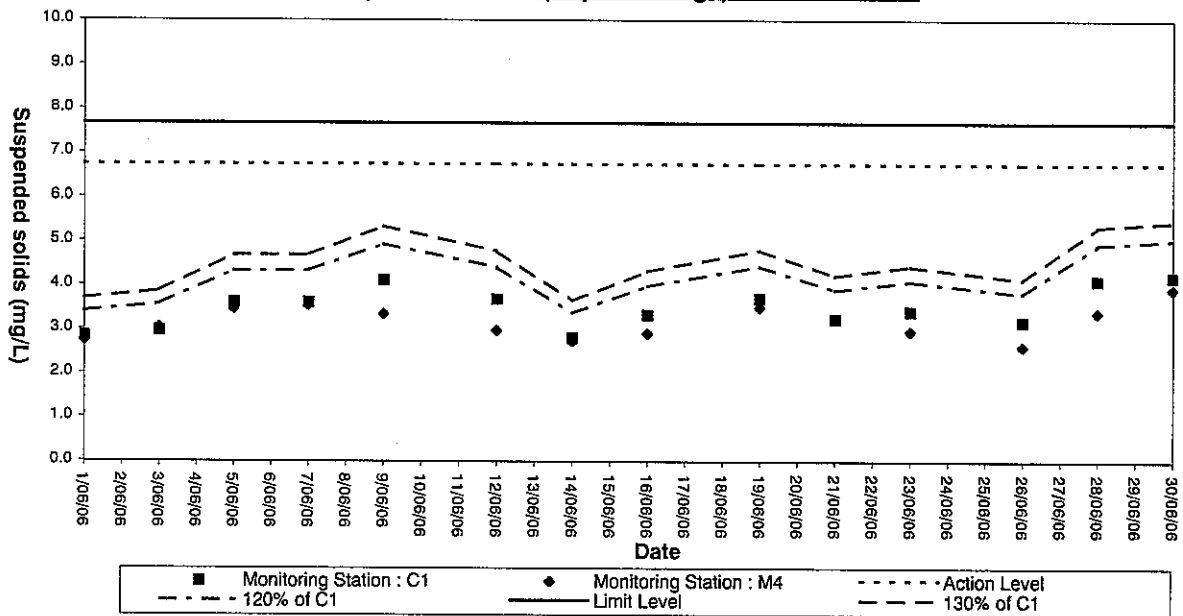




### Suspended solids (Depth-average) at Mid-Flood Tide



### Suspended Solids (Depth-average) at Mid-Ebb Tide





## **Appendix E**

### **Weather Condition**



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 01/06/06   | 12:00 AM | 26.3    | 26.5 | 26.2 | 0.7              | 1.9 | S         | 30     |
| 01/06/06   | 12:30 AM | 26.3    | 26.6 | 26.1 | 1.6              | 1.6 | SWW       | 30     |
| 01/06/06   | 1:00 AM  | 26.0    | 26.0 | 25.9 | 1.1              | 2.8 | SW        | 30     |
| 01/06/06   | 1:30 AM  | 26.0    | 26.4 | 25.9 | 1.4              | 2.5 | SW        | 30     |
| 01/06/06   | 2:00 AM  | 26.1    | 26.4 | 25.9 | 1.1              | 1.3 | SW        | 30     |
| 01/06/06   | 2:30 AM  | 26.1    | 26.1 | 25.8 | 2.0              | 2.8 | SW        | 30     |
| 01/06/06   | 3:00 AM  | 26.0    | 26.3 | 25.9 | 1.5              | 2.6 | SW        | 30     |
| 01/06/06   | 3:30 AM  | 26.0    | 26.1 | 25.7 | 1.1              | 1.5 | SW        | 30     |
| 01/06/06   | 4:00 AM  | 26.0    | 26.2 | 25.7 | 0.6              | 1.3 | S         | 30     |
| 01/06/06   | 4:30 AM  | 26.4    | 26.7 | 26.3 | 1.7              | 2.6 | SW        | 30     |
| 01/06/06   | 5:00 AM  | 26.1    | 26.3 | 26.1 | 1.1              | 2.4 | SE        | 30     |
| 01/06/06   | 5:30 AM  | 26.5    | 26.9 | 26.5 | 1.3              | 2.1 | SW        | 30     |
| 01/06/06   | 6:00 AM  | 26.5    | 26.8 | 26.2 | 1.7              | 2.9 | SW        | 30     |
| 01/06/06   | 6:30 AM  | 25.0    | 25.1 | 24.7 | 3.4              | 3.9 | SW        | 30     |
| 01/06/06   | 7:00 AM  | 25.3    | 25.6 | 25.1 | 1.4              | 2.5 | SWW       | 30     |
| 01/06/06   | 7:30 AM  | 25.2    | 25.3 | 25.0 | 1.7              | 2.2 | W         | 30     |
| 01/06/06   | 8:00 AM  | 25.4    | 25.6 | 25.3 | 1.7              | 2.8 | SW        | 30     |
| 01/06/06   | 8:30 AM  | 25.5    | 25.6 | 25.4 | 1.7              | 2.3 | SW        | 30     |
| 01/06/06   | 9:00 AM  | 25.5    | 25.8 | 25.4 | 1.7              | 2.5 | SW        | 30     |
| 01/06/06   | 9:30 AM  | 26.0    | 26.3 | 25.8 | 1.2              | 2.0 | SW        | 30     |
| 01/06/06   | 10:00 AM | 26.3    | 26.7 | 26.3 | 1.1              | 1.9 | SW        | 30     |
| 01/06/06   | 10:30 AM | 27.0    | 27.4 | 26.8 | 2.9              | 3.5 | SW        | 30     |
| 01/06/06   | 11:00 AM | 27.3    | 27.3 | 27.0 | 3.0              | 3.9 | SW        | 30     |
| 01/06/06   | 11:30 AM | 27.0    | 27.2 | 26.7 | 2.5              | 3.2 | SW        | 30     |
| 01/06/06   | 12:00 PM | 25.6    | 25.8 | 25.4 | 2.5              | 3.4 | SW        | 30     |
| 01/06/06   | 12:30 PM | 26.1    | 26.3 | 26.1 | 2.3              | 3.0 | SW        | 30     |
| 01/06/06   | 1:00 PM  | 26.0    | 26.4 | 25.9 | 0.8              | 1.9 | S         | 30     |
| 01/06/06   | 1:30 PM  | 27.0    | 27.1 | 27.0 | 3.4              | 4.0 | SW        | 30     |
| 01/06/06   | 2:00 PM  | 27.2    | 27.4 | 27.0 | 3.3              | 4.0 | SW        | 30     |
| 01/06/06   | 2:30 PM  | 26.5    | 26.7 | 26.3 | 1.7              | 2.9 | SW        | 30     |
| 01/06/06   | 3:00 PM  | 27.0    | 27.1 | 26.7 | 2.2              | 3.2 | SW        | 30     |
| 01/06/06   | 3:30 PM  | 27.5    | 27.7 | 27.2 | 2.3              | 4.4 | SW        | 30     |
| 01/06/06   | 4:00 PM  | 27.4    | 27.6 | 27.3 | 1.7              | 1.7 | SW        | 30     |
| 01/06/06   | 4:30 PM  | 27.2    | 27.3 | 27.0 | 1.7              | 1.9 | SW        | 30     |
| 01/06/06   | 5:00 PM  | 27.0    | 27.2 | 26.8 | 2.3              | 3.9 | SW        | 30     |
| 01/06/06   | 5:30 PM  | 27.0    | 27.1 | 27.0 | 2.5              | 4.7 | SW        | 30     |
| 01/06/06   | 6:00 PM  | 26.8    | 27.0 | 26.6 | 2.4              | 2.6 | SW        | 30     |
| 01/06/06   | 6:30 PM  | 26.4    | 26.5 | 26.3 | 1.7              | 3.4 | SW        | 30     |
| 01/06/06   | 7:00 PM  | 26.5    | 26.5 | 26.4 | 1.8              | 3.0 | SW        | 30     |
| 01/06/06   | 7:30 PM  | 26.5    | 26.5 | 26.2 | 2.3              | 3.6 | SW        | 30     |
| 01/06/06   | 8:00 PM  | 26.5    | 26.6 | 26.5 | 0.0              | 1.8 | N         | 30     |
| 01/06/06   | 8:30 PM  | 25.8    | 25.9 | 25.6 | 0.0              | 2.1 | N         | 30     |
| 01/06/06   | 9:00 PM  | 25.9    | 26.0 | 25.6 | 0.0              | 0.9 | N         | 30     |
| 01/06/06   | 9:30 PM  | 26.2    | 26.4 | 26.1 | 0.2              | 0.8 | SWW       | 30     |
| 01/06/06   | 10:00 PM | 25.8    | 26.0 | 25.5 | 0.0              | 1.0 | N         | 30     |
| 01/06/06   | 10:30 PM | 25.9    | 26.3 | 25.9 | 0.0              | 1.8 | N         | 30     |
| 01/06/06   | 11:00 PM | 25.9    | 26.2 | 25.8 | 0.0              | 0.2 | SW        | 30     |
| 01/06/06   | 11:30 PM | 26.2    | 26.5 | 26.1 | 0.4              | 0.6 | SW        | 30     |
| 02/06/06   | 12:00 AM | 26.2    | 26.2 | 25.9 | 0.5              | 0.5 | SW        | 30     |
| 02/06/06   | 12:30 AM | 26.2    | 26.4 | 26.1 | 1.7              | 3.2 | SW        | 30     |
| 02/06/06   | 1:00 AM  | 26.2    | 26.6 | 25.9 | 2.6              | 3.0 | SW        | 30     |
| 02/06/06   | 1:30 AM  | 26.1    | 26.2 | 25.8 | 1.8              | 1.9 | SW        | 30     |
| 02/06/06   | 2:00 AM  | 26.3    | 26.3 | 26.1 | 2.5              | 4.4 | SW        | 30     |
| 02/06/06   | 2:30 AM  | 25.9    | 26.1 | 25.7 | 0.6              | 1.5 | SW        | 30     |
| 02/06/06   | 3:00 AM  | 25.7    | 25.9 | 25.7 | 1.4              | 3.3 | SW        | 30     |
| 02/06/06   | 3:30 AM  | 25.8    | 26.0 | 25.8 | 1.5              | 2.8 | SW        | 30     |
| 02/06/06   | 4:00 AM  | 25.7    | 25.9 | 25.5 | 1.2              | 3.1 | SW        | 30     |
| 02/06/06   | 4:30 AM  | 25.7    | 25.7 | 25.6 | 0.9              | 2.2 | SW        | 30     |
| 02/06/06   | 5:00 AM  | 25.6    | 25.7 | 25.4 | 1.7              | 1.9 | SW        | 30     |
| 02/06/06   | 5:30 AM  | 25.9    | 26.1 | 25.7 | 1.5              | 2.6 | SW        | 30     |
| 02/06/06   | 6:00 AM  | 25.7    | 25.8 | 25.6 | 1.5              | 1.6 | SW        | 30     |
| 02/06/06   | 6:30 AM  | 25.7    | 25.9 | 25.4 | 0.1              | 1.8 | W         | 30     |
| 02/06/06   | 7:00 AM  | 25.7    | 25.9 | 25.6 | 0.1              | 1.0 | W         | 30     |
| 02/06/06   | 7:30 AM  | 26.0    | 26.3 | 25.7 | 0.3              | 0.4 | SW        | 30     |
| 02/06/06   | 8:00 AM  | 26.0    | 26.2 | 25.9 | 0.1              | 0.3 | N         | 30     |
| 02/06/06   | 8:30 AM  | 26.0    | 26.3 | 26.0 | 0.8              | 1.2 | E         | 30     |
| 02/06/06   | 9:00 AM  | 26.0    | 26.0 | 25.9 | 1.3              | 2.3 | NE        | 30     |
| 02/06/06   | 9:30 AM  | 26.3    | 26.6 | 26.3 | 0.7              | 1.2 | S         | 30     |
| 02/06/06   | 10:00 AM | 26.3    | 26.6 | 26.0 | 0.9              | 2.1 | E         | 30     |
| 02/06/06   | 10:30 AM | 26.3    | 26.4 | 26.2 | 1.3              | 1.3 | E         | 30     |
| 02/06/06   | 11:00 AM | 26.0    | 26.3 | 26.0 | 1.9              | 3.6 | NE        | 30     |
| 02/06/06   | 11:30 AM | 25.9    | 26.0 | 25.6 | 0.6              | 2.2 | N         | 30     |
| 02/06/06   | 12:00 PM | 25.9    | 26.0 | 25.7 | 2.2              | 4.0 | NE        | 30     |
| 02/06/06   | 12:30 PM | 24.5    | 24.7 | 24.3 | 0.6              | 1.3 | NE        | 30     |
| 02/06/06   | 1:00 PM  | 24.6    | 25.0 | 24.4 | 1.6              | 2.5 | N         | 30     |
| 02/06/06   | 1:30 PM  | 24.6    | 24.6 | 24.3 | 0.2              | 2.1 | N         | 30     |
| 02/06/06   | 2:00 PM  | 24.6    | 25.0 | 24.5 | 0.0              | 1.4 | N         | 30     |
| 02/06/06   | 2:30 PM  | 24.8    | 25.1 | 24.7 | 0.1              | 1.0 | N         | 30     |
| 02/06/06   | 3:00 PM  | 25.0    | 25.1 | 24.9 | 0.0              | 1.6 | N         | 30     |
| 02/06/06   | 3:30 PM  | 25.5    | 25.6 | 25.3 | 0.1              | 2.2 | N         | 30     |
| 02/06/06   | 4:00 PM  | 25.5    | 25.6 | 25.2 | 0.0              | 2.0 | N         | 30     |
| 02/06/06   | 4:30 PM  | 25.5    | 25.7 | 25.4 | 0.2              | 2.0 | NE        | 30     |
| 02/06/06   | 5:00 PM  | 25.6    | 25.8 | 25.5 | 0.0              | 0.0 | N         | 30     |
| 02/06/06   | 5:30 PM  | 25.8    | 26.1 | 25.6 | 0.0              | 0.7 | N         | 30     |
| 02/06/06   | 6:00 PM  | 25.8    | 26.0 | 25.6 | 0.6              | 2.0 | N         | 30     |
| 02/06/06   | 6:30 PM  | 25.8    | 26.0 | 25.7 | 0.1              | 1.5 | N         | 30     |
| 02/06/06   | 7:00 PM  | 25.8    | 26.2 | 25.8 | 0.0              | 2.3 | N         | 30     |
| 02/06/06   | 7:30 PM  | 25.8    | 25.8 | 25.8 | 0.0              | 1.6 | N         | 30     |
| 02/06/06   | 8:00 PM  | 25.7    | 25.9 | 25.5 | 0.1              | 1.0 | E         | 30     |
| 02/06/06   | 8:30 PM  | 25.5    | 25.7 | 25.3 | 0.9              | 2.7 | E         | 30     |
| 02/06/06   | 9:00 PM  | 25.4    | 25.5 | 25.4 | 0.0              | 1.6 | N         | 30     |
| 02/06/06   | 9:30 PM  | 25.5    | 25.7 | 25.4 | 0.0              | 0.2 | N         | 30     |
| 02/06/06   | 10:00 PM | 25.5    | 25.8 | 25.4 | 0.0              | 0.8 | N         | 30     |
| 02/06/06   | 10:30 PM | 25.5    | 25.7 | 25.2 | 0.6              | 1.6 | N         | 30     |
| 02/06/06   | 11:00 PM | 25.5    | 25.7 | 25.2 | 0.1              | 1.8 | N         | 30     |
| 02/06/06   | 11:30 PM | 26.0    | 26.3 | 25.8 | 1.0              | 1.3 | S         | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average |         |          | Wind Speed (m/s) |     | Wind Direction | Period |
|------------|----------|---------|---------|----------|------------------|-----|----------------|--------|
|            |          | Temp    | Hi Temp | Low Temp | Average          | Hi  |                |        |
| 03/06/06   | 12:00 AM | 26.0    | 26.2    | 25.9     | 0.1              | 2.2 | S              | 30     |
| 03/06/06   | 12:30 AM | 26.0    | 26.1    | 26.0     | 0.7              | 1.2 | S              | 30     |
| 03/06/06   | 1:00 AM  | 26.0    | 26.2    | 26.0     | 0.1              | 1.0 | S              | 30     |
| 03/06/06   | 1:30 AM  | 26.0    | 26.4    | 25.8     | 0.3              | 2.3 | S              | 30     |
| 03/06/06   | 2:00 AM  | 26.0    | 26.1    | 25.9     | 0.6              | 1.8 | S              | 30     |
| 03/06/06   | 2:30 AM  | 26.2    | 26.4    | 25.9     | 1.7              | 2.8 | S              | 30     |
| 03/06/06   | 3:00 AM  | 26.1    | 26.3    | 26.0     | 1.0              | 2.3 | S              | 30     |
| 03/06/06   | 3:30 AM  | 26.1    | 26.3    | 26.0     | 1.8              | 2.0 | SW             | 30     |
| 03/06/06   | 4:00 AM  | 26.2    | 26.3    | 26.2     | 1.5              | 1.5 | SW             | 30     |
| 03/06/06   | 4:30 AM  | 26.3    | 26.7    | 26.2     | 1.7              | 2.3 | SW             | 30     |
| 03/06/06   | 5:00 AM  | 26.0    | 26.3    | 25.9     | 0.9              | 2.2 | SW             | 30     |
| 03/06/06   | 5:30 AM  | 26.0    | 26.4    | 25.8     | 1.9              | 2.4 | SW             | 30     |
| 03/06/06   | 6:00 AM  | 26.0    | 26.3    | 26.0     | 1.6              | 3.1 | SW             | 30     |
| 03/06/06   | 6:30 AM  | 25.8    | 26.2    | 25.6     | 0.6              | 2.3 | SW             | 30     |
| 03/06/06   | 7:00 AM  | 26.0    | 26.4    | 25.8     | 1.5              | 3.3 | SW             | 30     |
| 03/06/06   | 7:30 AM  | 26.1    | 26.1    | 25.9     | 2.1              | 2.6 | SW             | 30     |
| 03/06/06   | 8:00 AM  | 26.1    | 26.2    | 25.8     | 1.6              | 2.4 | SW             | 30     |
| 03/06/06   | 8:30 AM  | 26.3    | 26.4    | 26.2     | 1.7              | 2.3 | SW             | 30     |
| 03/06/06   | 9:00 AM  | 26.6    | 26.8    | 26.6     | 1.0              | 2.8 | S              | 30     |
| 03/06/06   | 9:30 AM  | 26.6    | 26.7    | 26.4     | 0.8              | 2.3 | SW             | 30     |
| 03/06/06   | 10:00 AM | 26.6    | 26.9    | 26.5     | 0.5              | 2.7 | S              | 30     |
| 03/06/06   | 10:30 AM | 26.7    | 27.1    | 26.4     | 1.0              | 2.9 | S              | 30     |
| 03/06/06   | 11:00 AM | 27.2    | 27.5    | 27.2     | 2.3              | 2.5 | S              | 30     |
| 03/06/06   | 11:30 AM | 27.2    | 27.6    | 27.1     | 2.8              | 3.8 | S              | 30     |
| 03/06/06   | 12:00 PM | 27.3    | 27.4    | 27.2     | 2.4              | 2.5 | SWS            | 30     |
| 03/06/06   | 12:30 PM | 27.2    | 27.3    | 27.1     | 1.3              | 3.0 | SWS            | 30     |
| 03/06/06   | 1:00 PM  | 27.1    | 27.2    | 27.0     | 1.9              | 2.2 | S              | 30     |
| 03/06/06   | 1:30 PM  | 27.0    | 27.3    | 26.9     | 2.2              | 3.4 | S              | 30     |
| 03/06/06   | 2:00 PM  | 27.1    | 27.1    | 27.0     | 1.9              | 2.6 | S              | 30     |
| 03/06/06   | 2:30 PM  | 26.9    | 26.9    | 26.7     | 2.1              | 2.8 | SWS            | 30     |
| 03/06/06   | 3:00 PM  | 27.0    | 27.4    | 26.9     | 2.6              | 4.3 | SWS            | 30     |
| 03/06/06   | 3:30 PM  | 26.6    | 26.8    | 26.5     | 2.1              | 3.7 | SWS            | 30     |
| 03/06/06   | 4:00 PM  | 26.4    | 26.5    | 26.1     | 1.8              | 3.1 | SWS            | 30     |
| 03/06/06   | 4:30 PM  | 26.3    | 26.4    | 26.2     | 1.9              | 3.9 | S              | 30     |
| 03/06/06   | 5:00 PM  | 26.3    | 26.4    | 26.1     | 2.2              | 2.5 | S              | 30     |
| 03/06/06   | 5:30 PM  | 26.4    | 26.6    | 26.4     | 2.3              | 2.8 | SWS            | 30     |
| 03/06/06   | 6:00 PM  | 26.3    | 26.6    | 26.1     | 2.6              | 3.8 | S              | 30     |
| 03/06/06   | 6:30 PM  | 26.2    | 26.5    | 26.0     | 1.8              | 2.4 | S              | 30     |
| 03/06/06   | 7:00 PM  | 26.0    | 26.1    | 25.9     | 1.4              | 1.4 | S              | 30     |
| 03/06/06   | 7:30 PM  | 26.0    | 26.3    | 25.7     | 1.9              | 3.5 | S              | 30     |
| 03/06/06   | 8:00 PM  | 26.0    | 26.1    | 25.7     | 2.1              | 3.5 | S              | 30     |
| 03/06/06   | 8:30 PM  | 26.0    | 26.1    | 25.8     | 2.7              | 4.3 | SWS            | 30     |
| 03/06/06   | 9:00 PM  | 26.2    | 26.2    | 26.0     | 1.8              | 3.4 | SWS            | 30     |
| 03/06/06   | 9:30 PM  | 26.2    | 26.4    | 26.0     | 1.7              | 3.5 | SWS            | 30     |
| 03/06/06   | 10:00 PM | 26.2    | 26.6    | 26.1     | 2.3              | 3.0 | SWS            | 30     |
| 03/06/06   | 10:30 PM | 26.1    | 26.4    | 25.8     | 1.4              | 3.1 | SWS            | 30     |
| 03/06/06   | 11:00 PM | 26.1    | 26.3    | 26.0     | 2.1              | 3.8 | SW             | 30     |
| 03/06/06   | 11:30 PM | 26.0    | 26.3    | 25.8     | 2.8              | 3.0 | SWS            | 30     |
| 04/06/06   | 12:00 AM | 26.0    | 26.0    | 25.7     | 2.7              | 3.4 | SWS            | 30     |
| 04/06/06   | 12:30 AM | 26.0    | 26.1    | 25.9     | 2.1              | 3.1 | SWS            | 30     |
| 04/06/06   | 1:00 AM  | 26.1    | 26.4    | 26.0     | 1.9              | 3.7 | SWS            | 30     |
| 04/06/06   | 1:30 AM  | 26.2    | 26.4    | 26.0     | 1.7              | 2.1 | S              | 30     |
| 04/06/06   | 2:00 AM  | 26.2    | 26.3    | 26.0     | 2.0              | 2.9 | S              | 30     |
| 04/06/06   | 2:30 AM  | 26.2    | 26.3    | 26.0     | 1.5              | 1.8 | SWS            | 30     |
| 04/06/06   | 3:00 AM  | 26.3    | 26.4    | 26.2     | 1.9              | 2.4 | SWS            | 30     |
| 04/06/06   | 3:30 AM  | 26.2    | 26.3    | 26.2     | 1.2              | 1.5 | SWS            | 30     |
| 04/06/06   | 4:00 AM  | 26.3    | 26.6    | 26.1     | 1.9              | 3.2 | SWS            | 30     |
| 04/06/06   | 4:30 AM  | 26.4    | 26.7    | 26.1     | 2.5              | 3.3 | SW             | 30     |
| 04/06/06   | 5:00 AM  | 26.5    | 26.7    | 26.2     | 2.9              | 3.8 | SW             | 30     |
| 04/06/06   | 5:30 AM  | 26.5    | 26.7    | 26.5     | 2.8              | 3.7 | SW             | 30     |
| 04/06/06   | 6:00 AM  | 26.5    | 26.7    | 26.4     | 3.0              | 3.9 | SWS            | 30     |
| 04/06/06   | 6:30 AM  | 26.7    | 26.8    | 26.5     | 2.5              | 3.9 | SW             | 30     |
| 04/06/06   | 7:00 AM  | 26.9    | 27.0    | 26.8     | 2.1              | 2.2 | SW             | 30     |
| 04/06/06   | 7:30 AM  | 27.3    | 27.6    | 27.2     | 2.3              | 2.3 | SW             | 30     |
| 04/06/06   | 8:00 AM  | 27.2    | 27.3    | 27.2     | 1.5              | 2.3 | SW             | 30     |
| 04/06/06   | 8:30 AM  | 27.3    | 27.3    | 27.1     | 1.7              | 3.1 | SW             | 30     |
| 04/06/06   | 9:00 AM  | 27.5    | 27.5    | 27.3     | 2.3              | 3.5 | SWS            | 30     |
| 04/06/06   | 9:30 AM  | 27.5    | 27.8    | 27.4     | 2.1              | 2.3 | SWS            | 30     |
| 04/06/06   | 10:00 AM | 27.5    | 27.5    | 27.3     | 2.8              | 5.0 | SWS            | 30     |
| 04/06/06   | 10:30 AM | 27.9    | 28.1    | 27.9     | 2.1              | 4.3 | S              | 30     |
| 04/06/06   | 11:00 AM | 28.0    | 28.3    | 27.9     | 1.8              | 1.8 | SWS            | 30     |
| 04/06/06   | 11:30 AM | 28.1    | 28.3    | 28.0     | 2.4              | 4.3 | S              | 30     |
| 04/06/06   | 12:00 PM | 28.6    | 28.7    | 28.3     | 2.2              | 3.4 | S              | 30     |
| 04/06/06   | 12:30 PM | 28.2    | 28.3    | 28.2     | 2.0              | 2.9 | S              | 30     |
| 04/06/06   | 1:00 PM  | 28.2    | 28.3    | 28.2     | 2.8              | 5.1 | SW             | 30     |
| 04/06/06   | 1:30 PM  | 28.3    | 28.5    | 28.1     | 1.6              | 1.8 | S              | 30     |
| 04/06/06   | 2:00 PM  | 28.2    | 28.3    | 28.0     | 1.7              | 2.1 | S              | 30     |
| 04/06/06   | 2:30 PM  | 28.1    | 28.1    | 28.1     | 2.1              | 4.0 | SW             | 30     |
| 04/06/06   | 3:00 PM  | 28.1    | 28.3    | 27.9     | 1.9              | 4.2 | SW             | 30     |
| 04/06/06   | 3:30 PM  | 28.1    | 28.4    | 27.8     | 3.1              | 4.6 | SW             | 30     |
| 04/06/06   | 4:00 PM  | 27.2    | 27.3    | 27.0     | 2.3              | 3.0 | S              | 30     |
| 04/06/06   | 4:30 PM  | 27.1    | 27.2    | 26.9     | 3.0              | 4.1 | S              | 30     |
| 04/06/06   | 5:00 PM  | 27.0    | 27.3    | 26.8     | 1.0              | 1.8 | S              | 30     |
| 04/06/06   | 5:30 PM  | 27.3    | 27.3    | 27.3     | 1.5              | 3.6 | SW             | 30     |
| 04/06/06   | 6:00 PM  | 27.2    | 27.3    | 26.9     | 1.2              | 2.1 | SW             | 30     |
| 04/06/06   | 6:30 PM  | 27.3    | 27.5    | 27.1     | 1.1              | 1.4 | SW             | 30     |
| 04/06/06   | 7:00 PM  | 27.3    | 27.7    | 27.1     | 1.9              | 2.3 | SW             | 30     |
| 04/06/06   | 7:30 PM  | 27.3    | 27.6    | 27.3     | 2.0              | 3.7 | SW             | 30     |
| 04/06/06   | 8:00 PM  | 27.4    | 27.4    | 27.1     | 2.3              | 3.8 | SW             | 30     |
| 04/06/06   | 8:30 PM  | 27.4    | 27.8    | 27.3     | 1.8              | 3.8 | SW             | 30     |
| 04/06/06   | 9:00 PM  | 27.6    | 27.9    | 27.6     | 1.6              | 2.4 | SW             | 30     |
| 04/06/06   | 9:30 PM  | 27.5    | 27.6    | 27.4     | 2.7              | 4.4 | SW             | 30     |
| 04/06/06   | 10:00 PM | 27.5    | 27.7    | 27.3     | 2.3              | 3.1 | SW             | 30     |
| 04/06/06   | 10:30 PM | 27.6    | 28.0    | 27.3     | 1.9              | 3.3 | S              | 30     |
| 04/06/06   | 11:00 PM | 27.6    | 27.8    | 27.3     | 2.9              | 4.5 | SW             | 30     |
| 04/06/06   | 11:30 PM | 27.6    | 28.0    | 27.4     | 2.8              | 4.1 | SW             | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 05/06/06   | 12:00 AM | 27.4    | 27.6 | 27.2 | 1.6              | 2.3 | SW        | 30     |
| 05/06/06   | 12:30 AM | 27.6    | 27.8 | 27.5 | 2.2              | 2.6 | SW        | 30     |
| 05/06/06   | 1:00 AM  | 27.6    | 27.6 | 27.3 | 2.2              | 4.4 | SW        | 30     |
| 05/06/06   | 1:30 AM  | 27.5    | 27.9 | 27.4 | 2.9              | 3.3 | S         | 30     |
| 05/06/06   | 2:00 AM  | 27.6    | 27.9 | 27.4 | 1.9              | 2.5 | SW        | 30     |
| 05/06/06   | 2:30 AM  | 27.6    | 27.8 | 27.5 | 1.4              | 2.5 | SW        | 30     |
| 05/06/06   | 3:00 AM  | 27.6    | 27.9 | 27.3 | 2.1              | 2.2 | SW        | 30     |
| 05/06/06   | 3:30 AM  | 27.6    | 27.8 | 27.6 | 1.8              | 2.8 | S         | 30     |
| 05/06/06   | 4:00 AM  | 27.6    | 27.7 | 27.3 | 1.7              | 3.6 | SW        | 30     |
| 05/06/06   | 4:30 AM  | 27.6    | 27.6 | 27.5 | 1.9              | 2.3 | S         | 30     |
| 05/06/06   | 5:00 AM  | 27.6    | 27.7 | 27.3 | 2.1              | 3.8 | SW        | 30     |
| 05/06/06   | 5:30 AM  | 27.4    | 27.8 | 27.3 | 1.9              | 2.7 | SW        | 30     |
| 05/06/06   | 6:00 AM  | 27.6    | 27.9 | 27.6 | 2.9              | 3.0 | SW        | 30     |
| 05/06/06   | 6:30 AM  | 27.8    | 27.9 | 27.5 | 1.8              | 4.0 | S         | 30     |
| 05/06/06   | 7:00 AM  | 27.8    | 28.0 | 27.7 | 2.1              | 2.3 | SW        | 30     |
| 05/06/06   | 7:30 AM  | 27.9    | 28.2 | 27.7 | 3.0              | 5.2 | SW        | 30     |
| 05/06/06   | 8:00 AM  | 28.0    | 28.3 | 27.9 | 2.2              | 4.4 | SW        | 30     |
| 05/06/06   | 8:30 AM  | 28.0    | 28.1 | 27.7 | 1.4              | 3.5 | SW        | 30     |
| 05/06/06   | 9:00 AM  | 28.3    | 28.4 | 28.2 | 2.4              | 4.2 | SW        | 30     |
| 05/06/06   | 9:30 AM  | 28.4    | 28.5 | 28.2 | 1.4              | 2.6 | SW        | 30     |
| 05/06/06   | 10:00 AM | 28.0    | 28.1 | 27.9 | 3.5              | 4.7 | SW        | 30     |
| 05/06/06   | 10:30 AM | 28.0    | 28.2 | 27.9 | 1.6              | 2.0 | S         | 30     |
| 05/06/06   | 11:00 AM | 28.3    | 28.4 | 28.3 | 2.1              | 4.0 | SW        | 30     |
| 05/06/06   | 11:30 AM | 28.5    | 28.8 | 28.4 | 2.9              | 3.4 | S         | 30     |
| 05/06/06   | 12:00 PM | 28.5    | 28.8 | 28.3 | 3.6              | 4.1 | SW        | 30     |
| 05/06/06   | 12:30 PM | 28.6    | 28.9 | 28.5 | 2.7              | 4.3 | SW        | 30     |
| 05/06/06   | 1:00 PM  | 28.6    | 28.7 | 28.4 | 2.5              | 4.7 | SW        | 30     |
| 05/06/06   | 1:30 PM  | 28.8    | 28.8 | 28.6 | 2.3              | 3.8 | SW        | 30     |
| 05/06/06   | 2:00 PM  | 28.7    | 28.9 | 28.4 | 1.9              | 3.9 | SW        | 30     |
| 05/06/06   | 2:30 PM  | 28.5    | 28.6 | 28.2 | 1.0              | 2.2 | SW        | 30     |
| 05/06/06   | 3:00 PM  | 28.7    | 29.1 | 28.5 | 1.7              | 2.4 | S         | 30     |
| 05/06/06   | 3:30 PM  | 28.9    | 29.1 | 28.6 | 1.1              | 2.9 | SW        | 30     |
| 05/06/06   | 4:00 PM  | 28.4    | 28.7 | 28.1 | 1.6              | 2.4 | SW        | 30     |
| 05/06/06   | 4:30 PM  | 28.3    | 28.7 | 28.0 | 1.7              | 3.2 | S         | 30     |
| 05/06/06   | 5:00 PM  | 28.3    | 28.5 | 28.1 | 1.1              | 2.8 | S         | 30     |
| 05/06/06   | 5:30 PM  | 28.1    | 28.4 | 28.0 | 1.4              | 1.7 | SW        | 30     |
| 05/06/06   | 6:00 PM  | 28.3    | 28.7 | 28.2 | 1.7              | 3.4 | SW        | 30     |
| 05/06/06   | 6:30 PM  | 28.1    | 28.3 | 27.9 | 2.0              | 4.2 | SW        | 30     |
| 05/06/06   | 7:00 PM  | 28.0    | 28.0 | 27.9 | 2.1              | 3.0 | SW        | 30     |
| 05/06/06   | 7:30 PM  | 27.9    | 28.3 | 27.6 | 1.7              | 3.0 | SW        | 30     |
| 05/06/06   | 8:00 PM  | 27.8    | 28.2 | 27.5 | 2.1              | 2.5 | S         | 30     |
| 05/06/06   | 8:30 PM  | 27.7    | 27.8 | 27.7 | 1.6              | 3.3 | S         | 30     |
| 05/06/06   | 9:00 PM  | 27.7    | 27.9 | 27.7 | 1.7              | 3.4 | S         | 30     |
| 05/06/06   | 9:30 PM  | 27.8    | 28.0 | 27.6 | 3.1              | 3.3 | S         | 30     |
| 05/06/06   | 10:00 PM | 28.0    | 28.0 | 27.9 | 2.9              | 3.8 | S         | 30     |
| 05/06/06   | 10:30 PM | 27.9    | 28.0 | 27.7 | 2.3              | 3.2 | S         | 30     |
| 05/06/06   | 11:00 PM | 27.9    | 28.3 | 27.8 | 1.7              | 3.7 | S         | 30     |
| 05/06/06   | 11:30 PM | 27.9    | 28.1 | 27.7 | 2.7              | 2.7 | SW        | 30     |
| 06/06/06   | 12:00 AM | 28.0    | 28.4 | 27.9 | 1.9              | 2.7 | S         | 30     |
| 06/06/06   | 12:30 AM | 27.8    | 28.1 | 27.7 | 2.4              | 4.2 | S         | 30     |
| 06/06/06   | 1:00 AM  | 27.9    | 28.2 | 27.8 | 2.1              | 2.2 | S         | 30     |
| 06/06/06   | 1:30 AM  | 27.6    | 28.0 | 27.5 | 2.3              | 3.9 | S         | 30     |
| 06/06/06   | 2:00 AM  | 27.5    | 27.6 | 27.3 | 2.6              | 3.0 | S         | 30     |
| 06/06/06   | 2:30 AM  | 27.6    | 27.6 | 27.5 | 2.7              | 4.0 | S         | 30     |
| 06/06/06   | 3:00 AM  | 27.7    | 27.9 | 27.4 | 2.9              | 4.3 | SW        | 30     |
| 06/06/06   | 3:30 AM  | 27.7    | 27.9 | 27.5 | 2.4              | 4.4 | SW        | 30     |
| 06/06/06   | 4:00 AM  | 27.7    | 28.0 | 27.7 | 3.2              | 5.1 | SW        | 30     |
| 06/06/06   | 4:30 AM  | 27.8    | 28.1 | 27.8 | 2.1              | 2.5 | SW        | 30     |
| 06/06/06   | 5:00 AM  | 27.8    | 27.8 | 27.7 | 2.2              | 3.9 | S         | 30     |
| 06/06/06   | 5:30 AM  | 27.3    | 27.5 | 27.2 | 2.8              | 3.8 | SW        | 30     |
| 06/06/06   | 6:00 AM  | 27.3    | 27.4 | 27.1 | 1.9              | 3.3 | SW        | 30     |
| 06/06/06   | 6:30 AM  | 27.3    | 27.5 | 27.2 | 2.6              | 2.8 | SW        | 30     |
| 06/06/06   | 7:00 AM  | 27.3    | 27.7 | 27.1 | 2.3              | 2.9 | SW        | 30     |
| 06/06/06   | 7:30 AM  | 27.5    | 27.8 | 27.2 | 2.8              | 3.5 | SW        | 30     |
| 06/06/06   | 8:00 AM  | 27.9    | 28.3 | 27.7 | 2.9              | 3.6 | SW        | 30     |
| 06/06/06   | 8:30 AM  | 27.9    | 28.0 | 27.7 | 2.6              | 3.9 | SW        | 30     |
| 06/06/06   | 9:00 AM  | 28.1    | 28.5 | 27.9 | 3.4              | 5.0 | S         | 30     |
| 06/06/06   | 9:30 AM  | 28.0    | 28.1 | 27.9 | 1.8              | 3.7 | S         | 30     |
| 06/06/06   | 10:00 AM | 28.1    | 28.4 | 27.9 | 2.2              | 3.0 | S         | 30     |
| 06/06/06   | 10:30 AM | 28.3    | 28.3 | 28.0 | 2.4              | 3.9 | SW        | 30     |
| 06/06/06   | 11:00 AM | 28.2    | 28.6 | 28.0 | 1.9              | 3.8 | SW        | 30     |
| 06/06/06   | 11:30 AM | 28.2    | 28.5 | 28.0 | 1.5              | 1.5 | SW        | 30     |
| 06/06/06   | 12:00 PM | 28.9    | 29.0 | 28.9 | 1.6              | 3.7 | S         | 30     |
| 06/06/06   | 12:30 PM | 29.8    | 29.9 | 29.5 | 3.1              | 5.0 | S         | 30     |
| 06/06/06   | 1:00 PM  | 29.6    | 30.0 | 29.6 | 2.5              | 4.7 | SW        | 30     |
| 06/06/06   | 1:30 PM  | 29.5    | 29.6 | 29.4 | 2.3              | 3.7 | SW        | 30     |
| 06/06/06   | 2:00 PM  | 30.1    | 30.2 | 30.0 | 2.1              | 2.9 | SW        | 30     |
| 06/06/06   | 2:30 PM  | 29.8    | 30.0 | 29.6 | 2.8              | 4.0 | S         | 30     |
| 06/06/06   | 3:00 PM  | 30.1    | 30.4 | 29.9 | 3.1              | 4.5 | SW        | 30     |
| 06/06/06   | 3:30 PM  | 29.8    | 29.9 | 29.7 | 3.6              | 4.3 | SW        | 30     |
| 06/06/06   | 4:00 PM  | 29.6    | 29.7 | 29.3 | 2.7              | 3.9 | SW        | 30     |
| 06/06/06   | 4:30 PM  | 29.4    | 29.8 | 29.4 | 1.7              | 2.2 | SW        | 30     |
| 06/06/06   | 5:00 PM  | 29.0    | 29.1 | 28.9 | 1.0              | 2.6 | S         | 30     |
| 06/06/06   | 5:30 PM  | 28.7    | 28.9 | 28.7 | 2.8              | 3.7 | S         | 30     |
| 06/06/06   | 6:00 PM  | 28.7    | 28.7 | 28.6 | 1.8              | 3.4 | SW        | 30     |
| 06/06/06   | 6:30 PM  | 28.5    | 28.7 | 28.4 | 1.5              | 2.9 | S         | 30     |
| 06/06/06   | 7:00 PM  | 28.4    | 28.8 | 28.2 | 1.5              | 3.2 | SW        | 30     |
| 06/06/06   | 7:30 PM  | 28.2    | 28.2 | 28.1 | 1.8              | 3.5 | S         | 30     |
| 06/06/06   | 8:00 PM  | 28.1    | 28.2 | 27.8 | 3.1              | 3.7 | S         | 30     |
| 06/06/06   | 8:30 PM  | 28.2    | 28.3 | 28.0 | 1.4              | 3.7 | SW        | 30     |
| 06/06/06   | 9:00 PM  | 28.2    | 28.3 | 28.1 | 1.5              | 3.0 | SW        | 30     |
| 06/06/06   | 9:30 PM  | 28.0    | 28.0 | 27.9 | 1.8              | 3.2 | S         | 30     |
| 06/06/06   | 10:00 PM | 28.0    | 28.3 | 27.8 | 2.2              | 4.2 | S         | 30     |
| 06/06/06   | 10:30 PM | 28.0    | 28.3 | 27.8 | 2.6              | 4.0 | S         | 30     |
| 06/06/06   | 11:00 PM | 28.0    | 28.0 | 27.7 | 2.3              | 3.2 | S         | 30     |
| 06/06/06   | 11:30 PM | 28.0    | 28.3 | 27.9 | 1.8              | 2.1 | S         | 30     |

Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind Direction | Period |
|------------|----------|---------|------|------|------------------|-----|----------------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  |                |        |
| 07/06/06   | 12:00 AM | 28.1    | 28.4 | 28.1 | 2.3              | 2.9 | S              | 30     |
| 07/06/06   | 12:30 AM | 28.0    | 28.4 | 27.8 | 1.6              | 3.6 | SW             | 30     |
| 07/06/06   | 1:00 AM  | 27.8    | 28.2 | 27.6 | 2.5              | 4.5 | S              | 30     |
| 07/06/06   | 1:30 AM  | 28.0    | 28.4 | 27.7 | 2.3              | 2.6 | S              | 30     |
| 07/06/06   | 2:00 AM  | 27.8    | 28.1 | 27.6 | 1.4              | 3.6 | SW             | 30     |
| 07/06/06   | 2:30 AM  | 28.0    | 28.2 | 27.8 | 2.1              | 2.6 | SW             | 30     |
| 07/06/06   | 3:00 AM  | 27.8    | 28.0 | 27.6 | 1.7              | 2.1 | S              | 30     |
| 07/06/06   | 3:30 AM  | 27.3    | 27.4 | 27.1 | 2.4              | 3.0 | SW             | 30     |
| 07/06/06   | 4:00 AM  | 27.3    | 27.4 | 27.1 | 3.6              | 3.9 | SW             | 30     |
| 07/06/06   | 4:30 AM  | 27.4    | 27.4 | 27.3 | 2.2              | 2.8 | SW             | 30     |
| 07/06/06   | 5:00 AM  | 27.4    | 27.6 | 27.2 | 1.5              | 3.7 | SW             | 30     |
| 07/06/06   | 5:30 AM  | 27.4    | 27.8 | 27.3 | 3.2              | 4.8 | S              | 30     |
| 07/06/06   | 6:00 AM  | 27.4    | 27.7 | 27.3 | 2.0              | 4.3 | SW             | 30     |
| 07/06/06   | 6:30 AM  | 27.5    | 27.9 | 27.3 | 2.4              | 4.0 | SW             | 30     |
| 07/06/06   | 7:00 AM  | 27.8    | 28.0 | 27.7 | 2.3              | 4.3 | SW             | 30     |
| 07/06/06   | 7:30 AM  | 28.1    | 28.3 | 27.9 | 2.2              | 3.4 | S              | 30     |
| 07/06/06   | 8:00 AM  | 28.2    | 28.2 | 28.2 | 3.2              | 5.4 | S              | 30     |
| 07/06/06   | 8:30 AM  | 28.1    | 28.3 | 28.0 | 2.3              | 3.9 | SW             | 30     |
| 07/06/06   | 9:00 AM  | 28.3    | 28.4 | 28.0 | 2.2              | 2.6 | SW             | 30     |
| 07/06/06   | 9:30 AM  | 28.3    | 28.5 | 28.0 | 2.4              | 3.5 | S              | 30     |
| 07/06/06   | 10:00 AM | 28.4    | 28.7 | 28.3 | 3.2              | 4.3 | S              | 30     |
| 07/06/06   | 10:30 AM | 28.5    | 28.6 | 28.3 | 2.6              | 3.4 | SW             | 30     |
| 07/06/06   | 11:00 AM | 28.5    | 28.5 | 28.2 | 1.6              | 3.6 | S              | 30     |
| 07/06/06   | 11:30 AM | 28.4    | 29.8 | 29.1 | 1.4              | 1.7 | SW             | 30     |
| 07/06/06   | 12:00 PM | 28.7    | 28.8 | 28.6 | 1.8              | 3.9 | S              | 30     |
| 07/06/06   | 12:30 PM | 28.8    | 29.2 | 28.5 | 2.1              | 4.3 | SW             | 30     |
| 07/06/06   | 1:00 PM  | 29.1    | 29.3 | 29.0 | 2.6              | 2.8 | S              | 30     |
| 07/06/06   | 1:30 PM  | 29.4    | 29.5 | 29.3 | 3.0              | 4.1 | SW             | 30     |
| 07/06/06   | 2:00 PM  | 29.7    | 29.7 | 29.4 | 4.4              | 4.5 | SW             | 30     |
| 07/06/06   | 2:30 PM  | 29.5    | 29.6 | 29.5 | 2.1              | 3.2 | S              | 30     |
| 07/06/06   | 3:00 PM  | 29.2    | 29.5 | 29.1 | 2.3              | 3.9 | SW             | 30     |
| 07/06/06   | 3:30 PM  | 29.2    | 29.3 | 29.1 | 3.5              | 5.3 | SW             | 30     |
| 07/06/06   | 4:00 PM  | 29.1    | 29.3 | 28.9 | 1.6              | 2.1 | SW             | 30     |
| 07/06/06   | 4:30 PM  | 29.1    | 29.1 | 29.1 | 2.4              | 4.1 | SW             | 30     |
| 07/06/06   | 5:00 PM  | 28.8    | 29.0 | 28.8 | 1.9              | 2.5 | SW             | 30     |
| 07/06/06   | 5:30 PM  | 28.6    | 28.8 | 28.6 | 1.5              | 1.7 | SW             | 30     |
| 07/06/06   | 6:00 PM  | 28.6    | 28.8 | 28.3 | 1.8              | 3.2 | SW             | 30     |
| 07/06/06   | 6:30 PM  | 28.6    | 28.7 | 28.5 | 1.7              | 2.3 | S              | 30     |
| 07/06/06   | 7:00 PM  | 28.4    | 28.5 | 28.2 | 1.5              | 1.9 | SW             | 30     |
| 07/06/06   | 7:30 PM  | 28.4    | 28.5 | 28.2 | 2.9              | 5.1 | SW             | 30     |
| 07/06/06   | 8:00 PM  | 28.2    | 28.6 | 28.1 | 1.2              | 1.5 | SW             | 30     |
| 07/06/06   | 8:30 PM  | 28.3    | 28.5 | 28.2 | 1.6              | 2.4 | S              | 30     |
| 07/06/06   | 9:00 PM  | 28.2    | 28.3 | 28.0 | 1.3              | 2.0 | S              | 30     |
| 07/06/06   | 9:30 PM  | 28.3    | 28.4 | 28.2 | 1.9              | 2.4 | S              | 30     |
| 07/06/06   | 10:00 PM | 28.2    | 28.3 | 28.1 | 2.1              | 3.2 | S              | 30     |
| 07/06/06   | 10:30 PM | 28.2    | 28.3 | 28.1 | 1.5              | 3.2 | S              | 30     |
| 07/06/06   | 11:00 PM | 28.3    | 28.6 | 28.1 | 1.2              | 3.5 | S              | 30     |
| 07/06/06   | 11:30 PM | 28.3    | 28.3 | 28.2 | 1.9              | 4.0 | S              | 30     |
| 08/06/06   | 12:00 AM | 28.3    | 28.3 | 28.0 | 2.2              | 2.7 | SW             | 30     |
| 08/06/06   | 12:30 AM | 28.3    | 28.6 | 28.2 | 2.1              | 2.6 | S              | 30     |
| 08/06/06   | 1:00 AM  | 28.2    | 28.3 | 28.0 | 1.8              | 3.3 | SW             | 30     |
| 08/06/06   | 1:30 AM  | 28.3    | 28.5 | 28.3 | 2.3              | 4.0 | SW             | 30     |
| 08/06/06   | 2:00 AM  | 28.2    | 28.4 | 27.9 | 3.2              | 3.9 | SW             | 30     |
| 08/06/06   | 2:30 AM  | 28.2    | 28.6 | 27.9 | 2.7              | 3.4 | SW             | 30     |
| 08/06/06   | 3:00 AM  | 28.1    | 28.3 | 27.8 | 2.2              | 4.0 | SW             | 30     |
| 08/06/06   | 3:30 AM  | 28.2    | 28.6 | 27.9 | 1.8              | 3.4 | SW             | 30     |
| 08/06/06   | 4:00 AM  | 28.1    | 28.3 | 27.8 | 2.0              | 4.0 | SW             | 30     |
| 08/06/06   | 4:30 AM  | 28.1    | 28.3 | 27.9 | 1.8              | 3.5 | SW             | 30     |
| 08/06/06   | 5:00 AM  | 28.1    | 28.2 | 28.0 | 1.3              | 3.5 | SW             | 30     |
| 08/06/06   | 5:30 AM  | 28.1    | 28.3 | 28.0 | 2.0              | 4.0 | SW             | 30     |
| 08/06/06   | 6:00 AM  | 28.2    | 28.4 | 28.2 | 3.3              | 4.1 | SW             | 30     |
| 08/06/06   | 6:30 AM  | 28.2    | 28.5 | 28.1 | 1.8              | 2.2 | SW             | 30     |
| 08/06/06   | 7:00 AM  | 28.2    | 28.6 | 28.2 | 2.9              | 4.5 | SW             | 30     |
| 08/06/06   | 7:30 AM  | 27.8    | 28.1 | 27.7 | 2.3              | 2.3 | SW             | 30     |
| 08/06/06   | 8:00 AM  | 28.1    | 28.3 | 27.9 | 2.9              | 5.0 | S              | 30     |
| 08/06/06   | 8:30 AM  | 27.9    | 28.2 | 27.7 | 2.3              | 3.9 | SW             | 30     |
| 08/06/06   | 9:00 AM  | 28.1    | 28.4 | 27.9 | 3.5              | 4.4 | SW             | 30     |
| 08/06/06   | 9:30 AM  | 28.2    | 28.3 | 28.1 | 1.8              | 1.8 | SW             | 30     |
| 08/06/06   | 10:00 AM | 28.2    | 28.3 | 28.2 | 2.6              | 3.1 | S              | 30     |
| 08/06/06   | 10:30 AM | 28.3    | 28.6 | 28.3 | 1.9              | 2.9 | SW             | 30     |
| 08/06/06   | 11:00 AM | 28.4    | 28.5 | 28.3 | 2.1              | 4.0 | S              | 30     |
| 08/06/06   | 11:30 AM | 28.5    | 28.5 | 28.2 | 2.1              | 3.8 | S              | 30     |
| 08/06/06   | 12:00 PM | 28.6    | 29.0 | 28.4 | 2.4              | 4.3 | SW             | 30     |
| 08/06/06   | 12:30 PM | 28.8    | 29.1 | 28.6 | 2.7              | 4.8 | SW             | 30     |
| 08/06/06   | 1:00 PM  | 29.0    | 29.1 | 28.7 | 2.8              | 4.7 | S              | 30     |
| 08/06/06   | 1:30 PM  | 29.3    | 29.6 | 29.0 | 4.1              | 5.8 | S              | 30     |
| 08/06/06   | 2:00 PM  | 29.1    | 29.4 | 28.8 | 4.4              | 6.1 | SW             | 30     |
| 08/06/06   | 2:30 PM  | 29.2    | 29.3 | 29.0 | 3.9              | 3.9 | SW             | 30     |
| 08/06/06   | 3:00 PM  | 28.8    | 28.9 | 28.7 | 1.8              | 2.9 | S              | 30     |
| 08/06/06   | 3:30 PM  | 28.9    | 29.1 | 28.7 | 2.6              | 3.9 | S              | 30     |
| 08/06/06   | 4:00 PM  | 28.5    | 28.8 | 28.3 | 3.2              | 4.5 | SW             | 30     |
| 08/06/06   | 4:30 PM  | 28.5    | 28.8 | 28.2 | 2.0              | 3.0 | S              | 30     |
| 08/06/06   | 5:00 PM  | 28.5    | 28.8 | 28.3 | 2.7              | 4.6 | S              | 30     |
| 08/06/06   | 5:30 PM  | 28.6    | 28.8 | 28.4 | 1.5              | 2.6 | SW             | 30     |
| 08/06/06   | 6:00 PM  | 28.5    | 28.7 | 28.2 | 3.0              | 3.2 | SW             | 30     |
| 08/06/06   | 6:30 PM  | 28.5    | 28.8 | 28.4 | 2.5              | 4.2 | S              | 30     |
| 08/06/06   | 7:00 PM  | 28.5    | 28.9 | 28.3 | 1.2              | 3.2 | SW             | 30     |
| 08/06/06   | 7:30 PM  | 28.5    | 28.7 | 28.4 | 3.9              | 5.6 | SW             | 30     |
| 08/06/06   | 8:00 PM  | 28.2    | 28.2 | 27.9 | 2.7              | 4.3 | SW             | 30     |
| 08/06/06   | 8:30 PM  | 28.0    | 28.1 | 27.8 | 0.6              | 1.5 | W              | 30     |
| 08/06/06   | 9:00 PM  | 27.9    | 28.0 | 27.9 | 1.2              | 2.3 | SW             | 30     |
| 08/06/06   | 9:30 PM  | 27.7    | 28.0 | 27.5 | 2.6              | 3.2 | S              | 30     |
| 08/06/06   | 10:00 PM | 27.5    | 27.8 | 27.4 | 1.6              | 2.9 | SW             | 30     |
| 08/06/06   | 10:30 PM | 27.4    | 27.4 | 27.2 | 0.8              | 1.8 | SW             | 30     |
| 08/06/06   | 11:00 PM | 27.3    | 27.6 | 27.1 | 2.8              | 3.9 | S              | 30     |
| 08/06/06   | 11:30 PM | 27.1    | 27.3 | 27.1 | 0.4              | 2.2 | NW             | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 09/06/06   | 12:00 AM | 27.3    | 27.5 | 27.2 | 1.5              | 2.0 | SW        | 30     |
| 09/06/06   | 12:30 AM | 27.2    | 27.4 | 27.0 | 3.4              | 4.7 | SW        | 30     |
| 09/06/06   | 1:00 AM  | 27.3    | 27.7 | 27.1 | 1.1              | 2.9 | S         | 30     |
| 09/06/06   | 1:30 AM  | 27.4    | 27.6 | 27.2 | 1.2              | 1.6 | SE        | 30     |
| 09/06/06   | 2:00 AM  | 27.2    | 27.2 | 27.1 | 2.3              | 2.3 | SW        | 30     |
| 09/06/06   | 2:30 AM  | 27.2    | 27.4 | 27.0 | 1.3              | 3.1 | S         | 30     |
| 09/06/06   | 3:00 AM  | 27.3    | 27.4 | 27.0 | 1.5              | 2.9 | SW        | 30     |
| 09/06/06   | 3:30 AM  | 27.4    | 27.8 | 27.1 | 2.7              | 4.7 | S         | 30     |
| 09/06/06   | 4:00 AM  | 27.4    | 27.7 | 27.2 | 1.9              | 2.3 | S         | 30     |
| 09/06/06   | 4:30 AM  | 27.6    | 27.7 | 27.5 | 2.6              | 3.5 | SW        | 30     |
| 09/06/06   | 5:00 AM  | 27.6    | 27.6 | 27.4 | 1.8              | 2.0 | SW        | 30     |
| 09/06/06   | 5:30 AM  | 27.7    | 28.1 | 27.5 | 2.8              | 3.1 | SW        | 30     |
| 09/06/06   | 6:00 AM  | 27.5    | 27.8 | 27.5 | 1.5              | 3.1 | SW        | 30     |
| 09/06/06   | 6:30 AM  | 27.3    | 27.7 | 27.2 | 1.6              | 3.1 | SW        | 30     |
| 09/06/06   | 7:00 AM  | 27.0    | 27.2 | 26.7 | 0.8              | 0.9 | SW        | 30     |
| 09/06/06   | 7:30 AM  | 27.2    | 27.5 | 27.1 | 1.5              | 1.7 | SW        | 30     |
| 09/06/06   | 8:00 AM  | 27.2    | 27.6 | 26.9 | 2.4              | 3.8 | S         | 30     |
| 09/06/06   | 8:30 AM  | 27.5    | 27.7 | 27.3 | 2.6              | 2.8 | SW        | 30     |
| 09/06/06   | 9:00 AM  | 27.3    | 27.6 | 27.2 | 1.1              | 1.2 | S         | 30     |
| 09/06/06   | 9:30 AM  | 27.5    | 27.5 | 27.3 | 2.3              | 3.3 | SW        | 30     |
| 09/06/06   | 10:00 AM | 26.7    | 26.9 | 26.6 | 0.6              | 1.2 | NW        | 30     |
| 09/06/06   | 10:30 AM | 26.8    | 26.9 | 26.8 | 2.2              | 3.6 | SW        | 30     |
| 09/06/06   | 11:00 AM | 26.1    | 26.3 | 26.0 | 3.1              | 4.9 | SW        | 30     |
| 09/06/06   | 11:30 AM | 25.8    | 26.0 | 25.6 | 2.5              | 2.8 | S         | 30     |
| 09/06/06   | 12:00 PM | 25.4    | 25.6 | 25.2 | 1.0              | 2.8 | W         | 30     |
| 09/06/06   | 12:30 PM | 25.3    | 25.6 | 25.0 | 1.5              | 3.5 | SW        | 30     |
| 09/06/06   | 1:00 PM  | 25.3    | 25.5 | 25.0 | 3.3              | 3.9 | SW        | 30     |
| 09/06/06   | 1:30 PM  | 25.3    | 25.7 | 25.1 | 1.5              | 3.1 | SW        | 30     |
| 09/06/06   | 2:00 PM  | 25.1    | 25.4 | 25.1 | 1.7              | 2.4 | N         | 30     |
| 09/06/06   | 2:30 PM  | 24.2    | 24.3 | 24.0 | 0.5              | 2.6 | N         | 30     |
| 09/06/06   | 3:00 PM  | 24.5    | 24.7 | 24.3 | 0.8              | 1.1 | NWW       | 30     |
| 09/06/06   | 3:30 PM  | 24.8    | 25.0 | 24.7 | 1.6              | 3.7 | SW        | 30     |
| 09/06/06   | 4:00 PM  | 24.8    | 24.9 | 24.6 | 0.6              | 1.0 | SW        | 30     |
| 09/06/06   | 4:30 PM  | 24.9    | 25.0 | 24.7 | 0.3              | 0.9 | N         | 30     |
| 09/06/06   | 5:00 PM  | 25.0    | 25.1 | 24.9 | 1.6              | 1.9 | W         | 30     |
| 09/06/06   | 5:30 PM  | 25.2    | 25.5 | 25.0 | 0.1              | 1.0 | N         | 30     |
| 09/06/06   | 6:00 PM  | 25.0    | 25.0 | 25.0 | 0.1              | 0.9 | N         | 30     |
| 09/06/06   | 6:30 PM  | 25.1    | 25.2 | 25.0 | 1.7              | 3.4 | NEN       | 30     |
| 09/06/06   | 7:00 PM  | 24.7    | 24.8 | 24.6 | 1.6              | 1.7 | NEN       | 30     |
| 09/06/06   | 7:30 PM  | 24.8    | 25.1 | 24.8 | 0.1              | 0.8 | N         | 30     |
| 09/06/06   | 8:00 PM  | 25.1    | 25.2 | 24.9 | 0.2              | 1.8 | NW        | 30     |
| 09/06/06   | 8:30 PM  | 25.5    | 25.7 | 25.3 | 0.8              | 2.1 | W         | 30     |
| 09/06/06   | 9:00 PM  | 27.2    | 27.4 | 27.1 | 2.5              | 3.8 | SW        | 30     |
| 09/06/06   | 9:30 PM  | 25.1    | 25.1 | 25.0 | 2.4              | 4.4 | SW        | 30     |
| 09/06/06   | 10:00 PM | 24.5    | 24.9 | 24.3 | 0.7              | 2.8 | SW        | 30     |
| 09/06/06   | 10:30 PM | 24.6    | 24.9 | 24.5 | 0.0              | 0.0 | N         | 30     |
| 09/06/06   | 11:00 PM | 24.5    | 24.6 | 24.5 | 0.8              | 2.3 | NW        | 30     |
| 09/06/06   | 11:30 PM | 24.3    | 24.6 | 24.1 | 0.6              | 2.1 | NWW       | 30     |
| 10/06/06   | 12:00 AM | 24.3    | 24.6 | 24.3 | 0.1              | 1.4 | W         | 30     |
| 10/06/06   | 12:30 AM | 24.3    | 24.4 | 24.2 | 0.7              | 1.7 | SW        | 30     |
| 10/06/06   | 1:00 AM  | 24.2    | 24.3 | 24.1 | 0.3              | 1.0 | W         | 30     |
| 10/06/06   | 1:30 AM  | 24.2    | 24.4 | 23.9 | 0.7              | 1.5 | W         | 30     |
| 10/06/06   | 2:00 AM  | 24.2    | 24.3 | 23.9 | 0.1              | 0.8 | N         | 30     |
| 10/06/06   | 2:30 AM  | 24.3    | 24.5 | 24.0 | 0.3              | 1.3 | SW        | 30     |
| 10/06/06   | 3:00 AM  | 24.5    | 24.8 | 24.3 | 1.7              | 3.7 | SW        | 30     |
| 10/06/06   | 3:30 AM  | 24.3    | 24.5 | 24.2 | 1.5              | 3.5 | W         | 30     |
| 10/06/06   | 4:00 AM  | 24.0    | 24.3 | 23.9 | 1.5              | 2.7 | SW        | 30     |
| 10/06/06   | 4:30 AM  | 23.8    | 23.9 | 23.6 | 1.8              | 1.9 | W         | 30     |
| 10/06/06   | 5:00 AM  | 23.7    | 23.9 | 23.6 | 0.8              | 2.5 | SW        | 30     |
| 10/06/06   | 5:30 AM  | 23.4    | 23.6 | 23.4 | 1.7              | 3.0 | SW        | 30     |
| 10/06/06   | 6:00 AM  | 23.4    | 23.7 | 23.1 | 0.7              | 1.1 | W         | 30     |
| 10/06/06   | 6:30 AM  | 23.3    | 23.6 | 23.2 | 1.5              | 2.1 | SW        | 30     |
| 10/06/06   | 7:00 AM  | 23.2    | 23.5 | 23.2 | 1.6              | 3.6 | W         | 30     |
| 10/06/06   | 7:30 AM  | 23.1    | 23.2 | 22.9 | 1.0              | 1.6 | SW        | 30     |
| 10/06/06   | 8:00 AM  | 23.1    | 23.1 | 23.0 | 1.7              | 3.3 | SW        | 30     |
| 10/06/06   | 8:30 AM  | 23.3    | 23.5 | 23.2 | 0.6              | 1.5 | W         | 30     |
| 10/06/06   | 9:00 AM  | 23.5    | 23.9 | 23.3 | 1.0              | 1.8 | NEN       | 30     |
| 10/06/06   | 9:30 AM  | 23.5    | 23.5 | 23.4 | 0.6              | 1.7 | N         | 30     |
| 10/06/06   | 10:00 AM | 23.8    | 23.9 | 23.7 | 0.1              | 1.7 | N         | 30     |
| 10/06/06   | 10:30 AM | 24.0    | 24.2 | 23.9 | 1.7              | 3.9 | N         | 30     |
| 10/06/06   | 11:00 AM | 24.3    | 24.6 | 24.1 | 1.5              | 2.4 | NWN       | 30     |
| 10/06/06   | 11:30 AM | 24.7    | 24.8 | 24.5 | 0.9              | 2.7 | NW        | 30     |
| 10/06/06   | 12:00 PM | 24.9    | 25.1 | 24.8 | 1.2              | 2.5 | NWN       | 30     |
| 10/06/06   | 12:30 PM | 25.0    | 25.1 | 24.8 | 1.9              | 3.8 | NWN       | 30     |
| 10/06/06   | 1:00 PM  | 24.9    | 25.1 | 24.7 | 1.2              | 1.6 | NWN       | 30     |
| 10/06/06   | 1:30 PM  | 25.0    | 25.3 | 24.9 | 0.8              | 1.7 | N         | 30     |
| 10/06/06   | 2:00 PM  | 24.8    | 24.9 | 24.5 | 0.7              | 1.7 | N         | 30     |
| 10/06/06   | 2:30 PM  | 24.8    | 24.9 | 24.5 | 1.3              | 2.9 | N         | 30     |
| 10/06/06   | 3:00 PM  | 24.8    | 25.1 | 24.7 | 1.9              | 3.8 | NWN       | 30     |
| 10/06/06   | 3:30 PM  | 24.7    | 25.1 | 24.6 | 0.7              | 0.9 | NWN       | 30     |
| 10/06/06   | 4:00 PM  | 24.8    | 25.0 | 24.6 | 0.2              | 0.9 | NWN       | 30     |
| 10/06/06   | 4:30 PM  | 24.8    | 24.9 | 24.6 | 0.9              | 2.2 | NW        | 30     |
| 10/06/06   | 5:00 PM  | 24.5    | 24.5 | 24.4 | 1.1              | 3.0 | NW        | 30     |
| 10/06/06   | 5:30 PM  | 24.6    | 24.6 | 24.4 | 1.6              | 3.1 | NWN       | 30     |
| 10/06/06   | 6:00 PM  | 24.6    | 24.6 | 24.4 | 0.5              | 2.6 | NWN       | 30     |
| 10/06/06   | 6:30 PM  | 24.6    | 25.0 | 24.3 | 1.8              | 3.0 | NWN       | 30     |
| 10/06/06   | 7:00 PM  | 24.4    | 24.6 | 24.1 | 1.2              | 2.3 | NW        | 30     |
| 10/06/06   | 7:30 PM  | 24.3    | 24.6 | 24.1 | 1.9              | 2.4 | NW        | 30     |
| 10/06/06   | 8:00 PM  | 24.0    | 24.3 | 23.9 | 2.4              | 4.6 | NW        | 30     |
| 10/06/06   | 8:30 PM  | 23.7    | 23.9 | 23.5 | 1.2              | 2.9 | NW        | 30     |
| 10/06/06   | 9:00 PM  | 23.4    | 23.7 | 23.1 | 0.8              | 2.4 | NW        | 30     |
| 10/06/06   | 9:30 PM  | 23.2    | 23.4 | 23.0 | 0.9              | 1.5 | NW        | 30     |
| 10/06/06   | 10:00 PM | 23.0    | 23.3 | 23.0 | 1.2              | 3.3 | NWW       | 30     |
| 10/06/06   | 10:30 PM | 23.0    | 23.0 | 22.8 | 1.7              | 2.3 | NW        | 30     |
| 10/06/06   | 11:00 PM | 22.5    | 22.8 | 22.2 | 1.6              | 2.8 | NWW       | 30     |
| 10/06/06   | 11:30 PM | 22.2    | 22.5 | 22.0 | 0.8              | 0.9 | NW        | 30     |



### Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 11/06/06   | 12:00 AM | 21.9    | 22.0 | 21.7 | 0.5              | 0.9 | NWW       | 30     |
| 11/06/06   | 12:30 AM | 21.9    | 22.1 | 21.7 | 1.3              | 1.6 | NW        | 30     |
| 11/06/06   | 1:00 AM  | 21.8    | 22.0 | 21.7 | 1.8              | 3.8 | NE        | 30     |
| 11/06/06   | 1:30 AM  | 21.7    | 21.8 | 21.5 | 1.4              | 1.7 | N         | 30     |
| 11/06/06   | 2:00 AM  | 21.6    | 21.8 | 21.5 | 0.6              | 1.7 | NE        | 30     |
| 11/06/06   | 2:30 AM  | 21.6    | 21.6 | 21.5 | 1.2              | 1.8 | NEE       | 30     |
| 11/06/06   | 3:00 AM  | 21.6    | 21.7 | 21.6 | 2.1              | 3.8 | E         | 30     |
| 11/06/06   | 3:30 AM  | 21.7    | 22.1 | 21.4 | 1.3              | 3.2 | E         | 30     |
| 11/06/06   | 4:00 AM  | 21.6    | 21.8 | 21.4 | 1.9              | 2.0 | NEE       | 30     |
| 11/06/06   | 4:30 AM  | 21.6    | 21.8 | 21.4 | 2.2              | 3.3 | NEE       | 30     |
| 11/06/06   | 5:00 AM  | 21.5    | 21.8 | 21.5 | 1.5              | 3.2 | E         | 30     |
| 11/06/06   | 5:30 AM  | 21.5    | 21.8 | 21.3 | 1.9              | 2.5 | E         | 30     |
| 11/06/06   | 6:00 AM  | 21.8    | 22.0 | 21.7 | 1.4              | 1.6 | E         | 30     |
| 11/06/06   | 6:30 AM  | 22.0    | 22.1 | 21.8 | 1.7              | 2.0 | E         | 30     |
| 11/06/06   | 7:00 AM  | 22.3    | 22.3 | 22.2 | 1.0              | 1.1 | NEE       | 30     |
| 11/06/06   | 7:30 AM  | 22.6    | 22.7 | 22.4 | 1.5              | 3.8 | E         | 30     |
| 11/06/06   | 8:00 AM  | 22.5    | 22.5 | 22.4 | 0.8              | 2.3 | E         | 30     |
| 11/06/06   | 8:30 AM  | 22.5    | 22.6 | 22.3 | 0.3              | 0.6 | E         | 30     |
| 11/06/06   | 9:00 AM  | 22.5    | 22.6 | 22.2 | 1.9              | 3.0 | E         | 30     |
| 11/06/06   | 9:30 AM  | 23.0    | 23.1 | 23.0 | 1.2              | 1.2 | E         | 30     |
| 11/06/06   | 10:00 AM | 23.5    | 23.7 | 23.5 | 1.8              | 3.1 | E         | 30     |
| 11/06/06   | 10:30 AM | 24.0    | 24.2 | 23.9 | 2.3              | 3.3 | NEE       | 30     |
| 11/06/06   | 11:00 AM | 24.9    | 25.3 | 24.6 | 2.6              | 2.8 | E         | 30     |
| 11/06/06   | 11:30 AM | 25.3    | 25.6 | 25.2 | 2.5              | 2.8 | NE        | 30     |
| 11/06/06   | 12:00 PM | 25.3    | 25.4 | 25.2 | 1.7              | 3.9 | E         | 30     |
| 11/06/06   | 12:30 PM | 25.5    | 25.8 | 25.5 | 1.7              | 3.8 | SEE       | 30     |
| 11/06/06   | 1:00 PM  | 26.5    | 26.6 | 26.3 | 3.2              | 4.5 | NE        | 30     |
| 11/06/06   | 1:30 PM  | 26.8    | 27.0 | 26.8 | 2.9              | 4.9 | NE        | 30     |
| 11/06/06   | 2:00 PM  | 25.9    | 26.1 | 25.7 | 1.9              | 3.7 | SE        | 30     |
| 11/06/06   | 2:30 PM  | 25.3    | 25.3 | 25.1 | 1.8              | 3.2 | SE        | 30     |
| 11/06/06   | 3:00 PM  | 24.9    | 25.0 | 24.9 | 1.7              | 1.7 | N         | 30     |
| 11/06/06   | 3:30 PM  | 24.5    | 24.7 | 24.5 | 1.6              | 3.6 | NE        | 30     |
| 11/06/06   | 4:00 PM  | 23.0    | 23.3 | 22.8 | 0.8              | 1.7 | NE        | 30     |
| 11/06/06   | 4:30 PM  | 22.5    | 22.8 | 22.2 | 3.3              | 3.6 | NEN       | 30     |
| 11/06/06   | 5:00 PM  | 22.0    | 22.2 | 21.8 | 2.4              | 2.5 | N         | 30     |
| 11/06/06   | 5:30 PM  | 21.9    | 22.1 | 21.6 | 2.3              | 3.3 | NE        | 30     |
| 11/06/06   | 6:00 PM  | 21.8    | 21.9 | 21.7 | 1.8              | 3.6 | N         | 30     |
| 11/06/06   | 6:30 PM  | 21.7    | 22.0 | 21.6 | 3.2              | 4.1 | NEN       | 30     |
| 11/06/06   | 7:00 PM  | 21.7    | 21.9 | 21.7 | 3.5              | 5.8 | NEN       | 30     |
| 11/06/06   | 7:30 PM  | 21.8    | 21.9 | 21.8 | 2.6              | 4.9 | NEN       | 30     |
| 11/06/06   | 8:00 PM  | 22.0    | 22.4 | 21.8 | 1.7              | 3.9 | N         | 30     |
| 11/06/06   | 8:30 PM  | 21.8    | 22.2 | 21.6 | 3.3              | 4.0 | NEN       | 30     |
| 11/06/06   | 9:00 PM  | 21.8    | 21.9 | 21.7 | 1.8              | 3.8 | N         | 30     |
| 11/06/06   | 9:30 PM  | 21.5    | 21.7 | 21.3 | 2.0              | 2.6 | N         | 30     |
| 11/06/06   | 10:00 PM | 21.1    | 21.2 | 20.8 | 0.6              | 2.2 | N         | 30     |
| 11/06/06   | 10:30 PM | 21.5    | 21.5 | 21.4 | 2.4              | 3.3 | N         | 30     |
| 11/06/06   | 11:00 PM | 22.8    | 23.1 | 22.5 | 2.5              | 4.5 | N         | 30     |
| 11/06/06   | 11:30 PM | 22.2    | 22.4 | 22.2 | 0.6              | 1.3 | N         | 30     |
| 12/06/06   | 12:00 AM | 22.2    | 22.5 | 22.0 | 0.2              | 1.8 | N         | 30     |
| 12/06/06   | 12:30 AM | 22.4    | 22.8 | 22.2 | 1.7              | 1.9 | NEN       | 30     |
| 12/06/06   | 1:00 AM  | 22.1    | 22.3 | 21.8 | 1.5              | 1.8 | NEE       | 30     |
| 12/06/06   | 1:30 AM  | 22.1    | 22.4 | 22.1 | 1.4              | 1.8 | N         | 30     |
| 12/06/06   | 2:00 AM  | 22.2    | 22.3 | 22.1 | 1.0              | 1.4 | N         | 30     |
| 12/06/06   | 2:30 AM  | 22.1    | 22.5 | 21.9 | 1.7              | 2.8 | NEN       | 30     |
| 12/06/06   | 3:00 AM  | 22.1    | 22.4 | 22.0 | 0.9              | 1.7 | N         | 30     |
| 12/06/06   | 3:30 AM  | 22.1    | 22.3 | 22.1 | 1.0              | 2.7 | N         | 30     |
| 12/06/06   | 4:00 AM  | 22.2    | 22.2 | 21.9 | 0.8              | 1.1 | N         | 30     |
| 12/06/06   | 4:30 AM  | 22.3    | 22.3 | 22.2 | 1.2              | 1.7 | NEN       | 30     |
| 12/06/06   | 5:00 AM  | 22.4    | 22.6 | 22.1 | 0.2              | 1.2 | NE        | 30     |
| 12/06/06   | 5:30 AM  | 22.4    | 22.6 | 22.1 | 0.1              | 0.5 | N         | 30     |
| 12/06/06   | 6:00 AM  | 22.4    | 22.6 | 22.2 | 1.5              | 1.8 | N         | 30     |
| 12/06/06   | 6:30 AM  | 22.6    | 22.8 | 22.5 | 0.0              | 2.1 | N         | 30     |
| 12/06/06   | 7:00 AM  | 22.8    | 22.8 | 22.8 | 0.0              | 2.2 | N         | 30     |
| 12/06/06   | 7:30 AM  | 23.1    | 23.1 | 23.0 | 0.0              | 0.7 | N         | 30     |
| 12/06/06   | 8:00 AM  | 23.1    | 23.4 | 22.9 | 2.3              | 4.5 | NEE       | 30     |
| 12/06/06   | 8:30 AM  | 22.2    | 22.5 | 22.0 | 0.8              | 2.1 | SEE       | 30     |
| 12/06/06   | 9:00 AM  | 23.8    | 24.0 | 23.8 | 1.7              | 3.9 | N         | 30     |
| 12/06/06   | 9:30 AM  | 24.0    | 24.4 | 24.0 | 0.8              | 2.7 | NE        | 30     |
| 12/06/06   | 10:00 AM | 23.5    | 23.9 | 23.5 | 1.6              | 3.4 | N         | 30     |
| 12/06/06   | 10:30 AM | 23.5    | 23.5 | 23.3 | 1.7              | 3.8 | NE        | 30     |
| 12/06/06   | 11:00 AM | 23.5    | 23.7 | 23.4 | 0.4              | 1.6 | N         | 30     |
| 12/06/06   | 11:30 AM | 23.5    | 23.6 | 23.5 | 1.7              | 2.3 | NE        | 30     |
| 12/06/06   | 12:00 PM | 23.2    | 23.5 | 23.2 | 0.6              | 2.0 | N         | 30     |
| 12/06/06   | 12:30 PM | 23.8    | 24.0 | 23.7 | 1.5              | 3.2 | NEE       | 30     |
| 12/06/06   | 1:00 PM  | 23.8    | 24.1 | 23.6 | 0.6              | 1.8 | NEE       | 30     |
| 12/06/06   | 1:30 PM  | 24.1    | 24.3 | 23.8 | 1.7              | 2.0 | NEN       | 30     |
| 12/06/06   | 2:00 PM  | 24.0    | 24.1 | 23.9 | 1.8              | 3.8 | NEN       | 30     |
| 12/06/06   | 2:30 PM  | 24.0    | 24.2 | 23.8 | 0.8              | 2.6 | NEN       | 30     |
| 12/06/06   | 3:00 PM  | 24.1    | 24.4 | 23.9 | 0.4              | 2.5 | N         | 30     |
| 12/06/06   | 3:30 PM  | 24.2    | 24.5 | 24.1 | 0.2              | 0.7 | N         | 30     |
| 12/06/06   | 4:00 PM  | 24.2    | 24.6 | 24.0 | 0.2              | 0.2 | N         | 30     |
| 12/06/06   | 4:30 PM  | 24.6    | 25.0 | 24.4 | 0.2              | 2.0 | N         | 30     |
| 12/06/06   | 5:00 PM  | 24.6    | 24.8 | 24.5 | 1.2              | 2.3 | N         | 30     |
| 12/06/06   | 5:30 PM  | 24.2    | 24.6 | 24.1 | 1.8              | 4.0 | N         | 30     |
| 12/06/06   | 6:00 PM  | 24.3    | 24.7 | 24.2 | 0.9              | 2.6 | N         | 30     |
| 12/06/06   | 6:30 PM  | 24.3    | 24.5 | 24.1 | 0.8              | 1.8 | N         | 30     |
| 12/06/06   | 7:00 PM  | 24.2    | 24.3 | 24.1 | 1.2              | 2.7 | N         | 30     |
| 12/06/06   | 7:30 PM  | 24.1    | 24.3 | 23.9 | 1.1              | 1.5 | N         | 30     |
| 12/06/06   | 8:00 PM  | 24.1    | 24.2 | 24.0 | 1.3              | 3.6 | N         | 30     |
| 12/06/06   | 8:30 PM  | 24.1    | 24.3 | 23.8 | 0.6              | 2.3 | N         | 30     |
| 12/06/06   | 9:00 PM  | 24.0    | 24.2 | 24.0 | 0.6              | 2.7 | N         | 30     |
| 12/06/06   | 9:30 PM  | 24.0    | 24.2 | 23.9 | 0.0              | 0.9 | N         | 30     |
| 12/06/06   | 10:00 PM | 24.0    | 24.1 | 23.8 | 0.7              | 1.0 | N         | 30     |
| 12/06/06   | 10:30 PM | 24.1    | 24.3 | 23.8 | 0.4              | 1.1 | N         | 30     |
| 12/06/06   | 11:00 PM | 24.1    | 24.2 | 24.0 | 0.5              | 1.5 | N         | 30     |
| 12/06/06   | 11:30 PM | 24.2    | 24.2 | 23.9 | 0.0              | 1.0 | N         | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 13/06/06   | 12:00 AM | 24.2    | 24.3 | 24.1 | 0.0              | 0.9 | N         | 30     |
| 13/06/06   | 12:30 AM | 24.2    | 24.4 | 24.1 | 0.0              | 1.4 | N         | 30     |
| 13/06/06   | 1:00 AM  | 24.2    | 24.5 | 24.1 | 0.0              | 1.6 | N         | 30     |
| 13/06/06   | 1:30 AM  | 24.3    | 24.6 | 24.1 | 0.0              | 0.8 | N         | 30     |
| 13/06/06   | 2:00 AM  | 24.3    | 24.6 | 24.1 | 1.7              | 3.0 | NE        | 30     |
| 13/06/06   | 2:30 AM  | 24.4    | 24.5 | 24.2 | 0.5              | 0.8 | NEN       | 30     |
| 13/06/06   | 3:00 AM  | 24.4    | 24.7 | 24.1 | 0.0              | 1.6 | N         | 30     |
| 13/06/06   | 3:30 AM  | 24.4    | 24.8 | 24.1 | 0.2              | 0.7 | N         | 30     |
| 13/06/06   | 4:00 AM  | 24.5    | 24.7 | 24.5 | 0.4              | 2.0 | N         | 30     |
| 13/06/06   | 4:30 AM  | 24.6    | 24.7 | 24.5 | 0.5              | 2.8 | NEE       | 30     |
| 13/06/06   | 5:00 AM  | 24.8    | 25.1 | 24.6 | 0.0              | 1.9 | N         | 30     |
| 13/06/06   | 5:30 AM  | 24.8    | 25.1 | 24.5 | 0.0              | 2.1 | N         | 30     |
| 13/06/06   | 6:00 AM  | 24.9    | 25.3 | 24.7 | 0.1              | 0.4 | N         | 30     |
| 13/06/06   | 6:30 AM  | 24.9    | 25.2 | 24.6 | 0.0              | 1.6 | N         | 30     |
| 13/06/06   | 7:00 AM  | 25.1    | 25.5 | 24.9 | 0.1              | 1.2 | N         | 30     |
| 13/06/06   | 7:30 AM  | 25.5    | 25.6 | 25.3 | 0.1              | 0.6 | N         | 30     |
| 13/06/06   | 8:00 AM  | 26.0    | 26.4 | 25.7 | 0.0              | 1.8 | N         | 30     |
| 13/06/06   | 8:30 AM  | 26.5    | 26.7 | 26.2 | 1.7              | 3.6 | N         | 30     |
| 13/06/06   | 9:00 AM  | 27.2    | 27.3 | 27.2 | 2.4              | 4.4 | N         | 30     |
| 13/06/06   | 9:30 AM  | 27.3    | 27.6 | 27.2 | 1.9              | 2.0 | N         | 30     |
| 13/06/06   | 10:00 AM | 27.4    | 27.7 | 27.2 | 2.1              | 3.9 | N         | 30     |
| 13/06/06   | 10:30 AM | 27.4    | 27.4 | 27.4 | 2.0              | 3.2 | N         | 30     |
| 13/06/06   | 11:00 AM | 28.0    | 28.1 | 27.8 | 2.2              | 3.7 | SWS       | 30     |
| 13/06/06   | 11:30 AM | 27.8    | 27.9 | 27.6 | 1.7              | 2.0 | SWS       | 30     |
| 13/06/06   | 12:00 PM | 28.5    | 28.9 | 28.5 | 2.1              | 2.4 | SWS       | 30     |
| 13/06/06   | 12:30 PM | 28.1    | 28.3 | 27.9 | 2.9              | 4.5 | SWS       | 30     |
| 13/06/06   | 1:00 PM  | 28.2    | 28.6 | 27.9 | 1.7              | 2.6 | SWS       | 30     |
| 13/06/06   | 1:30 PM  | 29.0    | 29.3 | 28.7 | 2.8              | 4.3 | SWS       | 30     |
| 13/06/06   | 2:00 PM  | 29.5    | 29.8 | 29.4 | 2.6              | 2.7 | SWS       | 30     |
| 13/06/06   | 2:30 PM  | 29.0    | 29.3 | 29.0 | 2.8              | 4.7 | SWS       | 30     |
| 13/06/06   | 3:00 PM  | 29.0    | 29.4 | 28.8 | 2.2              | 3.6 | SWS       | 30     |
| 13/06/06   | 3:30 PM  | 28.7    | 28.9 | 28.6 | 2.6              | 3.4 | SWS       | 30     |
| 13/06/06   | 4:00 PM  | 28.4    | 28.7 | 28.4 | 2.4              | 2.7 | SWS       | 30     |
| 13/06/06   | 4:30 PM  | 28.6    | 29.0 | 28.5 | 2.0              | 2.4 | SWS       | 30     |
| 13/06/06   | 5:00 PM  | 28.3    | 28.6 | 28.1 | 2.2              | 3.8 | SWS       | 30     |
| 13/06/06   | 5:30 PM  | 28.1    | 28.2 | 27.8 | 1.6              | 3.7 | SWS       | 30     |
| 13/06/06   | 6:00 PM  | 28.0    | 28.2 | 27.8 | 1.6              | 3.2 | SWS       | 30     |
| 13/06/06   | 6:30 PM  | 27.8    | 28.1 | 27.6 | 2.7              | 4.2 | SWS       | 30     |
| 13/06/06   | 7:00 PM  | 27.8    | 27.9 | 27.8 | 1.1              | 1.7 | SWS       | 30     |
| 13/06/06   | 7:30 PM  | 27.5    | 27.7 | 27.3 | 1.5              | 3.6 | SWS       | 30     |
| 13/06/06   | 8:00 PM  | 27.2    | 27.2 | 27.0 | 1.1              | 1.2 | SWS       | 30     |
| 13/06/06   | 8:30 PM  | 27.2    | 27.5 | 26.9 | 1.7              | 1.9 | SWS       | 30     |
| 13/06/06   | 9:00 PM  | 27.2    | 27.3 | 27.0 | 1.7              | 2.9 | SWS       | 30     |
| 13/06/06   | 9:30 PM  | 27.2    | 27.3 | 27.0 | 1.7              | 3.6 | SWS       | 30     |
| 13/06/06   | 10:00 PM | 27.2    | 27.6 | 26.9 | 1.7              | 3.2 | SWS       | 30     |
| 13/06/06   | 10:30 PM | 27.1    | 27.2 | 27.1 | 1.1              | 1.9 | SWS       | 30     |
| 13/06/06   | 11:00 PM | 27.1    | 27.3 | 27.1 | 1.6              | 2.9 | SWS       | 30     |
| 13/06/06   | 11:30 PM | 27.1    | 27.5 | 27.0 | 1.7              | 3.7 | SWS       | 30     |
| 14/06/06   | 12:00 AM | 27.1    | 27.3 | 26.8 | 1.1              | 3.0 | SWS       | 30     |
| 14/06/06   | 12:30 AM | 27.1    | 27.2 | 26.8 | 1.5              | 2.0 | SWS       | 30     |
| 14/06/06   | 1:00 AM  | 27.0    | 27.0 | 26.7 | 2.1              | 4.2 | SWS       | 30     |
| 14/06/06   | 1:30 AM  | 27.0    | 27.3 | 27.0 | 1.1              | 1.3 | SWS       | 30     |
| 14/06/06   | 2:00 AM  | 26.9    | 26.9 | 26.6 | 1.1              | 2.9 | SWS       | 30     |
| 14/06/06   | 2:30 AM  | 26.9    | 27.2 | 26.7 | 1.7              | 1.9 | SWS       | 30     |
| 14/06/06   | 3:00 AM  | 26.9    | 27.2 | 26.7 | 2.1              | 3.6 | SWS       | 30     |
| 14/06/06   | 3:30 AM  | 26.9    | 27.2 | 26.8 | 1.1              | 1.8 | SWS       | 30     |
| 14/06/06   | 4:00 AM  | 26.9    | 27.1 | 26.6 | 2.2              | 3.1 | SWS       | 30     |
| 14/06/06   | 4:30 AM  | 27.0    | 27.4 | 26.9 | 2.2              | 4.4 | SWS       | 30     |
| 14/06/06   | 5:00 AM  | 26.9    | 27.1 | 26.8 | 1.7              | 3.2 | SWS       | 30     |
| 14/06/06   | 5:30 AM  | 26.5    | 26.7 | 26.3 | 2.1              | 4.0 | SWS       | 30     |
| 14/06/06   | 6:00 AM  | 26.5    | 26.8 | 26.2 | 1.7              | 3.1 | SWS       | 30     |
| 14/06/06   | 6:30 AM  | 26.6    | 26.9 | 26.4 | 1.1              | 1.3 | SWS       | 30     |
| 14/06/06   | 7:00 AM  | 27.0    | 27.1 | 27.0 | 1.5              | 3.6 | SWS       | 30     |
| 14/06/06   | 7:30 AM  | 27.2    | 27.2 | 27.0 | 2.4              | 2.5 | SWS       | 30     |
| 14/06/06   | 8:00 AM  | 27.3    | 27.5 | 27.1 | 2.2              | 2.9 | SWS       | 30     |
| 14/06/06   | 8:30 AM  | 27.8    | 27.8 | 27.7 | 1.7              | 3.2 | SWS       | 30     |
| 14/06/06   | 9:00 AM  | 27.8    | 27.9 | 27.7 | 1.6              | 3.1 | SWS       | 30     |
| 14/06/06   | 9:30 AM  | 28.4    | 28.5 | 28.3 | 1.5              | 3.2 | SWS       | 30     |
| 14/06/06   | 10:00 AM | 28.6    | 28.9 | 28.4 | 3.3              | 5.6 | SWS       | 30     |
| 14/06/06   | 10:30 AM | 28.8    | 28.9 | 28.8 | 2.4              | 3.5 | SWS       | 30     |
| 14/06/06   | 11:00 AM | 29.0    | 29.3 | 28.7 | 2.8              | 3.0 | SWS       | 30     |
| 14/06/06   | 11:30 AM | 29.6    | 29.7 | 29.5 | 2.8              | 3.0 | SWS       | 30     |
| 14/06/06   | 12:00 PM | 29.7    | 30.0 | 29.6 | 2.8              | 4.6 | SWS       | 30     |
| 14/06/06   | 12:30 PM | 29.5    | 29.6 | 29.4 | 2.4              | 2.7 | SWS       | 30     |
| 14/06/06   | 1:00 PM  | 28.8    | 28.9 | 28.7 | 2.1              | 4.3 | SWS       | 30     |
| 14/06/06   | 1:30 PM  | 29.8    | 29.8 | 29.5 | 3.3              | 3.5 | SWS       | 30     |
| 14/06/06   | 2:00 PM  | 29.1    | 29.1 | 29.0 | 3.3              | 5.1 | SWS       | 30     |
| 14/06/06   | 2:30 PM  | 29.8    | 29.9 | 29.5 | 2.6              | 4.0 | SWS       | 30     |
| 14/06/06   | 3:00 PM  | 29.2    | 29.2 | 29.1 | 2.8              | 4.7 | SWS       | 30     |
| 14/06/06   | 3:30 PM  | 29.2    | 29.5 | 28.9 | 2.8              | 5.0 | SWS       | 30     |
| 14/06/06   | 4:00 PM  | 29.1    | 29.5 | 28.9 | 2.6              | 4.2 | SWS       | 30     |
| 14/06/06   | 4:30 PM  | 28.9    | 29.2 | 28.7 | 1.1              | 1.4 | SWS       | 30     |
| 14/06/06   | 5:00 PM  | 28.8    | 28.9 | 28.6 | 1.1              | 1.5 | SWS       | 30     |
| 14/06/06   | 5:30 PM  | 28.6    | 28.6 | 28.4 | 2.2              | 3.8 | SWS       | 30     |
| 14/06/06   | 6:00 PM  | 28.5    | 28.8 | 28.3 | 2.8              | 4.1 | SWS       | 30     |
| 14/06/06   | 6:30 PM  | 27.9    | 28.1 | 27.8 | 1.5              | 1.8 | SWS       | 30     |
| 14/06/06   | 7:00 PM  | 27.8    | 28.0 | 27.8 | 1.4              | 1.9 | SWS       | 30     |
| 14/06/06   | 7:30 PM  | 27.9    | 28.1 | 27.7 | 2.3              | 3.8 | SWS       | 30     |
| 14/06/06   | 8:00 PM  | 28.0    | 28.3 | 27.7 | 2.1              | 3.6 | SWS       | 30     |
| 14/06/06   | 8:30 PM  | 28.0    | 28.1 | 27.8 | 1.1              | 1.2 | SWS       | 30     |
| 14/06/06   | 9:00 PM  | 27.8    | 28.2 | 27.7 | 1.7              | 2.4 | SWS       | 30     |
| 14/06/06   | 9:30 PM  | 27.8    | 27.9 | 27.6 | 2.0              | 2.1 | SWS       | 30     |
| 14/06/06   | 10:00 PM | 27.8    | 27.9 | 27.5 | 2.2              | 2.3 | SWS       | 30     |
| 14/06/06   | 10:30 PM | 27.5    | 27.5 | 27.4 | 1.7              | 1.9 | SWS       | 30     |
| 14/06/06   | 11:00 PM | 27.5    | 27.7 | 27.3 | 1.0              | 1.4 | SWS       | 30     |
| 14/06/06   | 11:30 PM | 27.5    | 27.6 | 27.2 | 1.5              | 2.8 | SWS       | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 15/06/06   | 12:00 AM | 27.0    | 27.3 | 26.7 | 0.9              | 1.3 | SWS       | 30     |
| 15/06/06   | 12:30 AM | 26.9    | 27.2 | 26.7 | 1.1              | 1.7 | SWS       | 30     |
| 15/06/06   | 1:00 AM  | 26.9    | 27.3 | 26.8 | 1.1              | 1.4 | SWS       | 30     |
| 15/06/06   | 1:30 AM  | 26.9    | 26.9 | 26.9 | 2.2              | 3.5 | SWS       | 30     |
| 15/06/06   | 2:00 AM  | 27.0    | 27.3 | 26.9 | 2.8              | 4.7 | SWS       | 30     |
| 15/06/06   | 2:30 AM  | 26.9    | 27.2 | 26.8 | 2.8              | 4.0 | SWS       | 30     |
| 15/06/06   | 3:00 AM  | 26.9    | 27.0 | 26.7 | 2.2              | 3.4 | SWS       | 30     |
| 15/06/06   | 3:30 AM  | 27.0    | 27.1 | 26.7 | 2.2              | 2.4 | SWS       | 30     |
| 15/06/06   | 4:00 AM  | 27.1    | 27.4 | 26.9 | 2.2              | 4.4 | SWS       | 30     |
| 15/06/06   | 4:30 AM  | 27.0    | 27.2 | 26.9 | 1.5              | 2.7 | SWS       | 30     |
| 15/06/06   | 5:00 AM  | 27.1    | 27.5 | 27.1 | 1.5              | 3.4 | SWS       | 30     |
| 15/06/06   | 5:30 AM  | 27.2    | 27.3 | 27.2 | 2.2              | 2.3 | SWS       | 30     |
| 15/06/06   | 6:00 AM  | 27.2    | 27.3 | 26.9 | 2.6              | 3.5 | SWS       | 30     |
| 15/06/06   | 6:30 AM  | 27.1    | 27.3 | 27.0 | 1.7              | 3.6 | SWS       | 30     |
| 15/06/06   | 7:00 AM  | 27.1    | 27.3 | 26.8 | 1.7              | 1.7 | SWS       | 30     |
| 15/06/06   | 7:30 AM  | 27.1    | 27.3 | 26.9 | 1.1              | 2.8 | SWS       | 30     |
| 15/06/06   | 8:00 AM  | 27.6    | 27.7 | 27.4 | 2.2              | 2.4 | SWS       | 30     |
| 15/06/06   | 8:30 AM  | 27.8    | 28.2 | 27.6 | 1.7              | 3.4 | SWS       | 30     |
| 15/06/06   | 9:00 AM  | 28.0    | 28.4 | 27.7 | 2.2              | 3.5 | SWS       | 30     |
| 15/06/06   | 9:30 AM  | 28.0    | 28.1 | 27.8 | 2.8              | 4.1 | SWS       | 30     |
| 15/06/06   | 10:00 AM | 28.0    | 28.1 | 27.7 | 2.9              | 4.3 | SWS       | 30     |
| 15/06/06   | 10:30 AM | 28.1    | 28.5 | 27.9 | 2.3              | 4.0 | SWS       | 30     |
| 15/06/06   | 11:00 AM | 28.0    | 28.2 | 27.7 | 2.8              | 3.9 | SWS       | 30     |
| 15/06/06   | 11:30 AM | 28.3    | 28.4 | 28.1 | 2.2              | 3.5 | SWS       | 30     |
| 15/06/06   | 12:00 PM | 28.5    | 28.6 | 28.5 | 1.7              | 2.6 | SWS       | 30     |
| 15/06/06   | 12:30 PM | 28.2    | 28.4 | 28.1 | 1.7              | 3.6 | SW        | 30     |
| 15/06/06   | 1:00 PM  | 28.1    | 28.1 | 27.9 | 2.2              | 2.3 | S         | 30     |
| 15/06/06   | 1:30 PM  | 28.5    | 28.6 | 28.3 | 2.8              | 4.7 | SWS       | 30     |
| 15/06/06   | 2:00 PM  | 29.3    | 29.4 | 29.2 | 2.8              | 4.1 | SWS       | 30     |
| 15/06/06   | 2:30 PM  | 29.5    | 29.8 | 29.3 | 1.7              | 2.3 | SWS       | 30     |
| 15/06/06   | 3:00 PM  | 29.0    | 29.1 | 28.7 | 1.7              | 3.6 | S         | 30     |
| 15/06/06   | 3:30 PM  | 28.0    | 28.2 | 27.9 | 2.2              | 4.4 | SW        | 30     |
| 15/06/06   | 4:00 PM  | 27.8    | 28.1 | 27.7 | 2.2              | 3.5 | SW        | 30     |
| 15/06/06   | 4:30 PM  | 27.5    | 27.5 | 27.4 | 1.7              | 1.8 | SWS       | 30     |
| 15/06/06   | 5:00 PM  | 27.5    | 27.6 | 27.3 | 1.8              | 2.5 | SWS       | 30     |
| 15/06/06   | 5:30 PM  | 27.4    | 27.6 | 27.1 | 1.6              | 2.4 | SW        | 30     |
| 15/06/06   | 6:00 PM  | 27.3    | 27.6 | 27.2 | 1.7              | 2.4 | SW        | 30     |
| 15/06/06   | 6:30 PM  | 27.3    | 27.5 | 27.1 | 1.6              | 3.4 | SWS       | 30     |
| 15/06/06   | 7:00 PM  | 27.1    | 27.2 | 26.9 | 1.1              | 1.4 | SWS       | 30     |
| 15/06/06   | 7:30 PM  | 27.1    | 27.2 | 26.8 | 1.1              | 1.8 | SWS       | 30     |
| 15/06/06   | 8:00 PM  | 27.0    | 27.3 | 27.0 | 1.7              | 3.9 | SW        | 30     |
| 15/06/06   | 8:30 PM  | 27.1    | 27.3 | 26.9 | 1.6              | 2.1 | SW        | 30     |
| 15/06/06   | 9:00 PM  | 27.0    | 27.1 | 27.0 | 2.2              | 2.9 | SW        | 30     |
| 15/06/06   | 9:30 PM  | 27.2    | 27.4 | 27.2 | 1.7              | 3.7 | SW        | 30     |
| 15/06/06   | 10:00 PM | 26.8    | 27.0 | 26.6 | 0.6              | 2.2 | SW        | 30     |
| 15/06/06   | 10:30 PM | 27.0    | 27.3 | 26.7 | 1.3              | 2.4 | SWS       | 30     |
| 15/06/06   | 11:00 PM | 27.2    | 27.4 | 27.0 | 1.6              | 2.8 | SWS       | 30     |
| 15/06/06   | 11:30 PM | 27.2    | 27.5 | 27.0 | 2.8              | 4.6 | SWS       | 30     |
| 16/06/06   | 12:00 AM | 27.2    | 27.4 | 26.9 | 2.2              | 2.6 | SWS       | 30     |
| 16/06/06   | 12:30 AM | 27.2    | 27.5 | 27.2 | 1.9              | 1.9 | SWS       | 30     |
| 16/06/06   | 1:00 AM  | 27.2    | 27.6 | 27.1 | 1.5              | 2.7 | SW        | 30     |
| 16/06/06   | 1:30 AM  | 27.2    | 27.3 | 27.1 | 2.8              | 3.6 | SWS       | 30     |
| 16/06/06   | 2:00 AM  | 26.9    | 27.0 | 26.7 | 1.7              | 3.5 | SW        | 30     |
| 16/06/06   | 2:30 AM  | 26.8    | 26.9 | 26.7 | 1.8              | 4.0 | SW        | 30     |
| 16/06/06   | 3:00 AM  | 26.9    | 27.2 | 26.9 | 2.2              | 3.0 | SW        | 30     |
| 16/06/06   | 3:30 AM  | 27.0    | 27.0 | 26.9 | 1.9              | 2.8 | SW        | 30     |
| 16/06/06   | 4:00 AM  | 27.0    | 27.1 | 27.0 | 1.1              | 2.9 | SW        | 30     |
| 16/06/06   | 4:30 AM  | 27.0    | 27.0 | 26.8 | 1.7              | 1.9 | SWS       | 30     |
| 16/06/06   | 5:00 AM  | 27.0    | 27.4 | 26.8 | 2.2              | 3.1 | SWS       | 30     |
| 16/06/06   | 5:30 AM  | 27.0    | 27.3 | 26.9 | 1.1              | 2.4 | SWS       | 30     |
| 16/06/06   | 6:00 AM  | 27.0    | 27.1 | 27.0 | 1.1              | 1.9 | SWS       | 30     |
| 16/06/06   | 6:30 AM  | 27.1    | 27.4 | 27.1 | 1.7              | 3.9 | SW        | 30     |
| 16/06/06   | 7:00 AM  | 27.0    | 27.2 | 26.7 | 1.7              | 3.9 | SW        | 30     |
| 16/06/06   | 7:30 AM  | 27.1    | 27.4 | 26.9 | 0.6              | 1.0 | S         | 30     |
| 16/06/06   | 8:00 AM  | 27.8    | 28.0 | 27.8 | 0.6              | 1.5 | SWW       | 30     |
| 16/06/06   | 8:30 AM  | 28.2    | 28.5 | 28.2 | 1.7              | 3.2 | S         | 30     |
| 16/06/06   | 9:00 AM  | 28.5    | 28.8 | 28.4 | 1.7              | 3.3 | SWS       | 30     |
| 16/06/06   | 9:30 AM  | 28.5    | 28.9 | 28.4 | 1.1              | 1.5 | S         | 30     |
| 16/06/06   | 10:00 AM | 28.9    | 29.2 | 28.6 | 1.1              | 2.5 | S         | 30     |
| 16/06/06   | 10:30 AM | 29.2    | 29.3 | 29.1 | 2.6              | 4.3 | S         | 30     |
| 16/06/06   | 11:00 AM | 29.9    | 30.2 | 29.7 | 1.5              | 3.2 | S         | 30     |
| 16/06/06   | 11:30 AM | 30.2    | 30.6 | 30.1 | 1.9              | 2.1 | S         | 30     |
| 16/06/06   | 12:00 PM | 30.9    | 31.0 | 30.6 | 2.4              | 3.2 | SWS       | 30     |
| 16/06/06   | 12:30 PM | 31.4    | 31.5 | 31.2 | 1.4              | 3.5 | SW        | 30     |
| 16/06/06   | 1:00 PM  | 31.2    | 31.3 | 31.2 | 1.9              | 2.6 | S         | 30     |
| 16/06/06   | 1:30 PM  | 31.2    | 31.3 | 31.0 | 2.3              | 4.5 | S         | 30     |
| 16/06/06   | 2:00 PM  | 31.0    | 31.1 | 30.9 | 1.8              | 3.0 | S         | 30     |
| 16/06/06   | 2:30 PM  | 31.0    | 31.2 | 30.7 | 2.0              | 3.9 | SWS       | 30     |
| 16/06/06   | 3:00 PM  | 30.5    | 30.6 | 30.3 | 2.2              | 4.0 | S         | 30     |
| 16/06/06   | 3:30 PM  | 30.0    | 30.4 | 29.8 | 2.8              | 3.8 | SWS       | 30     |
| 16/06/06   | 4:00 PM  | 31.0    | 31.3 | 30.8 | 2.2              | 3.2 | SWS       | 30     |
| 16/06/06   | 4:30 PM  | 29.5    | 29.7 | 29.3 | 2.8              | 2.9 | SWS       | 30     |
| 16/06/06   | 5:00 PM  | 29.0    | 29.1 | 28.8 | 1.7              | 3.0 | S         | 30     |
| 16/06/06   | 5:30 PM  | 29.0    | 29.1 | 28.9 | 1.9              | 1.9 | SW        | 30     |
| 16/06/06   | 6:00 PM  | 28.8    | 29.0 | 28.6 | 1.1              | 1.6 | S         | 30     |
| 16/06/06   | 6:30 PM  | 28.5    | 28.7 | 28.5 | 2.6              | 4.4 | SW        | 30     |
| 16/06/06   | 7:00 PM  | 28.0    | 28.2 | 27.8 | 1.3              | 3.0 | S         | 30     |
| 16/06/06   | 7:30 PM  | 27.8    | 27.9 | 27.6 | 1.7              | 3.9 | SW        | 30     |
| 16/06/06   | 8:00 PM  | 27.7    | 27.9 | 27.5 | 1.1              | 1.4 | SWS       | 30     |
| 16/06/06   | 8:30 PM  | 27.6    | 27.8 | 27.4 | 1.7              | 1.9 | SWS       | 30     |
| 16/06/06   | 9:00 PM  | 27.5    | 27.9 | 27.4 | 1.1              | 1.7 | SW        | 30     |
| 16/06/06   | 9:30 PM  | 27.0    | 27.3 | 27.0 | 1.7              | 2.8 | SW        | 30     |
| 16/06/06   | 10:00 PM | 27.1    | 27.3 | 26.8 | 1.1              | 2.9 | SW        | 30     |
| 16/06/06   | 10:30 PM | 27.5    | 27.6 | 27.3 | 1.0              | 1.7 | N         | 30     |
| 16/06/06   | 11:00 PM | 27.0    | 27.1 | 26.9 | 0.5              | 2.5 | SW        | 30     |
| 16/06/06   | 11:30 PM | 27.5    | 27.8 | 27.4 | 1.1              | 2.4 | N         | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 17/06/06   | 12:00 AM | 27.4    | 27.7 | 27.4 | 0.6              | 2.5 | SW        | 30     |
| 17/06/06   | 12:30 AM | 26.8    | 27.0 | 26.7 | 0.0              | 1.6 | NEE       | 30     |
| 17/06/06   | 1:00 AM  | 26.8    | 27.0 | 26.7 | 0.0              | 0.8 | N         | 30     |
| 17/06/06   | 1:30 AM  | 26.8    | 27.1 | 26.7 | 0.2              | 1.3 | N         | 30     |
| 17/06/06   | 2:00 AM  | 26.8    | 27.1 | 26.5 | 0.6              | 2.4 | SW        | 30     |
| 17/06/06   | 2:30 AM  | 26.6    | 26.7 | 26.4 | 0.8              | 1.1 | N         | 30     |
| 17/06/06   | 3:00 AM  | 26.9    | 27.1 | 26.8 | 2.8              | 4.6 | SW        | 30     |
| 17/06/06   | 3:30 AM  | 27.0    | 27.2 | 27.0 | 2.2              | 3.8 | SW        | 30     |
| 17/06/06   | 4:00 AM  | 26.9    | 27.0 | 26.9 | 1.7              | 3.2 | SW        | 30     |
| 17/06/06   | 4:30 AM  | 26.2    | 26.4 | 26.1 | 0.0              | 0.4 | N         | 30     |
| 17/06/06   | 5:00 AM  | 26.1    | 26.4 | 26.0 | 0.0              | 2.1 | N         | 30     |
| 17/06/06   | 5:30 AM  | 26.1    | 26.5 | 25.9 | 0.6              | 2.7 | N         | 30     |
| 17/06/06   | 6:00 AM  | 26.0    | 26.4 | 25.8 | 1.6              | 1.9 | N         | 30     |
| 17/06/06   | 6:30 AM  | 26.2    | 26.3 | 26.1 | 1.6              | 2.3 | W         | 30     |
| 17/06/06   | 7:00 AM  | 27.0    | 27.1 | 26.9 | 1.7              | 2.8 | NEE       | 30     |
| 17/06/06   | 7:30 AM  | 28.0    | 28.1 | 27.9 | 1.6              | 2.3 | SE        | 30     |
| 17/06/06   | 8:00 AM  | 28.2    | 28.3 | 28.0 | 1.7              | 3.0 | SEE       | 30     |
| 17/06/06   | 8:30 AM  | 29.5    | 29.9 | 29.4 | 1.7              | 3.0 | SWS       | 30     |
| 17/06/06   | 9:00 AM  | 29.8    | 30.0 | 29.7 | 1.3              | 1.4 | SW        | 30     |
| 17/06/06   | 9:30 AM  | 29.8    | 29.8 | 29.6 | 1.1              | 1.4 | SWW       | 30     |
| 17/06/06   | 10:00 AM | 30.9    | 31.3 | 30.8 | 1.2              | 1.8 | S         | 30     |
| 17/06/06   | 10:30 AM | 30.5    | 30.9 | 30.2 | 2.2              | 2.4 | SWS       | 30     |
| 17/06/06   | 11:00 AM | 30.8    | 30.8 | 30.7 | 1.7              | 2.2 | SWS       | 30     |
| 17/06/06   | 11:30 AM | 31.0    | 31.0 | 30.7 | 2.0              | 3.4 | SWS       | 30     |
| 17/06/06   | 12:00 PM | 32.0    | 32.1 | 32.0 | 2.1              | 3.2 | SWS       | 30     |
| 17/06/06   | 12:30 PM | 31.8    | 31.8 | 31.7 | 2.6              | 2.9 | SWS       | 30     |
| 17/06/06   | 1:00 PM  | 31.5    | 31.7 | 31.4 | 2.5              | 2.7 | S         | 30     |
| 17/06/06   | 1:30 PM  | 32.0    | 32.0 | 32.0 | 1.2              | 2.3 | SWS       | 30     |
| 17/06/06   | 2:00 PM  | 32.1    | 32.3 | 31.9 | 1.9              | 3.2 | SWS       | 30     |
| 17/06/06   | 2:30 PM  | 32.2    | 32.5 | 32.0 | 2.2              | 3.1 | SWS       | 30     |
| 17/06/06   | 3:00 PM  | 32.0    | 32.0 | 31.7 | 2.3              | 4.5 | S         | 30     |
| 17/06/06   | 3:30 PM  | 32.0    | 32.2 | 31.9 | 1.8              | 3.6 | S         | 30     |
| 17/06/06   | 4:00 PM  | 32.1    | 32.4 | 31.9 | 1.4              | 3.1 | S         | 30     |
| 17/06/06   | 4:30 PM  | 32.0    | 32.0 | 31.9 | 1.7              | 2.1 | SWS       | 30     |
| 17/06/06   | 5:00PM   | 32.0    | 32.1 | 31.7 | 2.2              | 2.7 | SW        | 30     |
| 17/06/06   | 5:30 PM  | 31.8    | 32.0 | 31.8 | 2.6              | 4.7 | SWS       | 30     |
| 17/06/06   | 6:00PM   | 31.5    | 31.5 | 31.2 | 2.1              | 3.3 | SWS       | 30     |
| 17/06/06   | 6:30 PM  | 31.0    | 31.4 | 30.9 | 1.9              | 2.9 | S         | 30     |
| 17/06/06   | 7:00PM   | 31.0    | 31.1 | 30.9 | 2.1              | 3.9 | S         | 30     |
| 17/06/06   | 7:30 PM  | 30.6    | 30.7 | 30.5 | 2.4              | 3.3 | S         | 30     |
| 17/06/06   | 8:00PM   | 30.6    | 31.0 | 30.5 | 1.8              | 2.0 | SWS       | 30     |
| 17/06/06   | 8:30 PM  | 30.5    | 30.9 | 30.4 | 1.4              | 3.1 | SWS       | 30     |
| 17/06/06   | 9:00PM   | 30.3    | 30.4 | 30.3 | 1.9              | 3.7 | SWS       | 30     |
| 17/06/06   | 9:30 PM  | 30.0    | 30.3 | 29.9 | 1.7              | 3.6 | SWS       | 30     |
| 17/06/06   | 10:00PM  | 29.7    | 29.9 | 29.4 | 2.3              | 4.5 | S         | 30     |
| 17/06/06   | 10:30 PM | 29.4    | 29.4 | 29.4 | 2.1              | 2.3 | SWS       | 30     |
| 17/06/06   | 11:00PM  | 29.0    | 29.4 | 28.8 | 1.5              | 3.4 | SWS       | 30     |
| 17/06/06   | 11:30 PM | 28.4    | 28.6 | 28.2 | 0.8              | 1.2 | SWS       | 30     |
| 18/06/06   | 12:00AM  | 28.0    | 28.3 | 28.0 | 0.9              | 3.1 | SWS       | 30     |
| 18/06/06   | 12:30 AM | 27.5    | 27.6 | 27.2 | 1.2              | 1.9 | SWS       | 30     |
| 18/06/06   | 1:00AM   | 27.7    | 28.1 | 27.6 | 1.9              | 2.3 | S         | 30     |
| 18/06/06   | 1:30 AM  | 27.5    | 27.7 | 27.5 | 2.1              | 3.2 | S         | 30     |
| 18/06/06   | 2:00AM   | 27.2    | 27.3 | 26.9 | 2.4              | 2.6 | S         | 30     |
| 18/06/06   | 2:30 AM  | 26.8    | 26.9 | 26.7 | 1.8              | 2.7 | S         | 30     |
| 18/06/06   | 3:00AM   | 26.5    | 26.8 | 26.4 | 1.3              | 2.1 | S         | 30     |
| 18/06/06   | 3:30 AM  | 26.2    | 26.3 | 26.2 | 1.6              | 3.6 | S         | 30     |
| 18/06/06   | 4:00AM   | 26.2    | 26.4 | 26.0 | 2.3              | 2.6 | S         | 30     |
| 18/06/06   | 4:30 AM  | 26.1    | 26.5 | 26.1 | 2.7              | 3.0 | S         | 30     |
| 18/06/06   | 5:00AM   | 25.9    | 26.0 | 25.8 | 2.1              | 3.8 | SWS       | 30     |
| 18/06/06   | 5:30 AM  | 25.8    | 25.8 | 25.6 | 1.8              | 3.9 | S         | 30     |
| 18/06/06   | 6:00AM   | 25.6    | 25.8 | 25.6 | 1.5              | 3.6 | S         | 30     |
| 18/06/06   | 6:30 AM  | 25.4    | 25.5 | 25.1 | 1.9              | 3.8 | SWS       | 30     |
| 18/06/06   | 7:00AM   | 26.2    | 26.3 | 26.2 | 2.3              | 4.6 | SWS       | 30     |
| 18/06/06   | 7:30 AM  | 26.7    | 27.0 | 26.7 | 2.1              | 3.3 | SWS       | 30     |
| 18/06/06   | 8:00AM   | 27.3    | 27.4 | 27.1 | 1.6              | 3.5 | S         | 30     |
| 18/06/06   | 8:30 AM  | 29.1    | 29.4 | 29.0 | 1.9              | 2.1 | S         | 30     |
| 18/06/06   | 9:00AM   | 29.0    | 29.3 | 28.8 | 2.1              | 2.2 | SEE       | 30     |
| 18/06/06   | 9:30 AM  | 29.5    | 29.5 | 29.3 | 2.5              | 2.6 | S         | 30     |
| 18/06/06   | 10:00AM  | 31.0    | 31.0 | 30.8 | 1.5              | 2.2 | SEE       | 30     |
| 18/06/06   | 10:30 AM | 31.4    | 31.4 | 31.4 | 1.7              | 3.2 | S         | 30     |
| 18/06/06   | 11:00AM  | 31.6    | 32.0 | 31.4 | 2.1              | 4.0 | S         | 30     |
| 18/06/06   | 11:30 AM | 32.5    | 32.8 | 32.3 | 2.3              | 2.9 | S         | 30     |
| 18/06/06   | 12:00NN  | 32.8    | 32.8 | 32.7 | 2.8              | 3.7 | SEE       | 30     |
| 18/06/06   | 12:30 PM | 30.5    | 30.7 | 30.3 | 2.0              | 3.5 | SWS       | 30     |
| 18/06/06   | 1:00 PM  | 31.1    | 31.3 | 30.9 | 1.2              | 2.2 | SES       | 30     |
| 18/06/06   | 1:30 PM  | 31.8    | 32.0 | 31.8 | 2.3              | 3.2 | SWS       | 30     |
| 18/06/06   | 2:00 PM  | 31.0    | 31.3 | 31.0 | 1.7              | 3.2 | SWS       | 30     |
| 18/06/06   | 2:30 PM  | 30.0    | 30.3 | 30.0 | 1.7              | 2.1 | SWS       | 30     |
| 18/06/06   | 3:00 PM  | 30.0    | 30.2 | 29.9 | 1.7              | 3.7 | SWS       | 30     |
| 18/06/06   | 3:30 PM  | 30.6    | 30.7 | 30.6 | 1.9              | 3.8 | SWS       | 30     |
| 18/06/06   | 4:00 PM  | 29.8    | 30.1 | 29.6 | 1.6              | 2.7 | SWS       | 30     |
| 18/06/06   | 4:30 PM  | 29.2    | 29.5 | 29.0 | 1.1              | 1.8 | S         | 30     |
| 18/06/06   | 5:00 PM  | 29.0    | 29.0 | 28.9 | 1.7              | 1.7 | SWS       | 30     |
| 18/06/06   | 5:30 PM  | 29.0    | 29.3 | 28.8 | 2.2              | 3.7 | SEE       | 30     |
| 18/06/06   | 6:00 PM  | 29.0    | 29.4 | 28.9 | 1.7              | 2.7 | SEE       | 30     |
| 18/06/06   | 6:30 PM  | 29.0    | 29.3 | 28.7 | 1.1              | 2.0 | SEE       | 30     |
| 18/06/06   | 7:00 PM  | 28.2    | 28.4 | 28.1 | 0.6              | 2.4 | SEE       | 30     |
| 18/06/06   | 7:30 PM  | 28.0    | 28.0 | 27.8 | 0.6              | 1.8 | E         | 30     |
| 18/06/06   | 8:00 PM  | 27.9    | 28.2 | 27.8 | 0.4              | 2.2 | SEE       | 30     |
| 18/06/06   | 8:30 PM  | 27.8    | 27.9 | 27.8 | 1.1              | 2.7 | SEE       | 30     |
| 18/06/06   | 9:00 PM  | 28.0    | 28.1 | 27.8 | 1.1              | 3.4 | SEE       | 30     |
| 18/06/06   | 9:30 PM  | 27.9    | 28.0 | 27.7 | 1.1              | 2.4 | E         | 30     |
| 18/06/06   | 10:00 PM | 27.9    | 28.2 | 27.8 | 1.7              | 3.5 | NE        | 30     |
| 18/06/06   | 10:30 PM | 27.0    | 27.3 | 26.9 | 2.2              | 3.9 | NE        | 30     |
| 18/06/06   | 11:00 PM | 26.1    | 26.2 | 26.0 | 0.6              | 2.6 | W         | 30     |
| 18/06/06   | 11:30 PM | 26.0    | 26.4 | 26.0 | 1.7              | 1.9 | NWW       | 30     |



## Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 19/06/06   | 12:00 AM | 25.8    | 25.9 | 25.6 | 1.5              | 1.8 | W         | 30     |
| 19/06/06   | 12:30 AM | 26.0    | 26.0 | 25.8 | 0.2              | 0.8 | SWW       | 30     |
| 19/06/06   | 1:00 AM  | 26.0    | 26.3 | 25.7 | 0.2              | 1.1 | N         | 30     |
| 19/06/06   | 1:30 AM  | 26.0    | 26.1 | 26.0 | 0.2              | 1.7 | N         | 30     |
| 19/06/06   | 2:00 AM  | 25.9    | 26.0 | 25.7 | 0.3              | 1.0 | NWN       | 30     |
| 19/06/06   | 2:30 AM  | 26.0    | 26.1 | 25.8 | 0.4              | 1.2 | N         | 30     |
| 19/06/06   | 3:00 AM  | 26.0    | 26.0 | 25.9 | 0.2              | 0.8 | NWN       | 30     |
| 19/06/06   | 3:30 AM  | 26.0    | 26.4 | 26.0 | 0.0              | 2.3 | N         | 30     |
| 19/06/06   | 4:00 AM  | 25.9    | 26.2 | 25.6 | 0.2              | 2.4 | N         | 30     |
| 19/06/06   | 4:30 AM  | 26.0    | 26.1 | 25.8 | 0.4              | 1.6 | N         | 30     |
| 19/06/06   | 5:00 AM  | 25.9    | 26.0 | 25.8 | 1.0              | 1.6 | E         | 30     |
| 19/06/06   | 5:30 AM  | 25.8    | 26.0 | 25.7 | 0.6              | 2.2 | N         | 30     |
| 19/06/06   | 6:00 AM  | 25.9    | 26.3 | 25.9 | 0.2              | 2.5 | NW        | 30     |
| 19/06/06   | 6:30 AM  | 26.0    | 26.3 | 25.9 | 1.7              | 3.2 | E         | 30     |
| 19/06/06   | 7:00 AM  | 26.2    | 26.3 | 26.0 | 1.1              | 2.0 | NE        | 30     |
| 19/06/06   | 7:30 AM  | 26.0    | 26.4 | 26.0 | 0.6              | 2.9 | NEN       | 30     |
| 19/06/06   | 8:00 AM  | 26.9    | 27.0 | 26.7 | 0.2              | 1.4 | NE        | 30     |
| 19/06/06   | 8:30 AM  | 26.5    | 26.6 | 26.3 | 0.4              | 2.4 | E         | 30     |
| 19/06/06   | 9:00 AM  | 26.5    | 26.7 | 26.4 | 0.6              | 0.8 | N         | 30     |
| 19/06/06   | 9:30 AM  | 26.8    | 26.8 | 26.7 | 0.4              | 1.3 | N         | 30     |
| 19/06/06   | 10:00 AM | 27.2    | 27.5 | 26.9 | 0.9              | 2.5 | NE        | 30     |
| 19/06/06   | 10:30 AM | 27.7    | 28.0 | 27.5 | 0.2              | 1.5 | NE        | 30     |
| 19/06/06   | 11:00 AM | 28.0    | 28.0 | 27.9 | 0.8              | 0.8 | NE        | 30     |
| 19/06/06   | 11:30 AM | 28.4    | 28.4 | 28.4 | 1.2              | 2.8 | NEE       | 30     |
| 19/06/06   | 12:00 PM | 28.4    | 28.8 | 28.3 | 1.4              | 3.0 | NEE       | 30     |
| 19/06/06   | 12:30 PM | 28.3    | 28.7 | 28.3 | 1.1              | 1.8 | NE        | 30     |
| 19/06/06   | 1:00 PM  | 28.3    | 28.6 | 28.0 | 0.9              | 2.7 | NE        | 30     |
| 19/06/06   | 1:30 PM  | 28.4    | 28.5 | 28.2 | 1.2              | 3.4 | NEE       | 30     |
| 19/06/06   | 2:00 PM  | 28.4    | 28.7 | 28.4 | 1.9              | 3.9 | E         | 30     |
| 19/06/06   | 2:30 PM  | 28.6    | 28.7 | 28.6 | 1.3              | 1.8 | E         | 30     |
| 19/06/06   | 3:00 PM  | 28.5    | 28.7 | 28.3 | 0.8              | 2.4 | NE        | 30     |
| 19/06/06   | 3:30 PM  | 28.4    | 28.6 | 28.3 | 0.7              | 1.2 | NE        | 30     |
| 19/06/06   | 4:00 PM  | 28.4    | 28.4 | 28.1 | 1.3              | 2.2 | NEN       | 30     |
| 19/06/06   | 4:30 PM  | 28.3    | 28.6 | 28.3 | 1.8              | 2.6 | N         | 30     |
| 19/06/06   | 5:00 PM  | 28.4    | 28.4 | 28.2 | 2.1              | 2.8 | N         | 30     |
| 19/06/06   | 5:30 PM  | 28.3    | 28.6 | 28.2 | 1.6              | 2.5 | N         | 30     |
| 19/06/06   | 6:00 PM  | 28.2    | 28.3 | 28.2 | 2.0              | 3.0 | N         | 30     |
| 19/06/06   | 6:30 PM  | 28.0    | 28.3 | 28.0 | 1.5              | 2.1 | NE        | 30     |
| 19/06/06   | 7:00 PM  | 27.8    | 27.9 | 27.6 | 2.1              | 2.5 | NE        | 30     |
| 19/06/06   | 7:30 PM  | 27.4    | 27.4 | 27.1 | 1.7              | 2.8 | NE        | 30     |
| 19/06/06   | 8:00 PM  | 27.4    | 27.6 | 27.3 | 2.2              | 3.6 | NE        | 30     |
| 19/06/06   | 8:30 PM  | 27.1    | 27.2 | 26.9 | 2.9              | 4.5 | NE        | 30     |
| 19/06/06   | 9:00 PM  | 27.0    | 27.3 | 26.8 | 1.8              | 2.1 | NEE       | 30     |
| 19/06/06   | 9:30 PM  | 27.0    | 27.2 | 26.8 | 1.3              | 2.9 | NEE       | 30     |
| 19/06/06   | 10:00 PM | 26.8    | 27.0 | 26.8 | 1.4              | 2.6 | NEE       | 30     |
| 19/06/06   | 10:30 PM | 26.7    | 27.0 | 26.6 | 2.1              | 4.0 | NE        | 30     |
| 19/06/06   | 11:00 PM | 26.5    | 26.5 | 26.2 | 1.9              | 3.6 | NE        | 30     |
| 19/06/06   | 11:30 PM | 26.2    | 26.2 | 26.0 | 2.6              | 4.2 | NEN       | 30     |
| 20/06/06   | 12:00 AM | 26.1    | 26.2 | 25.8 | 2.1              | 2.9 | NEN       | 30     |
| 20/06/06   | 12:30 AM | 26.0    | 26.1 | 25.7 | 2.9              | 4.7 | NEN       | 30     |
| 20/06/06   | 1:00 AM  | 25.9    | 26.3 | 25.9 | 1.2              | 3.4 | NE        | 30     |
| 20/06/06   | 1:30 AM  | 25.7    | 26.1 | 25.6 | 1.9              | 2.0 | NE        | 30     |
| 20/06/06   | 2:00 AM  | 25.4    | 25.4 | 25.2 | 1.0              | 2.0 | NE        | 30     |
| 20/06/06   | 2:30 AM  | 25.5    | 25.7 | 25.3 | 0.8              | 1.6 | NEE       | 30     |
| 20/06/06   | 3:00 AM  | 25.3    | 25.7 | 25.0 | 0.5              | 2.7 | NEE       | 30     |
| 20/06/06   | 3:30 AM  | 25.2    | 25.4 | 25.2 | 1.2              | 2.3 | NE        | 30     |
| 20/06/06   | 4:00 AM  | 25.3    | 25.5 | 25.3 | 1.3              | 3.5 | NEN       | 30     |
| 20/06/06   | 4:30 AM  | 25.2    | 25.3 | 25.0 | 0.8              | 1.7 | NEE       | 30     |
| 20/06/06   | 5:00 AM  | 25.1    | 25.4 | 24.9 | 0.3              | 1.7 | NE        | 30     |
| 20/06/06   | 5:30 AM  | 25.3    | 25.6 | 25.1 | 0.9              | 1.4 | NE        | 30     |
| 20/06/06   | 6:00 AM  | 25.5    | 25.9 | 25.3 | 1.6              | 3.0 | NE        | 30     |
| 20/06/06   | 6:30 AM  | 25.7    | 25.8 | 25.6 | 0.5              | 2.2 | NEE       | 30     |
| 20/06/06   | 7:00 AM  | 25.8    | 25.9 | 25.7 | 1.1              | 1.3 | NEE       | 30     |
| 20/06/06   | 7:30 AM  | 26.3    | 26.6 | 26.2 | 1.3              | 2.5 | NE        | 30     |
| 20/06/06   | 8:00 AM  | 26.9    | 26.9 | 26.9 | 0.7              | 2.6 | NE        | 30     |
| 20/06/06   | 8:30 AM  | 27.5    | 27.7 | 27.3 | 1.2              | 3.0 | E         | 30     |
| 20/06/06   | 9:00 AM  | 27.9    | 28.1 | 27.6 | 0.8              | 1.2 | NEE       | 30     |
| 20/06/06   | 9:30 AM  | 28.1    | 28.3 | 28.0 | 1.3              | 3.1 | NEE       | 30     |
| 20/06/06   | 10:00 AM | 29.1    | 29.1 | 29.1 | 1.0              | 2.6 | E         | 30     |
| 20/06/06   | 10:30 AM | 29.6    | 29.9 | 29.3 | 0.8              | 0.9 | E         | 30     |
| 20/06/06   | 11:00 AM | 30.2    | 30.2 | 29.9 | 0.5              | 1.9 | E         | 30     |
| 20/06/06   | 11:30 AM | 30.9    | 31.1 | 30.8 | 1.7              | 2.3 | SE        | 30     |
| 20/06/06   | 12:00 PM | 31.0    | 31.1 | 31.0 | 1.7              | 3.4 | E         | 30     |
| 20/06/06   | 12:30 PM | 30.0    | 30.4 | 30.0 | 2.8              | 4.1 | SEE       | 30     |
| 20/06/06   | 1:00 PM  | 30.0    | 30.1 | 29.8 | 2.2              | 3.7 | SEE       | 30     |
| 20/06/06   | 1:30 PM  | 31.0    | 31.0 | 30.8 | 2.3              | 3.1 | SWS       | 30     |
| 20/06/06   | 2:00 PM  | 30.5    | 30.9 | 30.3 | 1.7              | 2.8 | SEE       | 30     |
| 20/06/06   | 2:30 PM  | 39.5    | 39.9 | 39.2 | 2.2              | 4.0 | SEE       | 30     |
| 20/06/06   | 3:00 PM  | 29.0    | 29.2 | 28.7 | 2.2              | 3.8 | SE        | 30     |
| 20/06/06   | 3:30 PM  | 28.8    | 28.9 | 28.6 | 0.6              | 0.7 | SWS       | 30     |
| 20/06/06   | 4:00 PM  | 28.8    | 29.1 | 28.7 | 1.7              | 3.1 | NEN       | 30     |
| 20/06/06   | 4:30 PM  | 27.8    | 28.0 | 27.6 | 0.9              | 1.3 | SE        | 30     |
| 20/06/06   | 5:00 PM  | 28.2    | 28.5 | 28.1 | 0.6              | 1.6 | SES       | 30     |
| 20/06/06   | 5:30 PM  | 28.2    | 28.5 | 28.1 | 2.4              | 2.8 | NEN       | 30     |
| 20/06/06   | 6:00 PM  | 28.0    | 28.1 | 27.8 | 0.7              | 1.1 | NEN       | 30     |
| 20/06/06   | 6:30 PM  | 27.0    | 27.3 | 26.7 | 2.2              | 2.6 | N         | 30     |
| 20/06/06   | 7:00 PM  | 26.8    | 27.2 | 26.6 | 0.1              | 0.6 | N         | 30     |
| 20/06/06   | 7:30 PM  | 26.6    | 26.8 | 26.4 | 0.6              | 2.4 | N         | 30     |
| 20/06/06   | 8:00 PM  | 26.6    | 26.8 | 26.4 | 1.7              | 1.8 | N         | 30     |
| 20/06/06   | 8:30 PM  | 26.4    | 26.4 | 26.2 | 1.7              | 3.8 | N         | 30     |
| 20/06/06   | 9:00 PM  | 26.2    | 26.2 | 26.1 | 0.0              | 0.0 | N         | 30     |
| 20/06/06   | 9:30 PM  | 26.5    | 26.8 | 26.4 | 0.6              | 1.3 | NE        | 30     |
| 20/06/06   | 10:00 PM | 26.6    | 26.8 | 26.4 | 1.6              | 2.5 | SE        | 30     |
| 20/06/06   | 10:30 PM | 25.9    | 26.1 | 25.7 | 1.1              | 2.7 | N         | 30     |
| 20/06/06   | 11:00 PM | 25.8    | 25.9 | 25.6 | 1.1              | 2.8 | NEN       | 30     |
| 20/06/06   | 11:30 PM | 25.8    | 25.9 | 25.7 | 0.6              | 1.6 | N         | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind Direction | Period |
|------------|----------|---------|------|------|------------------|-----|----------------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  |                |        |
| 21/06/06   | 12:00 AM | 25.0    | 25.2 | 24.7 | 1.1              | 1.9 | N              | 30     |
| 21/06/06   | 12:30 AM | 25.8    | 25.9 | 25.8 | 1.7              | 3.9 | SWS            | 30     |
| 21/06/06   | 1:00 AM  | 25.0    | 25.1 | 24.7 | 0.9              | 1.0 | NW             | 30     |
| 21/06/06   | 1:30 AM  | 25.2    | 25.3 | 25.1 | 0.1              | 1.1 | N              | 30     |
| 21/06/06   | 2:00 AM  | 25.4    | 25.4 | 25.1 | 0.6              | 1.4 | W              | 30     |
| 21/06/06   | 2:30 AM  | 25.1    | 25.2 | 24.8 | 0.6              | 1.5 | NW             | 30     |
| 21/06/06   | 3:00 AM  | 25.0    | 25.4 | 24.9 | 0.1              | 1.9 | NWW            | 30     |
| 21/06/06   | 3:30 AM  | 25.9    | 26.1 | 25.8 | 0.1              | 0.8 | N              | 30     |
| 21/06/06   | 4:00 AM  | 25.9    | 26.1 | 25.6 | 0.3              | 2.1 | NW             | 30     |
| 21/06/06   | 4:30 AM  | 25.0    | 25.1 | 24.8 | 0.4              | 1.1 | NW             | 30     |
| 21/06/06   | 5:00 AM  | 25.0    | 25.0 | 24.8 | 0.0              | 1.6 | N              | 30     |
| 21/06/06   | 5:30 AM  | 25.1    | 25.5 | 24.9 | 0.6              | 2.0 | N              | 30     |
| 21/06/06   | 6:00 AM  | 25.1    | 25.2 | 25.1 | 0.0              | 1.3 | S              | 30     |
| 21/06/06   | 6:30 AM  | 25.5    | 25.8 | 25.3 | 1.1              | 1.4 | NW             | 30     |
| 21/06/06   | 7:00 AM  | 26.0    | 26.0 | 25.9 | 0.9              | 1.1 | NEE            | 30     |
| 21/06/06   | 7:30 AM  | 26.0    | 26.3 | 26.0 | 0.8              | 1.6 | NE             | 30     |
| 21/06/06   | 8:00 AM  | 27.0    | 27.1 | 26.9 | 0.8              | 1.3 | NE             | 30     |
| 21/06/06   | 8:30 AM  | 28.0    | 28.1 | 28.0 | 1.7              | 1.8 | N              | 30     |
| 21/06/06   | 9:00 AM  | 28.5    | 28.6 | 28.3 | 2.2              | 2.3 | NE             | 30     |
| 21/06/06   | 9:30 AM  | 29.2    | 29.6 | 29.0 | 2.8              | 4.3 | NE             | 30     |
| 21/06/06   | 10:00 AM | 29.4    | 29.5 | 29.2 | 3.3              | 4.6 | NEE            | 30     |
| 21/06/06   | 10:30 AM | 30.0    | 30.3 | 29.8 | 2.8              | 3.4 | E              | 30     |
| 21/06/06   | 11:00 AM | 30.2    | 30.5 | 30.2 | 2.2              | 3.9 | NEE            | 30     |
| 21/06/06   | 11:30 AM | 30.5    | 30.6 | 30.4 | 3.3              | 5.2 | NEE            | 30     |
| 21/06/06   | 12:00 PM | 30.8    | 30.8 | 30.8 | 3.9              | 4.7 | NEE            | 30     |
| 21/06/06   | 12:30 PM | 30.8    | 31.0 | 30.8 | 2.8              | 5.0 | NEE            | 30     |
| 21/06/06   | 1:00 PM  | 31.0    | 31.3 | 30.8 | 2.8              | 3.4 | E              | 30     |
| 21/06/06   | 1:30 PM  | 30.2    | 30.5 | 30.1 | 2.8              | 5.0 | E              | 30     |
| 21/06/06   | 2:00 PM  | 30.0    | 30.3 | 29.9 | 2.1              | 3.8 | SEE            | 30     |
| 21/06/06   | 2:30 PM  | 30.0    | 30.1 | 29.9 | 2.0              | 3.5 | SE             | 30     |
| 21/06/06   | 3:00 PM  | 30.5    | 30.9 | 30.4 | 2.8              | 3.6 | NEE            | 30     |
| 21/06/06   | 3:30 PM  | 30.0    | 30.1 | 29.8 | 2.2              | 3.1 | E              | 30     |
| 21/06/06   | 4:00 PM  | 30.0    | 30.1 | 29.8 | 2.0              | 2.7 | NE             | 30     |
| 21/06/06   | 4:30 PM  | 29.5    | 29.9 | 29.4 | 1.9              | 2.9 | SE             | 30     |
| 21/06/06   | 5:00 PM  | 29.2    | 29.3 | 29.0 | 2.3              | 3.6 | SE             | 30     |
| 21/06/06   | 5:30 PM  | 28.8    | 28.9 | 28.6 | 3.2              | 3.7 | SEE            | 30     |
| 21/06/06   | 6:00 PM  | 28.8    | 29.1 | 28.8 | 2.8              | 3.2 | SEE            | 30     |
| 21/06/06   | 6:30 PM  | 28.5    | 28.6 | 28.2 | 2.2              | 4.1 | SEE            | 30     |
| 21/06/06   | 7:00 PM  | 28.0    | 28.0 | 27.9 | 2.2              | 3.0 | SEE            | 30     |
| 21/06/06   | 7:30 PM  | 27.8    | 28.0 | 27.7 | 1.7              | 2.4 | SE             | 30     |
| 21/06/06   | 8:00 PM  | 27.8    | 28.1 | 27.7 | 1.7              | 3.0 | SE             | 30     |
| 21/06/06   | 8:30 PM  | 27.6    | 27.7 | 27.5 | 1.4              | 3.1 | SE             | 30     |
| 21/06/06   | 9:00 PM  | 27.6    | 27.9 | 27.5 | 1.6              | 1.8 | SE             | 30     |
| 21/06/06   | 9:30 PM  | 27.6    | 27.7 | 27.6 | 1.1              | 2.5 | SE             | 30     |
| 21/06/06   | 10:00 PM | 27.6    | 27.8 | 27.5 | 1.9              | 3.3 | SEE            | 30     |
| 21/06/06   | 10:30 PM | 27.6    | 27.9 | 27.5 | 1.7              | 3.0 | SEE            | 30     |
| 21/06/06   | 11:00 PM | 27.6    | 27.8 | 27.4 | 2.2              | 3.1 | SEE            | 30     |
| 21/06/06   | 11:30 PM | 27.2    | 27.5 | 27.1 | 1.5              | 2.5 | SE             | 30     |
| 22/06/06   | 12:00 AM | 27.0    | 27.2 | 26.9 | 0.9              | 1.0 | SE             | 30     |
| 22/06/06   | 12:30 AM | 27.6    | 27.8 | 27.6 | 1.7              | 2.4 | SE             | 30     |
| 22/06/06   | 1:00 AM  | 27.6    | 27.8 | 27.5 | 2.1              | 2.9 | SE             | 30     |
| 22/06/06   | 1:30 AM  | 27.2    | 27.5 | 27.1 | 1.1              | 2.1 | E              | 30     |
| 22/06/06   | 2:00 AM  | 27.1    | 27.4 | 26.9 | 1.1              | 2.7 | SE             | 30     |
| 22/06/06   | 2:30 AM  | 27.2    | 27.5 | 27.1 | 1.6              | 3.6 | SE             | 30     |
| 22/06/06   | 3:00 AM  | 27.0    | 27.4 | 26.9 | 0.2              | 1.8 | SE             | 30     |
| 22/06/06   | 3:30 AM  | 27.2    | 27.6 | 27.2 | 1.6              | 2.2 | SE             | 30     |
| 22/06/06   | 4:00 AM  | 27.5    | 27.6 | 27.2 | 1.7              | 1.9 | SE             | 30     |
| 22/06/06   | 4:30 AM  | 27.0    | 27.2 | 26.9 | 1.1              | 2.2 | SE             | 30     |
| 22/06/06   | 5:00 AM  | 27.1    | 27.1 | 26.9 | 0.8              | 1.6 | SE             | 30     |
| 22/06/06   | 5:30 AM  | 26.8    | 26.8 | 26.6 | 0.6              | 1.2 | N              | 30     |
| 22/06/06   | 6:00 AM  | 26.8    | 26.9 | 26.6 | 1.1              | 2.3 | NE             | 30     |
| 22/06/06   | 6:30 AM  | 26.7    | 26.8 | 26.4 | 0.5              | 1.3 | NW             | 30     |
| 22/06/06   | 7:00 AM  | 26.7    | 27.0 | 26.4 | 0.6              | 1.1 | SW             | 30     |
| 22/06/06   | 7:30 AM  | 27.2    | 27.4 | 27.0 | 0.7              | 1.3 | N              | 30     |
| 22/06/06   | 8:00 AM  | 27.8    | 28.1 | 27.5 | 0.7              | 1.3 | E              | 30     |
| 22/06/06   | 8:30 AM  | 27.8    | 28.1 | 27.8 | 0.7              | 2.2 | SE             | 30     |
| 22/06/06   | 9:00 AM  | 28.8    | 29.0 | 28.5 | 1.1              | 1.3 | SEE            | 30     |
| 22/06/06   | 9:30 AM  | 28.8    | 29.1 | 28.6 | 2.2              | 3.8 | SE             | 30     |
| 22/06/06   | 10:00 AM | 28.5    | 28.6 | 28.4 | 2.2              | 3.9 | SEE            | 30     |
| 22/06/06   | 10:30 AM | 28.6    | 28.7 | 28.4 | 2.2              | 2.3 | E              | 30     |
| 22/06/06   | 11:00 AM | 29.1    | 29.1 | 29.0 | 1.7              | 3.7 | SEE            | 30     |
| 22/06/06   | 11:30 AM | 29.8    | 29.8 | 29.7 | 3.3              | 4.7 | NE             | 30     |
| 22/06/06   | 12:00 PM | 29.8    | 29.9 | 29.5 | 2.0              | 3.6 | NE             | 30     |
| 22/06/06   | 12:30 PM | 29.5    | 29.6 | 29.2 | 1.7              | 4.0 | E              | 30     |
| 22/06/06   | 1:00 PM  | 30.0    | 30.3 | 29.8 | 2.2              | 2.7 | NEE            | 30     |
| 22/06/06   | 1:30 PM  | 29.2    | 29.3 | 29.0 | 1.7              | 3.9 | E              | 30     |
| 22/06/06   | 2:00 PM  | 29.0    | 29.1 | 28.9 | 1.7              | 3.0 | SEE            | 30     |
| 22/06/06   | 2:30 PM  | 28.8    | 29.0 | 28.6 | 1.1              | 3.0 | E              | 30     |
| 22/06/06   | 3:00 PM  | 29.0    | 29.3 | 28.8 | 1.1              | 2.7 | NEE            | 30     |
| 22/06/06   | 3:30 PM  | 28.0    | 28.3 | 28.0 | 3.3              | 4.2 | SW             | 30     |
| 22/06/06   | 4:00 PM  | 27.5    | 27.5 | 27.3 | 0.8              | 1.2 | S              | 30     |
| 22/06/06   | 4:30 PM  | 28.1    | 28.1 | 28.0 | 0.0              | 1.9 | N              | 30     |
| 22/06/06   | 5:00 PM  | 28.1    | 28.5 | 27.9 | 2.2              | 4.1 | NEE            | 30     |
| 22/06/06   | 5:30 PM  | 27.2    | 27.4 | 27.0 | 1.7              | 2.6 | SW             | 30     |
| 22/06/06   | 6:00 PM  | 27.2    | 27.4 | 27.0 | 0.8              | 2.0 | N              | 30     |
| 22/06/06   | 6:30 PM  | 27.4    | 27.6 | 27.2 | 1.7              | 2.5 | SWS            | 30     |
| 22/06/06   | 7:00 PM  | 36.5    | 36.9 | 36.3 | 1.1              | 2.7 | SEE            | 30     |
| 22/06/06   | 7:30 PM  | 26.0    | 26.4 | 25.9 | 0.3              | 1.7 | N              | 30     |
| 22/06/06   | 8:00 PM  | 25.8    | 26.0 | 25.8 | 0.1              | 1.3 | N              | 30     |
| 22/06/06   | 8:30 PM  | 25.8    | 26.0 | 25.8 | 0.1              | 1.5 | SE             | 30     |
| 22/06/06   | 9:00 PM  | 26.0    | 26.2 | 25.8 | 0.1              | 2.0 | SE             | 30     |
| 22/06/06   | 9:30 PM  | 26.0    | 26.1 | 25.8 | 1.1              | 3.1 | SEE            | 30     |
| 22/06/06   | 10:00 PM | 26.0    | 26.1 | 25.8 | 0.6              | 2.0 | SEE            | 30     |
| 22/06/06   | 10:30 PM | 26.1    | 26.2 | 25.9 | 0.9              | 2.1 | SEE            | 30     |
| 22/06/06   | 11:00 PM | 26.2    | 26.2 | 26.2 | 0.6              | 2.6 | E              | 30     |
| 22/06/06   | 11:30 PM | 26.2    | 26.3 | 26.2 | 1.1              | 2.6 | E              | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 23/06/06   | 12:00 AM | 26.1    | 26.3 | 26.0 | 0.4              | 1.8 | N         | 30     |
| 23/06/06   | 12:30 AM | 26.0    | 26.4 | 25.9 | 0.8              | 1.0 | E         | 30     |
| 23/06/06   | 1:00 AM  | 26.1    | 26.2 | 26.0 | 1.1              | 2.7 | E         | 30     |
| 23/06/06   | 1:30 AM  | 26.2    | 26.5 | 26.1 | 0.6              | 2.3 | E         | 30     |
| 23/06/06   | 2:00 AM  | 26.3    | 26.3 | 26.1 | 0.1              | 0.6 | E         | 30     |
| 23/06/06   | 2:30 AM  | 26.3    | 26.7 | 26.2 | 0.0              | 0.0 | N         | 30     |
| 23/06/06   | 3:00 AM  | 26.5    | 26.8 | 26.3 | 0.0              | 1.5 | N         | 30     |
| 23/06/06   | 3:30 AM  | 26.4    | 26.4 | 26.2 | 0.6              | 0.7 | SW        | 30     |
| 23/06/06   | 4:00 AM  | 26.0    | 26.2 | 25.8 | 1.1              | 2.2 | SW        | 30     |
| 23/06/06   | 4:30 AM  | 25.8    | 26.0 | 25.7 | 0.1              | 0.7 | SWS       | 30     |
| 23/06/06   | 5:00 AM  | 25.8    | 26.1 | 25.6 | 0.1              | 2.4 | W         | 30     |
| 23/06/06   | 5:30 AM  | 25.9    | 26.0 | 25.6 | 1.1              | 1.2 | NWN       | 30     |
| 23/06/06   | 6:00 AM  | 25.8    | 26.0 | 25.8 | 1.2              | 2.2 | SW        | 30     |
| 23/06/06   | 6:30 AM  | 26.0    | 26.1 | 26.0 | 0.6              | 2.0 | N         | 30     |
| 23/06/06   | 7:00 AM  | 26.8    | 27.1 | 26.8 | 0.0              | 1.8 | N         | 30     |
| 23/06/06   | 7:30 AM  | 27.5    | 27.5 | 27.5 | 0.3              | 0.4 | E         | 30     |
| 23/06/06   | 8:00 AM  | 28.0    | 28.4 | 27.7 | 1.0              | 2.0 | E         | 30     |
| 23/06/06   | 8:30 AM  | 29.0    | 29.1 | 28.9 | 0.6              | 1.8 | W         | 30     |
| 23/06/06   | 9:00 AM  | 29.1    | 29.4 | 28.8 | 0.1              | 1.1 | SE        | 30     |
| 23/06/06   | 9:30 AM  | 29.5    | 29.7 | 29.3 | 1.1              | 1.3 | SWS       | 30     |
| 23/06/06   | 10:00 AM | 30.0    | 30.4 | 29.7 | 0.6              | 1.3 | E         | 30     |
| 23/06/06   | 10:30 AM | 30.0    | 30.0 | 29.8 | 1.1              | 2.4 | N         | 30     |
| 23/06/06   | 11:00 AM | 31.2    | 31.3 | 31.2 | 1.7              | 3.8 | NEN       | 30     |
| 23/06/06   | 11:30 AM | 31.0    | 31.3 | 30.7 | 1.7              | 1.9 | SES       | 30     |
| 23/06/06   | 12:00 PM | 32.0    | 32.0 | 31.7 | 2.2              | 3.7 | SWS       | 30     |
| 23/06/06   | 12:30 PM | 32.2    | 32.5 | 32.1 | 2.2              | 4.3 | SWS       | 30     |
| 23/06/06   | 1:00 PM  | 32.0    | 32.4 | 31.8 | 2.3              | 4.2 | SWS       | 30     |
| 23/06/06   | 1:30 PM  | 32.8    | 32.8 | 32.6 | 2.4              | 3.7 | S         | 30     |
| 23/06/06   | 2:00 PM  | 32.1    | 32.1 | 31.9 | 2.8              | 3.4 | SWS       | 30     |
| 23/06/06   | 2:30 PM  | 32.8    | 32.9 | 32.7 | 2.6              | 4.9 | S         | 30     |
| 23/06/06   | 3:00 PM  | 32.2    | 32.4 | 32.1 | 2.4              | 4.5 | SWS       | 30     |
| 23/06/06   | 3:30 PM  | 32.0    | 32.3 | 31.9 | 2.2              | 3.3 | SWS       | 30     |
| 23/06/06   | 4:00 PM  | 31.5    | 31.5 | 31.3 | 2.9              | 3.0 | SWS       | 30     |
| 23/06/06   | 4:30 PM  | 30.5    | 30.6 | 30.3 | 2.8              | 4.1 | SWS       | 30     |
| 23/06/06   | 5:00 PM  | 30.1    | 30.3 | 29.9 | 2.2              | 2.8 | SWS       | 30     |
| 23/06/06   | 5:30 PM  | 30.0    | 30.3 | 29.7 | 1.7              | 1.8 | SWS       | 30     |
| 23/06/06   | 6:00 PM  | 29.1    | 29.5 | 29.1 | 1.5              | 2.2 | SWS       | 30     |
| 23/06/06   | 6:30 PM  | 28.8    | 29.2 | 28.5 | 1.5              | 2.2 | SWS       | 30     |
| 23/06/06   | 7:00 PM  | 28.8    | 28.9 | 28.6 | 2.6              | 3.2 | SW        | 30     |
| 23/06/06   | 7:30 PM  | 28.4    | 28.5 | 28.3 | 2.2              | 4.3 | SW        | 30     |
| 23/06/06   | 8:00 PM  | 28.2    | 28.4 | 28.1 | 2.6              | 2.7 | SW        | 30     |
| 23/06/06   | 8:30 PM  | 27.8    | 27.9 | 27.7 | 1.8              | 1.8 | SW        | 30     |
| 23/06/06   | 9:00 PM  | 27.8    | 28.0 | 27.5 | 2.0              | 3.0 | SW        | 30     |
| 23/06/06   | 9:30 PM  | 28.0    | 28.4 | 27.7 | 2.2              | 2.5 | SW        | 30     |
| 23/06/06   | 10:00 PM | 27.5    | 27.7 | 27.4 | 2.0              | 3.4 | SW        | 30     |
| 23/06/06   | 10:30 PM | 27.5    | 27.7 | 27.4 | 2.2              | 3.0 | SW        | 30     |
| 23/06/06   | 11:00PM  | 27.5    | 27.5 | 27.2 | 2.8              | 3.3 | SW        | 30     |
| 23/06/06   | 11:30PM  | 27.2    | 27.3 | 27.1 | 2.2              | 2.7 | SW        | 30     |
| 24/06/06   | 12:00 AM | 27.2    | 27.5 | 27.0 | 1.8              | 3.6 | SW        | 30     |
| 24/06/06   | 12:30AM  | 27.1    | 27.5 | 27.1 | 1.7              | 3.4 | SW        | 30     |
| 24/06/06   | 1:00 AM  | 27.0    | 27.3 | 26.9 | 2.2              | 3.1 | SWS       | 30     |
| 24/06/06   | 1:30 AM  | 27.2    | 27.5 | 27.1 | 2.0              | 3.0 | SW        | 30     |
| 24/06/06   | 2:00 AM  | 27.0    | 27.4 | 26.8 | 2.0              | 3.9 | SW        | 30     |
| 24/06/06   | 2:30 AM  | 27.0    | 27.0 | 26.8 | 1.5              | 3.7 | SW        | 30     |
| 24/06/06   | 3:00 AM  | 26.9    | 26.9 | 26.6 | 1.7              | 3.5 | SW        | 30     |
| 24/06/06   | 3:30 AM  | 26.5    | 26.8 | 26.3 | 1.7              | 3.9 | SW        | 30     |
| 24/06/06   | 4:00 AM  | 27.0    | 27.2 | 27.0 | 1.7              | 3.4 | SW        | 30     |
| 24/06/06   | 4:30 AM  | 26.1    | 26.4 | 25.8 | 1.1              | 3.4 | SW        | 30     |
| 24/06/06   | 5:00 AM  | 26.0    | 26.3 | 26.0 | 1.1              | 2.3 | SW        | 30     |
| 24/06/06   | 5:30 AM  | 26.1    | 26.2 | 25.9 | 1.6              | 2.3 | SW        | 30     |
| 24/06/06   | 6:00 AM  | 26.2    | 26.3 | 26.0 | 0.6              | 2.3 | SW        | 30     |
| 24/06/06   | 6:30 AM  | 27.0    | 27.0 | 26.9 | 0.6              | 2.5 | SEE       | 30     |
| 24/06/06   | 7:00 AM  | 28.0    | 28.3 | 27.7 | 0.4              | 0.8 | N         | 30     |
| 24/06/06   | 7:30 AM  | 28.5    | 28.8 | 28.5 | 2.0              | 2.0 | SWS       | 30     |
| 24/06/06   | 8:00 AM  | 29.0    | 29.1 | 28.9 | 1.2              | 2.1 | SWS       | 30     |
| 24/06/06   | 8:30 AM  | 29.5    | 29.7 | 29.3 | 1.7              | 2.8 | SWS       | 30     |
| 24/06/06   | 9:00 AM  | 30.8    | 31.0 | 30.7 | 1.7              | 3.5 | S         | 30     |
| 24/06/06   | 9:30 AM  | 31.5    | 31.6 | 31.3 | 1.7              | 2.8 | S         | 30     |
| 24/06/06   | 10:00 AM | 31.2    | 31.5 | 31.0 | 2.2              | 4.0 | SWS       | 30     |
| 24/06/06   | 10:30 AM | 31.5    | 31.5 | 31.2 | 1.9              | 2.2 | SWS       | 30     |
| 24/06/06   | 11:00 AM | 31.9    | 32.2 | 31.6 | 1.2              | 2.4 | SWS       | 30     |
| 24/06/06   | 11:30 AM | 32.2    | 32.2 | 31.9 | 1.7              | 2.7 | SWS       | 30     |
| 24/06/06   | 12:00 PM | 33.1    | 33.4 | 32.9 | 2.1              | 4.2 | SWS       | 30     |
| 24/06/06   | 12:30 PM | 33.6    | 33.6 | 33.4 | 1.8              | 2.2 | S         | 30     |
| 24/06/06   | 1:00 PM  | 33.7    | 33.9 | 33.7 | 1.6              | 2.2 | S         | 30     |
| 24/06/06   | 1:30 PM  | 33.8    | 34.1 | 33.5 | 1.9              | 2.9 | S         | 30     |
| 24/06/06   | 2:00 PM  | 33.7    | 33.8 | 33.5 | 2.1              | 2.3 | SWS       | 30     |
| 24/06/06   | 2:30 PM  | 33.7    | 34.0 | 33.5 | 0.8              | 1.5 | SWS       | 30     |
| 24/06/06   | 3:00 PM  | 33.7    | 33.7 | 33.6 | 1.2              | 2.9 | SWS       | 30     |
| 24/06/06   | 3:30 PM  | 33.8    | 33.9 | 33.7 | 1.5              | 2.5 | SW        | 30     |
| 24/06/06   | 4:00 PM  | 33.5    | 33.6 | 33.3 | 1.1              | 2.8 | SWS       | 30     |
| 24/06/06   | 4:30 PM  | 33.2    | 33.3 | 33.1 | 0.8              | 2.1 | SW        | 30     |
| 24/06/06   | 5:00 PM  | 32.9    | 33.3 | 32.7 | 1.2              | 2.9 | SW        | 30     |
| 24/06/06   | 5:30 PM  | 32.7    | 32.8 | 32.4 | 0.7              | 2.0 | SW        | 30     |
| 24/06/06   | 6:00 PM  | 32.5    | 32.6 | 32.4 | 0.9              | 2.5 | SW        | 30     |
| 24/06/06   | 6:30 PM  | 32.0    | 32.0 | 31.9 | 1.9              | 2.4 | SWS       | 30     |
| 24/06/06   | 7:00 PM  | 31.8    | 32.0 | 31.7 | 1.2              | 1.7 | SWS       | 30     |
| 24/06/06   | 7:30 PM  | 31.5    | 31.5 | 31.4 | 0.4              | 2.6 | SW        | 30     |
| 24/06/06   | 8:00 PM  | 31.2    | 31.5 | 31.0 | 0.8              | 1.2 | SW        | 30     |
| 24/06/06   | 8:30 PM  | 31.0    | 31.4 | 30.7 | 1.2              | 2.2 | SW        | 30     |
| 24/06/06   | 9:00 PM  | 30.6    | 31.0 | 30.3 | 1.3              | 1.3 | SWS       | 30     |
| 24/06/06   | 9:30 PM  | 30.1    | 30.3 | 30.0 | 1.6              | 1.8 | S         | 30     |
| 24/06/06   | 10:00 PM | 29.8    | 29.9 | 29.8 | 1.2              | 1.4 | S         | 30     |
| 24/06/06   | 10:30 PM | 28.8    | 29.2 | 28.6 | 0.9              | 3.2 | S         | 30     |
| 24/06/06   | 11:00 PM | 28.2    | 28.3 | 27.9 | 0.5              | 2.2 | SWS       | 30     |
| 24/06/06   | 11:30 PM | 27.8    | 27.9 | 27.5 | 0.8              | 2.2 | SWS       | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind      | Period |
|------------|----------|---------|------|------|------------------|-----|-----------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  | Direction |        |
| 25/06/06   | 12:00 AM | 27.6    | 27.9 | 27.5 | 1.1              | 2.6 | SWS       | 30     |
| 25/06/06   | 12:30 AM | 27.5    | 27.7 | 27.3 | 1.3              | 3.5 | SW        | 30     |
| 25/06/06   | 1:00 AM  | 27.6    | 27.8 | 27.4 | 1.0              | 3.3 | SWS       | 30     |
| 25/06/06   | 1:30 AM  | 27.4    | 27.8 | 27.2 | 1.3              | 3.3 | SW        | 30     |
| 25/06/06   | 2:00 AM  | 27.3    | 27.4 | 27.3 | 0.5              | 2.0 | SW        | 30     |
| 25/06/06   | 2:30 AM  | 27.1    | 27.2 | 26.9 | 0.7              | 0.8 | SW        | 30     |
| 25/06/06   | 3:00 AM  | 27.0    | 27.1 | 27.0 | 0.3              | 0.8 | SW        | 30     |
| 25/06/06   | 3:30 AM  | 27.2    | 27.5 | 27.1 | 1.2              | 3.3 | SWS       | 30     |
| 25/06/06   | 4:00 AM  | 27.2    | 27.4 | 27.1 | 1.9              | 2.5 | SWS       | 30     |
| 25/06/06   | 4:30 AM  | 27.0    | 27.3 | 26.9 | 2.1              | 2.2 | SW        | 30     |
| 25/06/06   | 5:00 AM  | 26.9    | 27.3 | 26.7 | 1.9              | 2.0 | SW        | 30     |
| 25/06/06   | 5:30 AM  | 27.2    | 27.5 | 27.1 | 1.4              | 3.2 | SW        | 30     |
| 25/06/06   | 6:00 AM  | 27.5    | 27.6 | 27.5 | 1.8              | 2.5 | SWS       | 30     |
| 25/06/06   | 6:30 AM  | 27.7    | 28.1 | 27.6 | 2.1              | 3.9 | SWS       | 30     |
| 25/06/06   | 7:00 AM  | 27.9    | 28.3 | 27.7 | 1.0              | 2.4 | SWS       | 30     |
| 25/06/06   | 7:30 AM  | 28.2    | 28.5 | 28.2 | 1.8              | 2.8 | SWS       | 30     |
| 25/06/06   | 8:00 AM  | 28.5    | 28.6 | 28.4 | 1.2              | 2.8 | SWS       | 30     |
| 25/06/06   | 8:30 AM  | 29.2    | 29.3 | 28.9 | 1.6              | 3.4 | SWS       | 30     |
| 25/06/06   | 9:00 AM  | 29.5    | 29.8 | 29.3 | 1.9              | 2.6 | SWS       | 30     |
| 25/06/06   | 9:30 AM  | 29.4    | 29.5 | 29.1 | 2.1              | 2.4 | SWS       | 30     |
| 25/06/06   | 10:00 AM | 29.5    | 29.8 | 29.3 | 1.3              | 2.3 | SWS       | 30     |
| 25/06/06   | 10:30 AM | 30.0    | 30.1 | 29.7 | 2.4              | 4.5 | SW        | 30     |
| 25/06/06   | 11:00 AM | 30.2    | 30.2 | 30.1 | 2.1              | 3.0 | SWS       | 30     |
| 25/06/06   | 11:30 AM | 30.9    | 31.0 | 30.8 | 1.9              | 3.3 | SWS       | 30     |
| 25/06/06   | 12:00 PM | 31.8    | 32.1 | 31.7 | 1.3              | 1.9 | S         | 30     |
| 25/06/06   | 12:30 PM | 32.1    | 32.4 | 31.9 | 1.6              | 2.2 | S         | 30     |
| 25/06/06   | 1:00 PM  | 32.5    | 32.9 | 32.4 | 1.3              | 2.6 | S         | 30     |
| 25/06/06   | 1:30 PM  | 32.8    | 33.2 | 32.6 | 1.1              | 2.1 | S         | 30     |
| 25/06/06   | 2:00 PM  | 33.2    | 33.4 | 33.1 | 1.9              | 4.1 | SWS       | 30     |
| 25/06/06   | 2:30 PM  | 33.4    | 33.5 | 33.2 | 1.4              | 2.2 | SWS       | 30     |
| 25/06/06   | 3:00 PM  | 33.3    | 33.7 | 33.2 | 1.2              | 2.5 | SWS       | 30     |
| 25/06/06   | 3:30 PM  | 33.2    | 33.5 | 33.1 | 1.5              | 1.5 | SW        | 30     |
| 25/06/06   | 4:00 PM  | 33.2    | 33.6 | 33.1 | 1.2              | 1.4 | SWS       | 30     |
| 25/06/06   | 4:30 PM  | 33.1    | 33.1 | 33.0 | 0.9              | 1.4 | SWS       | 30     |
| 25/06/06   | 5:00 PM  | 33.2    | 33.5 | 33.1 | 1.1              | 1.7 | SWS       | 30     |
| 25/06/06   | 5:30 PM  | 33.0    | 33.3 | 32.8 | 1.6              | 2.8 | SWS       | 30     |
| 25/06/06   | 6:00 PM  | 32.5    | 32.6 | 32.4 | 1.2              | 2.8 | SW        | 30     |
| 25/06/06   | 6:30 PM  | 31.9    | 32.2 | 31.8 | 2.0              | 3.3 | SW        | 30     |
| 25/06/06   | 7:00 PM  | 31.2    | 31.2 | 31.0 | 1.3              | 2.6 | SW        | 30     |
| 25/06/06   | 7:30 PM  | 30.5    | 30.7 | 30.3 | 0.8              | 1.6 | SW        | 30     |
| 25/06/06   | 8:00 PM  | 30.1    | 30.2 | 30.1 | 0.4              | 0.5 | SW        | 30     |
| 25/06/06   | 8:30 PM  | 29.5    | 29.9 | 29.5 | 0.9              | 1.8 | SWS       | 30     |
| 25/06/06   | 9:00 PM  | 29.0    | 29.3 | 28.8 | 1.3              | 3.3 | SWS       | 30     |
| 25/06/06   | 9:30 PM  | 28.7    | 28.7 | 28.4 | 1.2              | 1.6 | SW        | 30     |
| 25/06/06   | 10:00 PM | 28.5    | 28.6 | 28.4 | 1.6              | 2.9 | SW        | 30     |
| 25/06/06   | 10:30 PM | 28.4    | 28.5 | 28.1 | 1.1              | 3.3 | S         | 30     |
| 25/06/06   | 11:00 PM | 28.2    | 28.3 | 28.1 | 0.8              | 1.4 | S         | 30     |
| 25/06/06   | 11:30 PM | 28.2    | 28.2 | 28.1 | 1.2              | 3.1 | S         | 30     |
| 26/06/06   | 12:00 AM | 28.1    | 28.1 | 27.9 | 1.3              | 1.9 | S         | 30     |
| 26/06/06   | 12:30 AM | 28.0    | 28.1 | 27.8 | 1.5              | 2.6 | SWS       | 30     |
| 26/06/06   | 1:00 AM  | 27.9    | 27.9 | 27.7 | 0.4              | 0.7 | S         | 30     |
| 26/06/06   | 1:30 AM  | 28.0    | 28.0 | 27.8 | 0.9              | 2.5 | S         | 30     |
| 26/06/06   | 2:00 AM  | 28.0    | 28.3 | 27.9 | 1.2              | 2.4 | S         | 30     |
| 26/06/06   | 2:30 AM  | 27.9    | 27.9 | 27.8 | 1.1              | 2.4 | S         | 30     |
| 26/06/06   | 3:00 AM  | 27.8    | 28.2 | 27.8 | 1.7              | 2.9 | S         | 30     |
| 26/06/06   | 3:30 AM  | 27.9    | 27.9 | 27.7 | 1.5              | 3.1 | SWS       | 30     |
| 26/06/06   | 4:00 AM  | 27.9    | 28.2 | 27.7 | 1.6              | 2.3 | SWS       | 30     |
| 26/06/06   | 4:30 AM  | 27.9    | 28.2 | 27.8 | 0.8              | 2.6 | SWS       | 30     |
| 26/06/06   | 5:00 AM  | 27.8    | 28.2 | 27.5 | 0.6              | 1.1 | SWS       | 30     |
| 26/06/06   | 5:30 AM  | 28.0    | 28.2 | 28.0 | 2.0              | 2.1 | SW        | 30     |
| 26/06/06   | 6:00 AM  | 28.0    | 28.2 | 27.9 | 1.5              | 3.4 | SWS       | 30     |
| 26/06/06   | 6:30 AM  | 28.2    | 28.5 | 28.2 | 1.9              | 4.1 | SWS       | 30     |
| 26/06/06   | 7:00 AM  | 28.6    | 29.0 | 28.5 | 1.2              | 2.4 | SWS       | 30     |
| 26/06/06   | 7:30 AM  | 29.1    | 29.4 | 29.1 | 2.1              | 2.2 | SWS       | 30     |
| 26/06/06   | 8:00 AM  | 29.6    | 29.7 | 29.4 | 1.6              | 2.1 | S         | 30     |
| 26/06/06   | 8:30 AM  | 30.2    | 30.3 | 30.2 | 1.2              | 3.0 | S         | 30     |
| 26/06/06   | 9:00 AM  | 30.3    | 30.4 | 30.2 | 1.6              | 2.9 | S         | 30     |
| 26/06/06   | 9:30 AM  | 30.3    | 30.3 | 30.3 | 1.4              | 2.4 | SWS       | 30     |
| 26/06/06   | 10:00 AM | 30.7    | 31.0 | 30.5 | 2.0              | 2.7 | S         | 30     |
| 26/06/06   | 10:30 AM | 31.0    | 31.3 | 30.7 | 2.2              | 4.4 | SEE       | 30     |
| 26/06/06   | 11:00 AM | 32.0    | 32.0 | 31.9 | 2.2              | 2.6 | SEE       | 30     |
| 26/06/06   | 11:30 AM | 31.5    | 31.9 | 31.3 | 2.2              | 3.4 | E         | 30     |
| 26/06/06   | 12:00 PM | 32.0    | 32.2 | 31.9 | 2.2              | 4.5 | SEE       | 30     |
| 26/06/06   | 12:30 PM | 31.5    | 31.8 | 31.2 | 2.8              | 4.8 | NE        | 30     |
| 26/06/06   | 1:00 PM  | 31.0    | 31.0 | 30.8 | 2.3              | 2.9 | E         | 30     |
| 26/06/06   | 1:30 PM  | 32.1    | 32.4 | 31.9 | 2.4              | 3.7 | SEE       | 30     |
| 26/06/06   | 2:00 PM  | 32.6    | 32.6 | 32.4 | 2.8              | 4.5 | NEE       | 30     |
| 26/06/06   | 2:30 PM  | 33.0    | 33.3 | 32.9 | 2.2              | 2.3 | E         | 30     |
| 26/06/06   | 3:00 PM  | 32.8    | 32.8 | 32.6 | 2.4              | 3.6 | NEE       | 30     |
| 26/06/06   | 3:30 PM  | 32.6    | 32.8 | 32.5 | 2.8              | 4.5 | SEE       | 30     |
| 26/06/06   | 4:00 PM  | 32.1    | 32.3 | 32.0 | 2.2              | 2.9 | SEE       | 30     |
| 26/06/06   | 4:30 PM  | 30.9    | 31.2 | 30.7 | 1.7              | 3.3 | E         | 30     |
| 26/06/06   | 5:00 PM  | 30.0    | 30.1 | 29.7 | 2.2              | 3.5 | NE        | 30     |
| 26/06/06   | 5:30 PM  | 29.9    | 30.1 | 29.7 | 2.2              | 4.0 | SEE       | 30     |
| 26/06/06   | 6:00 PM  | 29.0    | 29.3 | 28.9 | 1.7              | 3.1 | SEE       | 30     |
| 26/06/06   | 6:30 PM  | 28.8    | 29.0 | 28.8 | 2.6              | 3.1 | SEE       | 30     |
| 26/06/06   | 7:00 PM  | 28.5    | 28.7 | 28.4 | 1.1              | 3.2 | SE        | 30     |
| 26/06/06   | 7:30 PM  | 28.6    | 29.0 | 28.5 | 1.6              | 3.0 | SE        | 30     |
| 26/06/06   | 8:00 PM  | 28.8    | 28.8 | 28.7 | 1.7              | 1.8 | SE        | 30     |
| 26/06/06   | 8:30 PM  | 28.9    | 29.1 | 28.7 | 1.5              | 2.6 | SE        | 30     |
| 26/06/06   | 9:00 PM  | 28.9    | 29.0 | 28.6 | 1.5              | 2.7 | SE        | 30     |
| 26/06/06   | 9:30 PM  | 28.5    | 28.8 | 28.5 | 1.7              | 3.5 | SE        | 30     |
| 26/06/06   | 10:00 PM | 29.0    | 29.1 | 28.8 | 1.5              | 2.3 | SE        | 30     |
| 26/06/06   | 10:30 PM | 29.0    | 29.3 | 28.9 | 1.8              | 2.0 | SE        | 30     |
| 26/06/06   | 11:00 PM | 29.0    | 29.1 | 28.9 | 2.2              | 2.4 | SE        | 30     |
| 26/06/06   | 11:30 PM | 29.0    | 29.1 | 29.0 | 2.1              | 2.2 | SE        | 30     |





Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind Direction | Period |
|------------|----------|---------|------|------|------------------|-----|----------------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  |                |        |
| 27/06/06   | 12:00 AM | 29.0    | 29.4 | 29.0 | 2.1              | 2.4 | SE             | 30     |
| 27/06/06   | 12:30 AM | 28.8    | 28.9 | 28.6 | 1.7              | 2.2 | SE             | 30     |
| 27/06/06   | 1:00 AM  | 28.9    | 29.3 | 28.7 | 1.1              | 1.9 | SE             | 30     |
| 27/06/06   | 1:30 AM  | 28.1    | 28.2 | 28.1 | 1.1              | 1.7 | SEE            | 30     |
| 27/06/06   | 2:00 AM  | 28.1    | 28.1 | 27.8 | 2.1              | 3.0 | SE             | 30     |
| 27/06/06   | 2:30 AM  | 28.0    | 28.2 | 27.8 | 1.0              | 1.5 | SE             | 30     |
| 27/06/06   | 3:00 AM  | 27.8    | 27.8 | 27.7 | 0.6              | 2.7 | SE             | 30     |
| 27/06/06   | 3:30 AM  | 27.5    | 27.9 | 27.3 | 0.1              | 0.2 | NE             | 30     |
| 27/06/06   | 4:00 AM  | 27.6    | 27.8 | 27.4 | 1.1              | 2.6 | NEE            | 30     |
| 27/06/06   | 4:30 AM  | 27.5    | 27.8 | 27.3 | 0.6              | 1.8 | NE             | 30     |
| 27/06/06   | 5:00 AM  | 27.2    | 27.5 | 27.1 | 0.6              | 2.6 | NW             | 30     |
| 27/06/06   | 5:30 AM  | 27.1    | 27.3 | 27.0 | 0.6              | 1.8 | N              | 30     |
| 27/06/06   | 6:00 AM  | 27.0    | 27.2 | 26.8 | 0.1              | 0.8 | N              | 30     |
| 27/06/06   | 6:30 AM  | 27.5    | 27.7 | 27.4 | 3.2              | 5.0 | NEE            | 30     |
| 27/06/06   | 7:00 AM  | 26.5    | 26.6 | 26.4 | 1.0              | 1.8 | NWW            | 30     |
| 27/06/06   | 7:30 AM  | 26.0    | 26.2 | 26.0 | 2.8              | 5.0 | N              | 30     |
| 27/06/06   | 8:00 AM  | 26.5    | 26.8 | 26.3 | 1.2              | 2.9 | NW             | 30     |
| 27/06/06   | 8:30 AM  | 26.8    | 27.0 | 26.5 | 0.4              | 0.5 | N              | 30     |
| 27/06/06   | 9:00 AM  | 27.1    | 27.4 | 26.9 | 0.4              | 2.6 | N              | 30     |
| 27/06/06   | 9:30 AM  | 28.0    | 28.4 | 28.0 | 2.2              | 3.8 | NEN            | 30     |
| 27/06/06   | 10:00 AM | 29.8    | 30.0 | 29.7 | 2.8              | 3.3 | N              | 30     |
| 27/06/06   | 10:30 AM | 30.0    | 30.4 | 30.0 | 3.2              | 3.6 | E              | 30     |
| 27/06/06   | 11:00 AM | 30.0    | 30.0 | 29.9 | 2.5              | 2.6 | NE             | 30     |
| 27/06/06   | 11:30 AM | 29.5    | 29.6 | 29.3 | 1.5              | 2.9 | SE             | 30     |
| 27/06/06   | 12:00 PM | 30.2    | 30.4 | 30.1 | 2.5              | 3.5 | NE             | 30     |
| 27/06/06   | 12:30 PM | 30.9    | 30.9 | 30.8 | 3.1              | 4.7 | NEE            | 30     |
| 27/06/06   | 1:00 PM  | 30.8    | 31.1 | 30.6 | 2.5              | 3.9 | NEE            | 30     |
| 27/06/06   | 1:30 PM  | 30.9    | 31.1 | 30.7 | 3.4              | 4.2 | NEE            | 30     |
| 27/06/06   | 2:00 PM  | 30.5    | 30.6 | 30.3 | 3.6              | 5.9 | NEE            | 30     |
| 27/06/06   | 2:30 PM  | 31.4    | 31.5 | 31.2 | 3.1              | 5.0 | NE             | 30     |
| 27/06/06   | 3:00 PM  | 30.6    | 31.0 | 30.4 | 3.0              | 5.2 | NE             | 30     |
| 27/06/06   | 3:30 PM  | 30.2    | 30.4 | 30.0 | 3.1              | 4.4 | NEE            | 30     |
| 27/06/06   | 4:00 PM  | 30.7    | 31.1 | 30.7 | 2.5              | 4.2 | NEE            | 30     |
| 27/06/06   | 4:30 PM  | 30.6    | 30.6 | 30.6 | 2.5              | 4.7 | NEE            | 30     |
| 27/06/06   | 5:00 PM  | 29.8    | 30.0 | 29.8 | 2.5              | 4.7 | SE             | 30     |
| 27/06/06   | 5:30 PM  | 29.8    | 30.1 | 29.7 | 2.5              | 3.0 | SE             | 30     |
| 27/06/06   | 6:00 PM  | 29.7    | 30.1 | 29.6 | 1.7              | 3.6 | SE             | 30     |
| 27/06/06   | 6:30 PM  | 29.3    | 29.4 | 29.1 | 2.5              | 4.4 | SE             | 30     |
| 27/06/06   | 7:00 PM  | 29.2    | 29.4 | 29.0 | 1.4              | 3.6 | SE             | 30     |
| 27/06/06   | 7:30 PM  | 29.1    | 29.2 | 29.0 | 2.5              | 4.7 | SEE            | 30     |
| 27/06/06   | 8:00 PM  | 29.0    | 29.3 | 28.7 | 1.9              | 2.3 | SEE            | 30     |
| 27/06/06   | 8:30 PM  | 29.0    | 29.1 | 28.9 | 2.5              | 3.7 | SEE            | 30     |
| 27/06/06   | 9:00 PM  | 29.0    | 29.1 | 29.0 | 2.3              | 3.6 | SEE            | 30     |
| 27/06/06   | 9:30 PM  | 29.0    | 29.0 | 28.9 | 2.5              | 2.6 | SEE            | 30     |
| 27/06/06   | 10:00 PM | 29.1    | 29.3 | 29.0 | 1.9              | 3.0 | SE             | 30     |
| 27/06/06   | 10:30 PM | 29.0    | 29.1 | 29.0 | 2.6              | 4.1 | SEE            | 30     |
| 27/06/06   | 11:00 PM | 29.1    | 29.3 | 28.9 | 1.9              | 2.2 | SEE            | 30     |
| 27/06/06   | 11:30 PM | 29.0    | 29.4 | 29.0 | 2.1              | 3.0 | SE             | 30     |
| 28/06/06   | 12:00 AM | 29.0    | 29.2 | 28.7 | 2.7              | 3.1 | SEE            | 30     |
| 28/06/06   | 12:30 AM | 28.8    | 29.0 | 28.7 | 2.5              | 2.6 | SEE            | 30     |
| 28/06/06   | 1:00 AM  | 28.8    | 29.1 | 28.6 | 3.6              | 4.5 | SEE            | 30     |
| 28/06/06   | 1:30 AM  | 28.2    | 28.4 | 28.1 | 3.1              | 4.7 | SE             | 30     |
| 28/06/06   | 2:00 AM  | 28.8    | 28.9 | 28.7 | 2.5              | 3.9 | SEE            | 30     |
| 28/06/06   | 2:30 AM  | 28.2    | 28.5 | 27.9 | 3.0              | 4.6 | SEE            | 30     |
| 28/06/06   | 3:00 AM  | 28.8    | 28.9 | 28.6 | 3.1              | 3.2 | SEE            | 30     |
| 28/06/06   | 3:30 AM  | 28.8    | 29.2 | 28.7 | 2.5              | 2.9 | SEE            | 30     |
| 28/06/06   | 4:00 AM  | 27.6    | 27.8 | 27.5 | 3.1              | 4.8 | SEE            | 30     |
| 28/06/06   | 4:30 AM  | 27.6    | 27.8 | 27.4 | 3.1              | 5.2 | SEE            | 30     |
| 28/06/06   | 5:00 AM  | 27.8    | 28.0 | 27.7 | 2.5              | 3.4 | SEE            | 30     |
| 28/06/06   | 5:30 AM  | 27.8    | 28.0 | 27.7 | 3.1              | 3.2 | SEE            | 30     |
| 28/06/06   | 6:00 AM  | 28.0    | 28.1 | 27.9 | 3.1              | 4.8 | SEE            | 30     |
| 28/06/06   | 6:30 AM  | 28.0    | 28.4 | 27.7 | 2.5              | 3.9 | SE             | 30     |
| 28/06/06   | 7:00 AM  | 28.5    | 28.8 | 28.5 | 3.1              | 4.9 | SE             | 30     |
| 28/06/06   | 7:30 AM  | 28.6    | 28.7 | 28.3 | 2.5              | 4.8 | SE             | 30     |
| 28/06/06   | 8:00 AM  | 28.0    | 28.2 | 27.8 | 2.5              | 4.4 | SE             | 30     |
| 28/06/06   | 8:30 AM  | 28.0    | 28.1 | 27.7 | 3.0              | 4.6 | E              | 30     |
| 28/06/06   | 9:00 AM  | 28.0    | 28.2 | 27.9 | 3.6              | 4.8 | SE             | 30     |
| 28/06/06   | 9:30 AM  | 28.2    | 28.3 | 28.1 | 1.9              | 2.3 | SE             | 30     |
| 28/06/06   | 10:00 AM | 28.4    | 28.8 | 28.4 | 2.5              | 4.6 | SE             | 30     |
| 28/06/06   | 10:30 AM | 28.4    | 28.7 | 28.2 | 1.4              | 3.0 | SE             | 30     |
| 28/06/06   | 11:00 AM | 28.4    | 28.4 | 28.1 | 1.8              | 2.2 | E              | 30     |
| 28/06/06   | 11:30 AM | 28.6    | 28.9 | 28.4 | 2.1              | 3.9 | SE             | 30     |
| 28/06/06   | 12:00 PM | 28.7    | 28.9 | 28.5 | 1.9              | 2.8 | SEE            | 30     |
| 28/06/06   | 12:30 PM | 28.8    | 29.1 | 28.5 | 2.5              | 3.6 | SEE            | 30     |
| 28/06/06   | 1:00 PM  | 28.7    | 29.0 | 28.6 | 2.9              | 3.5 | SE             | 30     |
| 28/06/06   | 1:30 PM  | 28.8    | 29.2 | 28.6 | 1.4              | 1.6 | SE             | 30     |
| 28/06/06   | 2:00 PM  | 28.6    | 29.0 | 28.4 | 2.1              | 2.4 | SE             | 30     |
| 28/06/06   | 2:30 PM  | 28.7    | 28.9 | 28.6 | 2.4              | 3.8 | SE             | 30     |
| 28/06/06   | 3:00 PM  | 28.7    | 28.8 | 28.5 | 1.1              | 3.1 | SE             | 30     |
| 28/06/06   | 3:30 PM  | 28.6    | 28.9 | 28.6 | 1.5              | 2.9 | SE             | 30     |
| 28/06/06   | 4:00 PM  | 28.7    | 29.1 | 28.6 | 1.9              | 1.9 | SEE            | 30     |
| 28/06/06   | 4:30 PM  | 28.7    | 28.8 | 28.5 | 2.2              | 2.4 | E              | 30     |
| 28/06/06   | 5:00 PM  | 28.4    | 28.4 | 28.1 | 1.5              | 3.3 | E              | 30     |
| 28/06/06   | 5:30 PM  | 28.2    | 28.3 | 28.1 | 1.9              | 2.7 | E              | 30     |
| 28/06/06   | 6:00 PM  | 27.9    | 28.0 | 27.9 | 1.2              | 3.2 | SE             | 30     |
| 28/06/06   | 6:30 PM  | 27.7    | 28.0 | 27.4 | 1.9              | 2.5 | SE             | 30     |
| 28/06/06   | 7:00 PM  | 27.6    | 28.0 | 27.5 | 2.2              | 4.4 | SE             | 30     |
| 28/06/06   | 7:30 PM  | 27.7    | 28.1 | 27.6 | 2.6              | 3.2 | SE             | 30     |
| 28/06/06   | 8:00 PM  | 27.5    | 27.7 | 27.4 | 2.7              | 3.2 | SEE            | 30     |
| 28/06/06   | 8:30 PM  | 27.3    | 27.6 | 27.2 | 2.1              | 4.4 | SE             | 30     |
| 28/06/06   | 9:00 PM  | 27.2    | 27.3 | 27.1 | 1.8              | 4.0 | SE             | 30     |
| 28/06/06   | 9:30 PM  | 27.3    | 27.3 | 27.2 | 1.3              | 3.2 | SE             | 30     |
| 28/06/06   | 10:00 PM | 27.2    | 27.4 | 27.1 | 1.9              | 2.3 | S              | 30     |
| 28/06/06   | 10:30 PM | 27.0    | 27.3 | 26.9 | 2.1              | 2.1 | SE             | 30     |
| 28/06/06   | 11:00 PM | 27.0    | 27.4 | 26.9 | 2.9              | 4.2 | S              | 30     |
| 28/06/06   | 11:30 PM | 26.9    | 27.2 | 26.7 | 2.1              | 3.3 | S              | 30     |



Weather information in June 2006

| Date (DMY) | Time     | Average | Hi   | Low  | Wind Speed (m/s) |     | Wind Direction | Period |
|------------|----------|---------|------|------|------------------|-----|----------------|--------|
|            |          | Temp    | Temp | Temp | Average          | Hi  |                |        |
| 29/06/06   | 12:00 AM | 26.9    | 27.1 | 26.8 | 2.3              | 3.2 | S              | 30     |
| 29/06/06   | 12:30 AM | 26.8    | 26.8 | 26.5 | 2.0              | 3.2 | SE             | 30     |
| 29/06/06   | 1:00 AM  | 26.9    | 27.2 | 26.8 | 2.0              | 2.2 | SEE            | 30     |
| 29/06/06   | 1:30 AM  | 26.7    | 26.8 | 26.6 | 2.4              | 2.8 | SE             | 30     |
| 29/06/06   | 2:00 AM  | 26.7    | 26.7 | 26.7 | 2.8              | 4.0 | E              | 30     |
| 29/06/06   | 2:30 AM  | 26.5    | 26.7 | 26.3 | 1.9              | 2.5 | SE             | 30     |
| 29/06/06   | 3:00 AM  | 26.6    | 26.9 | 26.3 | 2.1              | 4.0 | SE             | 30     |
| 29/06/06   | 3:30 AM  | 26.6    | 26.8 | 26.4 | 2.1              | 4.1 | SE             | 30     |
| 29/06/06   | 4:00 AM  | 26.7    | 27.1 | 26.5 | 2.9              | 4.6 | SE             | 30     |
| 29/06/06   | 4:30 AM  | 26.5    | 26.6 | 26.4 | 1.2              | 1.2 | SE             | 30     |
| 29/06/06   | 5:00 AM  | 26.4    | 26.6 | 26.1 | 1.8              | 3.0 | SE             | 30     |
| 29/06/06   | 5:30 AM  | 26.5    | 26.6 | 26.3 | 1.3              | 3.5 | SE             | 30     |
| 29/06/06   | 6:00 AM  | 26.7    | 27.0 | 26.4 | 2.9              | 3.4 | SE             | 30     |
| 29/06/06   | 6:30 AM  | 26.9    | 27.2 | 26.6 | 2.1              | 2.5 | SE             | 30     |
| 29/06/06   | 7:00 AM  | 26.8    | 26.9 | 26.7 | 0.8              | 2.6 | SEE            | 30     |
| 29/06/06   | 7:30 AM  | 26.9    | 27.0 | 26.7 | 2.1              | 2.8 | E              | 30     |
| 29/06/06   | 8:00 AM  | 27.0    | 27.3 | 26.8 | 2.5              | 3.8 | SE             | 30     |
| 29/06/06   | 8:30 AM  | 27.5    | 27.8 | 27.5 | 2.9              | 3.8 | E              | 30     |
| 29/06/06   | 9:00 AM  | 28.3    | 28.7 | 28.0 | 1.5              | 2.7 | SE             | 30     |
| 29/06/06   | 9:30 AM  | 29.8    | 30.2 | 29.6 | 1.9              | 3.1 | E              | 30     |
| 29/06/06   | 10:00 AM | 29.8    | 30.2 | 29.6 | 2.0              | 3.1 | E              | 30     |
| 29/06/06   | 10:30 AM | 30.0    | 30.3 | 29.9 | 2.8              | 3.2 | SE             | 30     |
| 29/06/06   | 11:00 AM | 30.1    | 30.3 | 30.0 | 2.8              | 3.5 | SE             | 30     |
| 29/06/06   | 11:30 AM | 30.2    | 30.3 | 30.1 | 2.8              | 3.1 | SEE            | 30     |
| 29/06/06   | 12:00 PM | 30.6    | 30.7 | 30.5 | 2.8              | 3.6 | SE             | 30     |
| 29/06/06   | 12:30 PM | 30.5    | 30.8 | 30.4 | 2.2              | 3.7 | SEE            | 30     |
| 29/06/06   | 1:00 PM  | 30.9    | 31.0 | 30.7 | 1.8              | 2.2 | SE             | 30     |
| 29/06/06   | 1:30 PM  | 30.2    | 30.5 | 30.2 | 2.2              | 2.6 | SEE            | 30     |
| 29/06/06   | 2:00 PM  | 30.0    | 30.2 | 29.7 | 2.8              | 3.9 | E              | 30     |
| 29/06/06   | 2:30 PM  | 30.0    | 30.3 | 30.0 | 3.3              | 3.9 | SEE            | 30     |
| 29/06/06   | 3:00 PM  | 30.0    | 30.1 | 29.9 | 3.9              | 4.0 | SEE            | 30     |
| 29/06/06   | 3:30 PM  | 30.0    | 30.3 | 29.8 | 3.3              | 4.3 | SEE            | 30     |
| 29/06/06   | 4:00 PM  | 30.0    | 30.3 | 29.8 | 2.2              | 3.4 | SEE            | 30     |
| 29/06/06   | 4:30 PM  | 29.8    | 30.0 | 29.5 | 2.8              | 3.8 | SEE            | 30     |
| 29/06/06   | 5:00 PM  | 29.6    | 29.7 | 29.5 | 2.6              | 4.4 | SEE            | 30     |
| 29/06/06   | 5:30 PM  | 29.4    | 29.4 | 29.2 | 2.2              | 3.0 | SE             | 30     |
| 29/06/06   | 6:00 PM  | 29.0    | 29.0 | 28.7 | 1.7              | 2.1 | SE             | 30     |
| 29/06/06   | 6:30 PM  | 28.6    | 28.7 | 28.4 | 1.7              | 3.7 | E              | 30     |
| 29/06/06   | 7:00 PM  | 28.6    | 28.6 | 28.4 | 2.2              | 2.9 | SE             | 30     |
| 29/06/06   | 7:30 PM  | 28.0    | 28.3 | 27.8 | 2.1              | 2.2 | SEE            | 30     |
| 29/06/06   | 8:00 PM  | 27.8    | 28.1 | 27.6 | 2.4              | 3.0 | E              | 30     |
| 29/06/06   | 8:30 PM  | 27.8    | 28.0 | 27.7 | 2.8              | 3.0 | SEE            | 30     |
| 29/06/06   | 9:00 PM  | 27.9    | 28.2 | 27.7 | 2.8              | 4.3 | SEE            | 30     |
| 29/06/06   | 9:30 PM  | 27.9    | 28.2 | 27.6 | 3.3              | 3.3 | SEE            | 30     |
| 29/06/06   | 10:00 PM | 28.0    | 28.1 | 27.9 | 2.8              | 3.8 | SEE            | 30     |
| 29/06/06   | 10:30 PM | 28.0    | 28.2 | 27.7 | 2.8              | 3.1 | SEE            | 30     |
| 29/06/06   | 11:00 PM | 28.0    | 28.2 | 27.7 | 1.7              | 3.3 | SEE            | 30     |
| 29/06/06   | 11:30 PM | 28.1    | 28.5 | 28.0 | 1.7              | 2.2 | SE             | 30     |
| 30/06/06   | 12:00 AM | 28.1    | 28.4 | 27.9 | 1.1              | 2.8 | SEE            | 30     |
| 30/06/06   | 12:30 AM | 28.2    | 28.4 | 28.0 | 1.7              | 2.1 | SE             | 30     |
| 30/06/06   | 1:00 AM  | 28.1    | 28.3 | 28.0 | 1.7              | 3.8 | SE             | 30     |
| 30/06/06   | 1:30 AM  | 28.1    | 28.4 | 28.0 | 2.8              | 3.3 | SE             | 30     |
| 30/06/06   | 2:00 AM  | 28.2    | 28.3 | 28.1 | 2.8              | 4.0 | SE             | 30     |
| 30/06/06   | 2:30 AM  | 28.0    | 28.1 | 27.8 | 2.2              | 4.1 | SE             | 30     |
| 30/06/06   | 3:00 AM  | 26.8    | 27.2 | 26.6 | 2.2              | 3.5 | SEE            | 30     |
| 30/06/06   | 3:30 AM  | 26.9    | 27.1 | 26.7 | 2.8              | 4.0 | SEE            | 30     |
| 30/06/06   | 4:00 AM  | 26.8    | 27.1 | 26.6 | 0.8              | 2.1 | SW             | 30     |
| 30/06/06   | 4:30 AM  | 26.0    | 26.1 | 25.7 | 0.6              | 1.4 | NW             | 30     |
| 30/06/06   | 5:00 AM  | 26.2    | 26.5 | 26.1 | 0.4              | 2.0 | S              | 30     |
| 30/06/06   | 5:30 AM  | 26.1    | 26.3 | 25.8 | 0.4              | 1.2 | NW             | 30     |
| 30/06/06   | 6:00 AM  | 26.2    | 26.4 | 25.9 | 1.1              | 2.0 | SE             | 30     |
| 30/06/06   | 6:30 AM  | 26.5    | 26.6 | 26.5 | 1.7              | 3.0 | SE             | 30     |
| 30/06/06   | 7:00 AM  | 26.5    | 26.7 | 26.3 | 2.2              | 3.7 | SEE            | 30     |
| 30/06/06   | 7:30 AM  | 27.8    | 28.2 | 27.6 | 2.2              | 4.4 | SEE            | 30     |
| 30/06/06   | 8:00 AM  | 27.9    | 28.3 | 27.9 | 2.2              | 3.3 | SE             | 30     |
| 30/06/06   | 8:30 AM  | 28.2    | 28.5 | 28.1 | 2.6              | 3.0 | SE             | 30     |
| 30/06/06   | 9:00 AM  | 28.4    | 28.5 | 28.4 | 2.4              | 3.3 | SE             | 30     |
| 30/06/06   | 9:30 AM  | 29.0    | 29.2 | 28.8 | 3.3              | 5.2 | SE             | 30     |
| 30/06/06   | 10:00 AM | 29.2    | 29.2 | 29.1 | 1.5              | 2.9 | SE             | 30     |
| 30/06/06   | 10:30 AM | 29.3    | 29.6 | 29.3 | 1.6              | 2.5 | SE             | 30     |
| 30/06/06   | 11:00 AM | 29.0    | 29.2 | 28.9 | 2.9              | 3.2 | SE             | 30     |
| 30/06/06   | 11:30 AM | 29.2    | 29.4 | 29.1 | 2.1              | 4.0 | S              | 30     |
| 30/06/06   | 12:00 PM | 29.2    | 29.5 | 28.9 | 3.0              | 4.9 | S              | 30     |
| 30/06/06   | 12:30 PM | 29.3    | 29.4 | 29.1 | 1.9              | 1.9 | SE             | 30     |
| 30/06/06   | 1:00 PM  | 29.1    | 29.2 | 28.9 | 2.2              | 4.4 | SE             | 30     |
| 30/06/06   | 1:30 PM  | 29.2    | 29.3 | 29.0 | 1.3              | 1.4 | SEE            | 30     |
| 30/06/06   | 2:00 PM  | 29.1    | 29.4 | 28.9 | 2.9              | 4.9 | SE             | 30     |
| 30/06/06   | 2:30 PM  | 29.0    | 29.1 | 28.9 | 2.2              | 3.3 | S              | 30     |
| 30/06/06   | 3:00 PM  | 29.1    | 29.3 | 28.9 | 2.9              | 3.8 | E              | 30     |
| 30/06/06   | 3:30 PM  | 29.2    | 29.4 | 29.1 | 2.1              | 2.3 | E              | 30     |
| 30/06/06   | 4:00 PM  | 29.2    | 29.3 | 29.2 | 3.0              | 3.0 | SE             | 30     |
| 30/06/06   | 4:30 PM  | 29.1    | 29.4 | 28.8 | 2.9              | 4.4 | E              | 30     |
| 30/06/06   | 5:00 PM  | 28.9    | 29.2 | 28.7 | 2.3              | 2.4 | SE             | 30     |
| 30/06/06   | 5:30 PM  | 28.8    | 29.1 | 28.7 | 2.1              | 3.8 | SE             | 30     |
| 30/06/06   | 6:00 PM  | 28.8    | 28.9 | 28.6 | 2.1              | 3.9 | SE             | 30     |
| 30/06/06   | 6:30 PM  | 28.7    | 28.9 | 28.4 | 1.9              | 3.4 | SE             | 30     |
| 30/06/06   | 7:00 PM  | 28.6    | 28.7 | 28.4 | 2.4              | 2.6 | SE             | 30     |
| 30/06/06   | 7:30 PM  | 28.6    | 28.9 | 28.4 | 2.1              | 4.2 | SE             | 30     |
| 30/06/06   | 8:00 PM  | 28.5    | 28.8 | 28.2 | 2.9              | 3.9 | SEE            | 30     |
| 30/06/06   | 8:30 PM  | 28.6    | 28.7 | 28.6 | 2.5              | 4.3 | E              | 30     |
| 30/06/06   | 9:00 PM  | 28.5    | 28.9 | 28.4 | 2.1              | 3.0 | E              | 30     |
| 30/06/06   | 9:30 PM  | 28.5    | 28.6 | 28.4 | 2.9              | 4.0 | SE             | 30     |
| 30/06/06   | 10:00 PM | 28.4    | 28.6 | 28.2 | 2.4              | 3.4 | SE             | 30     |
| 30/06/06   | 10:30 PM | 28.3    | 28.3 | 28.1 | 1.9              | 2.0 | SE             | 30     |
| 30/06/06   | 11:00 PM | 28.3    | 28.4 | 28.0 | 1.7              | 3.0 | SE             | 30     |
| 30/06/06   | 11:30 PM | 28.0    | 28.0 | 27.8 | 1.9              | 2.4 | SE             | 30     |



## **Appendix F**

### **Event-Action Plans**

## EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

| EVENT   |   | ACTION   |  |   | Contractor |  |
|---|---|--|--|---|------------|--|
| ET Leader   |   | IC(E)  | ER   |   |            |  |
|   |   | ACTION LEVEL   |  |   |            |  |
| 1. Exceedance for one sample                      | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>2. Inform ER, IC(E) and Contractor</li> <li>3. Repeat measurement to confirm finding</li> <li>4. Increase monitoring frequency to daily</li> </ol>   | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET</li> <li>2. Check contractor's working method</li> </ol>   | <ol style="list-style-type: none"> <li>1. Notify Contractor</li> </ol>   | <ol style="list-style-type: none"> <li>1. Rectify any unacceptable practise</li> <li>2. Amend working methods if appropriate</li> </ol>   |            |  |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>2. Inform IC(E) and Contractor</li> <li>3. Repeat measurements to confirm finding</li> <li>4. Increase monitoring frequency to daily</li> <li>5. Discuss with IC(E) and Contractor on remedial actions</li> <li>6. If exceedance continues, arrange meeting with IC(E) and ER.</li> <li>7. If exceedance stops, cease additional monitoring</li> </ol> | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET</li> <li>2. Check the Contractor's working method</li> <li>3. Discuss with ET and Contractor on possible remedial measures</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures</li> <li>5. Supervise implementation of remedial measures</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing</li> <li>2. Notify the Contractor</li> <li>3. Ensure remedial measures properly implemented</li> </ol> | <ol style="list-style-type: none"> <li>1. Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>2. Implement the agreed proposals</li> <li>3. Amend proposal if appropriate</li> </ol>  |            |  |
|   |   | LIMIT LEVEL  |  |   |            |  |
| 1. Exceedance for one sample                      | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>2. Inform ER, Contractor and EPD</li> <li>3. Repeat measurement to confirm finding</li> <li>4. Increase monitoring frequency to daily</li> <li>5. Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results</li> </ol>  | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET</li> <li>2. Check Contractor's working method</li> <li>3. Discuss with ET and Contractor on possible remedial measures</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures</li> <li>5. Supervise implementation of remedial measures</li> </ol>     | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing</li> <li>2. Notify the Contractor</li> <li>3. Ensure remedial measures properly implemented</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>3. Implement the agreed proposals</li> <li>4. Amend proposal if appropriate.</li> </ol> |            |  |

## EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

| EVENT  | ACTION  |  |  | Contractor   |
|--|---|--|--|--|
|  | ET Leader   | IC(E)  | ER   |  |
| <p>2. Exceedance for two or more consecutive samples</p> | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>2. Notify IC(E), ER, EPD and Contractor</li> <li>3. Repeat measurement to confirm finding</li> <li>4. Increase monitoring frequency to daily</li> <li>5. Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented</li> <li>6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results</li> <li>8. If exceedance stops, cease additional monitoring</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET and Contractor on the potential remedial actions</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly</li> <li>3. Supervise the implementation of remedial measures</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing</li> <li>2. Notify Contractor</li> <li>3. In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. If exceedances continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedances</li> <li>2. Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>3. Implement the agreed proposals</li> <li>4. Resubmit proposals if problem still not under control</li> <li>5. Stop the relevant activity of works as determined by the ER until the exceedance is abated</li> </ol> |

## EVENT/ACTION PLAN FOR NOISE EXCEEDANCE

| EVENT        | ACTION  |  |   |  |
|--------------|---|--|---|--|
|              | ET Leader   | IC(E)  | ER  | Contractor   |
| Action Level | <ol style="list-style-type: none"> <li>1. Notify the IC(E) and the Contractor.</li> <li>2. Carry out investigation.</li> <li>3. Report the results of investigation to the IC(E) and the Contractor.</li> <li>4. Discuss with the Contractor and formulate remedial measures.</li> <li>5. Increase monitoring frequency to check mitigation effectiveness</li> </ol>  | <ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET.</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IC(E).</li> <li>2. Implement noise mitigation proposals.</li> </ol>   |
| Limit Level  | <ol style="list-style-type: none"> <li>1. Notify the IC(E), the ER, the EPD and the Contractor.</li> <li>2. Identify source.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency.</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>6. Inform the IC(E), the ER and the EPD the causes &amp; actions taken for the exceedances.</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results</li> <li>8. If exceedance due to the construction works stops, cease additional monitoring</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions.</li> <li>2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedances continue, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedances is abated.</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to IC(E) within 3 working days of notification.</li> <li>3. Implement the agreed proposals.</li> <li>4. Resubmit proposals if problem still not under control.</li> <li>5. Stop the relevant activity of works as determined by the ER until the exceedances is abated.</li> </ol> |

## EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

| Event  | ACTION   |  |   |
|--|--|--|---|
|  | ET Leader  | Contractor   | ER<br>IEC   |
| <p>Action level being exceeded by one sampling day</p> | <ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Repeat in-situ measurement to confirm findings;</li> <li>3. Notify Contractor in writing within 24 hours of identification of the exceedance</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with Contractor if exceedance is due to the construction works within 4 working days</li> <li>8. Repeat measurement on next day of exceedance if exceedance is due to the construction works</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify the ER and IEC in writing within 24 hours of identification of exceedance</li> <li>2. Check unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Submit investigation report to IEC and ER within 3 working days of the identification of an exceedance</li> <li>5. Consider changes of working method if exceedance is due to the construction works</li> <li>6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER if exceedance is due to the construction works within 4 working days of identification of an exceedance</li> <li>7. Implement the agreed mitigation measures within reasonable time scale</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Require contractor to propose remedial measures for the analysed problem if related to the construction works</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Assess the effectiveness of the mitigation measure</li> </ol> |
|  |  |  | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures</li> <li>4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly</li> <li>5. Supervise the implementation of mitigation measures</li> </ol>   |

## EVENT AND ACTION PLAN FOR WATER QUALITY

| Event   | ACTION   |  |   |   |
|---|--|--|---|---|
|   | ET Leader  | Contractor   | ER  | IEC   |
| <p>Action level being exceeded by more than one consecutive sampling days</p> | <ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Repeat in-situ measurement to confirm findings</li> <li>3. Notify Contractor in writing within 24 hours of identification</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance</li> <li>8. Ensure mitigation measures are implemented;</li> <li>9. Prepare to increase the monitoring frequency to daily;</li> <li>10. Repeat measurement on next day of exceedance.</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify IEC and ER in writing within 24 hours of identification of exceedance</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance</li> <li>6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of identification of an exceedance</li> <li>7. Implement the agreed mitigation measures within reasonable time scale</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Require contractor to propose remedial measures for the analysed problem if related to the construction works</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Assess the effectiveness of the mitigation measure</li> </ol> | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures.</li> <li>4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly</li> <li>5. Assess the effectiveness of the implemented mitigation measures.</li> </ol> |



## EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

| Event  | ACTION   |   |  | IEC  |
|--|--|---|--|--|
|  | ET Leader  | Contractor  | ER   |  |
| Limit level being exceeded by one sampling day | <ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm findings;</li> <li>2. Identify source(s) of impact;</li> <li>3. Notify Contractor in writing within 24 hours of identification of the exceedance</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with IEC, ER and Contractor within 4 working of identification of an exceedance</li> <li>8. Ensure mitigation measures are implemented;</li> <li>9. Increase the monitoring frequency to daily until no exceedance of Limit Level.</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify IEC and ER in writing; within 24 hours of the identification of the exceedance</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance</li> <li>6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of the identification of an exceedance</li> <li>7. Implement the agreed mitigation measures within reasonable time scale</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Request Contractor to critically review the working methods;</li> <li>4. Ensure remedial measures are properly implemented</li> <li>5. Assess the effectiveness of the implemented mitigation measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures.</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly.</li> <li>5. Assess the effectiveness of the implemented mitigation measures</li> </ol> |

## EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

| Event   | ACTION   |  |   |   |
|---|--|--|---|---|
|   | ET Leader  | Contractor   | ER  | IEC   |
| Limit Level being exceeded by more than one consecutive sampling days | <ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm findings;</li> <li>2. Identify source(s) of impact;</li> <li>3. Notify Contractor in writing within 24 hours of identification of the exceedance</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Carry out investigation</li> <li>6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works</li> <li>7. Discuss mitigation measures with IEC, ER and Contractor;</li> <li>8. Ensure mitigation measures are implemented;</li> <li>9. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days.</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify ER and IEC in writing within 24 hours of the identification of the exceedance and</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>8. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days;</li> <li>6. Implement the agreed mitigation measures within reasonable time scale</li> <li>7. As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities.</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Request Contractor to critically review the working methods;</li> <li>6. Ensure remedial measures are properly implemented</li> <li>4. Assess the effectiveness of the implemented mitigation measures;</li> <li>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.</li> </ol> | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due / not due to the works</li> <li>3. Discuss with ER, ET and Contractor on the mitigation measures.</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly.</li> <li>5. Assess the effectiveness of the implemented mitigation measures.</li> </ol> |



## **Appendix G**

### **Construction Programme**

| Act ID   | Description                                      | Days | Early Start | Early Finish | %   | 2005 |     |     |     |     |     |     |     |     |     |     |     |
|--|--|------|-------------|--------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |  |      |             |              |     | DEC  | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV |
| <b>KEY DATES &amp; SUMMARY</b>                       |  |      |             |              |     |      |     |     |     |     |     |     |     |     |     |     |     |
| KD-001   | Contract Commencement                            | 0    | 30DEC05 A   | 100          |     |      |     |     |     |     |     |     |     |     |     |     |     |
| KD-002   | Commencement of the Works                        | 0    | 31DEC05 A   | 100          |     |      |     |     |     |     |     |     |     |     |     |     |     |
| <b>PRELIMINARIES</b>                                 |  |      |             |              |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 1-0100   | Take over Principal Site Office for the Engineer | 0    | 31DEC05 A   | 100          |     |      |     |     |     |     |     |     |     |     |     |     |     |
| 1-0200   | Provision of Transport for the Engineer          | 7    | 30DEC05 A   | 05JAN06 A    | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| 1-1100   | Contractor's Submissions                         | 28   | 30DEC05 A   | 26JAN06 A    | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| 1-1200   | Setup of Environmental Team for EM&A Monitoring  | 7    | 30DEC05 A   | 05JAN06 A    | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| 1-1300   | Temporary Accommodation for Contractor           | 21   | 31DEC05 A   | 20JAN06 A    | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| <b>OPERATION OF PUBLIC FILL RECEPTION FACILITIES</b> |  |      |             |              |     |      |     |     |     |     |     |     |     |     |     |     |     |
| B1-0000  | Take over the Site and Facilities at Portion B   | 0    | 31DEC05 A   | 100          |     |      |     |     |     |     |     |     |     |     |     |     |     |
| B1-0100  | SECTION B1                                       | 121  | 01JAN06 A   | 30APR06 A    | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| B2-0100  | SECTION B2                                       | 31   | 01MAY06 A   | 31MAY06      | 48  |      |     |     |     |     |     |     |     |     |     |     |     |
| B3-0100  | SECTION B3                                       | 30   | 01JUN06 *   | 30JUN06 *    | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| B4-0100  | SECTION B4 [Subject to Excision]                 | 31   | 01JUL06     | 31JUL06      | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| B5-0100  | SECTION B5 [Subject to Excision]                 | 31   | 01AUG06     | 31AUG06      | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| <b>PORTION C QUARRY BAY</b>                          |  |      |             |              |     |      |     |     |     |     |     |     |     |     |     |     |     |
| C1-0000  | Take over the Site and Facilities at Portion C   | 0    | 31DEC05 A   | 100          |     |      |     |     |     |     |     |     |     |     |     |     |     |
| C1-0100  | SECTION C1                                       | 121  | 01JAN06 A   | 30APR06 A    | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| C2-0100  | SECTION C2                                       | 31   | 01MAY06 A   | 31MAY06      | 48  |      |     |     |     |     |     |     |     |     |     |     |     |
| C3-0100  | SECTION C3                                       | 30   | 01JUN06 *   | 30JUN06 *    | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| C4-0100  | SECTION C4 [Subject to Excision]                 | 31   | 01JUL06     | 31JUL06      | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| C5-0100  | SECTION C5 [Subject to Excision]                 | 31   | 01AUG06     | 31AUG06      | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| <b>PORTION D QUARRY BAY</b>                          |  |      |             |              |     |      |     |     |     |     |     |     |     |     |     |     |     |
| D1-0000  | Take over the Site and Facilities at Portion D   | 0    | 31DEC05 A   | 100          |     |      |     |     |     |     |     |     |     |     |     |     |     |
| D1-0100  | SECTION D1                                       | 121  | 01JAN06 A   | 30APR06 A    | 100 |      |     |     |     |     |     |     |     |     |     |     |     |
| D2-0100  | SECTION D2                                       | 31   | 01MAY06 A   | 31MAY06      | 48  |      |     |     |     |     |     |     |     |     |     |     |     |
| D3-0100  | SECTION D3                                       | 30   | 01JUN06 *   | 30JUN06 *    | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| D4-0100  | SECTION D4 [Subject to Excision]                 | 31   | 01JUL06     | 31JUL06      | 0   |      |     |     |     |     |     |     |     |     |     |     |     |
| D5-0100  | SECTION D5 [Subject to Excision]                 | 31   | 01AUG06     | 31AUG06      | 0   |      |     |     |     |     |     |     |     |     |     |     |     |

**CONTRACT COMPLETION**

Legend:  
 Early bar  
 Progress bar  
 Critical bar  
 Summary bar  
 Start milestone point  
 Finish milestone point

| Date    | Revision | Checked | Approved |
|---------|----------|---------|----------|
| 11JAN06 | Rev. 0   | SC      | CPL      |
| 31MAR06 | Rev. 1   | SC      | CPL      |
| 19MAY06 | Rev. 2   | SC      | CPL      |

Main Contractor: Concentric Construction Ltd.

CEDD Contract No. CV/2005/12  
 Operation of Public Fill Reception Facilities at  
 Tseung Kwan O Area 137, Quarry Bay and Mui Wo



## **Appendix H**

### **IEC's Site Audit Records**

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

|                     |             |                     |             |
|---------------------|-------------|---------------------|-------------|
| Date of Site Audit: | 8-Jun-06    | Time of Site Audit: | 11:30 AM    |
| Site Auditor:       | Antony Wong | Phase of Works:     | Operational |
| Checked by:         | Ben Ridley  |                     |             |

| Checklist (FB)   | Yes | No | Remarks  |
|--|-----|----|--|
| <b>Operational Phase</b>   |     |    |  |
| <b>Fugitive Dust Emission</b>  |     |    |  |
| Have dust control/mitigation measures been implemented to ensure full protection of the nearby ASRs?   | x   |    |  |
| Are all installed air pollution control systems and measures operated and/or implemented in accordance with their design merits?   | x   |    |  |
| A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading/unloading and similar activities should be allowed.                                    | x   |    |  |
| Truck speed limit shall be limited to within 10km per hour.  | x   |    |  |
| Is the designated site main haul route (paved)?  | x   |    |  |
| Are water lorries and/or road sweepers used in dust suppression? Frequency of watering at least four times per day (as per PS Clause 1.76)? The frequency shall be increased when the weather is dry, when the truckloads are high, and for haul roads located within 100m from the northern boundary of the site. | x   |    |  |
| All dusty fill material shall be sprayed with water or a dust suppression chemical prior to loading, unloading or transfer so as to maintain the fill material wet, except for situations where the moisture content of the dusty material is a matter of concern.   | x   |    |  |
| Frequent watering (at least three times per day) of the worksites with active dusty operations. The frequency shall be increased when the weather is dry.  | x   |    |  |
| Vehicle washing facilities including high pressure water jet installed at the existing exit shall be maintained and operated by designated staff to ensure that these dust control measures are being used.  | x   |    |  |
| Before leaving the fill bank, every vehicle shall be washed to remove any dusty materials from its body and wheels.  | x   |    |  |
| Trucks carrying dusty load entered to the site shall be sprayed with water once the impervious sheeting covering the load is removed.  | x   |    |  |
| Have the temporary slope surfaces, especially those facing to the north of the site, been covered (tarpaulin sheeting or other impermeable sheeting), or sprayed (with water or a dust suppression chemical) or protected by other methods approved by CEDD?   |     |    | Finished Slopes in Portions A,B,G,H and I have been hydroseeded. |
| Final slope surfaces, especially those facing to the north of the site, shall be treated by compaction, followed by hydroseeding, vegetation plating or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CEDD.   |     |    | Finished Slopes in Portions A,B,G,H and I have been hydroseeded. |
| C&DMSF: When belt conveyor systems are in use for transfer of fill material, the conveyors shall be enclosed on top and 2 sides. Every transfer point between any two conveyors shall be enclosed.   |     |    | N/A  |
| C&DMSF: Is the belt scraper installed at the head pulley of every belt conveyor effective in dislodging fine particles that may adhere to the belt surface, and to reduce carrying back of fine particles on the return belt?  |     |    | N/A  |
| C&DMSF: The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the materials landing point is maintained at no more than 1m.   |     |    | N/A  |
| Note: Public fill at the stockpiling area should be handled to avoid segregation, deterioration, erosion or instability of the material, especially for the stockpiling surface facing to the north of the site.   |     |    |  |
| <b>Fixed Noise Impact</b>  |     |    |  |
| Have the approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) been adopted?  | x   |    |  |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

| Checklist (FB)   | Yes | No | Remarks   |
|--|-----|----|---|
| Note: The noise standards specified in the Technical Memorandum for the Assessment of Noise From Places Other Than Domestic Premises, Public Places or Construction Sites shall be met.  |     |    |   |
| <b>Water Quality</b>   |     |    |   |
| The existing/realigned intercepting channels and the sand/silt removal facilities should be used and maintained.   |     | x  | See observation 1.                              |
| Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bag barriers shall be used to assist the diversion of polluted stormwater to the silt removal facilities.  | x   |    |   |
| Has a buffer distance of at least 100m been maintained between the boundary of the public fill stockpiling area and the sea front?   | x   |    |   |
| Are materials properly covered when there is any chance for the materials to be washed away?   | x   |    |   |
| Temporary slope surfaces shall be covered as far as practicable with tarpaulin sheets or other impermeable sheeting or protected by other methods approved by CED especially when a rainstorm is imminent or forecast.   |     |    | Hydroseeded slopes in Portions A, B, G, H and I |
| Final slope surfaces shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CED to prevent the washing away of stockpiled material.  |     |    | Hydroseeded slopes in Portions A, B, G, H and I |
| Existing and newly constructed catchpits, sand and silt removal facilities and intercepting channels should be maintained, and the deposited silt and grit should be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. | x   |    |   |
| A wheel washing bay should be provided at the site exit and wash-water should have sand and silt settled out or removed before being discharged into storm drains.   | x   |    |   |
| Is the section of construction road between the wheel washing bay the public road paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains?  | x   |    |   |
| Sewage from toilets should be discharged into a foul sewer, or chemical toilets should be provided.  | x   |    |   |
| Should the use of chemical toilets be necessary, these should be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.  | x   |    |   |
| Are the grease traps in the canteen kitchens put into use and effective?   |     |    | N/A   |
| If no communal sewer can be provided, has the sewage generated from the workforce at the site offices been diverted to septic tanks and regularly removed by using vacuum tankers.   | x   |    | Discharged to DP4 as per discharge licence.     |
| The drainage system provided at car parking areas should be installed with oil interceptors in addition to sand/silt removal facilities. Has regular cleaning of the system been carried out?  | x   |    |   |
| Has disturbance to seabed sediments and undue turbidity from vessel movement or propeller wash been minimized?   | x   |    |   |
| Barges should not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents should be properly collected and treated before disposal.  | x   |    |   |
| Is foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging point? Are these due to work activities?   |     | x  |   |
| Have silt curtains been provided at the outward side of the basin near the barging point throughout the operational phase when there is public fill intake by barges (after Dec 2003)?   | x   |    | See observation 4                               |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

| Checklist (FB)   | Yes | No | Remarks                   |
|--|-----|----|---------------------------|
| Has a waste collection vessel been deployed to remove floating debris on the sea near the fill bank for proper disposal?   | x   |    |                           |
| Note: Effluent discharged from the site shall meet the relevant discharge limits specified in the Technical Memorandum Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. |     |    |                           |
| <b>Landfill Gas Hazard</b>   |     |    |                           |
| Are gas detection equipment and appropriate breathing apparatus available and used when workers entering confined spaces or trenches deeper than 2 metres?   | x   |    |                           |
| A Safety Officer/Supervisor should be present on site throughout the operational stage.  | x   |    |                           |
| Has the Safety Officer/Supervisor been provided with intrinsically safe portable instrument(s), appropriately calibrated and capable of measuring the gases in the ranges as recommended in the EIA Report?              | x   |    |                           |
| Has a LFG monitoring programme been formulated by the Safety Officer/Supervisor or by a qualified person?  | x   |    |                           |
| Has periodic/routine monitoring been conducted during ground-works, in all excavations, and works in confined spaces, if any?  | x   |    |                           |
| <b>Landscape and Visual</b>  |     |    |                           |
| Does the design of the fill bank and platform heights adopted allow the fill bank to fit into the general topography of the surrounding land? Straight edged slopes should be avoided.                                   | x   |    |                           |
| The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.   | x   |    |                           |
| Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green/brown) once completed.   | x   |    |                           |
| The barging point and the C&DMSF at the fill bank shall not be in operation from 7:00pm to 8:00am daily to avoid potential visual impact from glare.   | x   |    | To 11pm as per latest EP. |
| <b>Other Environmental Factors</b>   |     |    |                           |
| C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.  | x   |    |                           |
| <b>Environmental Monitoring and Audit</b>  |     |    |                           |
| Is a log book maintained by the ET?  | x   |    |                           |
| At the time of site audit, was any monitoring underway?  | x   |    | 1-Hr TSP                  |
| If yes, what parameters are being monitored and were the correct procedures adopted?   |     |    | N/A                       |
| Have any mitigation measures been implemented as a result of exceedance of Action-Limit Levels? If so, do they appear to be effective?   |     |    | N/A                       |



## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

**Observations**

| <b>Issue</b>   | <b>Action Taken<br/>(to be filled in by Contractor)</b> | <b>Date Completed<br/>(to be filled in by Contractor)</b> |
|--|---|---|
| <p>1) The Contractor was reminded to clear the mud of the trapezoidal channel next to the Water Filling Station.</p> <p>2) The Contractor should block the hole of the drip tray in which diesel oil drum underneath.</p> <p>3) The Contractor was reminded to remove the water pond observed in the Maintenance Workshop.</p> <p>4) The silt curtains were still found damaged. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom.</p> <p>5) The Contractor was reminded to clear the C&amp;D materials along the walkway in BHA.</p> |   |   |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

|                     |                                |                     |             |
|---------------------|--------------------------------|---------------------|-------------|
| Date of Site Audit: | 20-Jun-06                      | Time of Site Audit: | 11:00 AM    |
| Site Auditor:       | Antony Wong <i>Antony Wong</i> | Phase of Works:     | Operational |
| Checked by:         | Ben Ridley                     |                     |             |

| Checklist (FB)   | Yes | No | Remarks  |
|--|-----|----|--|
| <b>Operational Phase</b>   |     |    |  |
| <b>Fugitive Dust Emission</b>  |     |    |  |
| Have dust control/mitigation measures been implemented to ensure full protection of the nearby ASRs?   | x   |    |  |
| Are all installed air pollution control systems and measures operated and/or implemented in accordance with their design merits?   | x   |    |  |
| A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading/unloading and similar activities should be allowed.                                    | x   |    |  |
| Truck speed limit shall be limited to within 10km per hour.  | x   |    |  |
| Is the designated site main haul route (paved)?  | x   |    |  |
| Are water lorries and/or road sweepers used in dust suppression? Frequency of watering at least four times per day (as per PS Clause 1.76)? The frequency shall be increased when the weather is dry, when the truckloads are high, and for haul roads located within 100m from the northern boundary of the site. | x   |    |  |
| All dusty fill material shall be sprayed with water or a dust suppression chemical prior to loading, unloading or transfer so as to maintain the fill material wet, except for situations where the moisture content of the dusty material is a matter of concern.   | x   |    |  |
| Frequent watering (at least three times per day) of the worksites with active dusty operations. The frequency shall be increased when the weather is dry.  | x   |    |  |
| Vehicle washing facilities including high pressure water jet installed at the existing exit shall be maintained and operated by designated staff to ensure that these dust control measures are being used.  | x   |    |  |
| Before leaving the fill bank, every vehicle shall be washed to remove any dusty materials from its body and wheels.  | x   |    |  |
| Trucks carrying dusty load entered to the site shall be sprayed with water once the impervious sheeting covering the load is removed.  | x   |    |  |
| Have the temporary slope surfaces, especially those facing to the north of the site, been covered (tarpaulin sheeting or other impermeable sheeting), or sprayed (with water or a dust suppression chemical) or protected by other methods approved by CEDD?   |     |    | Finished Slopes in Portions A,B,G,H and I have been hydroseeded. |
| Final slope surfaces, especially those facing to the north of the site, shall be treated by compaction, followed by hydroseeding, vegetation plating or sealing with shotcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CEDD.  |     |    | Finished Slopes in Portions A,B,G,H and I have been hydroseeded. |
| C&DMSF: When belt conveyor systems are in use for transfer of fill material, the conveyors shall be enclosed on top and 2 sides. Every transfer point between any two conveyors shall be enclosed.   |     |    | N/A  |
| C&DMSF: Is the belt scraper installed at the head pulley of every belt conveyor effective in dislodging fine particles that may adhere to the belt surface, and to reduce carrying back of fine particles on the return belt?  |     |    | N/A  |
| C&DMSF: The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the materials landing point is maintained at no more than 1m.   |     |    | N/A  |
| Note: Public fill at the stockpiling area should be handled to avoid segregation, deterioration, erosion or instability of the material, especially for the stockpiling surface facing to the north of the site.   |     |    |  |
| <b>Fixed Noise Impact</b>  |     |    |  |
| Have the approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) been adopted?  | x   |    |  |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

| Checklist (FB)   | Yes | No | Remarks   |
|--|-----|----|---|
| Note: The noise standards specified in the Technical Memorandum for the Assessment of Noise From Places Other Than Domestic Premises, Public Places or Construction Sites shall be met.  |     |    |   |
| <u>Water Quality</u>   |     |    |   |
| The existing/realigned intercepting channels and the sand/silt removal facilities should be used and maintained.   |     | x  | See observation 1.                              |
| Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bag barriers shall be used to assist the diversion of polluted stormwater to the silt removal facilities.  | x   |    |   |
| Has a buffer distance of at least 100m been maintained between the boundary of the public fill stockpiling area and the sea front?   | x   |    |   |
| Are materials properly covered when there is any chance for the materials to be washed away?   | x   |    |   |
| Temporary slope surfaces shall be covered as far as practicable with tarpaulin sheets or other impermeable sheeting or protected by other methods approved by CED especially when a rainstorm is imminent or forecast.   |     |    | Hydroseeded slopes in Portions A, B, G, H and I |
| Final slope surfaces shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CED to prevent the washing away of stockpiled material.   |     |    | Hydroseeded slopes in Portions A, B, G, H and I |
| Existing and newly constructed catchpits, sand and silt removal facilities and intercepting channels should be maintained, and the deposited silt and grit should be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. | x   |    |   |
| A wheel washing bay should be provided at the site exit and wash-water should have sand and silt settled out or removed before being discharged into storm drains.   | x   |    |   |
| Is the section of construction road between the wheel washing bay the public road paved with concrete, bituminous materials or hardcore to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains?   | x   |    |   |
| Sewage from toilets should be discharged into a foul sewer, or chemical toilets should be provided.  | x   |    |   |
| Should the use of chemical toilets be necessary, these should be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.  | x   |    |   |
| Are the grease traps in the canteen kitchens put into use and effective?   |     |    | N/A   |
| If no communal sewer can be provided, has the sewage generated from the workforce at the site offices been diverted to septic tanks and regularly removed by using vacuum tankers.   | x   |    | Discharged to DP4 as per discharge licence.     |
| The drainage system provided at car parking areas should be installed with oil interceptors in addition to sand/silt removal facilities. Has regular cleaning of the system been carried out?  | x   |    |   |
| Has disturbance to seabed sediments and undue turbidity from vessel movement or propeller wash been minimized?   | x   |    |   |
| Barges should not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents should be properly collected and treated before disposal.  | x   |    |   |
| Is foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging point? Are these due to work activities?   |     | x  |   |
| Have silt curtains been provided at the outward side of the basin near the barging point throughout the operational phase when there is public fill intake by barges (after Dec 2003)?   | x   |    | See observation 4                               |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

| Checklist (FB)   | Yes | No | Remarks                   |
|--|-----|----|---------------------------|
| Has a waste collection vessel been deployed to remove floating debris on the sea near the fill bank for proper disposal?   | x   |    |                           |
| Note: Effluent discharged from the site shall meet the relevant discharge limits specified in the Technical Memorandum Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. |     |    |                           |
| <b>Landfill Gas Hazard</b>   |     |    |                           |
| Are gas detection equipment and appropriate breathing apparatus available and used when workers entering confined spaces or trenches deeper than 2 metres?   | x   |    |                           |
| A Safety Officer/Supervisor should be present on site throughout the operational stage.  | x   |    |                           |
| Has the Safety Officer/Supervisor been provided with intrinsically safe portable instrument(s), appropriately calibrated and capable of measuring the gases in the ranges as recommended in the EIA Report?              | x   |    |                           |
| Has a LFG monitoring programme been formulated by the Safety Officer/Supervisor or by a qualified person?  | x   |    |                           |
| Has periodic/routine monitoring been conducted during ground-works, in all excavations, and works in confined spaces, if any?  | x   |    |                           |
| <b>Landscape and Visual</b>  |     |    |                           |
| Does the design of the fill bank and platform heights adopted allow the fill bank to fit into the general topography of the surrounding land? Straight edged slopes should be avoided.                                   | x   |    |                           |
| The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.   | x   |    |                           |
| Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green/brown) once completed.   | x   |    |                           |
| The barging point and the C&DMSF at the fill bank shall not be in operation from 7:00pm to 8:00am daily to avoid potential visual impact from glare.   | x   |    | To 11pm as per latest EP. |
| <b>Other Environmental Factors</b>   |     |    |                           |
| C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.  | x   |    |                           |
| <b>Environmental Monitoring and Audit</b>  |     |    |                           |
| Is a log book maintained by the ET?  | x   |    |                           |
| At the time of site audit, was any monitoring underway?  | x   |    | 1-Hr TSP                  |
| If yes, what parameters are being monitored and were the correct procedures adopted?   |     |    | N/A                       |
| Have any mitigation measures been implemented as a result of exceedance of Action-Limit Levels? If so, do they appear to be effective?   |     |    | N/A                       |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

## Observations

| Issue   | Action Taken<br>(to be filled in by Contractor) | Date Completed<br>(to be filled in by Contractor) |
|---|---|---|
| <p>1) The Contractor was reminded to clear the mud of the trapezoidal channel and sand trap of Chamber A.</p> <p>2) The Contractor was reminded to regularly clear the debris along the walkway in BHA</p> <p>3) Fugitive dust emission was observed and the Contractor was reminded to provide adequate water spraying.</p> <p>4) The silt curtains were still found damaged. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10085-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom.</p> <p>5) The Contractor should fill the trap found in the Marine Workshop.</p> |   |   |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

|                     |            |                     |             |
|---------------------|------------|---------------------|-------------|
| Date of Site Audit: | 30-Jun-06  | Time of Site Audit: | 1:30 PM     |
| Site Auditor:       | Derek Ho   | Phase of Works:     | Operational |
| Checked by:         | Ben Ridley |                     |             |

| Checklist (FB)   | Yes | No | Remarks  |
|--|-----|----|--|
| <b>Operational Phase</b>   |     |    |  |
| <b>Fugitive Dust Emission</b>  |     |    |  |
| Have dust control/mitigation measures been implemented to ensure full protection of the nearby ASRs?   | x   |    |  |
| Are all installed air pollution control systems and measures operated and/or implemented in accordance with their design merits?   | x   |    |  |
| A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading/unloading and similar activities should be allowed.                                    | x   |    |  |
| Truck speed limit shall be limited to within 10km per hour.  | x   |    |  |
| Is the designated site main haul route (paved)?  | x   |    |  |
| Are water lorries and/or road sweepers used in dust suppression? Frequency of watering at least four times per day (as per PS Clause 1.76)? The frequency shall be increased when the weather is dry, when the truckloads are high, and for haul roads located within 100m from the northern boundary of the site. | x   |    |  |
| All dusty fill material shall be sprayed with water or a dust suppression chemical prior to loading, unloading or transfer so as to maintain the fill material wet, except for situations where the moisture content of the dusty material is a matter of concern.   | x   |    |  |
| Frequent watering (at least three times per day) of the work sites with active dusty operations. The frequency shall be increased when the weather is dry.   | x   |    |  |
| Vehicle washing facilities including high pressure water jet installed at the existing exit shall be maintained and operated by designated staff to ensure that these dust control measures are being used.  | x   |    |  |
| Before leaving the fill bank, every vehicle shall be washed to remove any dusty materials from its body and wheels.  | x   |    |  |
| Trucks carrying dusty load entered to the site shall be sprayed with water once the impervious sheeting covering the load is removed.  | x   |    |  |
| Have the temporary slope surfaces, especially those facing to the north of the site, been covered (tarpaulin sheeting or other impermeable sheeting), or sprayed (with water or a dust suppression chemical) or protected by other methods approved by CEDD?   |     |    | Finished Slopes in Portions A,B,G,H and I have been hydroseeded. |
| Final slope surfaces, especially those facing to the north of the site, shall be treated by compaction, followed by hydroseeding, vegetation plating or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CEDD.   |     |    | Finished Slopes in Portions A,B,G,H and I have been hydroseeded. |
| C&DMSF: When belt conveyor systems are in use for transfer of fill material, the conveyors shall be enclosed on top and 2 sides. Every transfer point between any two conveyors shall be enclosed.   |     |    | N/A  |
| C&DMSF: Is the belt scraper installed at the head pulley of every belt conveyor effective in dislodging fine particles that may adhere to the belt surface, and to reduce carrying back of fine particles on the return belt?  |     |    | N/A  |
| C&DMSF: The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the materials landing point is maintained at no more than 1m.   |     |    | N/A  |
| Note: Public fill at the stockpiling area should be handled to avoid segregation, deterioration, erosion or instability of the material, especially for the stockpiling surface facing to the north of the site.   |     |    |  |
| <b>Fixed Noise Impact</b>  |     |    |  |
| Have the approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) been adopted?  | x   |    |  |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

| Checklist (FB)   | Yes | No | Remarks   |
|--|-----|----|---|
| Note: The noise standards specified in the Technical Memorandum for the Assessment of Noise From Places Other Than Domestic Premises, Public Places or Construction Sites shall be met.  |     |    |   |
| <b>Water Quality</b>   |     |    |   |
| The existing/realigned intercepting channels and the sand/silt removal facilities should be used and maintained.   |     | x  | See observation 1.                              |
| Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bag barriers shall be used to assist the diversion of polluted stormwater to the silt removal facilities.  | x   |    |   |
| Has a buffer distance of at least 100m been maintained between the boundary of the public fill stockpiling area and the sea front?   | x   |    |   |
| Are materials properly covered when there is any chance for the materials to be washed away?   | x   |    |   |
| Temporary slope surfaces shall be covered as far as practicable with tarpaulin sheets or other impermeable sheeting or protected by other methods approved by CED especially when a rainstorm is imminent or forecast.   |     |    | Hydroseeded slopes in Portions A, B, G, H and I |
| Final slope surfaces shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CED to prevent the washing away of stockpiled material.   |     |    | Hydroseeded slopes in Portions A, B, G, H and I |
| Existing and newly constructed catchpits, sand and silt removal facilities and intercepting channels should be maintained, and the deposited silt and grit should be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. | x   |    |   |
| A wheel washing bay should be provided at the site exit and wash-water should have sand and silt settled out or removed before being discharged into storm drains.   | x   |    |   |
| Is the section of construction road between the wheel washing bay the public road paved with concrete, bituminous materials or hardcore to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains?   | x   |    |   |
| Sewage from toilets should be discharged into a foul sewer, or chemical toilets should be provided.  | x   |    |   |
| Should the use of chemical toilets be necessary, these should be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.  | x   |    |   |
| Are the grease traps in the canteen kitchens put into use and effective ?  |     |    | N/A   |
| If no communal sewer can be provided, has the sewage generated from the workforce at the site offices been diverted to septic tanks and regularly removed by using vacuum tankers.   | x   |    | Discharged to DP4 as per discharge licence.     |
| The drainage system provided at car parking areas should be installed with oil interceptors in addition to sand/silt removal facilities. Has regular cleaning of the system been carried out?  | x   |    |   |
| Has disturbance to seabed sediments and undue turbidity from vessel movement or propeller wash been minimized?   | x   |    |   |
| Barges should not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents should be properly collected and treated before disposal.  | x   |    |   |
| Is foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging point? Are these due to work activities?   |     | x  |   |
| Have silt curtains been provided at the outward side of the basin near the barging point throughout the operational phase when there is public fill intake by barges (after Dec 2003)?   | x   |    | See observation 4                               |

## Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

| Checklist (FB)   | Yes | No | Remarks                   |
|--|-----|----|---------------------------|
| Has a waste collection vessel been deployed to remove floating debris on the sea near the fill bank for proper disposal?   | x   |    |                           |
| Note: Effluent discharged from the site shall meet the relevant discharge limits specified in the Technical Memorandum Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. |     |    |                           |
| <u>Landfill Gas Hazard</u>   |     |    |                           |
| Are gas detection equipment and appropriate breathing apparatus available and used when workers entering confined spaces or trenches deeper than 2 metres?   | x   |    |                           |
| A Safety Officer/Supervisor should be present on site throughout the operational stage.  | x   |    |                           |
| Has the Safety Officer/Supervisor been provided with intrinsically safe portable instrument(s), appropriately calibrated and capable of measuring the gases in the ranges as recommended in the EIA Report?              | x   |    |                           |
| Has a LFG monitoring programme been formulated by the Safety Officer/Supervisor or by a qualified person?  | x   |    |                           |
| Has periodic/routine monitoring been conducted during ground-works, in all excavations, and works in confined spaces, if any?  | x   |    |                           |
| <u>Landscape and Visual</u>  |     |    |                           |
| Does the design of the fill bank and platform heights adopted allow the fill bank to fit into the general topography of the surrounding land? Straight edged slopes should be avoided.                                   | x   |    |                           |
| The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.   | x   |    |                           |
| Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green/brown) once completed.   | x   |    |                           |
| The barging point and the C&DMSF at the fill bank shall not be in operation from 7:00pm to 8:00am daily to avoid potential visual impact from glare.   | x   |    | To 11pm as per latest EP. |
| <u>Other Environmental Factors</u>   |     |    |                           |
| C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.  | x   |    |                           |
| <u>Environmental Monitoring and Audit</u>  |     |    |                           |
| Is a log book maintained by the ET?  | x   |    |                           |
| At the time of site audit, was any monitoring underway?  |     | x  |                           |
| If yes, what parameters are being monitored and were the correct procedures adopted?   |     |    | N/A                       |
| Have any mitigation measures been implemented as a result of exceedance of Action-Limit Levels? If so, do they appear to be effective?   |     |    | N/A                       |



Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

**Observations**

| Issue   | Action Taken<br>(to be filled in by Contractor) | Date Completed<br>(to be filled in by Contractor) |
|---|---|---|
| 1) The Contractor was reminded to clear the mud and debris in the trapezoidal channel.  |   |   |
| 2) The Contractor was reminded to regularly clear the debris along the walkway in BHA   |   |   |
| 3) Fugitive dust emission was observed and the Contractor was reminded to provide adequate water spraying.  |   |   |
| 4) The silt curtains were still found damaged. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom. |   |   |
| 5) The Contractor should fill the trap found in the Marine Workshop.  |   |   |
| 6) It is found that the chemical waste storage area was removed from the maintenance workshop. The Contractor is reminded to provide chemical waste storage for the site.   |   |   |
| 7) The maintenance workshop is being decommissioned. Oil stain was found on the ground at several areas in the workshop. The Contractor is requested to remove the contaminated soil from the ground for proper disposal before future uses.  |   |   |



## **Appendix I**

### **Weekly ET's Site Inspection Record**

CEDD Contract No.: CV/2005/12  
 Project: Fill Bank at Tseung Kwan O Area 137

Inspection Date : 02 June 2006  
 Time : 10:30

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy  
 Wind : Calm/Light/Breeze/Strong

Temperature : 25°C  
 Humidity : High/Moderate/Low

|                                | Implementation Stages* |    |     | Remark |
|--------------------------------|------------------------|----|-----|--------|
|                                | Yes                    | No | N/A |        |
| <b>Environmental Checklist</b> |                        |    |     |        |
| <b>Fugitive Dust Emission</b>  |                        |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| <b>Noise Impact</b>            |                        |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |
| •                              | ✓                      |    |     |        |

| Implementation Stages* |   | Remark  |
|------------------------|---|---|
|                        |   |   |
| <b>Water Quality</b>   |   |   |
| √                      |   | The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained.   |
| √                      |   | Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.   |
| √                      |   | A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.  |
| √                      |   | A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafloor.  |
| √                      |   | The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.  |
| √                      |   | The material shall be properly covered to prevent washed away especially before rainstorm.  |
| √                      |   | The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.   |
| √                      |   | Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.  |
| √                      |   | Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.  |
| √                      |   | A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.  |
| √                      |   | The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcore to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.  |
| √                      |   | Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.  |
| √                      |   | The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.   |
| √                      |   | Wastewater collected from canteen kitchen, including that from basins, sinks and floor drains, shall be discharged into foul sewers via grease traps.   |
| √                      |   | Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.   |
| √                      |   | The barges shall be in right size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.  |
| √                      |   | All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.   |
| √                      |   | Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.  |
| √                      |   | Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.   |
|                        | √ | The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.  |
|                        | √ | Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse. |
| √                      |   | A waste collection vessel shall be deployed to remove floating debris.  |



| <b>Landscape and Visual</b>  |   |
|--|---|
| <ul style="list-style-type: none"> <li>▪ The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.</li> </ul> | √ |
| <ul style="list-style-type: none"> <li>▪ The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.</li> </ul>   | √ |
| <ul style="list-style-type: none"> <li>▪ Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.</li> </ul>             | √ |
| <ul style="list-style-type: none"> <li>▪ The barging point and the C&amp;DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.</li> </ul>                             | √ |
| <b>Other Environmental Factors</b>   |   |
| <ul style="list-style-type: none"> <li>▪ C&amp;D waste sorted from mixed C&amp;D material at the C&amp;DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.</li> </ul>  | √ |
| <ul style="list-style-type: none"> <li>▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>   | √ |
| <ul style="list-style-type: none"> <li>▪ Any unused materials or those with remaining functional capacity should be recycled.</li> </ul>   | √ |
| <ul style="list-style-type: none"> <li>▪ All generators, fuel and oil storage are within bundle areas.</li> </ul>  | √ |
| <ul style="list-style-type: none"> <li>▪ Oil leakage from machinery, vehicle and plant is prevented.</li> </ul>  | √ |

**Summary of the Weekly Site Inspection:**

| Item | Details of defective works or observations   | Photo Ref. | Further Action Required (Yes/No) |
|------|--|------------|----------------------------------|
| 1    | Follow up action to previous comments on 19/04/06 (item 2), 24/04/06 (item 1), 04/05/06 (item 1), 10/05/06 (item 2) and 22/05/06 (item 4), mud and over-grown vegetations observed at the drainage channel at DP4 had been cleaned up.   | 060602_001 | No                               |
| 2    | Follow up action to previous comment on 22/05/06 (item 3), drip tray had been provided for the generator at water truck filling station.   | 060602_002 | No                               |
| 3    | Stagnant water was observed at BHA. The Contractor should drain the stagnant water to avoid mosquito breeding.   | 060602_003 | Yes                              |
| 4    | Silt curtain at marine barging area was found damaged. The Contractor should repair the damaged part of the silt curtain immediately.  | 060602_004 | Yes                              |
| 5    | Follow up action to the previous comments on 24/04/06 (item 11), 04/05/06 (item 9), 10/05/06 (item 6), 16/05/06 (item 3) and 22/05/06 (item 2), the fill materials were still found to be accumulated on the concrete embankment at the BHA. The Contractor was reminded to clean up the fill materials as soon as each unloading activity completed to avoid the fill materials from being washed into the sea. | 060602_005 | Yes                              |

Remark

|  |
|--|
|  |
|--|

| Name                       | Signature  | Date         |
|----------------------------|--|--------------|
| Inspected by<br>H. T. Chow |  | 02 June 2006 |
| Checked by<br>Linda Law    |  | 02 June 2006 |

Photos



Photo 060602\_001



Photo 060602\_002



Photo 060602\_003



Photo 060602\_004

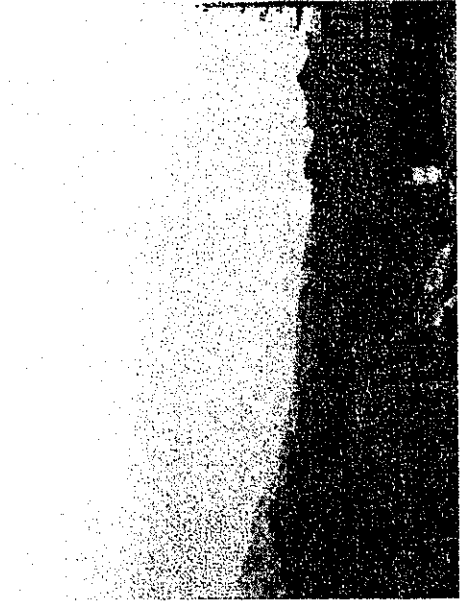


Photo 060602\_005

CEDD Contract No.: CV/2005/12  
 Project: Fill Bank at Tseung Kwan O Area 137

### Follow-up Action of the Weekly Site Inspection

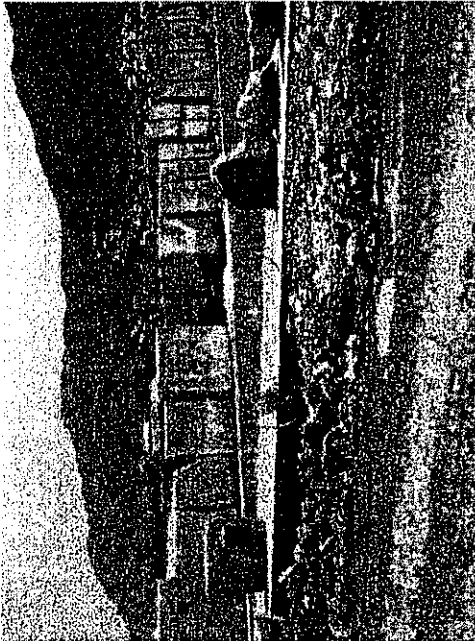
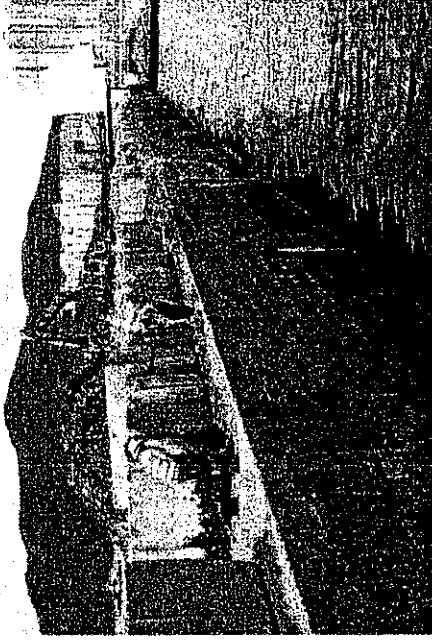
Inspection Date : 02 June 2006  
 Time : 10:30  
 Inspected by : H C Kwok  
 Name : H T Chow  
 (Contractor)  
 (ET)

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy  
 Wind : Calm/Light/Breeze/Strong  
 Temperature : 25°C  
 Humidity : High/Moderate/Low

| Item | Details of defective works or observations   | Response  | Date of Action taken          | Photo Ref. |
|------|--|---|-------------------------------|------------|
| 1    | Stagnant water was observed at BHA. The Contractor should drain the stagnant water to avoid mosquito breeding.   | The low-lying area that caused stagnant water had been filled up.   | 17 June 2006                  | 20060602a  |
| 2    | Silt curtain at marine barging area was found damaged. The Contractor should repair the damaged part of the silt curtain immediately.  | Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006. | 23 July 2006<br>(anticipated) | -          |
| 3    | Follow up action to the previous comments on 24/04/06 (item 11), 04/05/06 (item 9), 10/05/06 (item 6), 16/05/06 (item 3) and 22/05/06 (item 2), the fill materials were still found to be accumulated on the concrete embankment at the BHA. The Contractor was reminded to clean up the fill materials as soon as each unloading activity completed to avoid the fill materials from being washed into the sea. | The fill materials accumulated at the concrete coping of the seawall at the Barge Handling Area (BHA) had been cleaned up.                            | 16 June 2006                  | 20060602b  |



**Photo of Follow-up Action**

|  |   |  |  |
|--|---|--|--|
|  <p style="text-align: center;">20060602a</p> |  <p style="text-align: center;">20060602b</p> |  |  |
|--|---|--|--|

CEDD Contract No.: CV/2005/12  
Project: Fill Bank at Tseung Kwun O Area 137

Inspection Date : 08 June 2006  
Time : 11:30

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy  
Wind : Calm/Light/Breeze/Strong

Temperature : 31°C  
Humidity : High/Moderate/Low

| Environmental Checklist  | Implementation Stages* |    |     | Remark |
|--|------------------------|----|-----|--------|
|  | Yes                    | No | N/A |        |
| <b>Fugitive Dust Emission</b>  |                        |    |     |        |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.   | ✓                      |    |     |        |
| ▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.  | ✓                      |    |     |        |
| ▪ Water sprays shall be provided and used to dampen materials.   | ✓                      |    |     |        |
| ▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.  | ✓                      |    |     |        |
| ▪ All vehicles shall be restrict to a maximum speed of 10 km per hour.   | ✓                      |    |     |        |
| ▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. | ✓                      |    |     |        |
| ▪ The designated site main haul road shall be paved or regular watering.   | ✓                      |    |     |        |
| ▪ Frequent watering of work site shall be at least three times per day.  | ✓                      |    |     |        |
| ▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.   | ✓                      |    |     |        |
| ▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.   | ✓                      |    |     |        |
| ▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.  | ✓                      |    |     |        |
| ▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.  | ✓                      |    |     |        |
| ▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.   | ✓                      |    |     |        |
| ▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.  | ✓                      |    |     |        |
| ▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.  | ✓                      |    |     |        |
| <b>Noise Impact</b>  |                        |    |     |        |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.   | ✓                      |    |     |        |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.  | ✓                      |    |     |        |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.  | ✓                      |    |     |        |
| ▪ Air compressors and hand held breakers should have noise labels.   | ✓                      |    |     |        |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.   | ✓                      |    |     |        |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs.  | ✓                      |    |     |        |





| <b>Landscape and Visual</b>        |  |   |  |
|------------------------------------|--|---|--|
| ▪                                  | The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided. | ✓ |  |
| ▪                                  | The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.   | ✓ |  |
| ▪                                  | Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.             | ✓ |  |
| ▪                                  | The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.                                 | ✓ |  |
| <b>Other Environmental Factors</b> |  |   |  |
| ▪                                  | C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.              | ✓ |  |
| ▪                                  | Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.   | ✓ |  |
| ▪                                  | Any unused materials or those with remaining functional capacity should be recycled.   | ✓ |  |
| ▪                                  | All generators, fuel and oil storage are within bundle areas.  | ✓ |  |
| ▪                                  | Oil leakage from machinery, vehicle and plant is prevented.  | ✓ |  |

**Summary of the Weekly Site Inspection:**

| Item | Details of defective works or observations  | Photo Ref. | Further Action Required (Yes/No) |
|------|---|------------|----------------------------------|
| 1    | Mud and vegetations was observed to be accumulated at the drainage channel next to the water truck filling station. The Contractor should clean up the mud vegetations on a timely basis.   | 060608_001 | Yes                              |
| 2    | Stagnant water was accumulated at Work Shop. The Contractor should pump/drain the stagnant water away or use approved insecticide to avoid mosquito breeding.   | 060608_002 | Yes                              |
| 3    | Follow up action to previous comment on 02/06/06 (item 3), no stagnant water was observed at BHA.   | 060608_003 | No                               |
| 4    | Follow up action to previous comment on 02/06/06 (item 4), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.  | 060608_004 | Yes                              |
| 5    | Follow up action to the previous comments on 24/04/06 (item 11), 04/05/06 (item 9), 10/05/06 (item 6), 16/05/06 (item 3), 22/05/06 (item 2) and 02/06/06 (item 5), the fill materials were still found to be accumulated on the concrete embankment at the BHA. The Contractor was reminded to clean up the fill materials as soon as each unloading activity completed to avoid the fill materials from being washed into the sea. | 060608_005 | Yes                              |

Remark

| Name                       | Signature  | Date         |
|----------------------------|--|--------------|
| Inspected by<br>H. T. Chow |  | 08 June 2006 |
| Checked by<br>Linda Law    |  | 08 June 2006 |

Photos



Photo 060608\_001

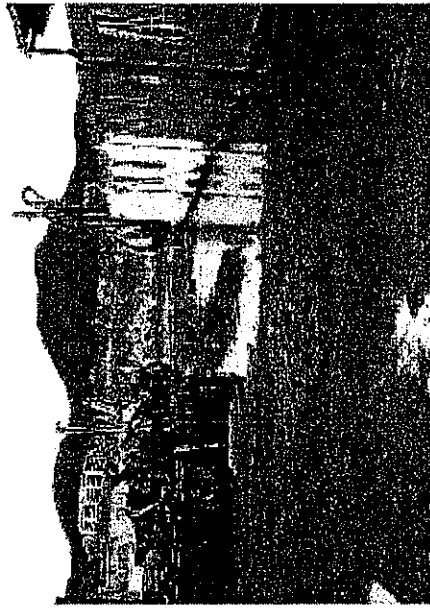


Photo 060608\_002



Photo 060608\_003



Photo 060608\_004



Photo 060608\_005

CEDD Contract No.: CV/2005/12  
Project: Fill Bank at Tseung Kwan O Area 137



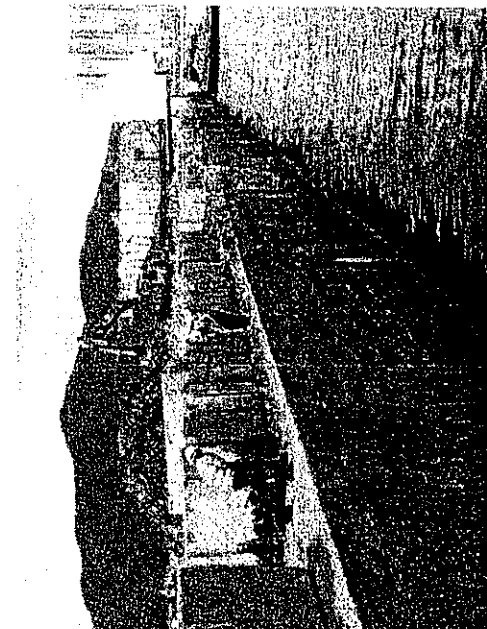
### Follow-up Action of the Weekly Site Inspection

Inspection Date : 08 June 2006  
Time : 11:30  
Inspected by : H C Kwok  
Name : HT Chow  
(Contractor)  
(ET)

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Heazy  
Wind : Calm/Light/Breeze/Strong  
Temperature : 31°C  
Humidity : High/Moderate/Low

| Item | Details of defective works or observations  | Response  | Date of Action taken          | Photo Ref. |
|------|---|---|-------------------------------|------------|
| 1    | Mud and vegetations was observed to be accumulated at the drainage channel next to the water truck filling station. The Contractor should clean up the mud vegetations on a timely basis.   | The mud and vegetations accumulated at the drainage channel next to the water truck filling station had been cleaned up.                              | 11 June 2006                  | 20060608a  |
| 2    | Stagnant water was accumulated at Work Shop. The Contractor should pump/drain the stagnant water away or use approved insecticide to avoid mosquito breeding.   | The low-lying area that caused stagnant water had been filled up.   | 17 June 2006                  | 20060608b  |
| 3    | Follow up action to previous comment on 02/06/06 (item 4), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.  | Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006. | 23 July 2006<br>(anticipated) | -          |
| 4    | Follow up action to the previous comments on 24/04/06 (item 11), 04/05/06 (item 9), 10/05/06 (item 6), 16/05/06 (item 3), 22/05/06 (item 2) and 02/06/06 (item 5), the fill materials were still found to be accumulated on the concrete embankment at the BHA. The Contractor was reminded to clean up the fill materials as soon as each unloading activity completed to avoid the fill materials from being washed into the sea. | The fill materials accumulated at the concrete coping of the seawall at the Barge Handling Area (BHA) had been cleaned up.                            | 16 June 2006                  | 20060608c  |

**Photo of Follow-up Action**

|  |   |  |
|--|---|--|
|  <p style="text-align: center;">20060608a</p> |  <p style="text-align: center;">20060608b</p> |  <p style="text-align: center;">20060608c</p> |
|  |   |  |



CEDD Contract No.: CV/2005/12  
Project: Fill Bank at Tseung Kwan O Area 137

Inspection Date : 14 June 2006  
Time : 11:30

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy  
Wind : Calm/Light/Breeze/Strong

Temperature : 30°C  
Humidity : High/Moderate/Low

|                                |  | Implementation Stages*              |                          | Remark |
|--------------------------------|--|-------------------------------------|--------------------------|--------|
|                                |  | Yes                                 | No                       |        |
| <b>Environmental Checklist</b> |  |                                     |                          |        |
| <b>Fugitive Dust Emission</b>  |  |                                     |                          |        |
| <input type="checkbox"/>       | Dust control / mitigation measures shall be provided to prevent dust nuisance.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASFs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Water sprays shall be provided and used to dampen materials.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | All vehicles shall be restricted to a maximum speed of 10 km per hour.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | The designated site main haul road shall be paved or regular watering.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Frequent watering of work site shall be at least three times per day.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <b>Noise Impact</b>            |  |                                     |                          |        |
| <input type="checkbox"/>       | The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Air compressors and hand held breakers should have noise labels.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| <input type="checkbox"/>       | Noisy equipment and mobile plant shall always be site away from NSFRs.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |





| <b>Landscape and Visual</b>  |   |
|--|---|
| <ul style="list-style-type: none"> <li>The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.</li> </ul> | √ |
| <ul style="list-style-type: none"> <li>The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.</li> </ul>   | √ |
| <ul style="list-style-type: none"> <li>Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.</li> </ul>             | √ |
| <ul style="list-style-type: none"> <li>The barging point and the C&amp;DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.</li> </ul>                             | √ |
| <b>Other Environmental Factors</b>   |   |
| <ul style="list-style-type: none"> <li>C&amp;D waste sorted from mixed C&amp;D material at the C&amp;DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.</li> </ul>  | √ |
| <ul style="list-style-type: none"> <li>Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>   | √ |
| <ul style="list-style-type: none"> <li>Any unused materials or those with remaining functional capacity should be recycled.</li> </ul>   | √ |
| <ul style="list-style-type: none"> <li>All generators, fuel and oil storage are within bundle areas.</li> </ul>  | √ |
| <ul style="list-style-type: none"> <li>Oil leakage from machinery, vehicle and plant is prevented.</li> </ul>  | √ |

**Summary of the Weekly Site Inspection:**

| Item | Details of defective works or observations   | Photo Ref. | Further Action Required (Yes/No) |
|------|--|------------|----------------------------------|
| 1    | Follow up action to previous comment on 08/06/06 (item 1), mud and vegetation at the drainage channel was cleaned up.  | 060614_001 | No                               |
| 2    | Follow up action to previous comment on 08/06/06 (item 2), stagnant water was still observed to be accumulated at Work Shop. The Contractor should pump/drain the stagnant water away or use approved insecticide to avoid mosquito breeding.  | 060614_002 | Yes                              |
| 3    | Follow up action to previous comments on 02/06/06 (item 4) and 08/06/06 (item 4), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.  | 060614_003 | Yes                              |
| 4    | Follow up action to the previous comments on 24/04/06 (item 11), 04/05/06 (item 9), 10/05/06 (item 6), 16/05/06 (item 3), 22/05/06 (item 2), 02/06/06 (item 5) and 08/06/06 (item 5), the fill materials were still found to be accumulated on the concrete embankment at the BHA. The Contractor was reminded to clean up the fill materials as soon as each unloading activity completed to avoid the fill materials from being washed into the sea. | 060614_004 | Yes                              |

Remark

| Inspected by | Name       | Signature  | Date         |
|--------------|------------|--|--------------|
|              | H. T. Chow |   | 14 June 2006 |
| Checked by   | Linda Law  |  | 14 June 2006 |



Photos



Photo 060614\_001

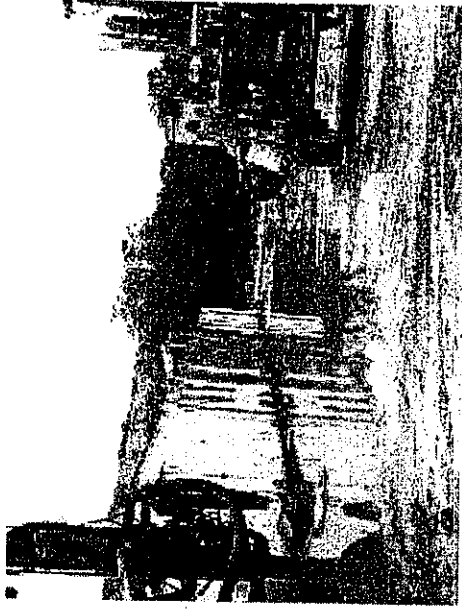


Photo 060614\_002

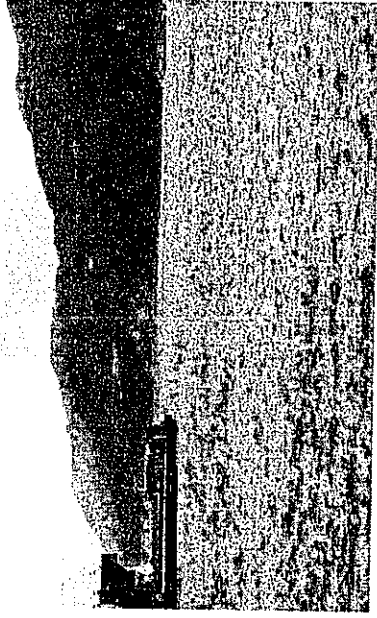


Photo 060614\_003

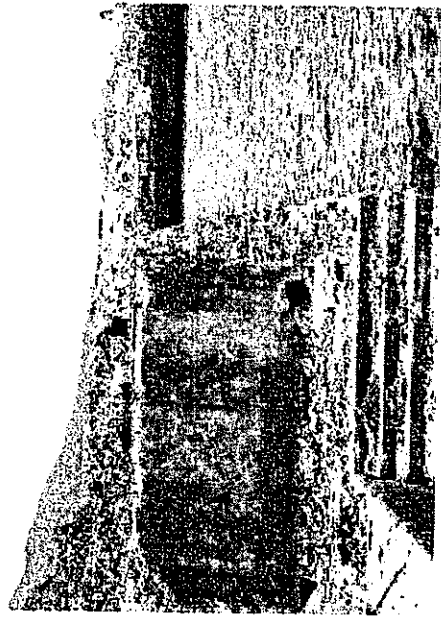


Photo 060614\_004

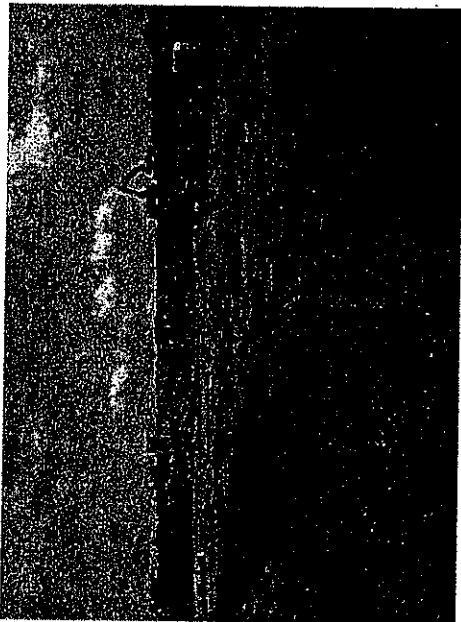
CEDD Contract No.: CV/2005/12  
 Project: Fill Bank at Tseung Kwan O Area 137

**Follow-up Action of the Weekly Site Inspection**

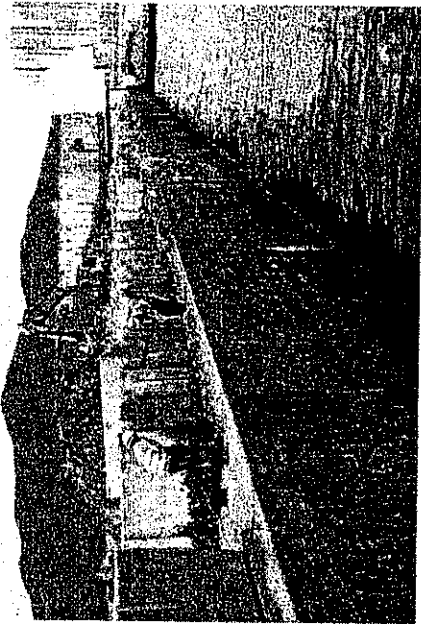
Inspection Date : 14 June 2006  
 Time : 11:30  
 Inspected by : H C Kwok  
 Name : H T Chow  
 (Contractor)  
 (ET)  
 Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy  
 Wind : Calm/Light/Breeze/Strong  
 Temperature : 30°C  
 Humidity : High/Moderate/Low

| Item | Details of defective works or observations   | Response  | Date of Action taken          | Photo Ref. |
|------|--|---|-------------------------------|------------|
| 1    | Follow up action to previous comment on 08/06/06 (item 2), stagnant water was still observed to be accumulated at Work Shop. The Contractor should pump/drain the stagnant water away or use approved insecticide to avoid mosquito breeding.  | The low-lying area that caused stagnant water had been filled up.   | 17 June 2006                  | 20060614a  |
| 2    | Follow up action to previous comments on 02/06/06 (item 4) and 08/06/06 (item 4), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.  | Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006. | 23 July 2006<br>(anticipated) | -          |
| 3    | Follow up action to the previous comments on 24/04/06 (item 11), 04/05/06 (item 9), 10/05/06 (item 6), 16/05/06 (item 3), 22/05/06 (item 2), 02/06/06 (item 5) and 08/06/06 (item 5), the fill materials were still found to be accumulated on the concrete embankment at the BHA. The Contractor was reminded to clean up the fill materials as soon as each unloading activity completed to avoid the fill materials from being washed into the sea. | The fill materials accumulated at the concrete coping of the seawall at the Barge Handling Area (BHA) had been cleaned up.                            | 16 June 2006                  | 20060614b  |

Photo of Follow-up Action



20060614a



20060614b

CEDD Contract No.: CV/2005/12  
 Project: Fill Bank at Tseung Kwun O Area 137

Inspection Date : 20 June 2006  
 Time : 10:40

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy  
 Wind : Calm/Light/Breeze/Strong

Temperature : 31°C  
 Humidity : High/Moderate/Low

### Environmental Checklist

|  | Implementation Stages* |    |     | Remark          |
|--|------------------------|----|-----|-----------------|
|  | Yes                    | No | N/A |                 |
| <b>Fugitive Dust Emission</b>  |                        |    |     |                 |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.   | ✓                      |    |     |                 |
| ▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.  | ✓                      |    |     |                 |
| ▪ Water sprays shall be provided and used to dampen materials.   | ✓                      |    |     |                 |
| ▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.  | ✓                      |    |     | Refer to item 1 |
| ▪ All vehicles shall be restrict to a maximum speed of 10 km per hour.   | ✓                      |    |     |                 |
| ▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. | ✓                      |    |     |                 |
| ▪ The designated site main haul road shall be paved or regular watering.   | ✓                      |    |     | Refer to item 1 |
| ▪ Frequent watering of work site shall be at least three times per day.  | ✓                      |    |     |                 |
| ▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.   | ✓                      |    |     |                 |
| ▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.   | ✓                      |    |     |                 |
| ▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.  | ✓                      |    |     |                 |
| ▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.  | ✓                      |    |     |                 |
| ▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.   | ✓                      |    |     |                 |
| ▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.  | ✓                      |    |     |                 |
| ▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.  | ✓                      |    |     |                 |
| <b>Noise Impact</b>  |                        |    |     |                 |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.   | ✓                      |    |     |                 |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.  | ✓                      |    |     |                 |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.  | ✓                      |    |     |                 |
| ▪ Air compressors and hand held breakers should have noise labels.   | ✓                      |    |     |                 |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.   | ✓                      |    |     |                 |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs.  | ✓                      |    |     |                 |







| <b>Landscape and Visual</b>        |  |   |  |
|------------------------------------|--|---|--|
| ▪                                  | The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided. | ✓ |  |
| ▪                                  | The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.   | ✓ |  |
| ▪                                  | Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.             | ✓ |  |
| ▪                                  | The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.                                 | ✓ |  |
| <b>Other Environmental Factors</b> |  |   |  |
| ▪                                  | C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.              | ✓ |  |
| ▪                                  | Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.   | ✓ |  |
| ▪                                  | Any unused materials or those with remaining functional capacity should be recycled.   | ✓ |  |
| ▪                                  | All generators, fuel and oil storage are within bundle areas.  | ✓ |  |
| ▪                                  | Oil leakage from machinery, vehicle and plant is prevented.  | ✓ |  |

**Summary of the Weekly Site Inspection:**

| Item | Details of defective works or observations   | Photo Ref.              | Further Action Required (Yes/No) |
|------|--|-------------------------|----------------------------------|
| 1    | Haul road at Portion D3 was dry and dust was generated during the vehicle's moving. The Contractor should water the haul road and unpaved area frequently especially during hot and dry weather.   | 060620_001              | Yes                              |
| 2    | Mud and debris were accumulated in the drainage channel at Chamber A. Mud and debris should be removed regularly.  | 060620_002 & 060620_003 | Yes                              |
| 3    | Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4) and 14/06/06 (item 3), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.                         | 060620_004              | Yes                              |
| 4    | Follow up action to the previous comments on 24/04/06 (item 11), 04/05/06 (item 9), 10/05/06 (item 6), 16/05/06 (item 3), 22/05/06 (item 2), 02/06/06 (item 5), 08/06/06 (item 4), fill materials accumulated on the concrete embankment at the BHA had been cleaned up. | 060620_005              | No                               |

Remark

| Name                       | Signature  | Date         |
|----------------------------|--|--------------|
| Inspected by<br>H. T. Chow |   | 20 June 2006 |
| Checked by<br>Linda Law    |  | 20 June 2006 |



Photos

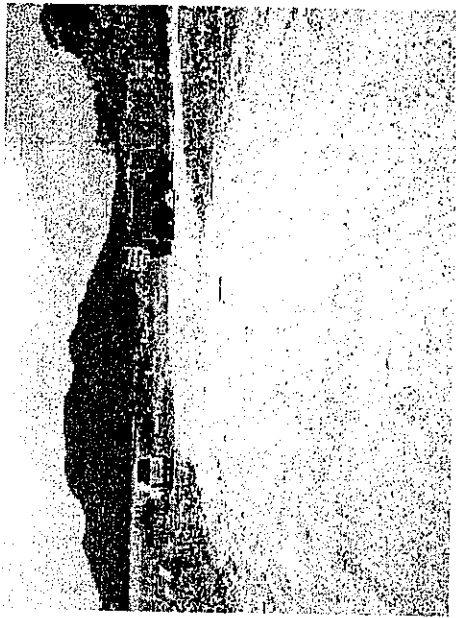


Photo 060620\_001



Photo 060620\_002

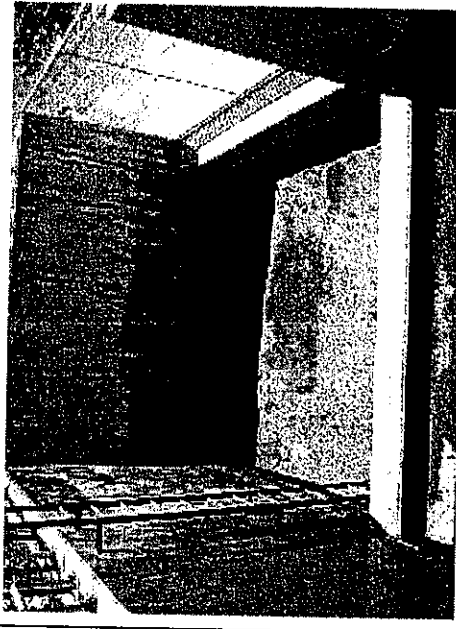


Photo 060620\_003



Photo 060620\_004

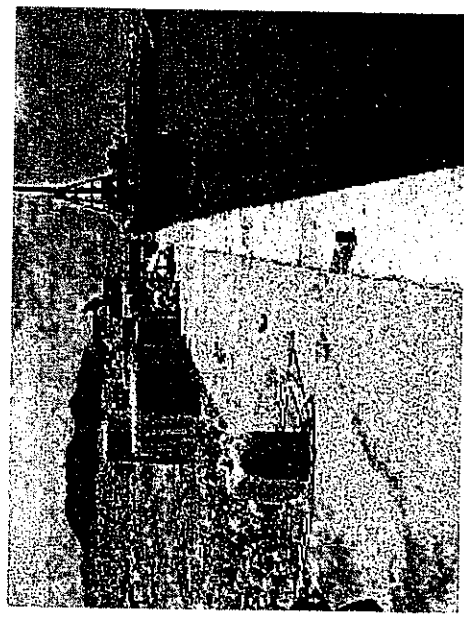


Photo 060620\_005

CEDD Contract No.: CV/2005/12  
Project: Fill Bank at Tseung Kwan O Area 137

**Follow-up Action of the Weekly Site Inspection**

(Contractor)  
(ET)

Inspected by : H C Kwok  
HT Chow

Name :

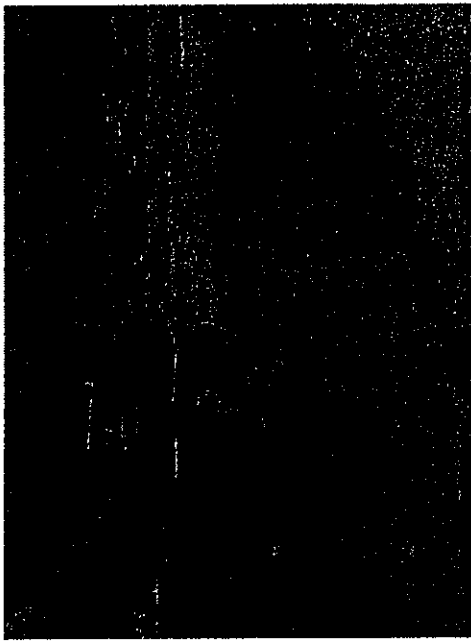
Inspection Date : 20 June 2006  
Time : 10:40

Temperature : 31°C  
Humidity : High/Moderate/Low

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Sterrn/Hazy  
Wind : Calm/Light/Breeze/Strong

| Item | Details of defective works or observations   | Response  | Date of Action taken       | Photo Ref. |
|------|--|---|----------------------------|------------|
| 1    | Haul road at Portion D3 was dry and dust was generated during the vehicle's moving. The Contractor should water the haul road and unpaved area frequently especially during hot and dry weather.   | The Contractor has enhanced water spraying on the dry and dusty haul road at Portion D3.  | 20 June 2006               | 20060620a  |
| 2    | Mud and debris were accumulated in the drainage channel at Chamber A. Mud and debris should be removed regularly.  | The mud and debris accumulated in the drainage channel at Chamber A has been removed.   | 9 July 2006                | -          |
| 3    | Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4) and 14/06/06 (item 3), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately. | Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006. | 23 July 2006 (anticipated) | -          |

Photo of Follow-up Action

|  |  |  |
|--|--|--|
|  <p>20060620a</p> |  |  |
|--|--|--|

CEDD Contract No.: CV/2005/12  
Project: Fill Bank at Tseung Kwan O Area 137

Inspection Date : 26 June 2006  
Time : 10:15

Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy  
Wind : Calm / Light / Breeze / Strong

Temperature : 33°C  
Humidity : High / Moderate / Low

| Environmental Checklist  | Implementation Stages* |    |     | Remark          |
|--|------------------------|----|-----|-----------------|
|  | Yes                    | No | N/A |                 |
| <b>Fugitive Dust Emission</b>  |                        |    |     |                 |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.   | ✓                      |    |     |                 |
| ▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.  | ✓                      |    |     |                 |
| ▪ Water sprays shall be provided and used to dampen materials.   | ✓                      |    |     |                 |
| ▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.  | ✓                      |    |     | Refer to item 1 |
| ▪ All vehicles shall be restrict to a maximum speed of 10 km per hour.   | ✓                      |    |     |                 |
| ▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. | ✓                      |    |     |                 |
| ▪ The designated site main haul road shall be paved or regular watering.   | ✓                      |    |     | Refer to item 1 |
| ▪ Frequent watering of work site shall be at least three times per day.  | ✓                      |    |     |                 |
| ▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.   | ✓                      |    |     |                 |
| ▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.   | ✓                      |    |     |                 |
| ▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.  | ✓                      |    |     |                 |
| ▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.  | ✓                      |    |     |                 |
| ▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.   | ✓                      |    |     |                 |
| ▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.  | ✓                      |    |     |                 |
| ▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.  | ✓                      |    |     |                 |
| <b>Noise Impact</b>  |                        |    |     |                 |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.   | ✓                      |    |     |                 |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.  | ✓                      |    |     |                 |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.  | ✓                      |    |     |                 |
| ▪ Air compressors and hand held breakers should have noise labels.   | ✓                      |    |     |                 |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.   | ✓                      |    |     |                 |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs.  | ✓                      |    |     |                 |







| <b>Landscape and Visual</b>  |   |
|--|---|
| <ul style="list-style-type: none"> <li>The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.</li> </ul> | ✓ |
| <ul style="list-style-type: none"> <li>The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.</li> </ul>   | ✓ |
| <ul style="list-style-type: none"> <li>Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.</li> </ul>             | ✓ |
| <ul style="list-style-type: none"> <li>The barging point and the C&amp;DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.</li> </ul>                             | ✓ |
| <b>Other Environmental Factors</b>   |   |
| <ul style="list-style-type: none"> <li>C&amp;D waste sorted from mixed C&amp;D material at the C&amp;DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.</li> </ul>  | ✓ |
| <ul style="list-style-type: none"> <li>Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>   | ✓ |
| <ul style="list-style-type: none"> <li>Any unused materials or those with remaining functional capacity should be recycled.</li> </ul>   | ✓ |
| <ul style="list-style-type: none"> <li>All generators, fuel and oil storage are within bundle areas.</li> </ul>  | ✓ |
| <ul style="list-style-type: none"> <li>Oil leakage from machinery, vehicle and plant is prevented.</li> </ul>  | ✓ |

**Summary of the Weekly Site Inspection:**

| Item | Details of defective works or observations   | Photo Ref.              | Further Action Required (Yes/No) |
|------|--|-------------------------|----------------------------------|
| 1    | Follow up action to the previous comment on 20/06/06 (item 1), watering was observed at haul road of Portion D3 and no dust was generated during the vehicle's moving.   | 060626_001              | No                               |
| 2    | Follow up action to the previous comment on 20/06/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.        | 060626_002 & 060626_003 | Yes                              |
| 3    | Stagnant water was found at Marine Work Shop. The Contractor should drain the stagnant water immediately or apply approved pesticide to avoid mosquito breeding.   | 060626_004              | Yes                              |
| 4    | Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 3) and 20/06/06 (item 3), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately. | 060626_005              | Yes                              |

Remark

|              |            |  |              |
|--------------|------------|--|--------------|
| Inspected by | Name       | Signature  | Date         |
|              | H. T. Chow |  | 26 June 2006 |
| Checked by   | Name       | Signature  | Date         |
|              | Linda Law  |  | 26 June 2006 |

Photos

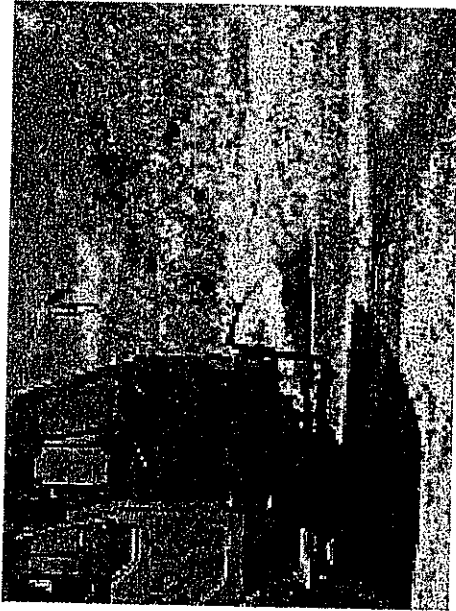


Photo 060626\_001



Photo 060626\_002

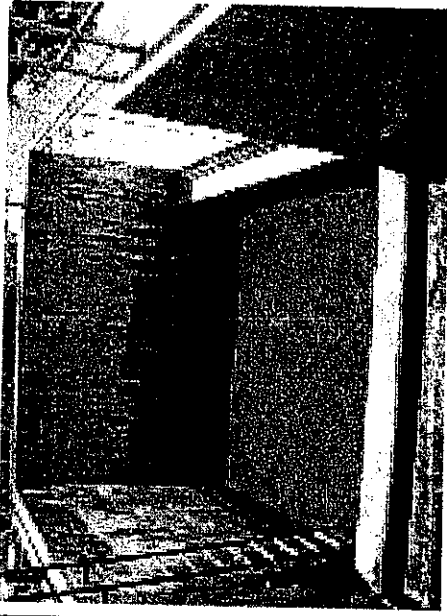


Photo 060626\_003



Photo 060626\_004

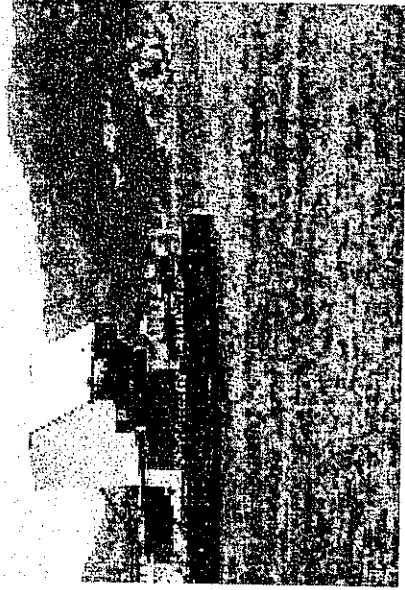


Photo 060626\_005

**Follow-up Action of the Weekly Site Inspection**

Inspection Date : 26 June 2006  
 Time : 10:15

Inspected by Name : H C Kwok  
 H T Chow  
 (Contractor)  
 (ET)

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy  
 Wind : Calm/Light/Breeze/Strong  
 Temperature : 33°C  
 Humidity : High/Moderate/Low

| Item | Details of defective works or observations  | Response   | Date of Action taken       | Photo Ref. |
|------|---|--|----------------------------|------------|
| 1    | Follow up action to the previous comment on 20/06/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.                           | The mud and debris accumulated in the drainage channel at Chamber A has been removed.  | 9 July 2006                | -          |
| 2    | Stagnant water was found at Marine Work Shop. The Contractor should drain the stagnant water immediately or apply approved pesticide to avoid mosquito breeding.  | Approved pesticide has been applied to the stagnant water found at the Marine Work Shop on 8 July 2006. Moreover, the low-lying area that causes stagnant water will be filled up by 16 July 2006. | 8 July 2006                | -          |
| 3    | Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3) and 20/06/06 (item 3), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately. | Replacement materials for the silt curtain are under procurement. The damaged part of the silt curtain is anticipated to be repaired by 23 July 2006.  | 23 July 2006 (anticipated) | -          |



## **Appendix J**

### **Implementation Schedule of Mitigation Measures**







## **Appendix K**

### **Interim Notification of Environmental Quality Limits Exceedance**





**Contract No. CV/2005/12**  
**Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Woo**  
**Fill Bank at Tseung Kwan O Area 137**

**Interim Notification of Exceedances of Action / Limit Levels**

Part 1 – Dissolved Oxygen

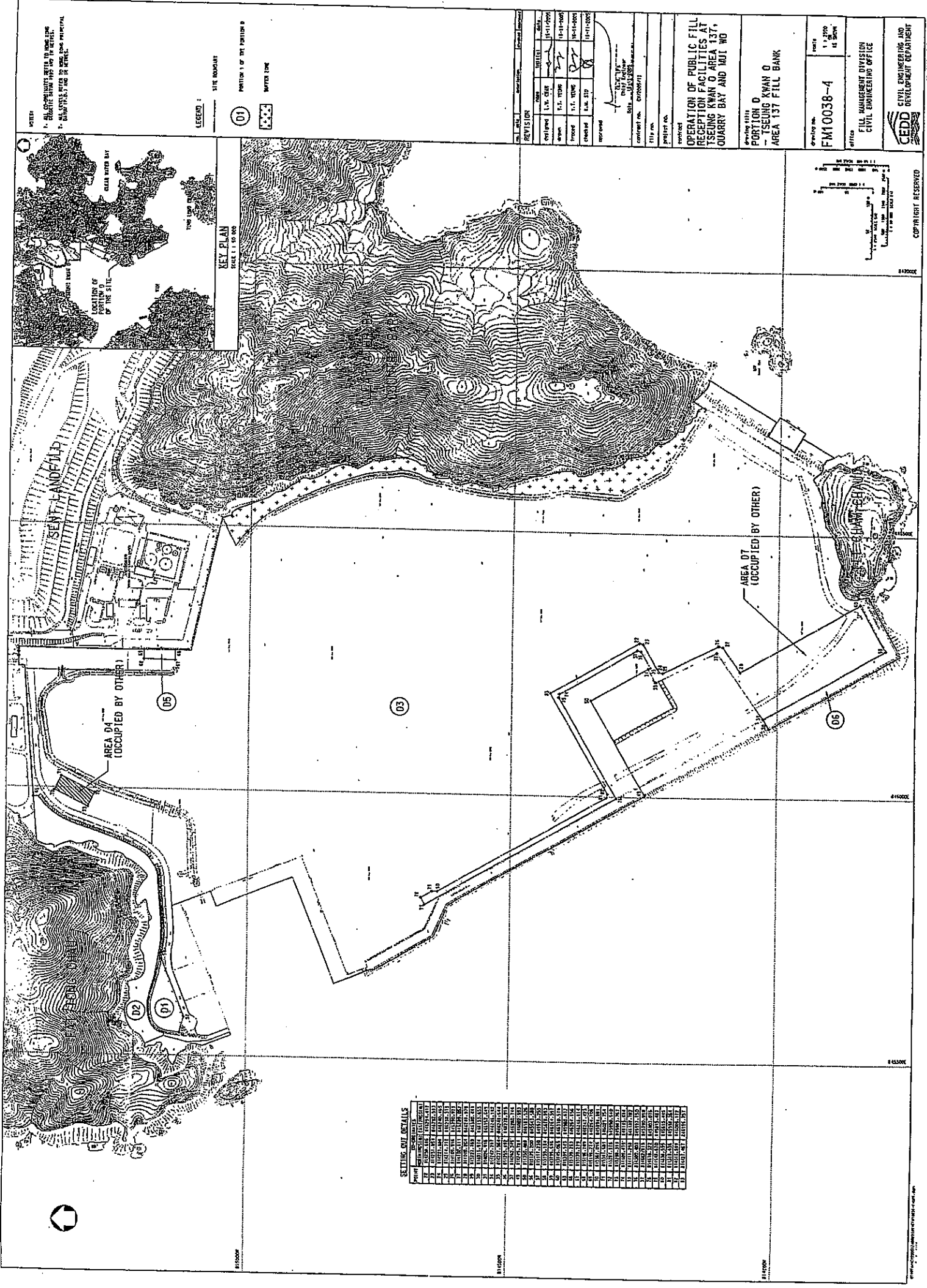
| Date     | Monitoring Location | Tide Mode | Measured Value (mg/L) | Action Level (mg/L) * | Limit Level (mg/L) * | Possible Reason(s) for the Exceedance  | Action taken to be taken | Remarks |
|----------|---------------------|-----------|-----------------------|-----------------------|----------------------|--|--------------------------|---------|
| 23/06/06 | C1                  | Mid-ebb   | 4.31                  | 4.72                  | 2.00                 | Exceedance was not due to the operation of the Fill Bank as the receiver was located upstream to the works area. | Nil                      | Nil     |

\* Traceable to Method Statement (Marine Water Quality Monitoring and Audit Manual) of Contract No. CV/2002/08, Rev. 2, Section 3.1 – 3.21



## **Appendix L**

### **Site General Layout plan**



NOTES:  
 1. ALL DIMENSIONS REFER TO HONG KONG  
 2. ALL DIMENSIONS REFER TO HONG KONG  
 3. ALL DIMENSIONS REFER TO HONG KONG

LEGEND:  
 SITE BOUNDARY  
 PORTION 1 OF THE PORTION D  
 WATER LINE

01  
 02

KEY PLAN  
 SCALE 1:10,000  
 LOCATION OF  
 PORTION D  
 OF THE SITE

REVISION

| NO. | DATE       | DESCRIPTION        | BY | CHECKED |
|-----|------------|--------------------|----|---------|
| 1   | 15-11-2000 | ISSUED FOR TENDERS |    |         |
| 2   | 15-11-2000 | REVISED            |    |         |
| 3   | 15-11-2000 | REVISED            |    |         |
| 4   | 15-11-2000 | REVISED            |    |         |
| 5   | 15-11-2000 | REVISED            |    |         |
| 6   | 15-11-2000 | REVISED            |    |         |
| 7   | 15-11-2000 | REVISED            |    |         |
| 8   | 15-11-2000 | REVISED            |    |         |
| 9   | 15-11-2000 | REVISED            |    |         |
| 10  | 15-11-2000 | REVISED            |    |         |

OPERATION OF PUBLIC FILL  
 RECEPTION FACILITIES AT  
 TSEUNG KWAN O AREA 137,  
 QUARRY BAY AND HUI WO

Drawing title  
 PORTION D  
 - TSEUNG KWAN O  
 AREA 137 FILL BANK

Contract no. C22000011  
 11/19 no.  
 project no.  
 contract

Drawing no. FM10038-4  
 sheets 1 of 2700  
 of 2700

CEDD  
 CIVIL ENGINEERING AND  
 DEVELOPMENT DEPARTMENT

SECTION CUT DETAILS

| NO. | DESCRIPTION    | DATE       |
|-----|----------------|------------|
| 1   | SECTION CUT 1  | 15-11-2000 |
| 2   | SECTION CUT 2  | 15-11-2000 |
| 3   | SECTION CUT 3  | 15-11-2000 |
| 4   | SECTION CUT 4  | 15-11-2000 |
| 5   | SECTION CUT 5  | 15-11-2000 |
| 6   | SECTION CUT 6  | 15-11-2000 |
| 7   | SECTION CUT 7  | 15-11-2000 |
| 8   | SECTION CUT 8  | 15-11-2000 |
| 9   | SECTION CUT 9  | 15-11-2000 |
| 10  | SECTION CUT 10 | 15-11-2000 |
| 11  | SECTION CUT 11 | 15-11-2000 |
| 12  | SECTION CUT 12 | 15-11-2000 |
| 13  | SECTION CUT 13 | 15-11-2000 |
| 14  | SECTION CUT 14 | 15-11-2000 |
| 15  | SECTION CUT 15 | 15-11-2000 |
| 16  | SECTION CUT 16 | 15-11-2000 |
| 17  | SECTION CUT 17 | 15-11-2000 |
| 18  | SECTION CUT 18 | 15-11-2000 |
| 19  | SECTION CUT 19 | 15-11-2000 |
| 20  | SECTION CUT 20 | 15-11-2000 |
| 21  | SECTION CUT 21 | 15-11-2000 |
| 22  | SECTION CUT 22 | 15-11-2000 |
| 23  | SECTION CUT 23 | 15-11-2000 |
| 24  | SECTION CUT 24 | 15-11-2000 |
| 25  | SECTION CUT 25 | 15-11-2000 |
| 26  | SECTION CUT 26 | 15-11-2000 |
| 27  | SECTION CUT 27 | 15-11-2000 |
| 28  | SECTION CUT 28 | 15-11-2000 |
| 29  | SECTION CUT 29 | 15-11-2000 |
| 30  | SECTION CUT 30 | 15-11-2000 |
| 31  | SECTION CUT 31 | 15-11-2000 |
| 32  | SECTION CUT 32 | 15-11-2000 |
| 33  | SECTION CUT 33 | 15-11-2000 |
| 34  | SECTION CUT 34 | 15-11-2000 |
| 35  | SECTION CUT 35 | 15-11-2000 |
| 36  | SECTION CUT 36 | 15-11-2000 |
| 37  | SECTION CUT 37 | 15-11-2000 |
| 38  | SECTION CUT 38 | 15-11-2000 |
| 39  | SECTION CUT 39 | 15-11-2000 |
| 40  | SECTION CUT 40 | 15-11-2000 |
| 41  | SECTION CUT 41 | 15-11-2000 |
| 42  | SECTION CUT 42 | 15-11-2000 |
| 43  | SECTION CUT 43 | 15-11-2000 |
| 44  | SECTION CUT 44 | 15-11-2000 |
| 45  | SECTION CUT 45 | 15-11-2000 |
| 46  | SECTION CUT 46 | 15-11-2000 |
| 47  | SECTION CUT 47 | 15-11-2000 |
| 48  | SECTION CUT 48 | 15-11-2000 |
| 49  | SECTION CUT 49 | 15-11-2000 |
| 50  | SECTION CUT 50 | 15-11-2000 |

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## **Appendix M**

### **Monitoring Schedule for the Coming Month**



**CEDD Contract No. CV/2005/12**  
**Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137,**  
**Quarry Bay and Mui Wo**

**Tseung Kwan O Fill Bank**

**Time Schedule for Water Quality Impact Monitoring (WQM),  
Impact Day-time Noise Monitoring (NM) and Impact Air Monitoring (1-hr TSP & 24-hr  
TSP) and Weekly Site Inspection (Weekly SI)**

**July 2006**

| Sun | Mon  | Tue   | Wed  | Thu  | Fri   | Sat                          |
|-----|--|---|--|--|---|------------------------------|
|     |  |   |  |  |   | 1                            |
| 2   | 3<br>WQM<br>Mid-flood<br>(09:15-11:15)<br>Mid-ebb<br>(15:45-17:45)   | 4   | 5<br>WQM<br>Mid-ebb<br>(07:30-09:30)<br>Mid-flood<br>(11:45-13:45)   | 6<br>1-hr TSP,<br>24-hr TSP<br><br>Weekly SI<br><br>NM | 7<br>WQM<br>Mid-ebb<br>(08:45-10:45)<br>Mid-flood<br>(16:00-18:00)  | 8                            |
| 9   | 10<br>WQM<br>Mid-ebb<br>(10:30-12:30)<br>Mid-flood<br>(17:30-19:30)  | 11  | 12<br>WQM<br>Mid-ebb<br>(12:00-14:00)<br>Mid-flood<br>(17:30-19:30)<br><br>1-hr TSP,<br>24-hr TSP<br><br>Weekly SI | 13   | 14<br>WQM<br>Mid-flood<br>(07:30-09:30)<br>Mid-ebb<br>(13:45-15:45) | 15                           |
| 16  | 17<br>WQM<br>Mid-flood<br>(09:45-11:45)<br>Mid-ebb<br>(16:00-18:00)  | 18<br>1-hr TSP,<br>24-hr TSP<br><br>Weekly SI | 19<br>WQM<br>Mid-ebb<br>(07:30-09:30)<br>Mid-flood<br>(13:00-15:00)  | 20   | 21<br>WQM<br>Mid-ebb<br>(08:45-10:45)<br>Mid-flood<br>(16:30-18:30) | 22                           |
| 23  | 24<br>WQM<br>Mid-ebb<br>(11:00-13:00)<br>Mid-flood<br>(17:30-19:30)<br><br>1-hr TSP,<br>24-hr TSP<br><br>Weekly SI | 25  | 26<br>WQM<br>Mid-ebb<br>(12:15-14:15)<br>Mid-flood<br>(17:30-19:30)  | 27   | 28<br>WQM<br>Mid-flood<br>(07:30-09:30)<br>Mid-ebb<br>(13:15-15:15) | 29<br>1-hr TSP,<br>24-hr TSP |
| 30  | 31<br>WQM<br>Mid-flood<br>(08:15-10:15)<br>Mid-ebb<br>(14:45-16:45)  |   |  |  |   |                              |



## **Appendix N**

### **Complaint Log**

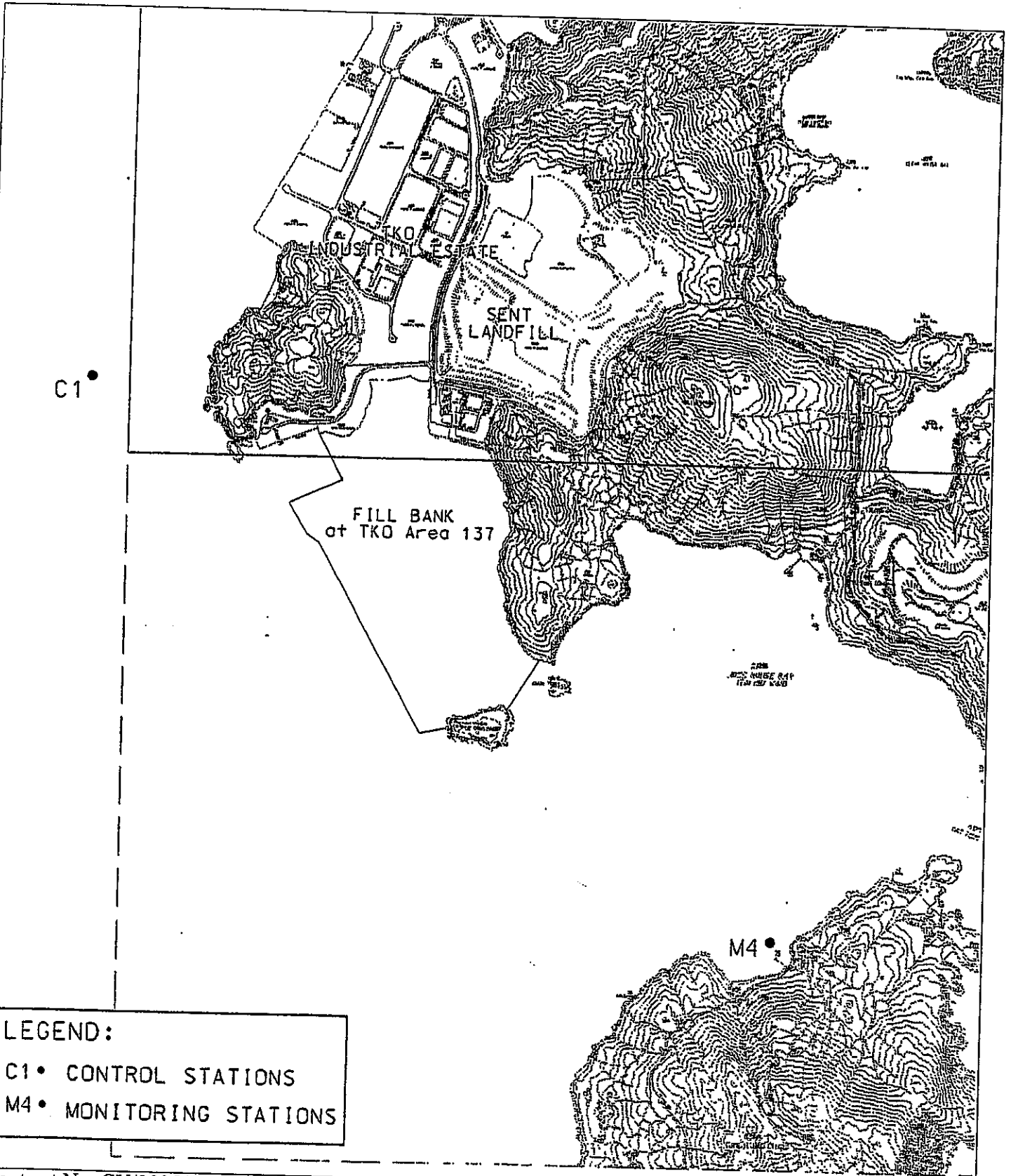
## Complaint Logs

| Log Ref. | Location                  | Received Date | Details of Complaint  | Investigation / Mitigation Action   | Status |
|----------|---------------------------|---------------|---|---|--------|
| 001      | Wan Po Road near TVB City | 27 March 2006 | A complaint was received by EPD on 27 March 2006, concerning the dust and debris on Wan Po Road near TVB City Caused by dump trucks from CEDD site. | <p>In response to the complaint, EPD, RE and Contractor had taken a joint site investigation on 27 March 2006. During this joint site investigation, the performance of the wheel washing facilities was found satisfactory in cleaning the wheels of outgoing dump trucks. Besides, the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point was paved with concrete. It is no evidence to show the complaint was not related to the Fill Bank and it is believed that traffic other than Fill Bank (such as dump trucks from the Construction Waste Sorting Facility) deposited the mud and debris to road surface as they travel through Wan Po Road.</p> <p>Although the complaint was not related to the operation of Fill Bank, some mitigation measures has been taken by the Contractor to maintain the haul road and Public road:</p> <ul style="list-style-type: none"> <li>• The Contractor arranged water lorries to carry out ad-hoc additional washings on the section of Wan Po Road as well as the access road concerned during and after the joint site visit;</li> <li>• The Contractor arranged road sweeper to carry out routine cleaning the haul road and the public roads outside the Fill Bank including the section of Wan Po Road nearby TVB City;</li> <li>• All dump tracks and other vehicle were washed and removed all dusty materials from its body and wheels through wheel washing facilities before leaving the Fill Bank; and</li> <li>• Main haul road was sprayed with water by using mist-spraying system to maintain the road surface wet.</li> </ul> <p>From ET's weekly site inspection on 30 March 2006, it was noted that no dust and debris were observed on the Wan Po Road. The haul road and public road near the exit point were found wet and clean (Appendix C). Wheel washing facilities were operated properly and all dump tracks and other outgoing vehicles were washed by passing through the wheel washing facilities before leaving the Fill Bank. No violation relating depositing of debris and mud on road surface was observed during the site inspection. Hence, it was believed that the complaint was not related to the operation of Fill Bank and no further action was required to be implemented.</p> | Closed |



## Figures





Contract No. CV/2005/12

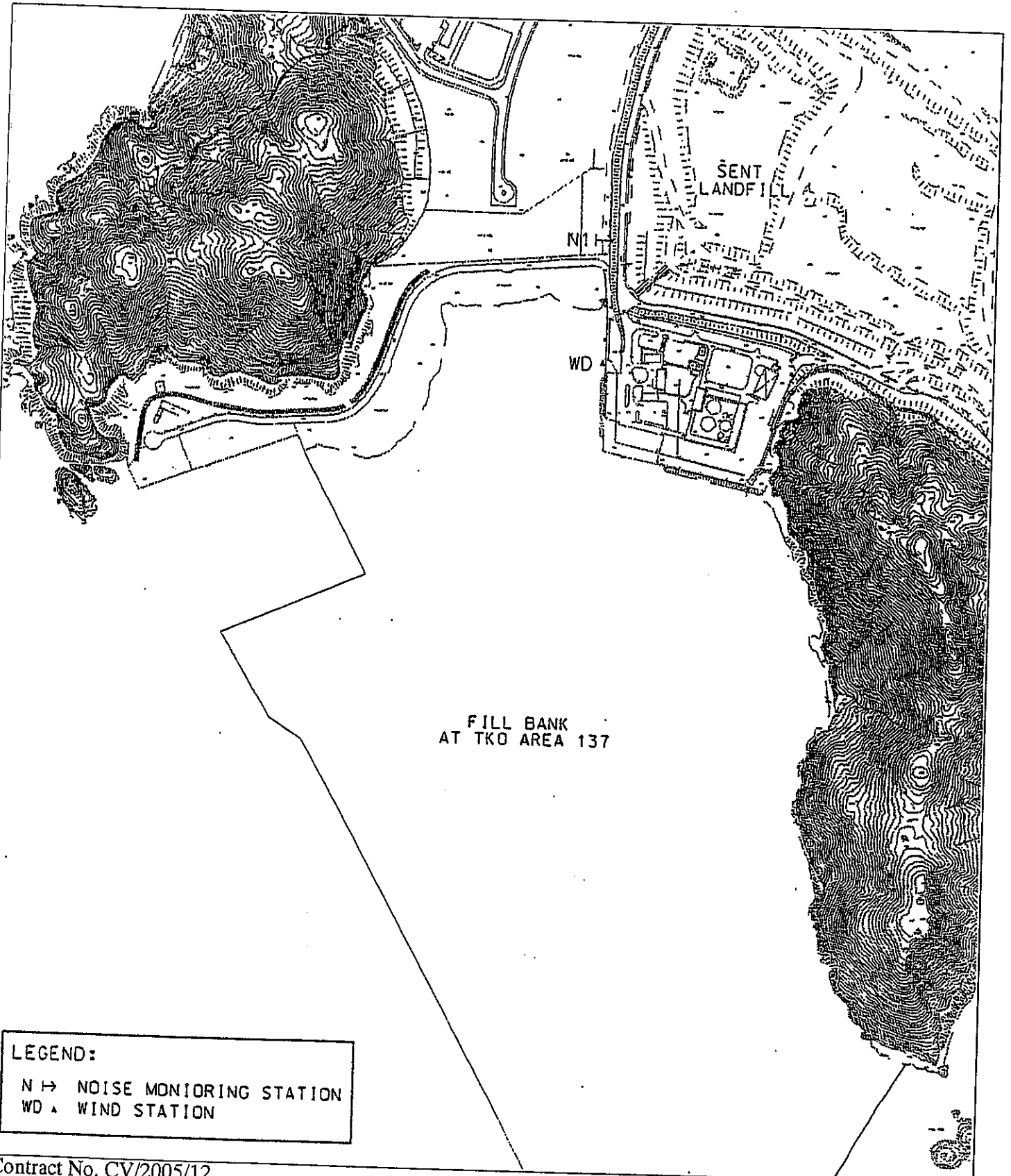
Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Figure 1

Locations of Water Quality Monitoring Stations -  
Fill Bank at Tseung Kwan O Area 137



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**LEGEND:**

- N ⇨ NOISE MONITORING STATION
- WD ▲ WIND STATION

Contract No. CV/2005/12

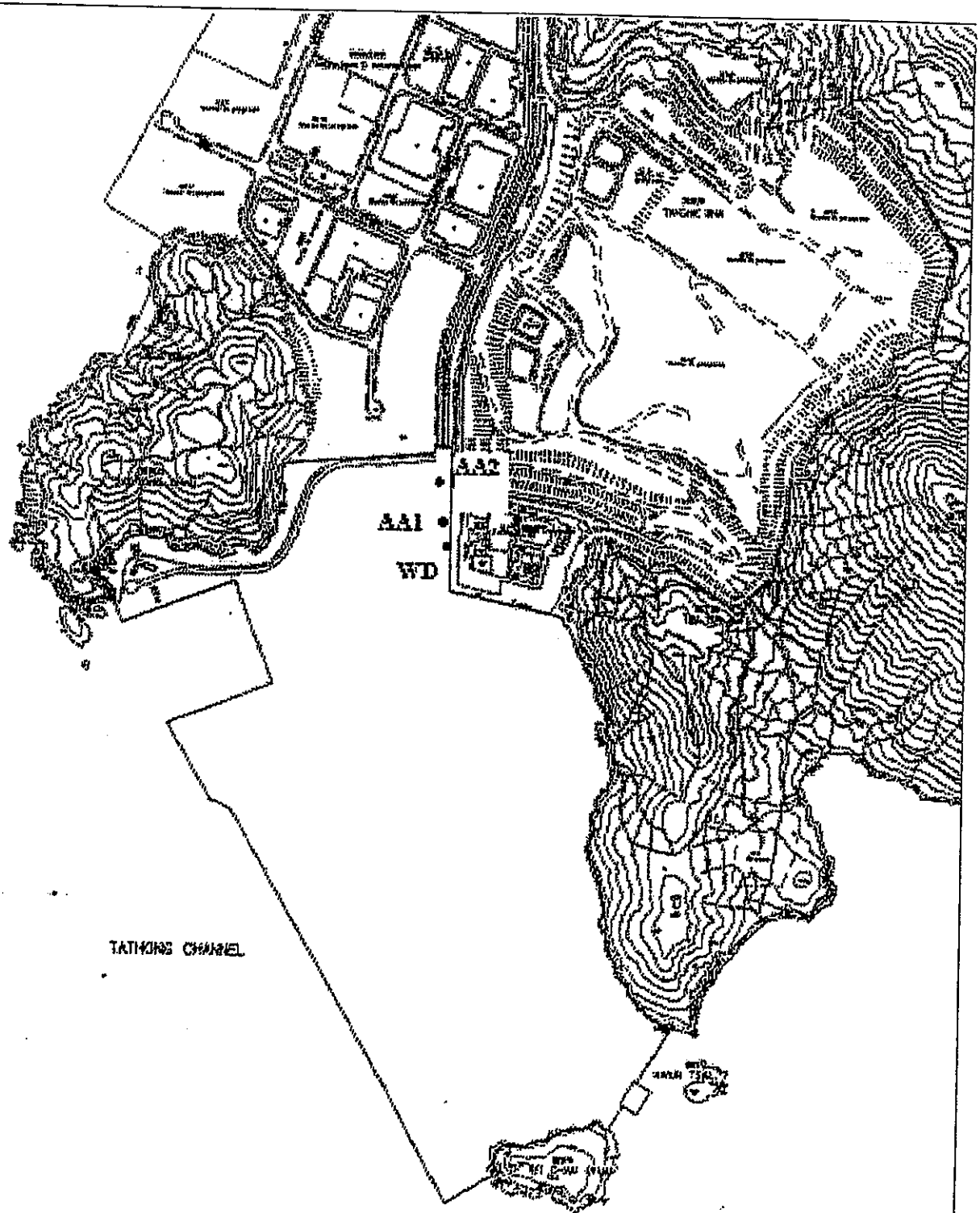
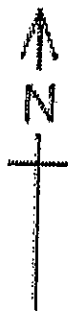
Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Figure 2

Locations of Noise Monitoring Station –  
Fill Bank at Tseung Kwan O Area 137



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ETS-TESTCONSULT LIMITED



**Legend:**

**AA # Air Monitoring Stations**

**WD ■ Wind Station**

Contract No. CV/2005/12

Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Figure 3

Locations of Air Quality Monitoring Stations –  
Fill Bank at Tseung Kwan O Area 137



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