Airport Management Services Limited

# SkyCity Golf Course EM&A

# Monthly Impact Report

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July 2006

7 August 2006

Report no: 01332R0061

Hyder Consulting

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# 1 Executive Summary

The purpose of this Project is to construct and operate a 9-hole Golf Course at the east side of the North Commercial District (NCD) on the Airport Island as an interim arrangement prior to the area's future development as a business park (see Figure 1-1). The proposed interim golf facility, known as "SkyCity Golf Course" is intended to serve airport passengers, overseas visitors and airport workers until August 2013.

The Project will be managed by Airport Management Services Limited (AMS) who have employed a Works Contractor, Wing Fat Construction Co. Ltd., to carry out the construction works. Hyder Consulting have been employed as the Environmental Team (ET) for the Construction Period and have engaged ALS Technichem Pty Ltd as the HOKLAS accredited testing laboratory to carry out marine water analysis.

The construction work commenced on 7 March 2006 and it anticipated to last for a period of six to seven months. According to the approved EM&A Manual, impact monitoring during the Construction Period is required for suspended solids, dissolved oxygen and turbidity.

The monthly site audit revealed that there were no significant non-compliances in terms of water, air, noise, waste or landscape and visual, although the Environmental Team made a number of recommendations to the Works Contractor to improve environmental conditions.

Impact monitoring was carried out during July 2006 in accordance with the approved EM&A Manual. Monitoring was carried out on 3, 7, 10, 14, 17, 21, 24, 28 and 31 July. The monitoring results are detailed in this report, which complies with the reporting requirements stated in the approved EM&A Manual.

There was one exceedance of Limit Level for suspended solids during July 2006. Although there were rainfalls during the reporting, there were no discharges from site. As such, the exceedance cannot be attributed to site activities and so cannot be considered as exceedances in terms of the EM&A programme. No action or follow-up is thus deemed to be necessary. Notwithstanding, future monitoring results will be examined closely and correlations with any discharge from site will be followed up immediately to ensure that no adverse environmental impacts are caused by this Project.

There were no complaints received and no notifications of summons.

Overall, there are no adverse environmental impacts caused by the Works during the reporting month, although there is room for improvement in overall site environmental management – recommendations have been made and will be followed up in due course.

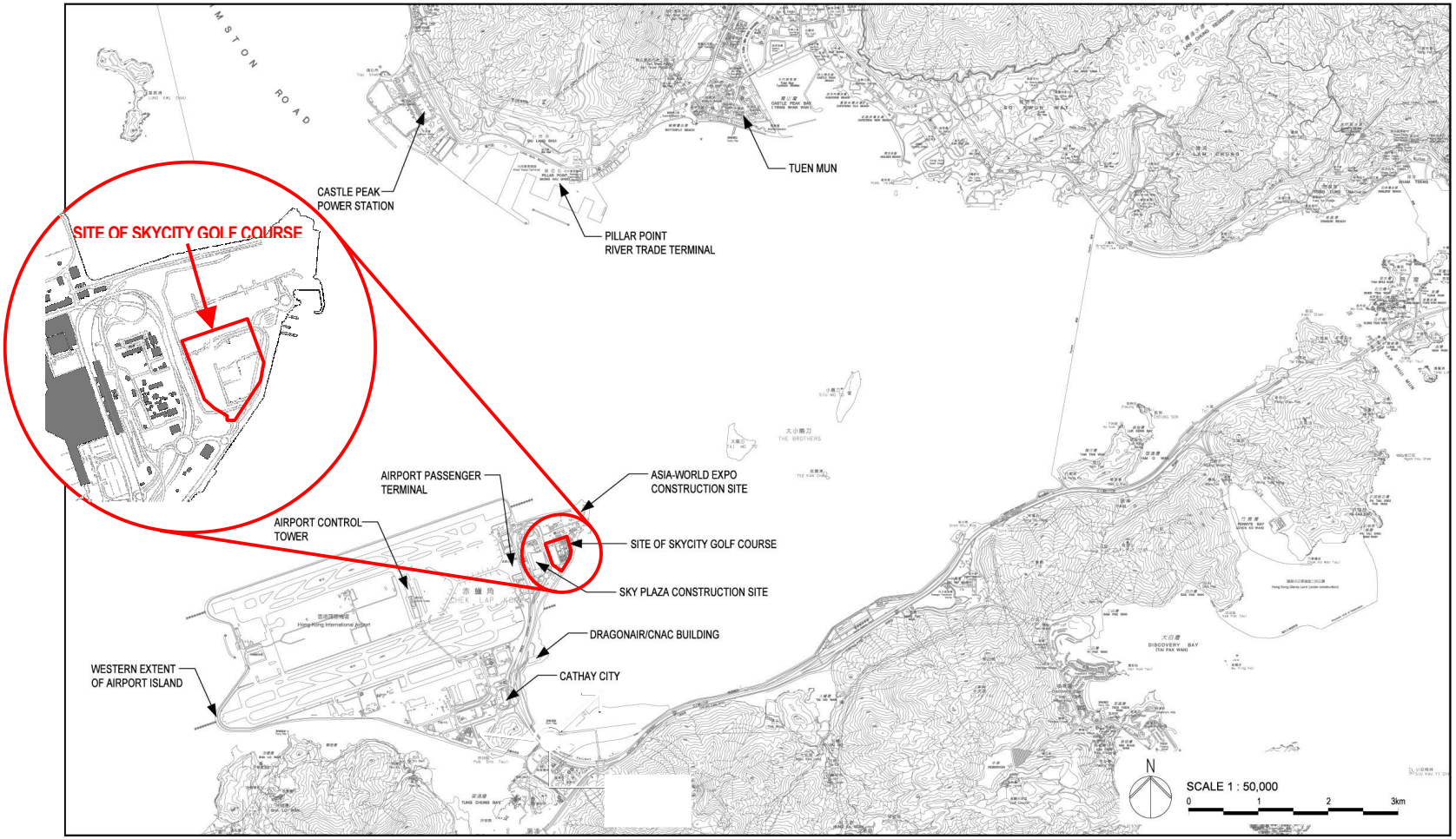



**Figure 1-1 Location of SkyCity Golf Course on the Airport Island**

# 2 Site Audit

The monthly site audit examines the implementation status of environmental protection, mitigation and pollution control measures.

Appendix 1 contains the site audit checklist for July 2006. From this the following observations on the implementation status of environmental, mitigation and pollution control measures can be made. Areas for improvement and follow-up are indicated on the checklist and have been highlighted below. The Works Contractor is aware of any shortcomings and has been advised by the ET of any improvements that are required.

## 2.1 Water Quality

A vehicle wheelwash has been provided at the site egress point. However, the Contractor was reminded to the silt accumulated in the wheel washing bay frequently. The remaining perimeter U-channel of some 20m along the southern part of the site is being constructed.

As indicated by the Contractor, no water has been discharged from the site during the reporting month as rain water are collected in the excavated lake bowls and from there percolate down to replenish the groundwater below the site. However, it was observed that a section of hoarding near the site entrance was not sealed. Muddy water was found flowing out from the site through the gap between hoarding and the ground. The Contractor was reminded to seal the hoarding properly. The Contractor was also reminded to provide tarpaulin cover for the stockpiles of soil during rainstorms.

It is noted that a Discharge Licence under the Water Pollution Control Ordinance has been issued by EPD to the Contractor. The Contractor is reminded to keep the license on site for inspection. The Contractor has also been reminded to make silt traps/settlement tanks available on site in case these are needed for discharge off-site.

## 2.2 Air Quality

It was observed that the unpaved areas and haul roads of the entire site area were wet. No adverse air quality caused by the construction activities as observed.

## 2.3 Noise

No significant noise problems were noted. The most apparent noise source is overhead aircraft.

## 2.4 Waste/Chemical Management

Three-colour recycling bins have been placed near to the Contractor's site office. The Contractor has registered as a Waste Producer under the Waste Disposal Ordinance. It was observed that chemical waste storage has been provided.

All diesel storage tanks and oil/lubricant drums have been provided with a drip tray.

## 2.5 Landscape and Visual

The site is completely surrounded by a hoarding and there are no landscape or visual issues at this time.

## 2.6 General

The Environmental Permit is displayed at the entrance to the site as required. Although the Contractor has applied and/or received other permits and licences relating to environmental protection, these are not filed in an accessible manner. The Contractor was recommended to ensure that all relevant permits and licences are easily available for inspection, by both the ET and also by EPD.

Overall, the site operation is acceptable from an environmental point of view, but there is room for improvement. The Contractor has been advised of those areas which require immediate attention and this will be followed-up during the next site audit.

# 3 Marine Water Quality EM&A

Monitoring of Dissolved Oxygen (DO) concentration in mg/ℓ, Suspended Solids (SS) in mg/ℓ and turbidity in NTU, was carried out by the ET to ensure that any deterioration in marine water quality could be readily detected and timely action could be taken to rectify the situation if this was due to site activities. DO and turbidity were measured *in-situ* whilst SS was determined in laboratory.

Other parameters, such as water depth, sea temperature, salinity and DO saturation are recorded for reference, and weather conditions, sea conditions, tidal stage and any particular site activities are recorded for information.

## 3.1 Monitoring Results

### 3.1.1 Summary

A summary of monitoring results for the reporting month is provided in Table 3-1, below. Detailed results are provided in Appendix 2, in which exceedances of Action/Limit (A/L) Levels are highlighted.

| Station | | Temperature ($^{O}$C) | Salinity (mg/ℓ) | DO Saturation (%age) | DO Concentration (mg/ℓ) | Turbidity (NTU) | SS (mg/ℓ) |
|---|---|---|---|---|---|---|---|
| C1 | **Mean** | 28.1 | 15.6 | 93.0 | 6.7 | 5 | 6 |
| | **Maximum** | 30.6 | 26.7 | 108.1 | 7.7 | 7 | 10 |
| | **Minimum** | 24.5 | 6.2 | 82.8 | 5.8 | 3 | 3 |
| C2 | **Mean** | 28.1 | 15.7 | 93.2 | 6.7 | 4 | 5 |
| | **Maximum** | 30.4 | 26.9 | 106.0 | 7.6 | 5 | 10 |
| | **Minimum** | 25.2 | 6.2 | 82.5 | 5.8 | 2 | 3 |
| **M1** | **Mean** | 28.2 | 15.7 | 91.9 | 6.7 | 4 | 5 |
| | **Maximum** | 30.6 | 26.8 | 106.1 | 7.7 | 6 | 7 |
| | **Minimum** | 25.4 | 6.2 | 64.6 | 5.8 | 3 | 2 |
| M2 | **Mean** | 28.2 | 15.9 | 93.5 | 6.7 | 4 | 5 |
| | **Maximum** | 30.5 | 28.9 | 106.4 | 7.6 | 6 | 10 |
| | **Minimum** | 25.3 | 6.1 | 82.4 | 5.8 | 2 | 2 |

**Table 3-1 Summary of Impact Monitoring Data**

## 3.1.2 Equipment and Methodology

Because of the relatively shallow water, *in-situ* measurements and water sampling were conducted at only one water depth – the mid-depth. Water samples for all monitoring parameters were collected, stored, preserved and analysed according to *APHA Standard Methods for the Examination of Water and Wastewater, 19th Edition,* #17.

*In-situ* DO concentration, turbidity (and temperature, salinity and DO saturation) were carried out using a YSI Model 6820 CE-C-M-Y multi-parameter meter:

| Parameter | YSI Model 6820 CE-C-M-Y | | |
|---|---|---|---|
| | Range | Resolution | Accuracy |
| DO Concentration | 0 to 50 mg/ℓ | 0.01 mg/ℓ | 0 to 20 mg/ℓ: ±2% of reading or 0.2 mg/ℓ, whichever is greater; 20 to 50 mg/ℓ: ±6% of reading |
| DO Saturation | 0 to 500% | 0.1% | 0 to 200%: ±2% of reading or 2% air saturation, whichever is greater; 200 to 500%: ±6% of reading |
| Turbidity | 0 to 1,000 NTU | 0.1 NTU | ±2% of reading or 0.3 NTU, whichever is greater |
| Temperature | -5 to +70°C | 0.01°C | ±0.15°C |
| Salinity | 0 to 70 ppt | 0.01 ppt | ±1% of reading or 0.1 ppt, whichever is greater |

**Table 3-2 *In-situ* Monitoring Equipment Details**

A Kahlisco water sampler was used to obtain the water sample for subsequent SS analysis. Water samples were collected in high density polythene bottles, packed in ice (cooled to 4℃ without being frozen), and delivered to ALS' laboratory (HOKLAS accredited) immediately after completion of monitoring. The analysis follows APHA *Standard Methods #*2540D.

A Global Positioning System (GPS) was used to determine the exact monitoring location and water depth was determined using an echo-sounder.

## 3.1.3 Maintenance and Calibration

All *in-situ* monitoring instruments are calibrated and certified by ALS at 3-monthly intervals throughout the marine water quality monitoring programme.

For DO, the probe (YSI 6820) is calibrated once per monitoring day by the wet bulb method. Calibration at ALS is carried out once every three months in a water sample of known dissolved oxygen concentration. The sensor is immersed in the water and after thermal equilibration, the known mg/l value is keyed in and the calibration is carried out automatically.

For turbidity, the probe (YSI 6820) is calibrated with a solution of known NTU at ALS once every three months. Calibration as per dissolved oxygen, above.

Calibration details are provided in Appendix 3.

### 3.1.4 Parameters Monitored

The following parameters are monitored and compared to A/L Levels:

- Dissolved Oxygen (DO)
- Suspended Solids (SS)
- Turbidity

Other parameters, such as water depth, sea temperature, salinity and dissolved oxygen saturation ware recorded for reference, and weather conditions, sea conditions, tidal stage and any particular site activities were recorded for information.

### 3.1.5 Monitoring Locations

Monitoring locations together with grid references are shown in Figure 3-2. Control Stations are designated C1 and C2 and Monitoring Stations are designated M1 and M2.

### 3.1.6 Monitoring Date, Time, Frequency and Duration

Monitoring of marine water quality is carried out twice-weekly during mid-ebb and mid-flood tides. Table 3-3, below, provides details of the monitoring dates, times and duration:

| Date | Duration of Ebb Tide | Monitoring at Mid-Ebb | Duration of Flood Time | Monitoring at Mid-Flood |
|---|---|---|---|---|
| 3/7/06 | 14:01 to 21:37 | 17:49 | 08:30 to 14:01 | 11:15 |
| 7/7/06 | 06:16 to 14:19 | 10:17 | 14:19 to 20:48 | 17:33 |
| 10/7/06 | 08:20 to 16:36 | 12:28 | 16:36 to 23:21 | 19:58 |
| 14/7/06 | 11:39 to 19:20 | 15:29 | 05:16 to 11:39 | 08:27 |
| 17/7/06 | 14:30 to 21:06 | 17:48 | 08:30 to 14:30 | 11:30 |
| 21/7/06 | 06:20 to 14:19 | 10:19 | 14:19 to 21:34 | 17:56 |
| 24/7/06 | 08:38 to 16:40 | 12:39 | 16:40 to 23:16 | 19:58 |
| 28/7/06 | 11:16 to 18:50 | 15:03 | 04:53 to 11:16 | 08:04 |
| 31/7/06 | 08:38 to 14:20 | 11:10 | 14:20 to 21:30 | 18:00 |

**Table 3-3 Monitoring Date, Time, Frequency and Duration**

## 3.2 Action/Limit Levels

The A/L Levels for the impact monitoring stations (M1 and M2) were determined in the approved Interim Baseline Monitoring Report and are shown in Table 3-4:

| Parameter | Action Level | Limit Level |
|---|---|---|
| DO Concentration | 5th percentile of baseline data = 7.0 mg/ℓ, or 80% of the upstream control station | 4.0 mg/ℓ, or 70% of the upstream control station |
| Turbidity | 95th percentile of baseline data = 9.6 NTU, or 120% of the upstream control station | 99th percentile of baseline data = 10.5 NTU, or 130% of the upstream control station |
| SS | 95th percentile of baseline data = 9.4 mg/ℓ, or 120% of the upstream control station | 99th percentile of baseline data = 9.9 mg/ℓ, or 130% of the upstream control station |

**Table 3-4 Action and Limit Levels for Water Monitoring Stations**

In case of exceedance of A/L Levels at M1 or M2, the Event/ Action Plan (shown in Table 3-5, below) shall be followed.

| Event | Action | |
|---|---|---|
| | ET | Works Contractor |
| Exceedance of Action Level | 1. Identify the source(s) of impact. If not from the Project then provide justification and document this<br>2. If exceedance is caused by the Project then inform Contractor<br>3. Check monitoring data and Contractor's working methods<br>4. Discuss possible mitigation measures with Contractor<br>5. Repeat measurement on next day of exceedance | 1. Confirm notification of the exceedance in writing<br>2. Rectify any unacceptable practice<br>3. Check all plant and equipment<br>4. Amend working methods if appropriate<br>5. Discuss possible mitigation measures with ET<br>6. Implement the agreed mitigation measures |
| Exceedance of Limit Level | 1. Identify the source(s) of impact. If not from the Project then provide justification and document this in the EM&A Report<br>2. If exceedance is caused by the Project then inform Contractor<br>3. Check monitoring data and Contractor's working methods<br>4. Agree mitigation measures with Contractor<br>5. Ensure mitigation measures are implemented immediately<br>6. Increase the monitoring frequency to daily until no further exceedance of Limit Level | 1. Confirm notification of the exceedance in writing<br>2. Rectify any unacceptable practice<br>3. Check all plant and equipment<br>4. Amend working methods if appropriate<br>5. Agree possible mitigation measures with ET<br>6. Implement the agreed mitigation measures immediately |

**Table 3-5 Event Action Plan for Marine Water Quality Monitoring**

## 3.3 Summary of Exceedances

### 3.3.1 Review of Exceedances and Implications

There was one exceedance of Limit Level for suspended solids during July 2006. The Event/Action Plan was implemented.

The first action is to determine the source of the exceedance. There have been rainfalls during the reporting month. However, there was no surface run-off or no discharges from site since rainwater was collected in the excavated lake bowls and from there percolated down to replenish the groundwater below the site. As such, the cause of these exceedances cannot be from site activities.

As such, the exceedance cannot be considered as exceedances in terms of the EM&A programme. No action or follow-up is thus deemed to be necessary.

Notwithstanding, future monitoring results will be examined closely and correlations with any discharge from site will be followed up immediately to ensure that no adverse environmental impacts are caused by this Project.

### 3.3.2 Action Taken and Follow-up

The exceedances of Limit Level noted during this reporting month are not considered to be exceedances in terms of the EM&A programme and so no action or follow-up is deemed to be necessary.

## 3.4 Complaints and Notifications of Summons

### 3.4.1 Complaints

No complaints were received during the reporting month and there are no outstanding follow-up issues to be addressed.

### 3.4.2 Notifications of Summons

No notifications of summons were received during the reporting month and there are no outstanding follow-up issues to be addressed.

## 3.5 Works Programme and Future Monitoring Schedule

Appendix 4 shows the current work programme for the works and Appendix 5 provides the future schedule for marine water quality monitoring.

Based on the work to be carried out in future months, no significant impacts to marine water quality are anticipated.

Key

38ha Catchment Area for Outfall No. 8

11.56ha Project Site Boundary

M1-2 Marine Water Quality Monitoring Location (Impact Monitoring)

C1-2 Marine Water Quality Control Stations (Impact Monitoring)

**Co-ordinates of Monitoring Locations and Control Stations**

| | Northing | Easting |
|---|---|---|
| M1 | 22°18'77" | 113°56'65" |
| M2 | 22°18'94" | 113°56'78" |
| C1 | 22°18'45" | 113°56'50" |
| C2 | 22°19'21" | 113°56'95" |

**Note :** Co-ordinates based on WGS 1984 datum

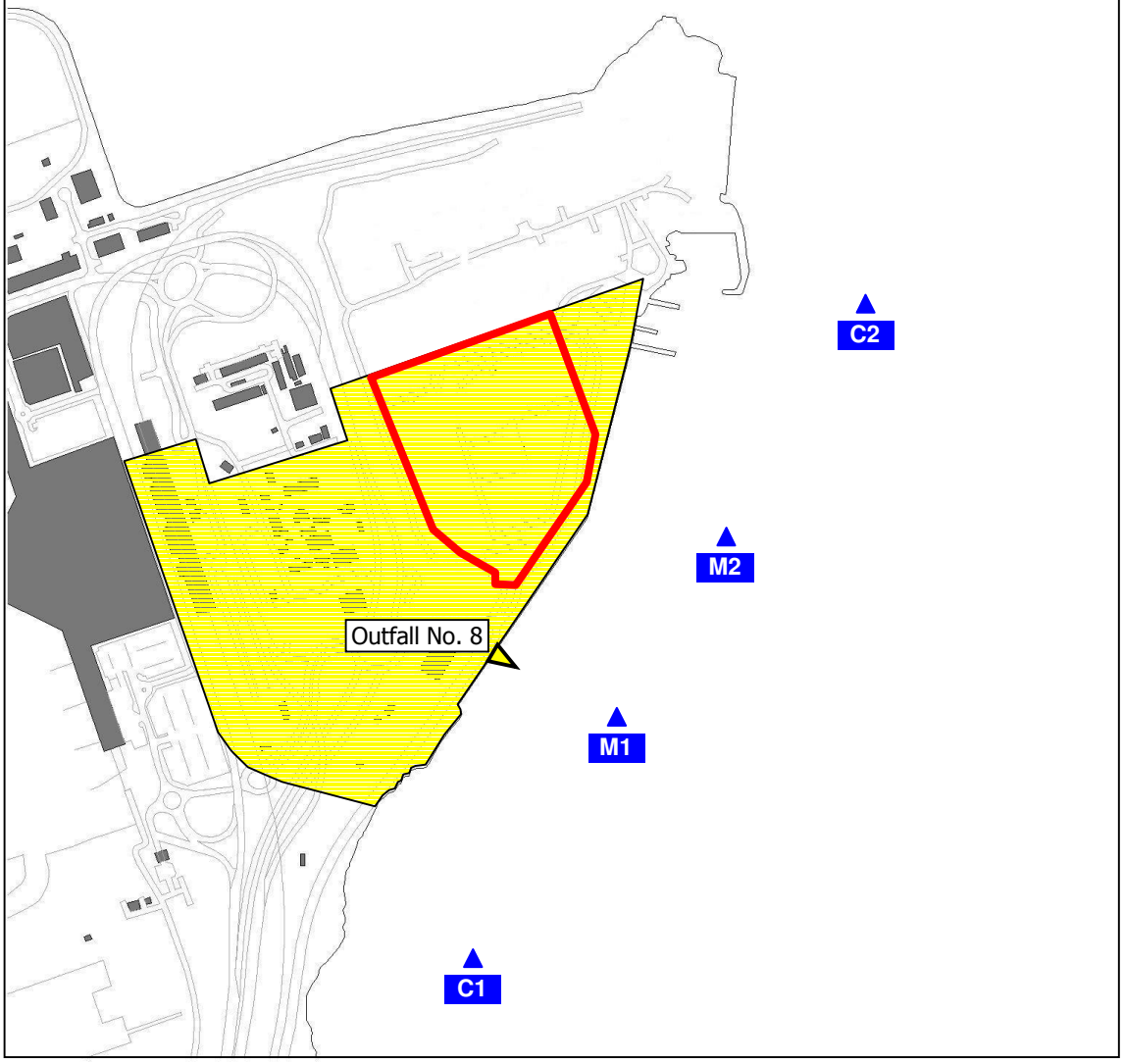



**Figure 3-2 Location of Impact Monitoring Stations**

# 4 Comments, Recommendations and Conclusions

The monthly site audit revealed that there was no significant non-compliances in terms of water, air, noise, waste or landscape and visual, although the Environmental Team made a number of recommendations to the Works Contractor to improve environmental conditions.

In terms of marine water quality monitoring, there were no exceedances of A/L Levels during July 2006.

There were no complaints received and no notifications of summons.

Overall, there are no adverse environmental impacts caused by the Works during the reporting month, although there is room for improvement in overall site environmental management – recommendations have been made and will be followed up in due course.

# Appendix 1

# Site Audit Checklist

# SkyCity Golf Course
# Environmental Team (ET) for Construction Period
# SITE INSPECTION/AUDIT CHECKLIST

Hyder Consulting

Inspection No.

Inspection Date 28/7/06 Time 10:00 Inspected By Client: ✓

Site SkyCity Golf Course Contractor Wing Fat Contractor: WF

ET: Adi

**Weather**

Condition ☐ Sunny ☐ Fine ☑ Overcast ☐ Drizzle ☐ Rain ☐ Storm ☐ Hazy

Temperature 17 °C Humidity ☑ High ☐ Moderate ☐ Low

Wind ☐ Calm ☑ Light ☐ Breeze ☐ Strong Direction

| | | N/A or not observed | Yes | No | Photo/Remarks |
|---|---|---|---|---|---|
| **1** | **Water Quality** | | | | |
| 1.1 | Perimeter cut off drains direct off-site water around the site? | ☐ | ✓ | ☐ | |
| 1.2 | Is all surface runoff directed to silt removal facilities prior to discharge? | ✓ | ✓ WF Adi | ☐ | |
| 1.3 | Channels, earth bunds or sandbags direct surface runoff to silt removal facilities? | ✓ | ✓ WF Adi | ☐ | |
| 1.4 | Is groundwater pumped out from tunnelling and excavations discharged via silt removal facilities? | ✓ | ☐ | ☐ | |
| 1.5 | Are there silt removal facilities for settling surface runoff prior to discharge? | ✓ | ✓ WF Adi | ☐ | |
| 1.5.1 | Constructed from pre-formed individual cells or silt traps / basins? | ✓ | ✓ WF Adi | ☐ | |
| 1.5.2 | Adequate capacity? | ✓ | ✓ WF Adi | ☐ | |
| 1.5.3 | Free from silt and sand? | ✓ | ✓ WF Adi | ☐ | |
| 1.5.4 | Inspected and maintained after rain storm? | ✓ | ☐ | ☐ | |
| 1.6 | Is drainage system well maintained to prevent flooding and overflow? | ☐ | ✓ | ☐ | |
| 1.7 | Is exposed earth stabilized after earthworks have been completed? | ☐ | ✓ | ☐ | |
| 1.8 | Are exposed slope surfaces covered (by tarpaulin or other means)? | ☐ | ✓ | ☐ | |
| 1.9 | Are open stockpiles of excavated and construction materials covered during rainstorms? | ✓ | ☐ | ☐ | |
| 1.10 | Any measures to prevent the washing away of excavated and construction materials e.g. sand/silt to drains? | ☐ | ✓ | ☐ | |
| 1.11 | Are manholes covered and sealed? | ☐ | ✓ | ☐ | |
| 1.12 | Are vehicles and plant cleaned of earth, mud and debris before leaving the site? | ☐ | ✓ | ☐ | |
| 1.13 | Are vehicle washing facilities provided at every site exit? | ☐ | ✓ | ☐ | |

| | | N/A or not observed | Yes | No | Photo/Remarks |
|---|---|---|---|---|---|
| 1.13.1 | Wastewater treated in silt removal facility? Silt removal facility emptied of silt regularly? | ☐ | ☐ | ☑ | (2) |
| 1.13.2 | Washing area and road exiting from washing facility paved? | ☐ | ☑ | ☐ | |
| 1.13.3 | Access road has sufficient backfall toward washing facility or bunded to prevent of untreated wastewater? | ☐ | ☑ | ☐ | |
| 1.14 | Equipment oil and lubrication replacements performed only in bunded maintenance area? | ☑ | ☐ | ☐ | |
| 1.15 | Drainage from maintenance area discharged via an oil interceptor? | ☑ | ☐ | ☐ | |
| 1.15.1 | Oil and grease removed regularly? | ☑ | ☐ | ☐ | |
| 1.16 | Toilets that connect to foul sewer or chemical toilets provided? | ☐ | ☑ | ☐ | |
| 1.17 | Is debris and rubbish prevented from entering drains? | ☐ | ☐ | ☑ | (3) |
| 1.18 | Is Effluent Discharge Licence available for inspection? | ☐ | ☑ | ☐ | |

## 2 AIR QUALITY

| | | | | | |
|---|---|---|---|---|---|
| 2.1 | Are hoarding not less than 2.4m tall provided beside roads or areas with public access? | ☐ | ☑ | ☐ | |
| 2.2 | Are the roads and unpaved areas watered regularly to avoid dust generation? | ☐ | ☑ | ☐ | |
| 2.3 | Are stockpiles of excavated material covered or regularly watered? | ☑ | ☐ | ☐ | |
| 2.4 | Is stockpile of dusty materials kept to not extend beyond the pedestrian barriers, fencing or traffic cones? | ☐ | ☑ | ☐ | |
| 2.5 | Is the public road around the site entrance kept clean and free from dust? | ☐ | ☑ | ☐ | |
| 2.6 | Do the site vehicles use the vehicle wash facility at the site exits? | ☐ | ☑ | ☐ | |
| 2.7 | Are materials transported on trucks covered? | ☐ | ☑ | ☐ | |
| 2.8 | Are dusty materials sprayed prior to loading? | ☐ | ☑ | ☐ | |
| 2.9 | Are all truck loads to a level within the side and tail boards? | ☐ | ☑ | ☐ | |
| 2.10 | Are areas where demolition/site clearance/breaking take place regularly watered? | ☑ | ☐ | ☐ | |
| 2.11 | Is every stock of more than 20 bags of cement or day covered entirely by impervious sheeting or placed in an area sheltered on the top and the three sided? | ☑ | ☐ | ☐ | |
| 2.12 | Are potentially dusty demolished items/debris covered or placed in a three sided shelter? | ☑ | ☐ | ☐ | |
| 2.12.1 | Is the debris sprayed with water/dust suppression chemical to keep wet before it is dumped onto a debris chute? | ☑ | ☐ | ☐ | |
| 2.13 | Odorous materials immediately covered and promptly removed from site? | ☑ | ☐ | ☐ | |
| 2.14 | Are there enclosures around the main dust-generating activities? | ☑ | ☐ | ☐ | |

| | | N/A or not observed | Yes | No | Photo/Remarks |
|---|---|---|---|---|---|
| 2.15 | Is open burning prohibited? | ☐ | ☑ | ☐ | |
| 2.16 | Are completed earthworks sealed and hydroseeded and planted as soon as practicable? | ☐ | ☑ | ☐ | |
| 2.17 | Are vehicles and equipment switched off while not in use? | ☐ | ☑ | ☐ | |
| 2.18 | Do vehicles and equipment maintained that no excessive smoke or visible vapour emitted? | ☐ | ☑ | ☐ | |

Observable dust sources ☐ Wind erosion ☐ Vehicle/equipment movements
☐ Loading/unloading of materials ☐ Others_____

## 3 Noise

| | | | | | |
|---|---|---|---|---|---|
| 3.1 | Are the construction works scheduled to minimise noise nuisance? | ☐ | ☑ | ☐ | |
| 3.2 | Are the works or equipment sited to minimize noise nuisance? Mobile plant sited away from NSRs? Noisy plant oriented away from NSRs? | ☐ | ☑ | ☐ | |
| 3.3 | Are all plant and equipment well maintained and in good operating condition? | ☐ | ☑ | ☐ | |
| 3.4 | Is idle equipment turned off or throttled down? | ☐ | ☑ | ☐ | |
| 3.5 | Are powered mechanical equipment covered or shielded by appropriate acoustic materials? | ☑ | ☐ | ☐ | |
| 3.6 | Are quiet plant used as required? | ☑ | ☐ | ☐ | |
| 3.7 | Are silencers/mufflers fitted and maintained? | ☑ | ☐ | ☐ | |
| 3.8 | Are mobile/temporary noise barriers used where specified? | ☑ | ☐ | ☐ | |
| 3.9 | Do air compressors (≥500kPa of supplying compressed air) and hand held percussive breakers (>10kg in weight) have valid noise labels? | ☐ | ☑ | ☐ | |
| 3.10 | Do compressors and generators operate with doors closed? | ☐ | ☑ | ☐ | |
| 3.11 | Are Construction Noise Permits available for inspection? | ☑ | ☐ | ☐ | |

Major noise source(s) ☑ Traffic ☑ Construction activities inside of site
☑ Construction activities outside of site ☐ Others_____

## 4 Waste/Chemical Management

4.1 General refuse

| | | | | | |
|---|---|---|---|---|---|
| 4.1.1 | Accumulation on-site avoided? | ☐ | ☑ | ☐ | |
| 4.1.2 | Receptacles (e.g. rubbish bins) available? | ☐ | ☑ | ☐ | |
| 4.1.3 | Disposed of regularly and properly? | ☐ | ☑ | ☐ | |
| 4.1.4 | Records of quantities generated/recycled/disposed maintained? | ☐ | ☑ | ☐ | |

| | | N/A or not observed | Yes | No | Photo/Remarks |
|---|---|---|---|---|---|
| 4.2 | Chemical waste | | | | |
| 4.2.1 | Stored properly in designated area? | ☐ | ☑ | ☐ | |
| 4.2.2 | Storage in accordance with Code of Practice? | ☐ | ☑ | ☐ | |
| 4.2.3 | Disposed of properly? | ☐ | ☑ | ☐ | |
| 4.2.4 | Trip tickets available for inspection? | ☐ | ☑ | ☐ | |
| 4.3 | Chemical/fuel storage | | | | |
| 4.3.1 | Is storage area bunded? | ☐ | ☑ | ☐ | |
| 4.3.2 | Adequate bund capacity? (>110% of the largest tank) | ☐ | ☑ | ☐ | |
| 4.3.3 | Area storage area provided with locks and located on sealed areas? | ☐ | ☑ | ☐ | |
| 4.3.4 | Are oil/fuel drums and plant/equipment provided with drip trays to prevent soil contamination? | ☐ | ☑ | ☐ | |
| 4.4 | C&D Material | | | | |
| 4.4.1 | Reused/recycled where practicable? | ☐ | ☑ | ☐ | |
| 4.4.2 | Inert/non inert materials segregated? | ☐ | ☑ | ☐ | |
| 4.4.3 | Disposed of properly? | ☐ | ☑ | ☐ | |
| 4.4.4 | Records of quantities generated/recycled/disposed maintained? | ☐ | ☑ | ☐ | |
| 4.5 | Excavated Material | | | | |
| 4.5.1 | Reused where practicable? | ☐ | ☑ | ☐ | |
| 4.5.2 | Records of quantities generated/reused/disposed maintained? | ☐ | ☑ | ☐ | |
| 4.6 | Are spent bentonite slurries or grouts collected, reconditioned and reused? | ☑ | ☐ | ☐ | |
| 4.7 | Is foam, oil, grease, litter or other objectionable matters in water to nearby drain/sewer avoided? | ☑ | ☐ | ☐ | |
| **5** | **Landscape and Visual** | | | | |
| 5.1 | Are retained trees protected by fencing? | ☑ | ☐ | ☐ | |
| 5.2 | Is the work site confined within site boundaries? | ☐ | ☑ | ☐ | |
| 5.3 | Is damage to surrounding areas avoided? | ☐ | ☑ | ☐ | |

**Remarks**

(1) The contractor was reminded to provide tarpaulin cover to the stockpiles of excavated materials during rain storm.

(2) Removal of silt accumulated in the wheel washing bay should be carried out more frequently.

(3) It was observed that a ~~portion~~ section of hoarding near the site entrance is not sealed. Silty water was found flowing out the site through the gap between hoarding and the ground. The hoarding should be properly sealed.

Signatures:

| ET Inspector | AMS Site Representative | Contractor's Representative |
|---|---|---|
| Name: Ada La | Name: | Name: ALAN S HEUNG KWAN |
| Date: 28/7/06 | Date: 28/7/06 | Date: 28/7/2006 |

# Appendix 2

# Marine Water Quality Monitoring Data

| Date | Time | Station | Sample Depth (m) | Water Depth (m) | Sea Temp (℃) | Salinity (ppt) | DO Sat (%age) | DO Conc (mg/ℓ) | Turbidity (NTU) | SS (mg/ℓ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 03-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 29.1 | 17.5 | 104 | 7.3 | 3 | 6 |
| 03-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 29.2 | 17.4 | 103 | 7.2 | 2 | 6 |
| 03-Jul-06 | (mid-ebb) | C1 | 2 | 3 | 29.3 | 17.2 | 102 | 7.1 | 3 | 7 |
| 03-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 29.1 | 17.1 | 102 | 7.2 | 2 | 6 |
| 03-Jul-06 | (mid-flood) | M1 | 3 | 6 | 28.3 | 17.7 | 98 | 6.9 | 4 | 7 |
| 03-Jul-06 | (mid-flood) | M2 | 3 | 6 | 28.3 | 17.6 | 99 | 7.0 | 4 | **10** |
| 03-Jul-06 | (mid-flood) | C1 | 2 | 3 | 28.4 | 17.4 | 98 | 6.9 | 4 | 7 |
| 03-Jul-06 | (mid-flood) | C2 | 3 | 7 | 28.3 | 17.5 | 97 | 6.9 | 3 | 10 |
| 07-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 30.2 | 7.9 | 103 | 7.3 | 4 | 6 |
| 07-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 30.2 | 7.8 | 104 | 7.4 | 4 | 7 |
| 07-Jul-06 | (mid-ebb) | C1 | 1 | 3 | 30.3 | 7.8 | 106 | 7.5 | 4 | 7 |
| 07-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 30.2 | 7.9 | 104 | 7.4 | 5 | 6 |
| 07-Jul-06 | (mid-flood) | M1 | 3 | 6 | 30.6 | 7.8 | 106 | 7.5 | 5 | 6 |
| 07-Jul-06 | (mid-flood) | M2 | 3 | 6 | 30.5 | 7.8 | 106 | 7.5 | 4 | 7 |
| 07-Jul-06 | (mid-flood) | C1 | 2 | 3 | 30.6 | 7.8 | 108 | 7.6 | 4 | 6 |
| 07-Jul-06 | (mid-flood) | C2 | 3 | 6 | 30.4 | 7.8 | 106 | 7.5 | 5 | 6 |
| 10-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 29.3 | 13.8 | 102 | 7.3 | 5 | 7 |
| 10-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 29.3 | 14.0 | 101 | 7.4 | 3 | 8 |
| 10-Jul-06 | (mid-ebb) | C1 | 2 | 3 | 29.4 | 13.7 | 99 | 7.4 | 7 | 10 |
| 10-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 29.3 | 13.9 | 101 | 7.4 | 3 | 7 |
| 10-Jul-06 | (mid-flood) | M1 | 3 | 6 | 29.3 | 13.7 | 104 | 7.7 | 5 | 7 |
| 10-Jul-06 | (mid-flood) | M2 | 3 | 6 | 29.3 | 13.7 | 106 | 7.6 | 4 | 6 |
| 10-Jul-06 | (mid-flood) | C1 | 2 | 3 | 29.4 | 13.6 | 102 | 7.7 | 6 | 9 |
| 10-Jul-06 | (mid-flood) | C2 | 3 | 6 | 29.4 | 13.8 | 105 | 7.6 | 4 | 7 |

| Date | Time | Station | Sample Depth (m) | Water Depth (m) | Sea Temp (℃) | Salinity (ppt) | DO Sat (%age) | DO Conc (mg/ℓ) | Turbidity (NTU) | SS (mg/ℓ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 14-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 28.5 | 17.4 | 85 | 5.9 | 4 | 2 |
| 14-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 28.6 | 17.4 | 84 | 5.9 | 2 | 2 |
| 14-Jul-06 | (mid-ebb) | C1 | 2 | 3 | 28.6 | 17.2 | 85 | 6.0 | 3 | 3 |
| 14-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 28.5 | 17.4 | 85 | 5.9 | 4 | 3 |
| 14-Jul-06 | (mid-flood) | M1 | 3 | 6 | 28.1 | 17.6 | 83 | 5.8 | 3 | 3 |
| 14-Jul-06 | (mid-flood) | M2 | 3 | 6 | 28.1 | 17.6 | 82 | 5.8 | 3 | 4 |
| 14-Jul-06 | (mid-flood) | C1 | 2 | 3 | 28.2 | 17.2 | 83 | 5.8 | 4 | 5 |
| 14-Jul-06 | (mid-flood) | C2 | 3 | 6 | 28.0 | 17.6 | 83 | 5.8 | 3 | 3 |
| 17-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 27.4 | 17.2 | 97 | 6.8 | 5 | 4 |
| 17-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 27.4 | 17.1 | 96 | 6.8 | 4 | 5 |
| 17-Jul-06 | (mid-ebb) | C1 | 2 | 3 | 27.4 | 17.3 | 96 | 6.7 | 5 | 5 |
| 17-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 27.4 | 16.3 | 96 | 6.8 | 4 | 4 |
| 17-Jul-06 | (mid-flood) | M1 | 3 | 6 | 27.4 | 17.3 | 65 | 6.7 | 4 | 5 |
| 17-Jul-06 | (mid-flood) | M2 | 3 | 6 | 27.4 | 17.1 | 95 | 6.7 | 4 | 4 |
| 17-Jul-06 | (mid-flood) | C1 | 2 | 3 | 24.5 | 17.2 | 94 | 6.6 | 4 | 5 |
| 17-Jul-06 | (mid-flood) | C2 | 3 | 6 | 27.4 | 16.7 | 93 | 6.6 | 3 | 6 |
| 21-Jul-06 | (mid-ebb) | M1 | 6 | 3 | 29.4 | 6.2 | 91 | 6.4 | 5 | 4 |
| 21-Jul-06 | (mid-ebb) | M2 | 6 | 3 | 29.3 | 6.1 | 92 | 6.4 | 5 | 5 |
| 21-Jul-06 | (mid-ebb) | C1 | 3 | 1 | 29.5 | 6.2 | 91 | 6.4 | 6 | 5 |
| 21-Jul-06 | (mid-ebb) | C2 | 6 | 3 | 29.3 | 6.2 | 92 | 6.5 | 4 | 4 |
| 21-Jul-06 | (mid-flood) | M1 | 6 | 3 | 29.7 | 6.2 | 94 | 6.6 | 6 | 5 |
| 21-Jul-06 | (mid-flood) | M2 | 6 | 3 | 29.7 | 6.2 | 92 | 6.5 | 5 | 4 |
| 21-Jul-06 | (mid-flood) | C1 | 3 | 2 | 29.8 | 6.3 | 94 | 6.6 | 7 | 5 |
| 21-Jul-06 | (mid-flood) | C2 | 6 | 3 | 29.7 | 6.2 | 93 | 6.5 | 5 | 6 |

| Date | Time | Station | Sample Depth (m) | Water Depth (m) | Sea Temp (℃) | Salinity (ppt) | DO Sat (%age) | DO Conc (mg/ℓ) | Turbidity (NTU) | SS (mg/ℓ) |
|---|---|---|---|---|---|---|---|---|---|---|
| 24-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 28.6 | 13.9 | 88 | 6.3 | 5 | 5 |
| 24-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 28.5 | 13.9 | 88 | 6.4 | 5 | 6 |
| 24-Jul-06 | (mid-ebb) | C1 | 2 | 3 | 28.7 | 13.5 | 85 | 6.4 | 6 | 6 |
| 24-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 28.5 | 14.2 | 87 | 6.4 | 4 | 7 |
| 24-Jul-06 | (mid-flood) | M1 | 3 | 6 | 28.9 | 13.9 | 85 | 6.3 | 5 | 7 |
| 24-Jul-06 | (mid-flood) | M2 | 3 | 6 | 28.9 | 13.8 | 87 | 6.2 | 6 | 7 |
| 24-Jul-06 | (mid-flood) | C1 | 2 | 3 | 29.0 | 13.7 | 83 | 6.3 | 6 | 6 |
| 24-Jul-06 | (mid-flood) | C2 | 3 | 6 | 28.9 | 14.0 | 88 | 6.3 | 5 | 6 |
| 28-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 25.6 | 26.4 | 91 | 6.4 | 3 | 3 |
| 28-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 25.6 | 26.3 | 91 | 6.5 | 3 | 3 |
| 28-Jul-06 | (mid-ebb) | C1 | 2 | 3 | 25.7 | 26.3 | 90 | 6.5 | 4 | 5 |
| 28-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 25.4 | 26.4 | 91 | 6.5 | 3 | 4 |
| 28-Jul-06 | (mid-flood) | M1 | 3 | 6 | 25.4 | 26.8 | 89 | 6.4 | 3 | 4 |
| 28-Jul-06 | (mid-flood) | M2 | 3 | 6 | 25.3 | 28.9 | 89 | 6.3 | 3 | 3 |
| 28-Jul-06 | (mid-flood) | C1 | 2 | 3 | 25.4 | 26.7 | 89 | 6.5 | 3 | 4 |
| 28-Jul-06 | (mid-flood) | C2 | 3 | 6 | 25.2 | 26.9 | 89 | 6.3 | 2 | 3 |
| 31-Jul-06 | (mid-ebb) | M1 | 3 | 6 | 25.9 | 21.0 | 85 | 6.3 | 3 | 2 |
| 31-Jul-06 | (mid-ebb) | M2 | 3 | 6 | 25.9 | 21.4 | 83 | 6.2 | 3 | 5 |
| 31-Jul-06 | (mid-ebb) | C1 | 2 | 3 | 26.0 | 20.9 | 86 | 6.4 | 4 | 3 |
| 31-Jul-06 | (mid-ebb) | C2 | 3 | 6 | 25.8 | 22.0 | 84 | 6.2 | 3 | 4 |
| 31-Jul-06 | (mid-flood) | M1 | 3 | 6 | 25.5 | 20.8 | 83 | 6.2 | 4 | 3 |
| 31-Jul-06 | (mid-flood) | M2 | 3 | 6 | 25.6 | 21.2 | 85 | 6.3 | 4 | 5 |
| 31-Jul-06 | (mid-flood) | C1 | 2 | 3 | 25.6 | 20.5 | 85 | 6.3 | 4 | 4 |
| 31-Jul-06 | (mid-flood) | C2 | 3 | 6 | 25.5 | 21.5 | 84 | 6.2 | 4 | 4 |

| Date | Time | Station | Sample Depth (m) | Water Depth (m) | Sea Temp (℃) | Salinity (ppt) | DO Sat (%age) | DO Conc (mg/ℓ) | Turbidity (NTU) | SS (mg/ℓ) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | **Mean** | 26.9 | 17.6 | 92.3 | 6.7 | 4.6 | 6.4 |
| | | | | **Maximum** | 28.8 | 24.0 | 106.0 | 8.4 | 7.0 | 16.0 |
| | | | | **Minimum** | 25.3 | 8.9 | 80.2 | 5.8 | 3.0 | 3.0 |

**Notes :** "-" indicates no data is available

**Bold** indicates Action Level exceedance

**Bold** indicates Limit Level exceedance

# Appendix 3

# Equipment Calibration Details

# CERTIFICATE OF ANALYSIS

**Batch:** HK51718
**Sub Batch :** 0
**Date of Issue:** 17/05/2006
**Client:** MAUNSELL ENV MGT CNLT LTD
**Client Reference:**

***Calibration of Tubidimeter***

Item : YSI SONDE Environmental Monitoring System

Model No. : 6820-C-M

Serial No. : 00010867

Equipment No. : W-026-27

Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2130B

Date of Calibration : 04 May,2006

Testing Results :

| Expected Reading | Recording Reading |
|---|---|
| 0.00 NTU | 0.00 NTU |
| 4.00 NTU | 4.30 NTU |
| 16.0 NTU | 17.4 NTU |
| 80.0 NTU | 83.5 NTU |
| 160 NTU | 160 NTU |
| Allowing Deviation | ±10% |

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS

**Batch:** HK51718
**Sub Batch :** 0
**Date of Issue:** 17/05/2006
**Client:** MAUNSELL ENV MGT CNLT LTD
**Client Reference:**

***Calibration of Conductivity System***

Item : YSI SONDE Environmental Monitoring System

Model No. : 6820-C-M

Serial No. : 00010867

Equipment No. : W-026-27

Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2510B

Date of Calibration : 04 May,2006

Testing Results :

| Expected Reading | Recording Reading |
|---|---|
| 1412 uS/cm<br>6667 uS/cm<br>58670 uS/cm | 1387 uS/cm<br>6781 uS/cm<br>58910 uS/cm |
| Allowing Deviation | ±10% |

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS

**Batch:** HK51718
**Sub Batch :** 0
**Date of Issue:** 17/05/2006
**Client:** MAUNSELL ENV MGT CNLT LTD
**Client Reference:**

***Calibration of Salinity System***

Item : YSI SONDE Environmental Monitoring System

Model No. : 6820-C-M

Serial No. : 00010867

Equipment No. : W-026-27

Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2520 A and B

Date of Calibration : 04 May,2006

Testing Results :

| Expected Reading | Recording Reading |
|---|---|
| 10.0 g/L<br>20.0 g/L<br>30.0 g/L | 10.5 g/L<br>20.9 g/L<br>30.5 g/L |
| Allowing Deviation | ±10% |

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS

**Batch:** HK51718
**Sub Batch :** 0
**Date of Issue:** 17/05/2006
**Client:** MAUNSELL ENV MGT CNLT LTD
**Client Reference:**

***Calibration of Thermometer***

Item : YSI SONDE Environmental Monitoring System

Model No. : 6820-C-M

Serial No. : 00010867

Equipment No. : W-026-27

Calibration Method : In-house Method

Date of Calibration : 04 May,2006

Testing Results :

| Reference Temperature ($^0$C) | Recorded Temperature ($^0$C) |
|---|---|
| 20.5 $^0$C<br>24.5 $^0$C | 20.7 $^0$C<br>24.7 $^0$C |
| Allowing Deviation | ±2.0$^0$C |

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

# CERTIFICATE OF ANALYSIS

**Batch:** HK51718
**Sub Batch :** 0
**Date of Issue:** 17/05/2006
**Client:** MAUNSELL ENV MGT CNLT LTD
**Client Reference:**

***Calibration of DO System***

Item : YSI SONDE Environmental Monitoring System

Model No. : 6820-C-M

Serial No. : 00010867

Equipment No. : W-026-27

Calibration Method : This meter was calibrated in accordance with standard method APHA (18th Ed.) 4500-0C & G

Date of Calibration : 04 May,2006

Testing Results :

| Expected Reading | Recording Reading |
|---|---|
| 0.00 mg/L<br>4.32 mg/L<br>6.79 mg/L<br>8.98 mg/L | 0.00 mg/L<br>4.47 mg/L<br>6.59 mg/L<br>8.83 mg/L |
| Allowing Deviation | ±0.2 mg/L |

Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

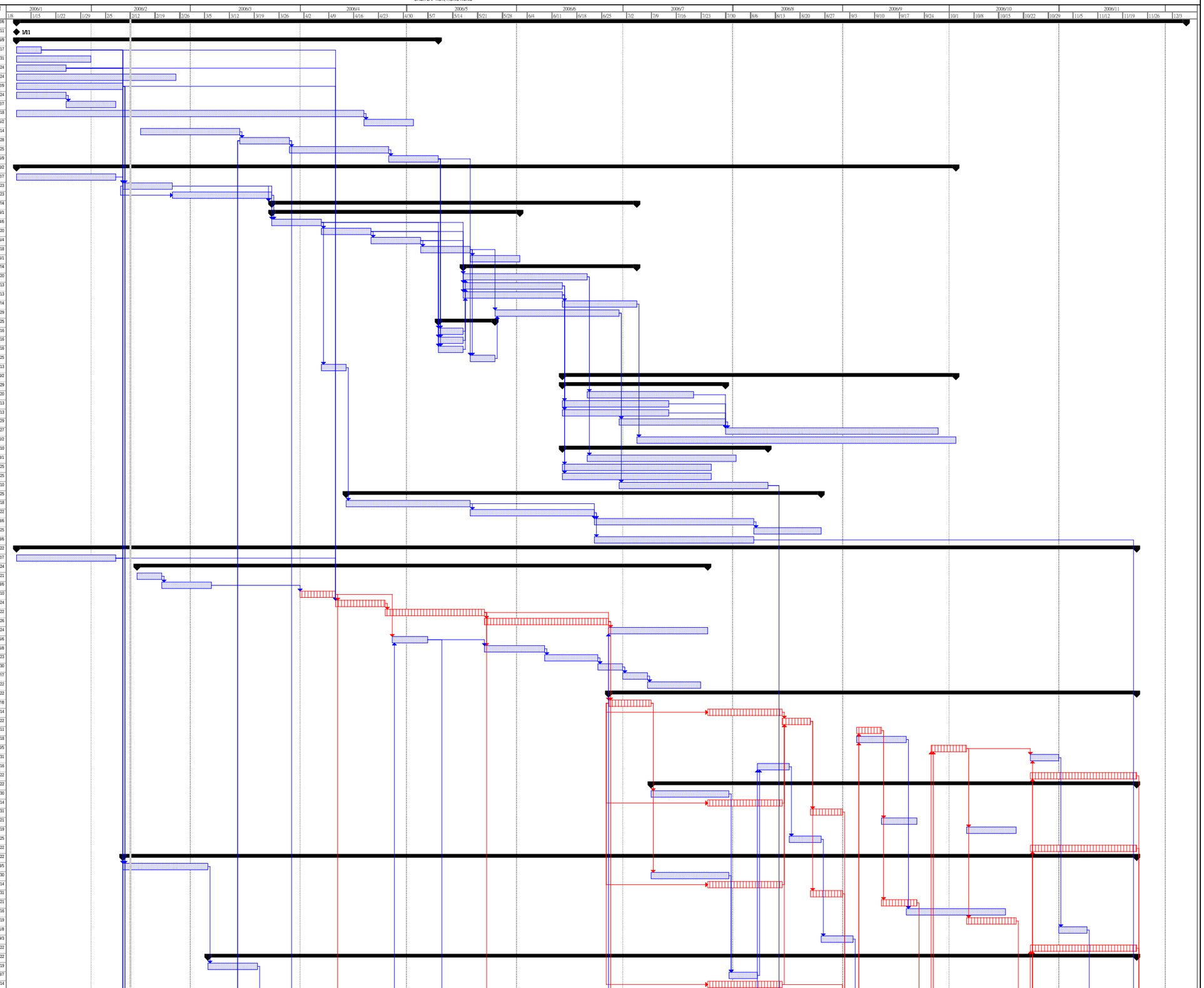
# Appendix 4

# Works Programme

# PROJECT: SKYCITY GOLF COURSE

LOT NO.825, R.P. OF CHEK LAP KOK LOT NO. 1 AND THE EXTENSION THERETO,
CHEK LAP KOK, HONG KONG

| 識別碼 | WBS | 任務名稱 | 工期 | 開始時間 | 完成時間 |
|---|---|---|---|---|---|
| 1 | 1 | CONTRACT PERIOD | 330 days | 2006/1/11 | 2006/12/6 |
| 2 | 1.1 | Project Commencement (Site Handover to Contractor) | 0 days | 2006/1/11 | 2006/1/11 |
| 3 | 1.2 | Preliminaries | 119 days | 2006/1/11 | 2006/5/9 |
| 4 | 1.2.1 | Mobilization of Plants and Equipment | 7 days | 2006/1/11 | 2006/1/17 |
| 5 | 1.2.2 | Site Accommodations (Office Setup, Temporary Power and Water Supplies, etc.) | 21 days | 2006/1/11 | 2006/1/31 |
| 6 | 1.2.3 | Initial Survey | 14 days | 2006/1/11 | 2006/1/24 |
| 7 | 1.2.4 | Hoarding/Fencing Erection | 45 days | 2006/1/11 | 2006/2/24 |
| 8 | 1.2.5 | Site Clearance | 30 days | 2006/1/11 | 2006/2/9 |
| 9 | 1.2.6 | Technical/Samples Preparation and Submission (Structural) | 14 days | 2006/1/11 | 2006/1/24 |
| 10 | 1.2.7 | Technical/Samples Approval (Structural) | 14 days | 2006/1/25 | 2006/2/7 |
| 11 | 1.2.8 | Technical/Shopdrawings/Samples Preparation and Submission (Architectural) | 98 days | 2006/1/11 | 2006/4/18 |
| 12 | 1.2.9 | Technical/Shopdrawings/Samples Approval (Architectural) | 14 days | 2006/4/19 | 2006/5/2 |
| 13 | 1.2.10 | Shopdrawings/Samples Preparation and Submission (E&M) | 28 days | 2006/2/15 | 2006/3/14 |
| 14 | 1.2.11 | Shopdrawings/Samples Approval (E&M) | 14 days | 2006/3/15 | 2006/3/28 |
| 15 | 1.2.12 | CSD and CBWD preparation and submission | 28 days | 2006/3/29 | 2006/4/25 |
| 16 | 1.2.13 | CSD and CBWD Approval | 14 days | 2006/4/26 | 2006/5/9 |
| 17 | 1.3 | Phase 1 | 265 days | 2006/1/11 | 2006/10/2 |
| 18 | 1.3.1 | Approval and Consent obtain from Statutory Authority (Formation and Drainage) | 28 days | 2006/1/11 | 2006/2/7 |
| 19 | 1.3.2 | Filling, Leveling and Formation Works | 14 days | 2006/2/10 | 2006/2/23 |
| 20 | 1.3.3 | Approval and Consent obtain from Statutory Authority (Structure) | 28 days | 2006/2/24 | 2006/3/23 |
| 21 | 1.3.4 | Structural Works | 103 days | 2006/3/24 | 2006/7/4 |
| 22 | 1.3.4.1 | Buildings' Substructure Construction | 70 days | 2006/3/24 | 2006/6/1 |
| 23 | 1.3.4.1.1 | Function Room/Changing Rooms/Pump Room Building | 14 days | 2006/3/24 | 2006/4/6 |
| 24 | 1.3.4.1.2 | Restaurant and Kitchen Building | 14 days | 2006/4/7 | 2006/4/20 |
| 25 | 1.3.4.1.3 | General Office and Pro Shop Building | 14 days | 2006/4/21 | 2006/5/4 |
| 26 | 1.3.4.1.4 | Maintenance Building | 14 days | 2006/5/5 | 2006/5/18 |
| 27 | 1.3.4.1.5 | Cable Trench | 14 days | 2006/5/19 | 2006/6/1 |
| 28 | 1.3.4.2 | Buildings' Superstructures Construction (including 14-days propping period) | 49 days | 2006/5/17 | 2006/7/4 |
| 29 | 1.3.4.2.1 | Function Room/Changing Rooms/Pump Room Building | 35 days | 2006/5/17 | 2006/6/20 |
| 30 | 1.3.4.2.2 | Restaurant and Kitchen Building | 28 days | 2006/5/17 | 2006/6/13 |
| 31 | 1.3.4.2.3 | General Office and Pro Shop Building | 28 days | 2006/5/17 | 2006/6/13 |
| 32 | 1.3.4.2.4 | Outdoor Sitting Area, Terrace and Entrance Plaza | 21 days | 2006/6/14 | 2006/7/4 |
| 33 | 1.3.4.2.5 | Maintenance Building | 35 days | 2006/5/26 | 2006/6/29 |
| 34 | 1.3.4.3 | Underground Drainage and Ducting Works Installation | 16 days | 2006/5/10 | 2006/5/25 |
| 35 | 1.3.4.3.1 | Function Room/Changing Rooms/Pump Room Building | 7 days | 2006/5/10 | 2006/5/16 |
| 36 | 1.3.4.3.2 | Restaurant and Kitchen Building | 7 days | 2006/5/10 | 2006/5/16 |
| 37 | 1.3.4.3.3 | General Office and Pro Shop Building | 7 days | 2006/5/10 | 2006/5/16 |
| 38 | 1.3.4.3.4 | Maintenance Building | 7 days | 2006/5/19 | 2006/5/25 |
| 39 | 1.3.4.4 | Concealing E&M Works Installation | 7 days | 2006/4/7 | 2006/4/13 |
| 40 | 1.3.5 | Architectural Works | 111 days | 2006/6/14 | 2006/10/2 |
| 41 | 1.3.5.1 | Internal Finishing Works and Fitting-out by Main Contractor | 46 days | 2006/6/14 | 2006/7/29 |
| 42 | 1.3.5.1.1 | Function Room/Changing Room/Pump Room Building | 30 days | 2006/6/21 | 2006/7/20 |
| 43 | 1.3.5.1.2 | Restaurant and Kitchen Building | 30 days | 2006/6/14 | 2006/7/13 |
| 44 | 1.3.5.1.3 | General Office and Pro Shop Building | 30 days | 2006/6/14 | 2006/7/13 |
| 45 | 1.3.5.1.4 | Maintenance Building | 30 days | 2006/6/30 | 2006/7/29 |
| 46 | 1.3.5.2 | Internal Decorations to Clubhouse Buildings by NSC | 60 days | 2006/7/30 | 2006/9/27 |
| 47 | 1.3.5.3 | External Finishing Works by Main Contractor | 90 days | 2006/7/5 | 2006/10/2 |
| 48 | 1.3.5.4 | Indoor E&M Works and Fitting-out Installation | 58 days | 2006/6/14 | 2006/8/10 |
| 49 | 1.3.5.4.1 | Function Room/Changing Room/Pump Room Building | 42 days | 2006/6/21 | 2006/8/1 |
| 50 | 1.3.5.4.2 | Restaurant and Kitchen Building | 42 days | 2006/6/14 | 2006/7/25 |
| 51 | 1.3.5.4.3 | General Office and Pro Shop Building | 42 days | 2006/6/14 | 2006/7/25 |
| 52 | 1.3.5.4.4 | Maintenance Building | 42 days | 2006/6/30 | 2006/8/10 |
| 53 | 1.3.6 | External Area | 134 days | 2006/4/14 | 2006/8/25 |
| 54 | 1.3.6.1 | Underground Drainage and Ducting Construction | 35 days | 2006/4/14 | 2006/5/18 |
| 55 | 1.3.6.2 | Hardlandscaping and Paving Works | 35 days | 2006/5/19 | 2006/6/22 |
| 56 | 1.3.6.3 | E&M Works and Fitting-out by Main Contractor | 45 days | 2006/6/23 | 2006/8/6 |
| 57 | 1.3.6.4 | Finishing Works and Fitting-out by Main Contractor | 19 days | 2006/8/7 | 2006/8/25 |
| 58 | 1.3.6.5 | Irrigation & Softlandscaping Works by NSC | 45 days | 2006/6/23 | 2006/8/6 |
| 59 | 1.4 | Phase 2 | 316 days | 2006/1/11 | 2006/11/22 |
| 60 | 1.4.1 | Approval and Consent obtain from Statutory Authority (Formation and Drainage) | 28 days | 2006/1/11 | 2006/2/7 |
| 61 | 1.4.2 | Lake B / Zone H3 | 161 days | 2006/2/14 | 2006/7/24 |
| 62 | 1.4.2.1 | Lake-B Excavation | 7 days | 2006/2/14 | 2006/2/21 |
| 63 | 1.4.2.2 | Lake-B Edge Retaining Walls Construction | 14 days | 2006/2/21 | 2006/3/6 |
| 64 | 1.4.2.3 | Erecting of hoarding works at GC/2 Area (Approx. 8.67% handover to MC at late of March 200 | 10 days | 2006/4/1 | 2006/4/10 |
| 65 | 1.4.2.4 | Lake-B Excavation within GC/2 Area | 14 days | 2006/4/11 | 2006/4/24 |
| 66 | 1.4.2.5 | Lake-B Edge Retaining Walls Construction within GC/2 Area | 28 days | 2006/4/25 | 2006/5/22 |
| 67 | 1.4.2.6 | Waterproof Lining and Finishing Works to Walls and Lake Bottom | 35 days | 2006/5/23 | 2006/6/26 |
| 68 | 1.4.2.7 | Watertightness test to Lakes and Reservoir | 28 days | 2006/6/27 | 2006/7/24 |
| 69 | 1.4.2.8 | Zone H3 Underground Drainage and Ducting Construction | 10 days | 2006/4/27 | 2006/5/6 |
| 70 | 1.4.2.9 | Zone H3 Filling, Leveling and Formation Works to Profile | 17 days | 2006/5/23 | 2006/6/8 |
| 71 | 1.4.2.10 | Zone H3 Irrigation System by NSC | 15 days | 2006/6/9 | 2006/6/23 |
| 72 | 1.4.2.11 | Zone H3 Lighting Fittings | 7 days | 2006/6/24 | 2006/6/30 |
| 73 | 1.4.2.12 | Zone H3 Sand lying and Final Shaping | 7 days | 2006/7/1 | 2006/7/7 |
| 74 | 1.4.2.13 | Zone H3 Softlandscaping Works by NSC | 15 days | 2006/7/8 | 2006/7/22 |
| 75 | 1.4.3 | Zone H4a | 149 days | 2006/6/27 | 2006/11/22 |
| 76 | 1.4.3.1 | Filing, levelling & formation | 12 days | 2006/6/27 | 2006/7/8 |
| 77 | 1.4.3.2 | Irrigation pipes laying (NSC) | 21 days | 2006/7/25 | 2006/8/14 |
| 78 | 1.4.3.3 | Rough shaping | 8 days | 2006/8/15 | 2006/8/22 |
| 79 | 1.4.3.4 | Surface Drainage System Construction | 7 days | 2006/9/5 | 2006/9/11 |
| 80 | 1.4.3.5 | Tee Boxes (No.4,13) Construction | 14 days | 2006/9/5 | 2006/9/18 |
| 81 | 1.4.3.6 | Sand lying and Final Shaping | 10 days | 2006/9/26 | 2006/10/5 |
| 82 | 1.4.3.7 | Amenity Area Finishing Works by Main Contractor | 8 days | 2006/10/24 | 2006/10/31 |
| 83 | 1.4.3.8 | Cable Lying and Lighting Fittings | 9 days | 2006/8/8 | 2006/8/16 |
| 84 | 1.4.3.9 | Softlandscaping Works by NSC | 30 days | 2006/10/24 | 2006/11/22 |
| 85 | 1.4.4 | Zone H5 | 137 days | 2006/7/9 | 2006/11/22 |
| 86 | 1.4.4.1 | Filing, levelling & formation | 22 days | 2006/7/9 | 2006/7/30 |
| 87 | 1.4.4.2 | Irrigation pipes laying (NSC) | 21 days | 2006/7/25 | 2006/8/14 |
| 88 | 1.4.4.3 | Rough shaping | 9 days | 2006/8/23 | 2006/8/31 |
| 89 | 1.4.4.4 | Surface Drainage System Construction | 10 days | 2006/9/12 | 2006/9/21 |
| 90 | 1.4.4.5 | Sand lying and Final Shaping | 14 days | 2006/10/6 | 2006/10/19 |
| 91 | 1.4.4.6 | Cable Lying and Lighting Fittings | 9 days | 2006/8/17 | 2006/8/25 |
| 92 | 1.4.4.7 | Softlandscaping Works by NSC | 30 days | 2006/10/24 | 2006/11/22 |
| 93 | 1.4.5 | Zone H1 | 286 days | 2006/2/10 | 2006/11/22 |
| 94 | 1.4.5.1 | Underground Drainage and Ducting Construction | 24 days | 2006/2/10 | 2006/3/5 |
| 95 | 1.4.5.2 | Filing, levelling & formation | 22 days | 2006/7/9 | 2006/7/30 |
| 96 | 1.4.5.3 | Irrigation pipes laying (NSC) | 21 days | 2006/7/25 | 2006/8/14 |
| 97 | 1.4.5.4 | Rough shaping | 9 days | 2006/8/23 | 2006/8/31 |
| 98 | 1.4.5.5 | Surface Drainage System Construction | 10 days | 2006/9/12 | 2006/9/21 |
| 99 | 1.4.5.6 | Tee Boxes (No.1,2,10,11) Construction | 28 days | 2006/9/19 | 2006/10/16 |
| 100 | 1.4.5.7 | Sand lying and Final Shaping | 14 days | 2006/10/6 | 2006/10/19 |
| 101 | 1.4.5.8 | Amenity Area Finishing Works by Main Contractor | 8 days | 2006/11/1 | 2006/11/8 |
| 102 | 1.4.5.9 | Cable Lying and Lighting Fittings | 9 days | 2006/8/26 | 2006/9/3 |
| 103 | 1.4.5.10 | Softlandscaping Works by NSC | 30 days | 2006/10/24 | 2006/11/22 |
| 104 | 1.4.6 | Zone P | 262 days | 2006/3/6 | 2006/11/22 |
| 105 | 1.4.6.1 | Underground Drainage and Ducting Construction | 14 days | 2006/3/6 | 2006/3/19 |
| 106 | 1.4.6.2 | Filing, levelling & formation | 8 days | 2006/7/31 | 2006/8/7 |
| 107 | 1.4.6.3 | Irrigation pipes laying (NSC) | 21 days | 2006/7/25 | 2006/8/14 |



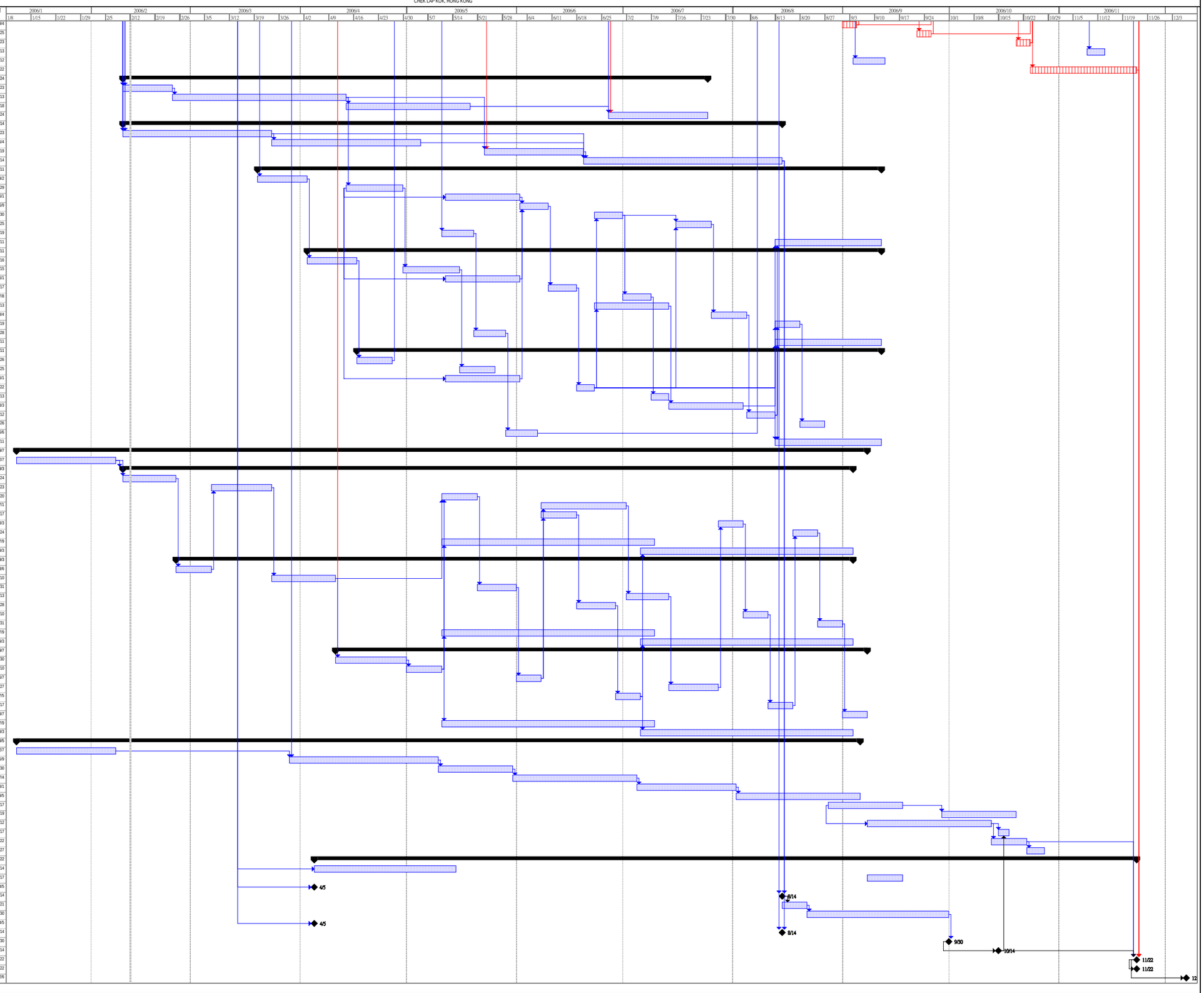

Title: Master Programme Revision 1
Revision Date: 10 Feb 2006

任務 | 要部任務 | 進度 | 里程碑 | 摘要 | 上期型任務 | 上期型要部任務 | 上期型里程碑 | 上期型進度 | 分割 | 外部任務 | 專案摘要 | 摘要群組

PROJECT: SKYCITY GOLF COURSE

LOT NO.825, R.P. OF CHEK LAP KOK LOT NO. 1 AND THE EXTENSION THERETO, CHEK LAP KOK, HONG KONG

| 識別碼 | WBS | 任務名稱 | 工期 | 開始時間 | 完成時間 |
|---|---|---|---|---|---|
| 108 | 1.4.6.4 | Rough shaping | 4 days | 2006/9/1 | 2006/9/4 |
| 109 | 1.4.6.5 | Surface Drainage System Construction | 4 days | 2006/9/22 | 2006/9/25 |
| 110 | 1.4.6.6 | Sand lying and Final Shaping | 4 days | 2006/10/20 | 2006/10/23 |
| 111 | 1.4.6.7 | Amenity Area Finishing Works by Main Contractor | 5 days | 2006/11/9 | 2006/11/13 |
| 112 | 1.4.6.8 | Cable Lying and Lighting Fittings | 9 days | 2006/9/4 | 2006/9/12 |
| 113 | 1.4.6.9 | Softlandscaping Works by NSC | 30 days | 2006/10/24 | 2006/11/22 |
| 114 | 1.4.7 | Lake A | 165 days | 2006/2/10 | 2006/7/24 |
| 115 | 1.4.7.1 | Lake-A Excavation | 14 days | 2006/2/10 | 2006/2/23 |
| 116 | 1.4.7.2 | Lake-A Edge Retaining Walls construction | 49 days | 2006/2/24 | 2006/4/13 |
| 117 | 1.4.7.3 | Waterproof Lining and Finishing Works to Walls and Lake Bottom | 35 days | 2006/4/14 | 2006/5/18 |
| 118 | 1.4.7.4 | Watertightness test to Lakes and Reservoir | 28 days | 2006/6/27 | 2006/7/24 |
| 119 | 1.4.8 | Pump House Construction | 186 days | 2006/2/10 | 2006/8/14 |
| 120 | 1.4.8.1 | Structural Works (Substructure and Superstructure) | 42 days | 2006/2/10 | 2006/3/23 |
| 121 | 1.4.8.2 | Finishing Works (Internal and External) | 42 days | 2006/3/24 | 2006/5/4 |
| 122 | 1.4.8.3 | Piping Works connect to Lakes (A & B) | 28 days | 2006/5/23 | 2006/6/19 |
| 123 | 1.4.8.4 | E&M Works (including Plants and Equipment Installation) | 56 days | 2006/6/20 | 2006/8/14 |
| 124 | 1.4.9 | Zone H7 | 176 days | 2006/3/20 | 2006/9/11 |
| 125 | 1.4.9.1 | Underground Drainage and Ducting Construction | 14 days | 2006/3/20 | 2006/4/2 |
| 126 | 1.4.9.2 | Filling, levelling & formation | 16 days | 2006/4/14 | 2006/4/29 |
| 127 | 1.4.9.3 | Irrigation pipes laying (NSC) | 21 days | 2006/5/12 | 2006/6/1 |
| 128 | 1.4.9.4 | Rough Shaping | 8 days | 2006/6/2 | 2006/6/9 |
| 129 | 1.4.9.5 | Surface Drainage System Construction | 8 days | 2006/6/23 | 2006/6/30 |
| 130 | 1.4.9.6 | Sand lying and Final Shaping | 10 days | 2006/7/16 | 2006/7/25 |
| 131 | 1.4.9.7 | Cable Lying and Lighting Fittings | 9 days | 2006/5/11 | 2006/5/19 |
| 132 | 1.4.9.8 | Softlandscaping Works by NSC | 30 days | 2006/8/13 | 2006/9/11 |
| 133 | 1.4.10 | Zone H6 | 162 days | 2006/4/3 | 2006/9/11 |
| 134 | 1.4.10.1 | Underground Drainage and Ducting Construction | 14 days | 2006/4/3 | 2006/4/16 |
| 135 | 1.4.10.2 | Filling, levelling & formation | 16 days | 2006/4/30 | 2006/5/15 |
| 136 | 1.4.10.3 | Irrigation pipes laying (NSC) | 21 days | 2006/5/12 | 2006/6/1 |
| 137 | 1.4.10.4 | Rough Shaping | 8 days | 2006/6/10 | 2006/6/17 |
| 138 | 1.4.10.5 | Surface Drainage System Construction | 8 days | 2006/7/1 | 2006/7/8 |
| 139 | 1.4.10.6 | Tee Boxes (No.7, 16) Construction | 21 days | 2006/6/23 | 2006/7/13 |
| 140 | 1.4.10.7 | Sand lying and Final Shaping | 10 days | 2006/7/26 | 2006/8/4 |
| 141 | 1.4.10.8 | Amenity Area Finishing Works by Main Contractor | 7 days | 2006/8/13 | 2006/8/19 |
| 142 | 1.4.10.9 | Cable Lying and Lighting Fittings | 9 days | 2006/5/20 | 2006/5/28 |
| 143 | 1.4.10.10 | Softlandscaping Works by NSC | 30 days | 2006/8/13 | 2006/9/11 |
| 144 | 1.4.11 | Zone H9 | 148 days | 2006/4/17 | 2006/9/11 |
| 145 | 1.4.11.1 | Underground Drainage and Ducting Construction | 10 days | 2006/4/17 | 2006/4/26 |
| 146 | 1.4.11.2 | Filling, levelling & formation | 10 days | 2006/5/16 | 2006/5/25 |
| 147 | 1.4.11.3 | Irrigation pipes laying (NSC) | 21 days | 2006/5/12 | 2006/6/1 |
| 148 | 1.4.11.4 | Rough Shaping | 5 days | 2006/6/18 | 2006/6/22 |
| 149 | 1.4.11.5 | Surface Drainage System Construction | 5 days | 2006/7/9 | 2006/7/13 |
| 150 | 1.4.11.6 | Tee Boxes (No.6,15) Construction | 21 days | 2006/7/14 | 2006/8/3 |
| 151 | 1.4.11.7 | Sand lying and Final Shaping | 8 days | 2006/8/5 | 2006/8/12 |
| 152 | 1.4.11.8 | Amenity Area Finishing Works by Main Contractor | 7 days | 2006/8/20 | 2006/8/26 |
| 153 | 1.4.11.9 | Cable Lying and Lighting Fittings | 9 days | 2006/5/29 | 2006/6/6 |
| 154 | 1.4.11.10 | Softlandscaping Works by NSC | 30 days | 2006/8/13 | 2006/9/11 |
| 155 | 1.5 | Phase 3 | 240 days | 2006/1/11 | 2006/9/7 |
| 156 | 1.5.1 | Approval and Consent obtain from Statutory Authority (Formation and Drainage) | 28 days | 2006/1/11 | 2006/2/7 |
| 157 | 1.5.2 | Zone H8 | 206 days | 2006/2/10 | 2006/9/3 |
| 158 | 1.5.2.1 | Underground Drainage and Ducting Construction | 15 days | 2006/2/10 | 2006/2/24 |
| 159 | 1.5.2.2 | Filling, Leveling and Formation Works to Profile | 17 days | 2006/3/7 | 2006/3/23 |
| 160 | 1.5.2.3 | Surface Drainage System Construction | 10 days | 2006/5/11 | 2006/5/20 |
| 161 | 1.5.2.4 | Tee Boxes No 8, 9, 17, 18 Construction | 24 days | 2006/6/8 | 2006/7/1 |
| 162 | 1.5.2.5 | Sand lying and Final Shaping | 10 days | 2006/6/8 | 2006/6/17 |
| 163 | 1.5.2.6 | Finishing Works by Main Contractor | 7 days | 2006/7/28 | 2006/8/3 |
| 164 | 1.5.2.7 | Lighting Fittings | 7 days | 2006/8/18 | 2006/8/24 |
| 165 | 1.5.2.8 | Irrigation System by NSC | 60 days | 2006/5/11 | 2006/7/9 |
| 166 | 1.5.2.9 | Softlandscaping Works by NSC | 60 days | 2006/7/6 | 2006/9/3 |
| 167 | 1.5.3 | Zone H4 | 191 days | 2006/2/25 | 2006/9/3 |
| 168 | 1.5.3.1 | Underground Drainage and Ducting Construction | 10 days | 2006/2/25 | 2006/3/6 |
| 169 | 1.5.3.2 | Filling, Leveling and Formation Works to Profile | 18 days | 2006/3/24 | 2006/4/10 |
| 170 | 1.5.3.3 | Surface Drainage System Construction | 11 days | 2006/5/21 | 2006/5/31 |
| 171 | 1.5.3.4 | Tee Boxes No 5, 14 Construction | 12 days | 2006/7/2 | 2006/7/13 |
| 172 | 1.5.3.5 | Sand lying and Final Shaping | 11 days | 2006/6/18 | 2006/6/28 |
| 173 | 1.5.3.6 | Finishing Works by Main Contractor | 7 days | 2006/8/4 | 2006/8/10 |
| 174 | 1.5.3.7 | Lighting Fittings | 7 days | 2006/8/25 | 2006/8/31 |
| 175 | 1.5.3.8 | Irrigation System by NSC | 60 days | 2006/5/11 | 2006/7/9 |
| 176 | 1.5.3.9 | Softlandscaping Works by NSC | 60 days | 2006/7/6 | 2006/9/3 |
| 177 | 1.5.4 | Zone H2 | 150 days | 2006/4/11 | 2006/9/7 |
| 178 | 1.5.4.1 | Underground Drainage and Ducting Construction | 20 days | 2006/4/11 | 2006/4/30 |
| 179 | 1.5.4.2 | Filling, Leveling and Formation Works to Profile | 10 days | 2006/5/1 | 2006/5/10 |
| 180 | 1.5.4.3 | Surface Drainage System Construction | 7 days | 2006/6/1 | 2006/6/7 |
| 181 | 1.5.4.4 | Tee Boxes No 3, 12 Construction | 14 days | 2006/7/14 | 2006/7/27 |
| 182 | 1.5.4.5 | Sand lying and Final Shaping | 7 days | 2006/6/29 | 2006/7/5 |
| 183 | 1.5.4.6 | Finishing Works by Main Contractor | 7 days | 2006/8/11 | 2006/8/17 |
| 184 | 1.5.4.7 | Lighting Fittings | 7 days | 2006/9/1 | 2006/9/7 |
| 185 | 1.5.4.8 | Irrigation System by NSC | 60 days | 2006/5/11 | 2006/7/9 |
| 186 | 1.5.4.9 | Softlandscaping Works by NSC | 60 days | 2006/7/6 | 2006/9/3 |
| 187 | 1.6 | Drainage and Manhole Construction Works outside Site Boundary | 238 days | 2006/1/11 | 2006/9/5 |
| 188 | 1.6.1 | Approval and Consent obtain from Statutory Authority (Formation and Drainage) | 28 days | 2006/1/11 | 2006/2/7 |
| 189 | 1.6.2 | Application of Temporary Traffic Arrangement from Transport Department | 42 days | 2006/3/29 | 2006/5/9 |
| 190 | 1.6.3 | Application of Permit from RMO Police & AA | 21 days | 2006/5/10 | 2006/5/30 |
| 191 | 1.6.4 | Path section OP1 and MH OMH1 Construction | 35 days | 2006/5/31 | 2006/7/4 |
| 192 | 1.6.5 | Path section OP2 and MH OMH2 Construction | 28 days | 2006/7/5 | 2006/8/1 |
| 193 | 1.6.6 | Path section OP3 and MH OMH3 Construction | 35 days | 2006/8/2 | 2006/9/5 |
| 194 | 1.7 | Testing and Commissioning | 21 days | 2006/8/28 | 2006/9/17 |
| 195 | 1.8 | As-built Drawings Preparation and Submission | 21 days | 2006/9/29 | 2006/10/19 |
| 196 | 1.9 | Removal & Reinstatement of Hoarding | 35 days | 2006/9/8 | 2006/10/12 |
| 197 | 1.10 | Final Inspection by Client | 3 days | 2006/10/15 | 2006/10/17 |
| 198 | 1.11 | Demobilization | 10 days | 2006/10/13 | 2006/10/22 |
| 199 | 1.12 | Site Clearance | 5 days | 2006/10/23 | 2006/10/27 |
| 200 | 1.13 | Form Submission and Authorities Inspection | 232 days | 2006/4/5 | 2006/11/22 |
| 201 | 1.13.1 | Electricity Supply Application (CLP Checking) | 40 days | 2006/4/5 | 2006/5/14 |
| 202 | 1.13.2 | Power Energizing | 10 days | 2006/9/8 | 2006/9/17 |
| 203 | 1.13.3 | Form WWO46 Part I & II Submission | 0 days | 2006/4/5 | 2006/4/5 |
| 204 | 1.13.4 | Form WWO46 Part III & IV Submission | 0 days | 2006/8/14 | 2006/8/14 |
| 205 | 1.13.5 | WSD Inspection | 7 days | 2006/8/15 | 2006/8/21 |
| 206 | 1.13.6 | Water Certificate | 40 days | 2006/8/22 | 2006/9/30 |
| 207 | 1.13.7 | Form FSI/314 1st Submission | 0 days | 2006/4/5 | 2006/4/5 |
| 208 | 1.13.8 | Form FSI/314 2nd Submission | 0 days | 2006/8/14 | 2006/8/14 |
| 209 | 1.13.9 | Form FSI/501 submission | 0 days | 2006/9/30 | 2006/9/30 |
| 210 | 1.13.10 | FSD Inspection | 0 days | 2006/10/14 | 2006/10/14 |
| 211 | 1.13.11 | BD Inspection | 0 days | 2006/11/22 | 2006/11/22 |
| 212 | 1.13.12 | Drainage Inspection | 0 days | 2006/11/22 | 2006/11/22 |
| 213 | 1.14 | Project Completion and Handover to Client | 0 days | 2006/12/6 | 2006/12/6 |




Title: Master Programme Revision 1
Revision Date: 10 Feb 2006

任務 | 要徑任務 | 進度 | 里程碑 | 摘要 | 上期型任務 | 上期型要徑任務 | 上期型里程碑 | 上期型進度 | 分割 | 外部任務 | 專案摘要 | 摘要群組

# Appendix 5

# Marine Water Monitoring Schedule for Next Month

**Sky City Golf Course EM&A**
**Tentative Water Quality Monitoring Schedule for August 2006**

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---|---|---|---|---|---|---|
| 30-Jul | 31-Jul | 01-Aug | 02-Aug | 03-Aug | 04-Aug | 05-Aug |
| | | | | | Mid-Ebb 08:44<br>*04:26* *13:03*<br>Mid-Flood 21:11<br>*13:03* *05:19* | |
| 06-Aug | 07-Aug | 08-Aug | 09-Aug | 10-Aug | 11-Aug | 12-Aug |
| | Mid-Ebb 11:23<br>*07:10* *15:36*<br>Mid-Flood 19:04<br>*15:36* *22:32* | | | | Mid-Flood 07:37<br>*04:28* *10:47*<br>Mid-Ebb 14:27<br>*10:47* *18:07* | |
| 13-Aug | 14-Aug | 15-Aug | 16-Aug | 17-Aug | 18-Aug | 19-Aug |
| | Mid-Flood 10:17<br>*07:12* *13:22*<br>Mid-Ebb 16:25<br>*13:22* *19:28* | | | | Mid-Ebb 08:55<br>*04:38* *13:12*<br>Mid-Flood 21:30<br>*13:12* *05:48* | |
| 20-Aug | 21-Aug | 22-Aug | 23-Aug | 24-Aug | 25-Aug | 26-Aug |
| | Mid-Ebb 11:44<br>*07:48* *15:41*<br>Mid-Flood 19:04<br>*15:41* *22:28* | | | | Mid-Flood 07:22<br>*04:12* *10:33*<br>Mid-Ebb 14:05<br>*10:33* *17:38* | |
| 27-Aug | 28-Aug | 29-Aug | 30-Aug | 31-Aug | 01-Sep | 02-Sep |
| | Mid-Flood 09:11<br>*06:08* *12:15*<br>Mid-Ebb 15:23<br>*12:15* *18:32* | | | | | |