

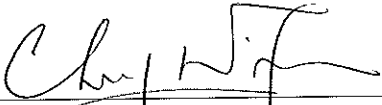
-CCECC & CRWJ Joint Venture

Contract No. HY/2003/19

**Improvement to Tung Chung Road
between Lung Tseng Tau and Cheung Sha**

**Monthly EM&A Report
(Version 1.0)**

August 2008

Certified By 
(Environmental Team Leader)

REMARKS:

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

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ABBREVIATION AND ACRONYM

| | |
|-----------|--|
| AL Levels | Action and Limit Levels |
| E / ER | Engineer/Engineer's Representative |
| EIA | Environmental Impact Assessment |
| EM&A | Environmental Monitoring and Audit |
| EMIS | Environmental Mitigation Implementation Schedule |
| EP | Environmental Permit |
| EPD | Environmental Protection Department |
| ET | Environmental Team |
| HVS | High Volume Sampler |
| HyD | Highways Department |
| IEC | Independent Environmental Checker |
| NOE | Notification of Exceedance |
| QA/QC | Quality Assurance / Quality Control |
| RE | Resident Engineer |
| RH | Relative Humidity |
| SLM | Sound Level Meter |
| TSP | Total Suspended Particulates |
| WMP | Waste Management Plan |

EXECUTIVE SUMMARY

Introduction

1. This is the 46th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the project “Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha” (the Project). This report documents the findings of EM&A Works conducted in August 2008.
2. The construction activities undertaken in the reporting month included:
 - Construction of rock fall fencing;
 - Construction of drainage and water pipe;
 - Drainage and slope works;
 - Construction of debris trap;
 - Installation of street furniture; and
 - Raising of watermain valve pit.

Environmental Monitoring Works

3. Environmental monitoring for the Project was performed regularly as stipulated in the Updated EM&A Manual (Revision C) and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
4. Summary of exceedance of noise, air and water quality monitoring for the reporting month is tabulated in Table I.

Table I Summary Table for Exceedance Recorded in the Reporting Month

| Parameter | Number of Exceedances due to the Project | | Action Taken | Results of Action Taken |
|---------------|--|-------------|--------------|-------------------------|
| | Action Level | Limit Level | | |
| Air Quality | 0 | 0 | N.A. | N.A. |
| Noise | 0 | 0 | N.A. | N.A. |
| Water Quality | 0 | 0 | N.A. | N.A. |

Air Quality

5. 24-hr TSP monitoring at 3 monitoring stations, AM1, AM2 and AM4, were conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.

Construction Noise

6. Noise monitoring at 7 designated monitoring stations, namely NM1, NM2, NM3, NM4, NM5, NM6 and NM8, were conducted as scheduled in the reporting month except the monitoring on 6 August 2008 was cancelled due to the hoisting of Tropical Cyclone

Warning Signals No.8 and re-scheduled to 7 August 2008. No Action/ Limit Level exceedance was recorded in the reporting month.

Water Quality

7. Water quality monitoring was conducted as scheduled except the monitoring on 6 and 22 August 2008 was cancelled due to the hoisting of Tropical Cyclone Warning Signals No.8 and No.9 respectively and re-scheduled to 8 and 23 August 2008, at designated monitoring stations (Streams 15, 18, 21, 23, 26, 27, 40, Cheung Sha Stream, Tung Chung Stream and Tung Chung Bay) which are under the influence of the works in the reporting month. Streams 19, 25, 32 and 35 were observed to be dry throughout the reporting month. Therefore, no water monitoring was conducted at these streams. As the water depth of Tung Chung Bay was less than 3m, only the mid-depth level was monitored.
8. Exceedances of turbidity (NTU) and suspended solids (SS) were recorded in the month. No direct evidence demonstrated that the exceedances were caused by the Project.

Environmental Licensing and Permitting

9. License/Permits granted to the Project include Environmental Permit (License No.: EP-170/2003/C), Registration of Chemical Waste Producer (License: WPN5214-950-C1213-01), Water Discharge License (License No.: EP890/W7/XP089, EP890/W7/XP090 and EP890/W2/XG013) and Construction Noise Permit (License No.: GW-RS0419-08, GW-RW0122-08 and GW-RS0209-08).

Key Information in the Reporting Month

10. Summary of key information in the reporting month is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Month

| Event | Event Details | | Action Taken | Status | Remark |
|---|---------------|--------|--------------|--------|--------|
| | Number | Nature | | | |
| Complaint received | 0 | --- | N.A. | N.A. | --- |
| Changes to the assumptions and key construction / operation activities recorded | 0 | --- | N.A. | N.A. | --- |
| Notifications of any summons received | 0 | --- | N.A. | N.A. | --- |
| Notifications of any successful prosecution received | 0 | --- | N.A. | N.A. | --- |

Complaints and Prosecutions

11. No environmental complaint was received in the reporting month.
12. No warning and summon or notification of successful prosecution was received in the reporting month.

Future Key Issues

13. Key issues to be considered in the coming month include:
 - Runoff from exposed slope;
 - Wastewater and runoff discharge from site;
 - Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Proper storage of construction materials near streams;
 - Noise from operation of the equipment, especially for rock-breaking activities and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed retain wall, excavation works and rock breaking activities;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Watering for rock breaking activity, soil nailing and on haul road; and
 - Accumulation of general and construction waste near stream and on site.

1. INTRODUCTION

Background

- 1.1 The Project “Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha” involves the widening and realignment of Tung Chung Road between Lung Tseng Tau in North Lantau and Cheung Sha in South Lantau. The layout plan of the Project is shown in Figure 1.
- 1.2 The scope of the Project includes:
- a) widening and realignment of a 3.6 km section of Tung Chung Road (TCR) between Lung Tseng Tau and Pak Kung Au from a single-lane road for two-way traffic to a single two-lane road for two-way traffic with a footpath having a minimum width of 1.6 m, and construction of a 2.6 km long single two-lane road between Pak Kung Au and Cheung Sha, including elevated highway structures of a total length of 750 m, with a footpath of a minimum width of 1.6 m;
 - b) provision of 21 passing bays/bus-bays along the road and a roundabout at Cheung Sha; and
 - c) associated works including road rehabilitation, drainage, utility, environmental mitigation measures, landscaping, slope stabilization, traffic aids, road safety enhancement measures, lighting, traffic control and surveillance system, and electrical and mechanical (E&M) works.
- 1.3 The Environmental Impact Assessment (EIA) Report for the Project was approved on 4 July 2002 under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Permit (EP- 170/2003) for the works was also granted on 27 June 2003. Two varied Environmental Permits (EP) (EP-170/2003/B and EP-170/2003/C) were issued in June 2006 and July 2007 respectively. Environmental Monitoring and Audit (EM&A) Manual for the Project was also included as part of the EIA reports in the register. An updated EM&A Manual (Revision C) has been issued on 28 April 2006.
- 1.4 Highways Department awarded the construction of the Project to CCECC & CRWJ Joint Venture (being a joint venture of China Civil Engineering Construction Corporation & China Railway Wujia Group Corporation) (hereinafter called “the Contractor”) in June 2004. The construction works commenced on 4 November 2004 and are scheduled to be completed by September 2007.
- 1.5 Cinotech Consultants Limited (Cinotech) was commissioned by the Contractor to undertake the Environmental Team (ET) Services for the Project since 1 September 2006. All environmental and audit works were conducted by Cinotech and the laboratory testing works were conducted by a HOKLAS laboratory, Wellab Limited. This is the 46th monthly EM&A report summarizing the EM&A works for the Project in August 2008.

Project Organizations

- 1.6 Different parties with different levels of involvement in the project organization include:
- Project Proponent – Major Works Project Management Office (MWPMO) of Highways Department (HyD)
 - Engineer (E) / Engineer's Representative (ER) – Mott Connell Limited
 - Contractor – CCECC & CRWJ Joint Venture
 - Environmental Team (ET) – Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) – ENSR Asia (HK) Limited
- 1.7 The responsibilities of respective parties are detailed in Section 1.5 of the Updated EM&A Manual (Revision C, issued on 28 April 2006) of the Project. The project organization chart is presented in Figure 2.

Construction Programme

- 1.8 The construction activities undertaken in the reporting month were:

Northern Section

- Drainage works at Zone A;
- Debris trap construction and slope works at Zone B;
- Rock fall fencing construction and slope works at Zone C;
- Installation of street furniture at Zone D;
- Slope and drainage works at Zone E; and
- Rock fall fencing, water pipe construction and drainage works at Zone F.

Southern Section

- Raising of watermain valve pit at Zone 1 and Zone 2;
- Installation of street furniture at Zone 3;
- Drainage construction and slope works at Zone 4 and Zone 5; and
- Drainage works at Zone 6.

Summary of EM&A Requirements

- 1.9 The EM&A programme requires construction phase monitoring for air quality and construction noise, water quality and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
- All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;

- Environmental mitigation measures, as recommended in the project EIA report;
and
 - Environmental requirements in contract documents.
- 1.10 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 5 of this report.
- 1.11 This report presents the environmental monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality, noise levels, water quality and audit works for the Project in the reporting month.

2. AIR QUALITY

Monitoring Requirements

- 2.1 Monitoring of 1-hour and 24-hour TSP was conducted to monitor the air quality. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

- 2.2 In accordance with the updated EM&A Manual, 24-hour TSP monitoring shall only be conducted at the monitoring location when there are Project related construction activities being undertaken within a radius of 500 m from the monitoring location.
- 2.3 Five designated monitoring stations, AM1 to AM5 were selected for impact dust monitoring for the Project. Table 2.1 describes the air quality monitoring locations and Figure 3 shows their locations.

Table 2.1 Locations for Air Quality Monitoring

| Monitoring Station | Description | Location |
|--------------------|-------------------------------------|-----------------|
| AM1 | YMCA of Hong Kong Christian College | Rooftop |
| AM2 | D 68 Leyburn Villas | House |
| AM3 ⁽¹⁾ | Butterfly Crest | House |
| AM4 | No. 31 South Lantau Road | House |
| AM5 ⁽²⁾ | YWCA | To be confirmed |

Remarks:

⁽¹⁾ Monitoring at AM3 will be conducted when the Project related construction activities are being undertaken within a radius of 500 m from the monitoring location.

⁽²⁾ Monitoring at AM5, YWCA, will be resumed when YWCA re-open.

Monitoring Equipment

- 2.4 Table 2.2 summarizes the equipment used for the air quality monitoring. Copies of calibration certificates are attached in Appendix B.

Table 2.2 Air Quality Monitoring Equipment

| Equipment | Model and Make | Quantity |
|-------------|---|----------|
| Calibrator | GMW25; S/N: 1536 | 1 |
| HVS Sampler | Graseby GMW Model GS2310 High Volume TSP Sampler and associated equipment and shelter | 3 |

Monitoring Parameters, Frequency and Duration

- 2.5 Table 2.3 summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period is shown in Appendix C.

Table 2.3 Impact Dust Monitoring Parameters, Frequency and Duration

| Parameters | Frequency |
|-------------------------|----------------------|
| 1-hr TSP ^(a) | Three times / 6 days |
| 24-hr TSP | Once / 6 days |

Note:

(a) 1-hour TSP monitoring will be carried out in case that an exceedance of 24-hour TSP level is identified to be due to the Project.

Monitoring Methodology and QA/QC Procedure

Instrumentation

- 2.6 Graseby GMW Model GS2310 TSP High Volume Sampler (HVS) was employed for 1-hour & 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 3.2 of the Updated EM&A Manual.

Operating/Analytical Procedures

- 2.7 Operating/analytical procedures for the operation of HVS were as follows:
- A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.8 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50. For TSP sampling, fiberglass filters (G810) were used.

- 2.9 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.10 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.11 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- 2.12 The shelter lid was closed and secured with the aluminum strip. The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number). After sampling, the filter was removed and sent to the laboratory for weighing. The elapsed time was also recorded.
- 2.13 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than $\pm 3^\circ\text{C}$; the relative humidity (RH) should be $< 50\%$ and not vary by more than $\pm 5\%$. A convenient working RH is 40%.

Maintenance/Calibration

- 2.14 The following maintenance/calibration was required for the HVS:
- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using GMW-25 Calibration Kit throughout all stages of the air quality monitoring.

Wind Data

- 2.15 Wind data was required to be taken from the Hong Kong Observatory Weather Stations including HK International Airport and Cheung Chau.

Results and Observations

- 2.16 24-hr TSP monitoring at 3 monitoring stations, AM1, AM2 and AM4, were conducted as scheduled in the reporting month.
- 2.17 The monitoring data, graphical presentations and wind data for the reporting month are summarized in Appendix D. No Action/Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.

3. NOISE

Monitoring Requirements

- 3.1 Monitoring and audit of construction noise levels is required to be conducted, in accordance with the Updated EM&A Manual, to ensure that any unacceptable noise impacts could be readily detected and timely and appropriate action be undertaken to rectify the situation.
- 3.2 The construction noise levels shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30min) shall be used as the monitoring parameter for the time period between 0700-1900 hours on normal weekdays. For all other time periods, Leq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.

Monitoring Locations

- 3.3 In accordance with the Updated EM&A Manual, noise monitoring shall only be conducted at the monitoring location when there are Project related construction activities being undertaken within a radius of 300m from the monitoring location.
- 3.4 Eight designated noise monitoring stations, NM1 to NM8 were selected for noise impact monitoring. Appendix A shows the established Action and Limit Levels for the environmental monitoring works. Table 3.1 describes the noise monitoring locations and Figure 3 shows their locations.

Table 3.1 Noise Monitoring Stations

| Stations | Description | Location |
|--------------------|---|--------------|
| NM1 | No. 28 Lung Tseng Tau | Ground Floor |
| NM2 | YMCA of Hong Kong Christian College | Rooftop |
| NM3 | No. 37 Shek Lau Po | Ground Floor |
| NM4 | No. 1 Shek Mun Kap | Ground Floor |
| NM5 | Tung Chung Au Country Parks Management Centre | Ground Floor |
| NM6 | D75 Leyburn Villa | Ground Floor |
| NM7 ⁽¹⁾ | House in Butterfly Crest House 22 | Rooftop |
| NM8 | No. 31 South Lantau Road | Ground Floor |

Remarks:

- ⁽¹⁾ Monitoring at NM7 will be conducted when the Project related construction activities are being undertaken within a radius of 300 m from the monitoring location.

Monitoring Equipment

- 3.5 Table 3.2 summarizes the noise monitoring equipment model being used. Copies of calibration certificates are attached in Appendix B.

Table 3.2 Noise Monitoring Equipment

| Equipment | Model and Make | Quantity |
|-------------------------------|--|----------|
| Integrating Sound Level Meter | B&K Model 2238 | 5 |
| Calibrator | B&K 4231 | 3 |
| Wind Speed Anemometer | RS232 Integral Vane Digital Anemometer | 1 |

Monitoring Parameters, Frequency and Duration

- 3.6 Table 3.3 summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is attached in Appendix C.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

| Station | Parameter | Period ¹ | Frequency | Measurement |
|---------|--|---|---------------------------------|-----------------------|
| NM1 | L ₁₀ (30 min.)dB(A) L ₉₀ (30 min.)dB(A) L _{eq} (30 min.)dB(A) | (a) 0700-1900 hrs. on weekdays (b) 1900-2300 hrs. on weekdays (c) 0700-2300 hrs. on holidays (d) 2300-0700 hrs on any days | Once every 6 working days | Façade ⁽¹⁾ |
| NM2 | | | | Façade ⁽¹⁾ |
| NM3 | | | | Façade ⁽¹⁾ |
| NM4 | | | | Façade ⁽¹⁾ |
| NM5 | | | | Façade ⁽¹⁾ |
| NM6 | | | | Façade ⁽¹⁾ |
| NM7 | | | | Façade ⁽¹⁾ |
| NM8 | | | | Façade ⁽¹⁾ |

Remarks:

⁽¹⁾Noise measurements were taken at 1m from the exterior of the building facade.

(b), (c) and (d) will only be conducted if construction works are undertaken during these periods.

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was generally set on a tripod at a height of 1.2 m above the ground, depending to the actual monitoring condition.
- For free field measurement (if any), the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
- 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 : 30 minutes / 5 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 3.7 The microphone head of the sound level meter and calibrator was cleaned with soft cloth regularly. The meters were sent to the supplier to check and calibrate on a yearly interval.

Results and Observations

- 3.8 Noise monitoring was conducted as scheduled except the monitoring on 6 August 2008 was cancelled due to the hoisting of Tropical Cyclone Warning Signals No.8 and re-scheduled to 7 August 2008 at the seven designated stations NM1, NM2, NM3, NM4, NM5, NM6 and NM8, in this reporting month. Noise monitoring results and graphical presentations are shown in Appendix E.
- 3.9 No Action/Limit Level exceedance was recorded in the reporting month.

4. WATER QUALITY

Monitoring Requirements

- 4.1 Water quality monitoring was conducted in accordance with the Updated EM&A Manual. Appendix A shows the established Action Limit Levels for the environmental monitoring works.

Monitoring Equipment

- 4.2 Table 4.1 summarizes the equipment used in the impact water quality monitoring program. All the monitoring equipment complied with the specifications stipulated in the EM&A Manual. Copies of the calibration certificates of the equipment are attached in Appendix B.

Table 4.1 Water Quality Monitoring Equipment

| Equipment | Model and Make | Qty. |
|--------------------------------------|----------------|------|
| Multi-parameter Water Quality System | YSI 6820 | 2 |

Monitoring Parameters, Frequency and Duration

- 4.3 Table 4.2 summarizes the monitoring parameters, monitoring period and frequencies of water quality monitoring. The water quality monitoring schedule is attached in Appendix C.
- 4.4 In-situ measurements were taken at designated monitoring stations which are under the influence of the works at least three times per week during the course of the construction period. In addition, water samples for suspended solid analysis have been collected at the designated stations and delivered to Wellab for further laboratory analysis.

Table 4.2 Frequency and Parameters of Water Quality Monitoring

| Parameters | Frequency | No. of Depth |
|--|------------------|--------------|
| DO Saturation (%), DO (mg/L), Turbidity (NTU), SS (mg/L), Temperature (°C), & pH | 3 times per week | Sub-surface |

Monitoring Locations

- 4.5 The water quality monitoring locations are shown in Figure 3 and their details are provided in Table 4.3.

Table 4.3 Water Quality Monitoring Locations

| Monitoring Station (Stream No.) | Type | Easting | Northing |
|------------------------------------|-------------|---------|----------|
| Tung Chung Stream | Reference | 811853 | 813289 |
| | Impact | 811601 | 813716 |
| Cheung Sha Stream | Reference | 812525 | 811980 |
| | Impact | 812447 | 811165 |
| Stream 15 | Reference | 811853 | 813289 |
| | Impact | 811781 | 813298 |
| Stream 18 | Reference | 811889 | 813107 |
| | Impact | 811836 | 813138 |
| Stream 19 | Reference | 811920 | 812927 |
| | Impact | 811858 | 812987 |
| Stream 21 | Reference | 811994 | 812695 |
| | Impact | 811873 | 812723 |
| Stream 23 | Reference 1 | 811980 | 812589 |
| | Reference 2 | 812079 | 812386 |
| | Impact | 811894 | 812658 |
| Stream 25 | Reference | 812353 | 812052 |
| | Impact | 812324 | 812017 |
| Stream 26 | Reference | 812525 | 811980 |
| | Impact | 812456 | 811895 |
| Stream 27 | Reference | 812658 | 811770 |
| | Impact | 812604 | 811747 |
| Stream 32 | Reference | 812980 | 811410 |
| | Impact | 812988 | 811327 |
| Stream 35 | Reference | 813231 | 811275 |
| | Impact | 813218 | 811218 |
| Stream 40 | Reference | 813686 | 811311 |
| | Impact | 813690 | 811211 |
| Tung Chung Bay | Reference | 810679 | 816038 |
| | Impact | 810787 | 815706 |

Monitoring Methodology, Calibration Details and QA/QC Procedures

Instrumentation

- 4.6 A multi-parameter meter (Model YSI 6820 CE-C-M-Y) was used to measure DO, turbidity, salinity, pH and temperature.

Operating/Analytical Procedures

- 4.7 At each monitoring location, two consecutive measurements were taken for water samples being collected on site. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
- 4.8 For SS, measurement and grab samples of surface water were collected. Water samples of about 1,000 ml were collected and stored in polyethylene bottles. Following collection, water samples were stored in high density polythene bottles with preservative appropriately added, packed in ice and cooled to 4°C (without being frozen), delivered to the HOKLAS accredited laboratory, Wellab Limited and analyzed.

Maintenance and Calibration

- 4.9 Before each round of monitoring, a zero check in distilled water was performed with the turbidity probe of YSI 6820. The probe was then calibrated with a solution of known NTU.

Results and Observations

- 4.10 Water quality monitoring was conducted as scheduled except the monitoring on 6 and 22 August 2008 was cancelled due to the hoisting of Tropical Cyclone Warning Signals No.8 and No.9 respectively and re-scheduled to 8 and 23 August 2008, at designated monitoring stations (Streams 15, 18, 21, 23, 26, 27, 40, Cheung Sha Stream, Tung Chung Stream and Tung Chung Bay), which are under the influence of the works, in the reporting month. As Streams 19, 25, 32 and 35 were observed dry, no water monitoring at these locations was conducted in the reporting month.
- 4.11 During monitoring, the weather conditions were mainly sunny. The monitoring data and graphical presentations of the monitoring results are shown in Appendix F and the Quality Control reports for the laboratory analysis are provided in Appendix G.
- 4.12 Exceedances of turbidity (NTU) and suspended solids (SS) were recorded in water samples in the reporting month. The exceedance reports are attached in Appendix H. The summary of exceedances for each water quality parameters are provided in Table 4.4.

Table 4.4 Summary of Water Quality Exceedances in the reporting month

| Station No. | DO | | pH | Turbidity | | SS | |
|-------------|--------|-------|-------|-----------|-------|--------|-------|
| | Action | Limit | Limit | Action | Limit | Action | Limit |
| 15 I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 I* | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25-I* | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 I | 0 | 0 | 0 | 0 | 0 | 13 | 0 |
| 32 I* | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 I* | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CSS I | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| TCB I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TCS I | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Remarks: * indicates the stream was not sampled in the reporting month.

4.13 As shown in the exceedance reports attached in Appendix H, all exceedances for water quality parameters recorded in the reporting month were not due to the Project based on the following observations:

- ✧ No construction activity was observed in the vicinity of the sampling locations.
- ✧ No pollution discharge from construction activity was observed.
- ✧ Measured value at the reference station was higher than at the impact monitoring stations.

4.14 According to the ET's investigation, no direct evidence demonstrated the exceedances of Action/Limit level for water monitoring parameters were caused by the Project.

5. ENVIRONMENTAL AUDIT

Site Audits

- 5.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.2 ET site audits were conducted on 7th, 12th, 21st and 28th August 2008 in the reporting month. IEC site inspections were conducted on 12th August 2008. The summaries of site audits are attached in Appendix I.

Review of Environmental Monitoring Procedures

- 5.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations were recorded for the monitoring works:

Air Quality Monitoring

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

Noise Monitoring

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

Water Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- The monitoring team recorded the weather and river conditions on the monitoring day.

Status of Environmental Licensing and Permitting

- 5.4 All permits/licenses obtained for the Project are summarized in Table 5.1.

Table 5.1 Summary of Environmental Licensing and Permit Status

| Permit No. | Valid Period | | Details | Status |
|--|--------------|----------|---|--------|
| | From | To | | |
| Environmental Permit (EP) | | | | |
| EP-170/2003/C | 31/7/07 | N/A | Construction of (a) Widening and realignment of an approximate 3.6 kilometre long section of Tung Chung Road between Lung Tseng Tau and Pak Kung Au from a single-lane road for two-way traffic to a single two-lane road with footpath; (b) Construction of an approximate 2.6 kilometre long single two-lane road between Pak Kung Au and Cheung Sha with footpath and elevated highway structures; and © Provision of passing bays/bus lay-bys along Tung Chung Road. | Valid |
| Registration of Chemical Waste Producer | | | | |
| WPN5214 – 950-C1213-01 | --- | N/A | Chemical waste types: spent Indication oil, surplus paint, spent diesel, spent thinner, mixing residue containing pesticides, spent mineral oil | Valid |
| Water Discharge License | | | | |
| EP890/W7/XP089 | --- | N/A | Discharge from Sewage Treatment System (Northern Section) | Valid |
| EP890/W7/XP090 | --- | N/A | Industrial discharge (Northern Section) | Valid |
| EP890/W2/XG013 | --- | N/A | Industrial discharge (Southern Section) | Valid |
| Construction Noise Permit (CNP) | | | | |
| GW-RS0419-08 | 25/06/08 | 24/12/08 | Construction Noise Permit for Tung Chung Road between Lung Tseng Tau and Cheung Sha | Valid |
| GW-RW0122-08 | 20/03/08 | 19/09/08 | Construction Noise Permit for Cheung Tung Road near Sunny Bay Station, Lantau Island, H.K. | Valid |
| GW-RS0209-08 | 10/04/08 | 09/10/08 | Construction Noise Permit for Construction Site for Roadworks between Pak Kung Au and Cheung Sha Sheung Tsuen | Valid |

Status of Waste Management

- 5.5 The waste management of the Project has to follow the requirements and procedures stated in the Waste Management Plan which was prepared by the Contractor.
- 5.6 The solid waste generated from the Project was mainly general refuse that was collected by a licensed collector on an as need basis.
- 5.7 The monthly summary of waste flow table and the timber summary for August 2008 are provided in Appendix O.

Implementation Status of Environmental Mitigation Measures

- 5.8 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in Table 5.2.

Table 5.2 Observations and Recommendations of Site Inspections

| Parameters | Date | Observations and Recommendations | Follow-up |
|----------------------|----------|--|---|
| <i>Water Quality</i> | 07/08/08 | Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear the silt at drainage channel at the entrance of STR7 . | Rectification/improvement was observed during the follow-up audit session. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear the sediment at the U-Channel at underneath STR7 . | Rectification/improvement was observed during the follow-up audit session. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear the standing water at STR8 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear discarded plant and sediment at the U-Channel and catchpit at STR8 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris near catchment. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Properly cover the catchment channel near the construction works. | Rectification/improvement was observed during the follow-up audit session. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along existing TCR . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |

| Parameters | Date | Observations and Recommendations | Follow-up |
|------------|----------|--|---|
| | 07/08/08 | The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | Surface runoff was observed running to the stream directly at existing TCR. The Contractor was reminded to divert it to the U-Channel for discharging. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear the silt at drainage channel at the entrance of STR7 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear discarded tree debris and sediment at the U-Channel and catchpit at STR8 . | Rectification/improvement was observed during the follow-up audit session. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear the sediment in the culvert at between STR8-STR9 . | Rectification/improvement was observed during the follow-up audit session. |
| | 12/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-11 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along existing TCR . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |

| Parameters | Date | Observations and Recommendations | Follow-up |
|------------|----------|--|---|
| | 12/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris near catchment. (in-progress) | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed soil surface with stones at underneath STR12 . | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan. The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | Surface runoff was observed running to the stream directly at existing TCR. The Contractor was reminded to divert it to the U-Channel for discharging. | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear the silt at drainage channel at the entrance of STR7 . | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear the debris and sediments at existing TCR (near STR7) . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR11 . | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at STR12 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 . | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris near catchment. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding |

| Parameters | Date | Observations and Recommendations | Follow-up |
|------------|----------|--|---|
| | | (in-progress) | item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along existing TCR . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Re-arrange the stream diversion at Stream 19 . (in-progress) | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. (in-progress) | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear the sediment on the paved road near the entrance of STR7 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear the debris and sediments at existing TCR (near STR7) . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear the standing water in the drip tray at STR8 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |

| Parameters | Date | Observations and Recommendations | Follow-up |
|--------------------|----------|---|---|
| | 28/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at STR12 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris near catchment. (in-progress) | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Remove the discarded sedimentation tank that retains the standing water at STR18 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear sediment and debris at the paved road along existing TCR . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Keep clear the sediment at the culvert at RW6 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| Air Quality | 07/08/08 | The Contractor was reminded of the followings: - Properly cover the stockpile at STR7-8 when it is not in works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear the stockpile of cement at STR9A . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: | This item was not rectified during the follow-up audit session. Follow-up action was |

| Parameters | Date | Observations and Recommendations | Follow-up |
|------------|----------|---|---|
| | | - Hydroseed/cover the exposed surface at STR14 . | needed for the outstanding item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Hydroseed the exposed surface at STR6 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Properly cover the stockpile at STR7-8 when it is not in works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear the stockpile of cement at STR9A . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-11 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed surface at STR14 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Hydroseed the exposed surface at STR6 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Hydroseed/cover the exposed soil surface with stones at underneath STR12 . | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | The Contractor was reminded of the followings: - Properly cover the stockpile near Stream 25 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Properly cover the stockpile at STR7-8 when it is not in works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the | Rectification/improvement |

| Parameters | Date | Observations and Recommendations | Follow-up |
|------------|----------|--|---|
| | | <p>followings:</p> <ul style="list-style-type: none"> - Clear the stockpile of cement at STR9A. | was observed during the follow-up audit session. |
| | 21/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at STR11 after the works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at underneath STR11. | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at STR12 after the works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at STR12. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed surface at STR14. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed the exposed surface at STR6. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile near Stream 25. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at STR7-8 when it is not in works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the | This item was not rectified |

| Parameters | Date | Observations and Recommendations | Follow-up |
|----------------------------------|----------|--|---|
| | | <p>followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at underneath STR10. | during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at STR11 after the works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at STR12 after the works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed slope with tarpaulin at STR12. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Properly cover the stockpile at STR13 after the works. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed/cover the exposed surface at STR14. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Hydroseed the exposed surface at STR6. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| Waste/Chemical Management | 07/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Clear discarded cement bags (abandon) at STR7. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Clear C&D waste near Stream 19(downstream), Stream 28, Stream 29 and Stream 34. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 07/08/08 | <p>The Contractor was reminded of the followings:</p> <ul style="list-style-type: none"> - Clear discarded plants at underneath | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding |

| Parameters | Date | Observations and Recommendations | Follow-up |
|------------|----------|--|---|
| | | STR13. | item. |
| | 07/08/08 | The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at RW28. | Rectification/improvement was observed during the follow-up audit session. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at STR7. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear C&D waste at underneath STR12. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear C&D waste near Stream 19(downstream), Stream 28, Stream 29 and Stream 34. | Rectification/improvement was observed during the follow-up audit session. |
| | 12/08/08 | The Contractor was reminded of the followings: - Clear discarded tree debris at underneath STR13. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear discarded cement bags (abandon) at STR7. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear C&D waste at underneath STR7. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear C&D waste at underneath STR12. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear C&D waste near Stream 19(downstream). | Rectification/improvement was observed during the follow-up audit session. |
| | 21/08/08 | The Contractor was reminded of the followings: - Clear discarded tree debris at underneath STR13. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding |

| Parameters | Date | Observations and Recommendations | Follow-up |
|----------------|----------|--|---|
| | | | item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Provide drip tray for the chemical container at the entrance of STR7 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear C&D waste at underneath STR7 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear C&D waste at Stream 28, Stream 29, Stream 31 and Stream 19 (downstream) . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Remove the suspected oil at between STR11 and STR12 . | Rectification/improvement was observed during the follow-up audit session. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear C&D waste at underneath STR12 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| | 28/08/08 | The Contractor was reminded of the followings: - Clear discarded tree debris at underneath STR13 . | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |
| General | 28/08/08 | Clear the discarded tree debris, sediment, stones and debris in the drainage system (culvert and gullies) after the typhoon. | This item was not rectified during the follow-up audit session. Follow-up action was needed for the outstanding item. |

Non-compliance Recorded during Site Inspections

5.9 No non-compliance was recorded in the reporting period.

Summary of Mitigation Measures Implemented

5.10 The Contractor has implemented the mitigation measures as recommended in the EIA and the Updated EM&A Manual. The mitigation measures implemented by the Contractor in the reporting month are summarized as follow:

Water Quality

- (1) Cleared the silt at drainage channel at the entrance of STR7.
- (2) Cleared the sediment at the U-Channel at underneath STR7.
- (3) Properly covered the catchment channel near the construction works.
- (4) Cleared discarded tree debris and sediment at the U-Channel and catchpit at STR8.
- (5) Cleared the sediment in the culvert at between STR8-STR9.
- (6) Hydroseeded/covered the exposed soil surface with stones at underneath STR12.
- (7) Diverted surface runoff to the U-Channel for discharging.
- (8) Cleared the silt at drainage channel at the entrance of STR7.
- (9) Hydroseeded/covered the exposed slope with tarpaulin at underneath STR11.
- (10) Hydroseeded/covered the exposed surface at STR14.

Air Quality

- (11) Hydroseeded/covered the exposed soil surface with stones at underneath STR12.
- (12) Cleared the stockpile of cement at STR9A.
- (13) Hydroseeded/covered the exposed slope with tarpaulin at underneath STR11.
- (14)

Waste/Chemical Management

- (15) Cleared discarded cement bags (abandon) at RW28.
- (16) Cleared C&D waste near Stream 19(downstream), Stream 28, Stream 29 and Stream 34.
- (17) Cleared C&D waste near Stream 19(downstream).
- (18) Removed the suspected oil at between STR11 and STR12.

5.11 According to the Updated EM&A Manual, mitigation measures are required to be implemented. An updated summary of the EMIS is provided in Appendix J.

Summary of Exceedances of the Environmental Quality Performance Limit

24-hr TSP Monitoring

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

Construction Noise Monitoring

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

Water Quality Monitoring

- 5.14 Exceedances of turbidity (NTU) and suspended solids (SS) were recorded in water samples in the reporting month. The summary of exceedances is provided in Table 4.4.
- 5.15 All exceedances recorded for water quality parameters in the reporting month were not considered due to the Project due to the following observations:
- ✧ No construction activity was observed in the vicinity of the sampling locations.
 - ✧ No pollution discharge from construction activity was observed.
 - ✧ Measured value at the reference station was higher than at the impact monitoring stations.
- 5.16 No direct evidence demonstrated the exceedances of Action/Limit level for water monitoring parameters in the reporting month were caused by the Project.

Implementation Status of Event Action Plans

- 5.17 The Event Action Plans for air quality, noise and water quality are presented in Appendix K.
- 5.18 No valid exceedance of Action and Limit levels for air quality, noise and water quality monitoring due to the Project was recorded. No action was required to be carried out.

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

- 5.19 No environmental complaint was received in the reporting month.
- 5.20 No warning and summon or notification of successful prosecution was received in the reporting month.
- 5.21 There were a total of 51 environmental complaints, 12 warnings, 3 summons and 2 successful prosecutions received since the commencement of the Project.
- 5.22 The Complaint Log is attached in Appendix L and the summary of warnings issued by the EPD and prosecution is attached in Appendix M.

6. FUTURE KEY ISSUES

Key Issues for the Coming Month

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

- Runoff from exposed slope;
- Wastewater and runoff discharge from site;
- Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
- Review and implementation of temporary drainage system for the surface runoff;
- Proper storage of construction materials near streams;
- Noise from operation of the equipment, especially for rock-breaking activities and machinery on-site;
- Dust generation from stockpiles of dusty materials, exposed retain wall, excavation works and rock breaking activities;
- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Watering for rock breaking activity, soil nailing and on haul road; and
- Accumulation of general and construction waste near stream and on site.

Monitoring Schedule for the Next Month

6.2 The tentative monitoring schedule for the next month is given in Appendix C.

Construction Program for the Project (Construction Program for the Next Month)

6.3 The major construction activities in the coming month include:

Northern Section

- Installation of street furniture at Zone A to C;
- Slope work slope drainage and street furniture at Zone D;
- Slope work at Zone E; and
- Slope work and street furniture at Zone F.

Southern Section

- Construction of footpath at Zone 1 to 3;
- Erection of rock fall protection fence at Zone 4; and
- Slope works at Zone 5 and Zone 6.

7. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 7.1 Air quality, noise and water quality monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 7.2 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded in the reporting month.
- 7.3 Construction noise monitoring was conducted as scheduled in the reporting month except the monitoring on 6 August 2008 was cancelled due to the hoisting of Tropical Cyclone Warning Signals No.8 and re-scheduled to 7 August 2008. No Action/Limit Level exceedance was recorded in the reporting month.
- 7.4 Water quality monitoring was conducted as scheduled in the reporting month except the monitoring on 6 and 22 August 2008 was cancelled due to the hoisting of Tropical Cyclone Warning Signals No.8 and No.9 respectively and re-scheduled to 8 and 23 August 2008.
- 7.5 No valid Action/Limit Level exceedance for water quality was recorded in the reporting month.
- 7.6 No environmental complaint was received in the reporting month.
- 7.7 No warning and summon and notification of successful prosecution was received in the reporting month.

Recommendations

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

Dust Impact

- To implement dust suppression measures on all haul roads, stockpiles and dry surfaces in dry weather.
- To implement dust control measures for the dust generation work such as excavation, piling works and rock breaking.
- To ensure water spray being applied for the dust emissive works, such as soil nail installation, loading and unloading of soil materials, excavation works and rock dowel installation.
- To cover soil stockpiles and exposed slope surface by impervious tarpaulin sheets or other means.
- To ensure that all vehicles carrying dusty material are properly covered before leaving the site.

- To maintain the machinery and vehicles in a good working condition on site.

Noise Impact

- To implement appropriate mitigation measures, such as cover the tip of the hammer, in order to minimize the noise emitted during rock-breaking activities.
- To review the works sequence of site activities so as to reduce the number of noisy equipment in concurrent operation.
- To employ quiet powered mechanical equipment if possible.
- To ensure compliance of CNP conditions during restricted-hour works.
- To follow up any exceedance caused by the construction works.
- To space out noisy equipment and position as far away as possible from sensitive receivers.

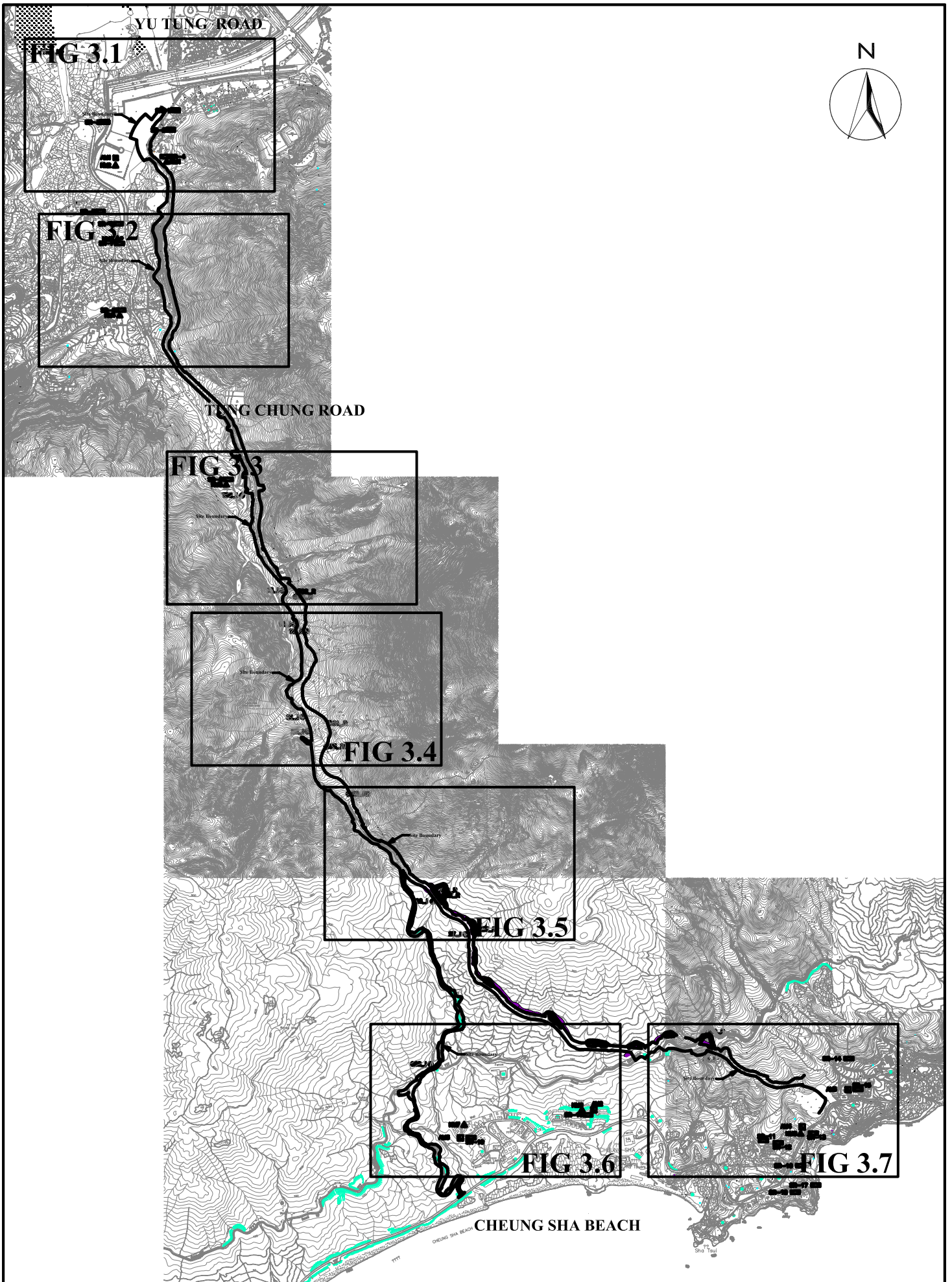
Water Quality Impact

- To prevent any surface runoff discharge into any stream course.
- To review and implement temporary drainage system.
- To identify any wastewater discharges from site.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks.
- To review the capacity of de-silting facilities for discharge.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To avoid accumulation of stagnant and ponding water on site.
- To follow up any exceedance caused by the construction works.

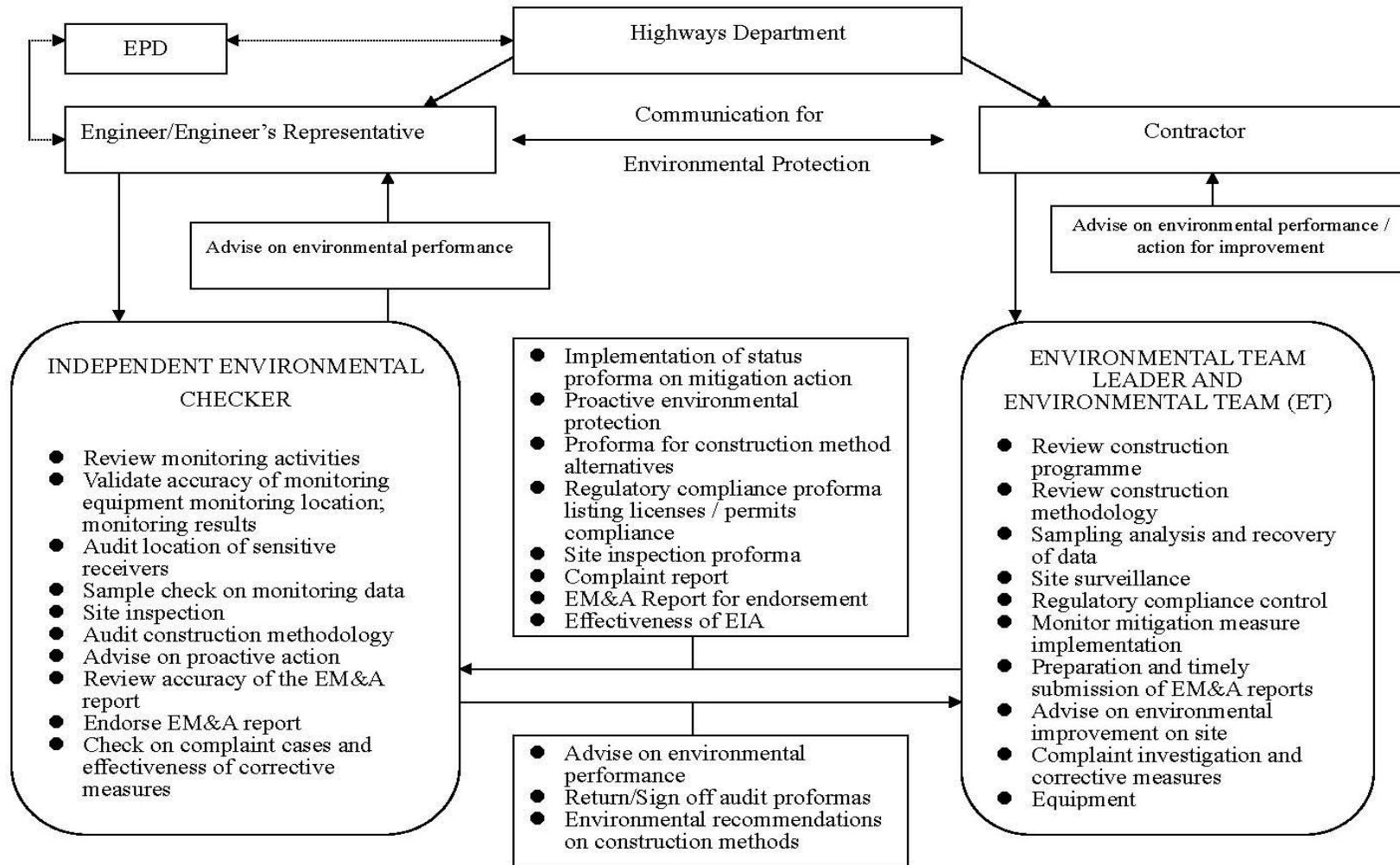
Waste / Chemical Management

- To ensure the performance of sorting of C&D materials at source (during generation).
- To carry out inspection of dump truck at site exit to ensure inert and non-inert C&D materials are properly segregated before removing off site.
- To ensure proper collection and disposal of rubbish generated on site.
- To avoid storage of oil container within the Country Park.
- To avoid any discharge or accidental spillage of chemical waste directly from the site.
- To avoid storage of construction materials at any stream.
- To check for any accumulation of waste materials or rubbish on site.
- To remove ponding water regularly in drip trays on site.

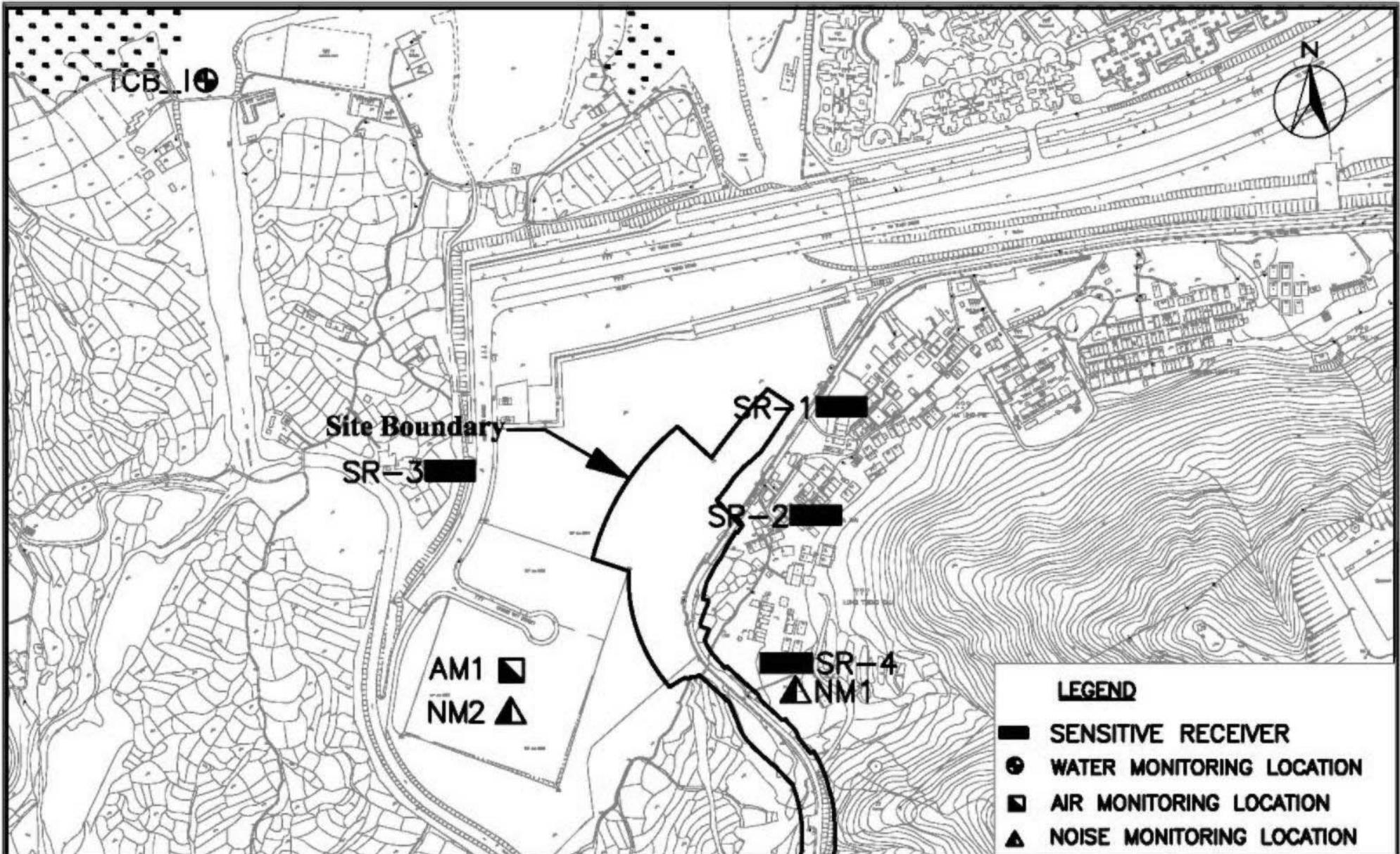
FIGURES







| | | | | | |
|--|---|---------|--------|-------------|----------|
|  <p>CINOTECH Cinotech Consultants Limited</p> | <p>IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA</p> <p>SITE LOCATION PLAN</p> | SCALE | N.T.S. | DATE | OCT 2006 |
| | | CHECK | JY | DRAWN | VL |
| | | JOB No. | MA6030 | DRAWING No. | FIG 1 |



| | | | |
|---------|--------|-------------|------|
| SCALE | N.T.S. | DATE | 2007 |
| CHECK | KL | DRAWN | FL |
| JOB NO. | MA6030 | DRAWING No. | 2 |
| | | Rev | 1 |



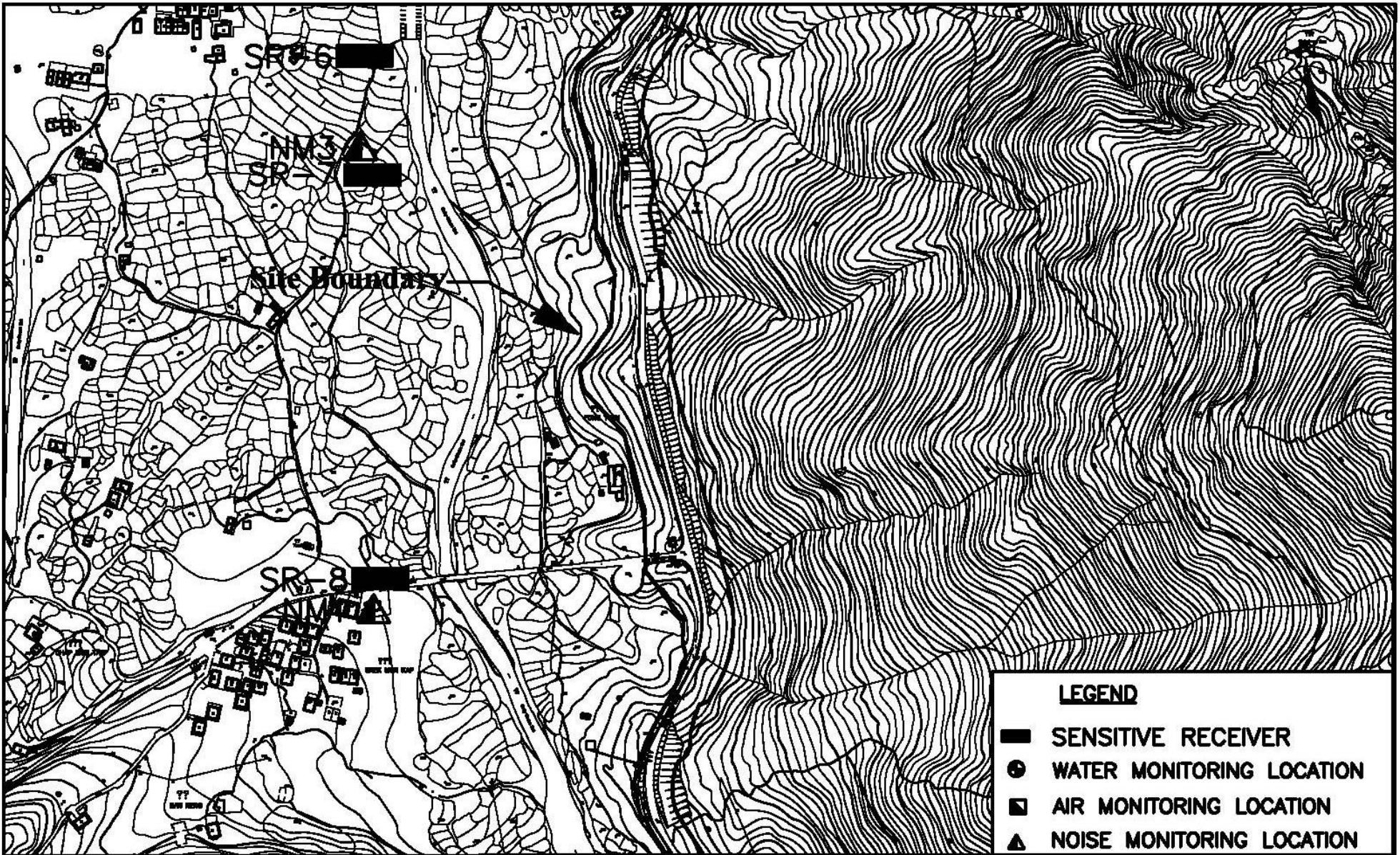
| LEGEND | |
|---|---------------------------|
|  | SENSITIVE RECEIVER |
|  | WATER MONITORING LOCATION |
|  | AIR MONITORING LOCATION |
|  | NOISE MONITORING LOCATION |





IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA



MONITORING LOCATIONS
(SHEET 1 OF 7)

| | | | |
|---------|-----------|-------------|----------|
| SCALE | A4 1:4000 | DATE | OCT 2006 |
| CHECK | JY | DRAWN | VL |
| JOB No. | MA6030 | DRAWING No. | FIG 3.1 |
| | | REV | 1 |



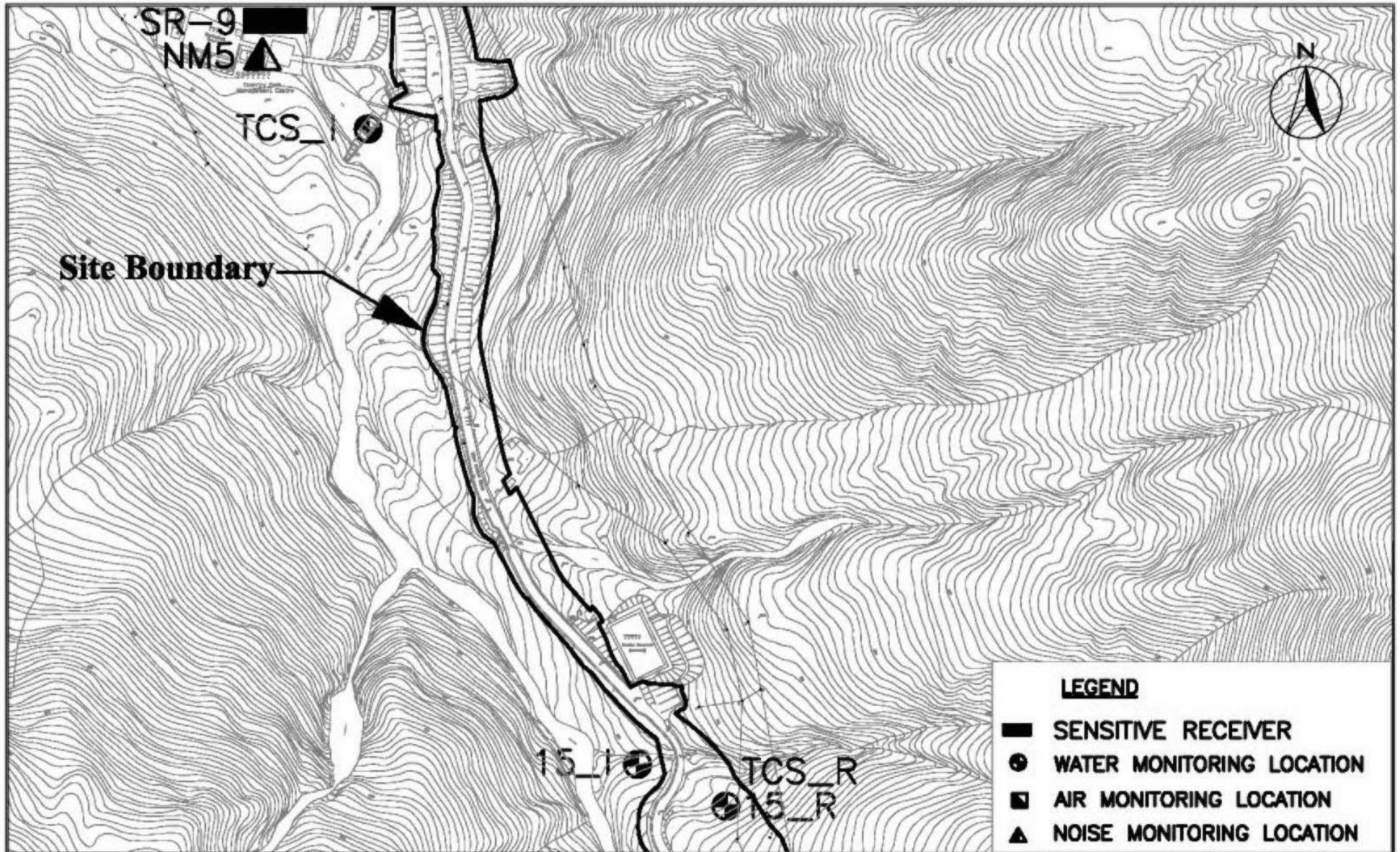
| LEGEND | |
|---|---------------------------|
|  | SENSITIVE RECEIVER |
|  | WATER MONITORING LOCATION |
|  | AIR MONITORING LOCATION |
|  | NOISE MONITORING LOCATION |

IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA





CNOTECH
Cinotech Consultants Limited

**MONITORING LOCATIONS
(SHEET 2 OF 7)**

| | | | |
|---------|-----------|-------------|----------|
| SCALE | A4 1:4000 | DATE | OCT 2006 |
| CHECK | JY | DRAWN | VL |
| JOB No. | MA6030 | DRAWING No. | FIG 3.2 |
| | | REV | 1 |



LEGEND

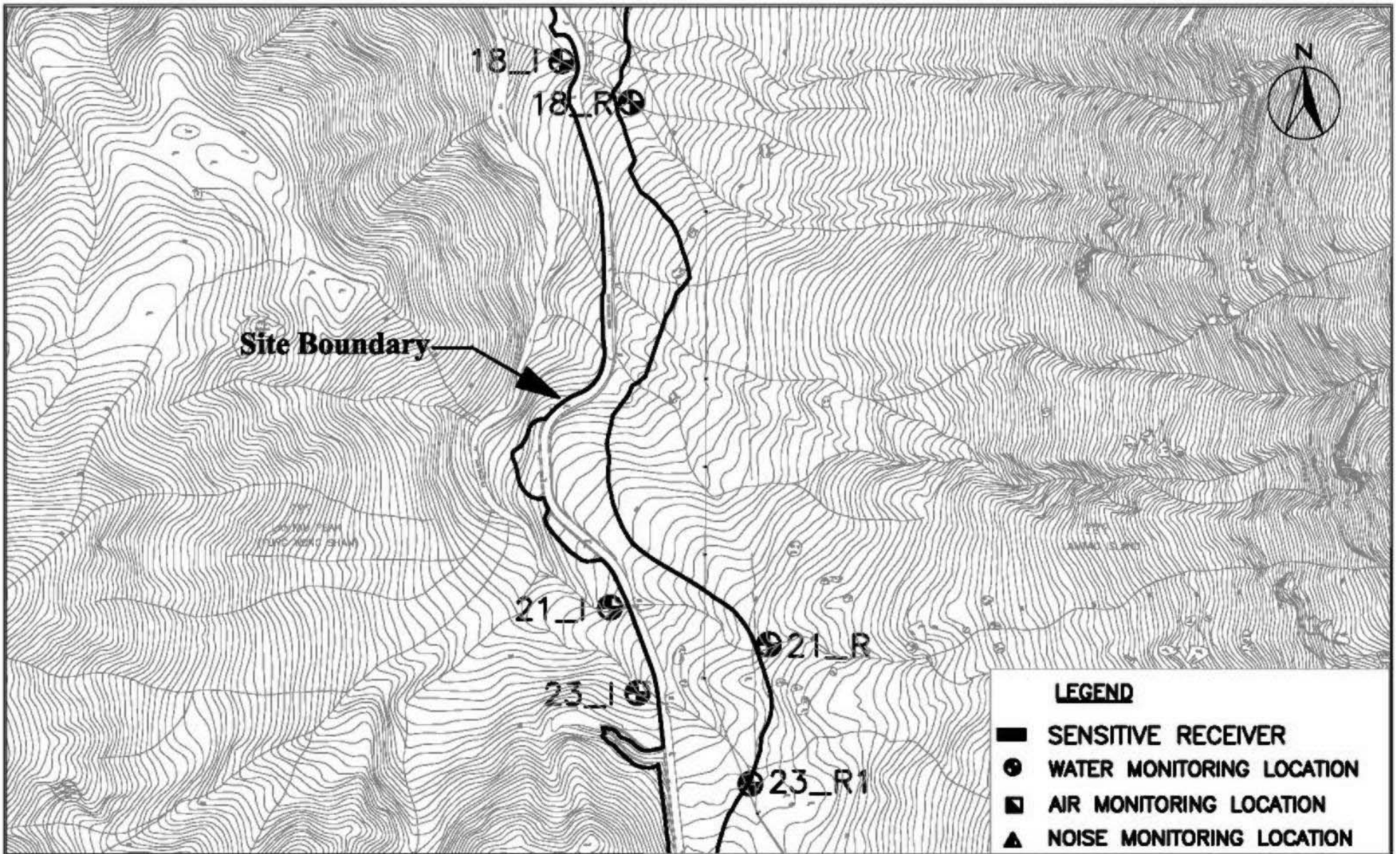
-  SENSITIVE RECEIVER
-  WATER MONITORING LOCATION
-  AIR MONITORING LOCATION
-  NOISE MONITORING LOCATION



IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA

**MONITORING LOCATIONS
(SHEET 3 OF 7)**

| | | | |
|---------|-----------|-------------|----------|
| SCALE | A4 1:4000 | DATE | OCT 2006 |
| CHECK | JY | DRAWN | VL |
| JOB No. | MA6030 | DRAWING No. | FIG 3.3 |
| | | REV | 1 |



LEGEND

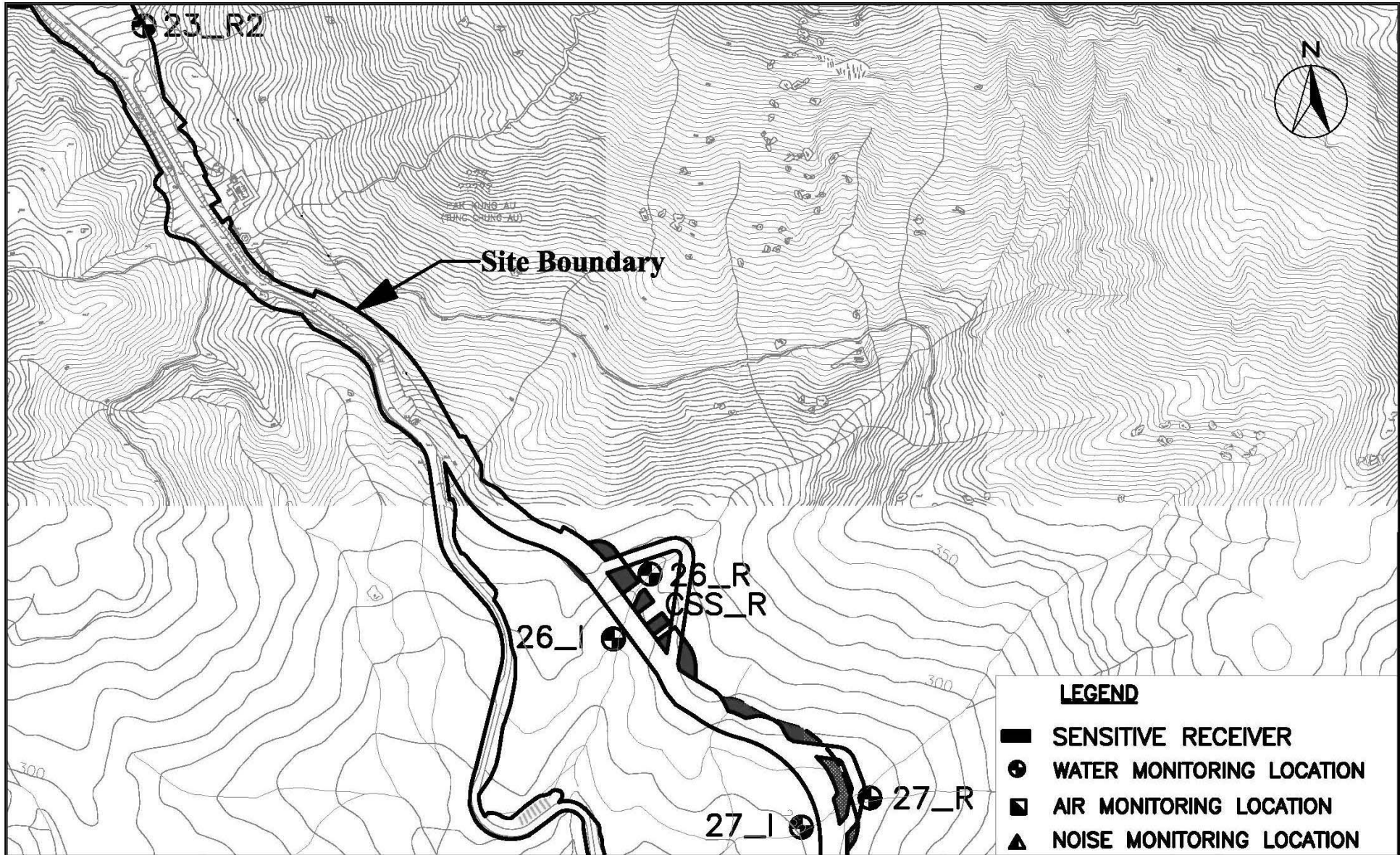
- SENSITIVE RECEIVER
- WATER MONITORING LOCATION
- AIR MONITORING LOCATION
- ▲ NOISE MONITORING LOCATION



IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA

**MONITORING LOCATIONS
(SHEET 4 OF 7)**

| | | | |
|---------|-----------|-------------|----------|
| SCALE | A4 1:4000 | DATE | OCT 2006 |
| CHECK | JY | DRAWN | VL |
| JOB No. | MA6030 | DRAWING No. | FIG 3.4 |
| | | REV | 1 |

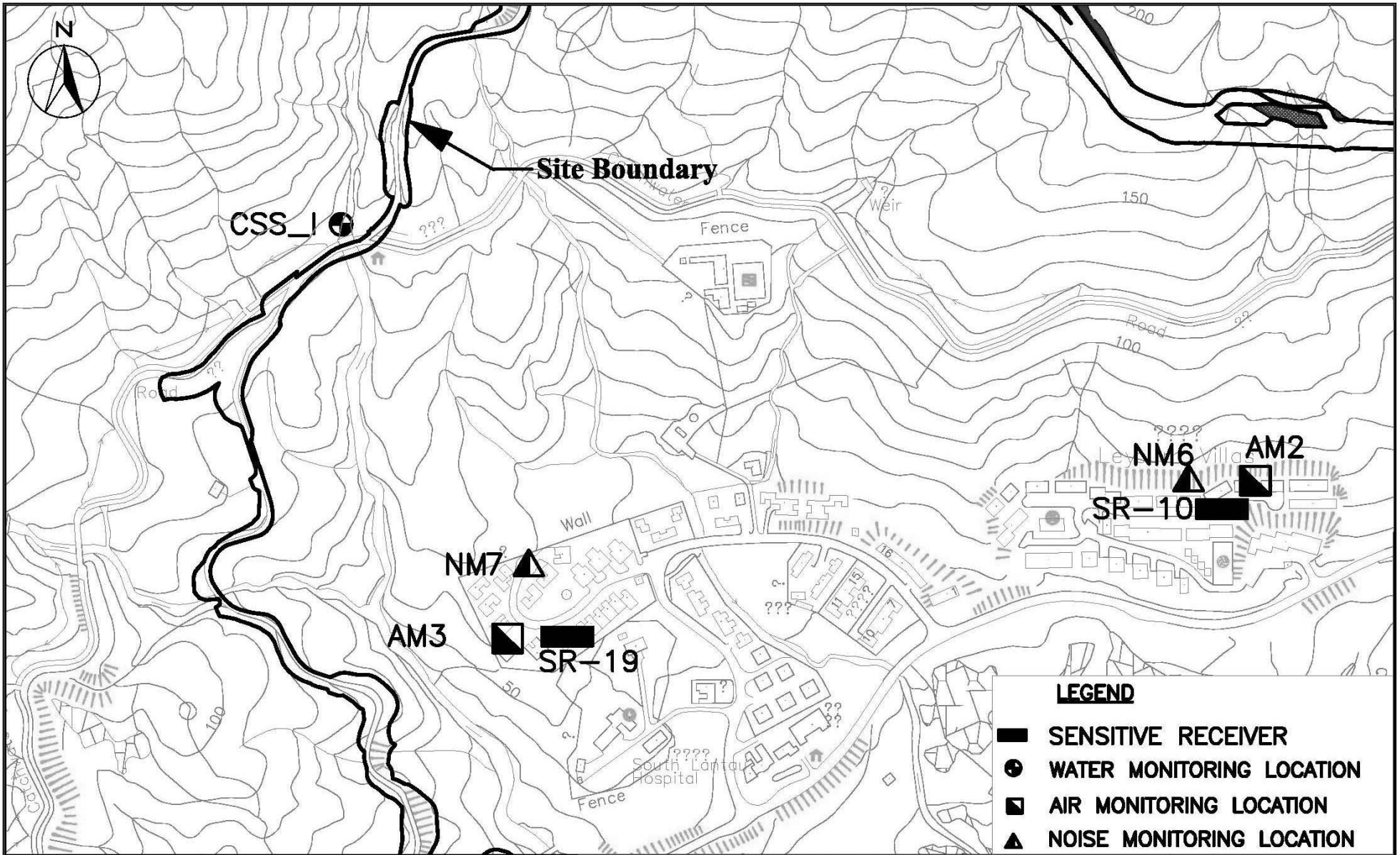


IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA



**MONITORING LOCATIONS
(SHEET 5 OF 7)**

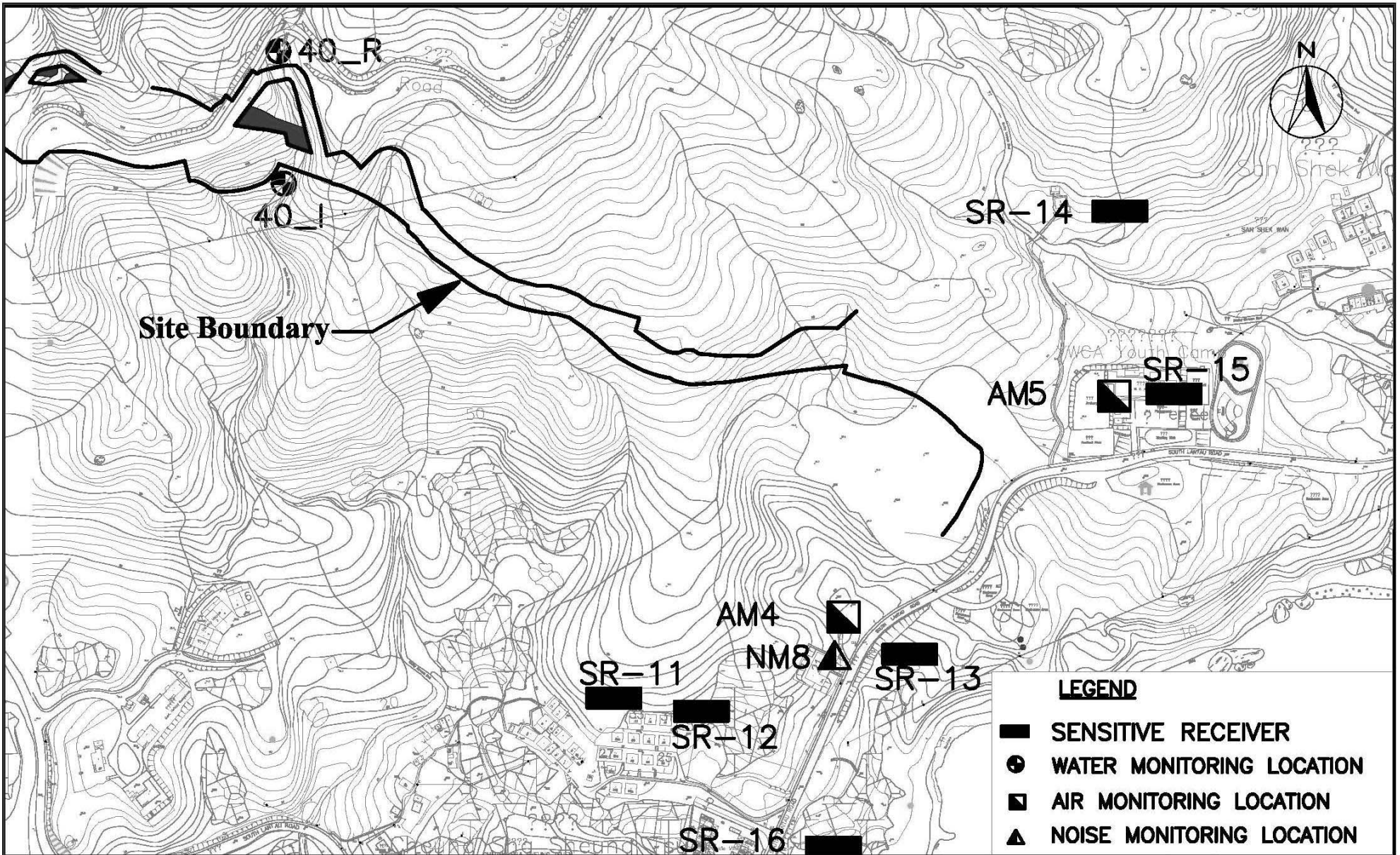
| | | | |
|---------|-----------|-------------|----------|
| SCALE | A4 1:4000 | DATE | OCT 2006 |
| CHECK | JY | DRAWN | VL |
| JOB No. | MA6030 | DRAWING No. | FIG 3.5 |
| | | REV | 1 |



| LEGEND | |
|--------|---------------------------|
| | SENSITIVE RECEIVER |
| | WATER MONITORING LOCATION |
| | AIR MONITORING LOCATION |
| | NOISE MONITORING LOCATION |

| | | |
|----------------------------------|--|--|
| Cinotech Consultants Limited | IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA | |
| | MONITORING LOCATIONS (SHEET 6 OF 7) | |

| | | | |
|---------|-----------|-------------|----------|
| SCALE | A4 1:4000 | DATE | OCT 2006 |
| CHECK | JY | DRAWN | VL |
| JOB No. | MA6030 | DRAWING No. | FIG 3.6 |
| | | REV | 1 |



IMPROVEMENT TO TUNG CHUNG ROAD BETWEEN LUNG TSENG TAU AND CHEUNG SHA



**MONITORING LOCATIONS
(SHEET 7 OF 7)**

| | | | |
|---------|-----------|-------------|----------|
| SCALE | A4 1:4000 | DATE | OCT 2006 |
| CHECK | JY | DRAWN | VL |
| JOB No. | MA6030 | DRAWING No. | FIG 3.7 |
| | | REV | 1 |

**APPENDIX A
ACTION AND LIMIT LEVELS FOR AIR
QUALITY, NOISE AND WATER
QUALITY**

Appendix A - Action and Limit Levels

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

| Location | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|----------|--|---------------------------------------|
| AM1 | 312 | 500 |
| AM2 | 328 | |
| AM3 | 302 | |
| AM4 | 305 | |
| AM5 | 342 | |

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

| Location | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|----------|--|---------------------------------------|
| AM1 | 155 | 260 |
| AM2 | 151 | |
| AM3 | 141 | |
| AM4 | 145 | |
| AM5 | 153 | |

Table A-3 Action and Limit Levels for Construction Noise

| Period | Action Level ⁽²⁾ | Limit Level | |
|---|-----------------------------|----------------------------------|---|
| | | 0700-1900 hrs on normal weekdays | When one documented complaint is received |
| 1900-2300 hrs on holidays & 0700-2300 hrs on all other days | - ⁽¹⁾ | | |
| 2300-0700 hrs of next day | - ⁽¹⁾ | | |

*Free field noise levels were adjusted with a correction of +3 dB(A)

Notes:

- (1) The noise limits shall be determined by EPD during the application of the construction noise permit (CNP).
- (2) Stated in the *“Environmental Monitoring and Audit Guidelines for Development Projects in Hong Kong”*, Appendix D2, Section 2.6, Table 2.1

Table A-4 Compliance Level for Water Quality

| Monitoring Stations | DO, mg/L | | pH | | Turbidity, NTU | | | | SS, mg/L | | | |
|---------------------|----------|-------|--------|--------------|----------------|--|-------|--|----------|---|-------|---|
| | Action | Limit | Action | Limit | Action | | Limit | | Action | | Limit | |
| TCS_I | 6.10 | 4.00 | - | <6.5 or >8.5 | 5.95 | or 120% of the upstream control station's Tby (at the sme tide on the same day if appropriate) | 13.30 | or 130% of the upstream control station's Tby (at the sme tide on the same day if appropriate) | 10.30 | or 120% of the upstream control station's SS (at the sme tide on the same day if appropriate) | 12.00 | or 130% of the upstream control station's SS (at the sme tide on the same day if appropriate) |
| CSS_I | 6.40 | 4.00 | - | <6.5 or >8.5 | 7.91 | | 10.50 | | 9.90 | | 16.00 | |
| 15_I | 5.94 | 4.00 | - | <6.5 or >8.5 | 11.00 | | 16.10 | | 6.10 | | 8.20 | |
| 18_I | 6.43 | 4.00 | - | <6.5 or >8.5 | 6.84 | | 11.10 | | 14.00 | | 16.00 | |
| 19_I | 6.55 | 4.00 | - | <6.5 or >8.5 | 7.52 | | 9.03 | | 14.00 | | 18.00 | |
| 21_I | 6.73 | 4.00 | - | <6.5 or >8.5 | 7.70 | | 8.30 | | 6.60 | | 20.00 | |
| 23_I | 6.55 | 4.00 | - | <6.5 or >8.5 | 6.37 | | 6.62 | | 8.50 | | 17.00 | |
| 26_I | 6.49 | 4.00 | - | <6.5 or >8.5 | 7.53 | | 8.10 | | 6.70 | | 15.00 | |
| 27_I | 5.33 | 4.00 | - | <6.5 or >8.5 | 6.05 | | 6.76 | | 2.10 | | 3.00 | |
| 32_I | 5.94 | 4.00 | - | <6.5 or >8.5 | 10.30 | | 14.20 | | 15.00 | | 18.00 | |
| 40_I | 6.42 | 4.00 | - | <6.5 or >8.5 | 9.38 | | 10.60 | | 14.00 | | 15.00 | |
| TCB_I | 6.31 | 4.00 | - | <6.5 or >8.5 | 17.10 | | 41.40 | | 19.00 | | 20.00 | |

**APPENDIX B
COPIES OF CALIBRATION
CERTIFICATES**

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/46/0011

Station AMI - YMCA of HK Christian College

Operator: WK

Date: 10-Jun-08

Next Due Date: 9-Aug-08

Equipment No.: A-01-46

Serial No. 1315

| Ambient Condition | | | |
|---------------------|-------|---------------------|-------|
| Temperature, Ta (K) | 302.8 | Pressure, Pa (mmHg) | 759.2 |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|--|--------|---------------|--------|
| Equipment No.: | A-04-06 | Slope, mc | 0.0575 | Intercept, bc | 0.0395 |
| Last Calibration Date: | 10-Mar-08 | $mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | | | |
| Next Calibration Date: | 9-Mar-09 | $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$ | | | |

| Calibration of TSP Sampler | | | | | |
|----------------------------|------------------------------------|--|---------------------|------------------------------|---|
| Calibration Point | Orifice | | | HVS | |
| | ΔH (orifice), in. of water | $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | Qstd (CFM) X - axis | ΔW (HVS), in. of oil | $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis |
| 1 | 11.5 | 3.36 | 57.79 | 8.4 | 2.87 |
| 2 | 9.6 | 3.07 | 52.74 | 6.6 | 2.55 |
| 3 | 7.4 | 2.70 | 46.22 | 5.0 | 2.22 |
| 4 | 5.1 | 2.24 | 38.26 | 3.1 | 1.75 |
| 5 | 3.3 | 1.80 | 30.64 | 2.1 | 1.44 |

By Linear Regression of Y on X

Slope, mw = 0.0532

Intercept, bw : -0.2381

Correlation coefficient* = 0.9976

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.28

Remarks: _____

Conducted by: Wh Tang

Signature: _____

Date: 10/6/08

Checked by: RW

Signature: _____

Date: 10 June 2008

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/46/0012

Station AM1 - YMCA of HK Christian College

Operator: WK

Date: 8-Aug-08

Next Due Date: 7-Oct-08

Equipment No.: A-01-46

Serial No. 1315

| Ambient Condition | | | |
|---------------------|-------|---------------------|-------|
| Temperature, Ta (K) | 298.2 | Pressure, Pa (mmHg) | 756.6 |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|--|--------|---------------|--------|
| Equipment No.: | A-04-06 | Slope, mc | 0.0575 | Intercept, bc | 0.0395 |
| Last Calibration Date: | 10-Mar-08 | $mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | | | |
| Next Calibration Date: | 9-Mar-09 | $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$ | | | |

| Calibration of TSP Sampler | | | | | |
|----------------------------|----------------------------|--|------------------------|----------------------|---|
| Calibration Point | Orifice | | | HVS | |
| | ΔH (orifice), in. of water | $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | Qstd (CFM) X - axis | ΔW (HVS), in. of oil | $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis |
| 1 | 11.4 | 3.37 | 57.88 | 8.8 | 2.96 |
| 2 | 10.0 | 3.15 | 54.17 | 7.1 | 2.66 |
| 3 | 7.5 | 2.73 | 46.82 | 5.2 | 2.27 |
| 4 | 4.9 | 2.21 | 37.71 | 3.3 | 1.81 |
| 5 | 3.1 | 1.76 | 29.85 | 1.9 | 1.37 |

By Linear Regression of Y on X

Slope, mw = 0.0549

Intercept, bw = -0.2722

Correlation coefficient* = 0.9983

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.39

Remarks: _____

Conducted by: N-K Tang

Signature: _____

Date: 8/8/08

Checked by: W

Signature: _____

Date: 8 Aug 08

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/11/0011

Station AM2 - Leyburn Villas
 Date: 10-Jun-08
 Equipment No.: A-01-11

Operator: WK
 Next Due Date: 9-Aug-08
 Serial No. 1805

| Ambient Condition | | | |
|---------------------|-------|---------------------|-------|
| Temperature, Ta (K) | 302.8 | Pressure, Pa (mmHg) | 759.2 |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|--|--------|---------------|--------|
| Equipment No.: | A-04-06 | Slope, mc | 0.0575 | Intercept, bc | 0.0395 |
| Last Calibration Date: | 10-Mar-08 | $mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | | | |
| Next Calibration Date: | 9-Mar-09 | $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$ | | | |

| Calibration of TSP Sampler | | | | | |
|----------------------------|------------------------------------|--|------------------------|------------------------------|---|
| Calibration Point | Orifice | | | HVS | |
| | ΔH (orifice), in. of water | $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | Qstd (CFM) X - axis | ΔW (HVS), in. of oil | $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis |
| 1 | 12.2 | 3.46 | 59.54 | 8.7 | 2.92 |
| 2 | 10.7 | 3.24 | 55.72 | 7.2 | 2.66 |
| 3 | 7.5 | 2.72 | 46.54 | 5.1 | 2.24 |
| 4 | 5.1 | 2.24 | 38.26 | 3.1 | 1.75 |
| 5 | 3.3 | 1.80 | 30.64 | 2.0 | 1.40 |

By Linear Regression of Y on X

Slope, mw = 0.0524 Intercept, bw : -0.2238
 Correlation coefficient* = 0.9986

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM
 From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.19

Remarks: _____

| | | |
|--------------------------------|----------------------------------|---------------------------|
| Conducted by: <u>Wk Tang</u> | Signature: <u><i>Wk Tang</i></u> | Date: <u>10/6/08</u> |
| Checked by: <u>[Signature]</u> | Signature: <u>[Signature]</u> | Date: <u>10 June 2008</u> |

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/11/0012

Station AM2 - Leyburn Villas
Date: 8-Aug-08
Equipment No.: A-01-11

Operator: WK
Next Due Date: 7-Oct-08
Serial No. 1805

| Ambient Condition | | | |
|---------------------|-------|---------------------|-------|
| Temperature, Ta (K) | 298.2 | Pressure, Pa (mmHg) | 756.6 |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|--|--------|---------------|--------|
| Equipment No.: | A-04-06 | Slope, mc | 0.0575 | Intercept, bc | 0.0395 |
| Last Calibration Date: | 10-Mar-08 | $mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | | | |
| Next Calibration Date: | 9-Mar-09 | $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$ | | | |

| Calibration of TSP Sampler | | | | | |
|----------------------------|------------------------------------|--|---------------------|------------------------------|---|
| Calibration Point | Orifice | | | HVS | |
| | ΔH (orifice), in. of water | $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | Qstd (CFM) X - axis | ΔW (HVS), in. of oil | $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis |
| 1 | 11.9 | 3.44 | 59.15 | 8.9 | 2.98 |
| 2 | 10.3 | 3.20 | 54.98 | 7.5 | 2.73 |
| 3 | 7.6 | 2.75 | 47.13 | 5.4 | 2.32 |
| 4 | 5.2 | 2.27 | 38.87 | 3.2 | 1.78 |
| 5 | 3.0 | 1.73 | 29.36 | 2.0 | 1.41 |

By Linear Regression of Y on X

Slope, mw = 0.0536 Intercept, bw = -0.2163

Correlation coefficient* = 0.9970

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = \underline{\underline{4.38}}$

Remarks: _____

Conducted by: W.K. Tany Signature: _____
Checked by: W.K. Signature: _____

Date: 8/8/08
Date: 8 Aug 08

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/AM4/001

Station No. 31 South Lantau Road (AM4) Operator: WK
 Date: 10-Jun-08 Next Due Date: 9-Aug-08
 Equipment No.: A-01-06 Serial No. 10576

| Ambient Condition | | | |
|---------------------|-------|---------------------|-------|
| Temperature, Ta (K) | 302.8 | Pressure, Pa (mmHg) | 759.2 |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|--|--------|---------------|--------|
| Equipment No.: | A-04-06 | Slope, mc | 0.0575 | Intercept, bc | 0.0395 |
| Last Calibration Date: | 10-Mar-08 | $mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | | | |
| Next Calibration Date: | 9-Mar-09 | $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$ | | | |

| Calibration of TSP Sampler | | | | | |
|----------------------------|----------------------------|---|------------------------|----------------------|---|
| Calibration Point | Orifice | | | HVS | |
| | ΔH (orifice), in. of water | [ΔH x (Pa/760) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | ΔW (HVS), in. of oil | [ΔW x (Pa/760) x (298/Ta)] ^{1/2} Y-axis |
| 1 | 11.7 | 3.39 | 58.30 | 8.8 | 2.94 |
| 2 | 9.5 | 3.06 | 52.46 | 6.9 | 2.60 |
| 3 | 7.4 | 2.70 | 46.22 | 5.0 | 2.22 |
| 4 | 5.1 | 2.24 | 38.26 | 3.1 | 1.75 |
| 5 | 3.0 | 1.72 | 29.18 | 1.9 | 1.37 |

By Linear Regression of Y on X

Slope, mw = 0.0550 Intercept, bw = -0.2932
 Correlation coefficient* = 0.9971

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = (mw x Qstd + bw)² x (760 / Pa) x (Ta / 298) = 4.36

Remarks: _____

Conducted by: Wk Tang Signature: [Signature]
 Checked by: [Signature] Signature: [Signature]

Date: 10/6/08
 Date: 10 June 2008

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

CINOTECH

File No. MA6030/AM4/0012

Station No. 31 South Lantau Road (AM4) Operator: WK
 Date: 8-Aug-08 Next Due Date: 7-Oct-08
 Equipment No.: A-01-06 Serial No. 10576

| Ambient Condition | | | |
|---------------------|-------|---------------------|-------|
| Temperature, Ta (K) | 298.2 | Pressure, Pa (mmHg) | 756.6 |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|---|--------|---------------|--------|
| Equipment No.: | A-04-06 | Slope, mc | 0.0575 | Intercept, bc | 0.0395 |
| Last Calibration Date: | 10-Mar-08 | $mc \times Q_{std} + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | | | |
| Next Calibration Date: | 9-Mar-09 | $Q_{std} = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$ | | | |

| Calibration of TSP Sampler | | | | | |
|----------------------------|------------------------------------|--|-------------------|------------------------------|---|
| Calibration Point | Orifice | | | HVS | |
| | ΔH (orifice), in. of water | $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ | Qstd (CFM) X-axis | ΔW (HVS), in. of oil | $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis |
| 1 | 11.3 | 3.35 | 57.62 | 7.9 | 2.80 |
| 2 | 9.9 | 3.14 | 53.89 | 6.8 | 2.60 |
| 3 | 7.0 | 2.64 | 45.21 | 5.0 | 2.23 |
| 4 | 4.9 | 2.21 | 37.71 | 3.2 | 1.78 |
| 5 | 2.9 | 1.70 | 28.85 | 1.7 | 1.30 |

By Linear Regression of Y on X

Slope, mw = 0.0519 Intercept, bw = -0.1749

Correlation coefficient* = 0.9985

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Q_{std} + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (mw \times Q_{std} + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.26

Remarks: _____

Conducted by: W.K. Tang Signature: [Signature]
 Checked by: [Signature] Signature: [Signature]

Date: 8/8/08
 Date: 8 Aug 08

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|------------|
| Test Report No.: | C/07/80502 |
| Date of Issue: | 2008-05-03 |
| Date Received: | 2008-05-02 |
| Date Tested: | 2008-05-02 |
| Date Completed: | 2008-05-03 |
| Next Due Date: | 2009-05-02 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

Description : RS232 Integral Vane Digital Anemometer
Manufacturer : AZ Instrument
Model No. : 451104
Serial No. : 9020746
Equipment No. : A-03-01

Test conditions:

Room Temperature : 21 degree Celsius
Relative Humidity : 65%
Pressure : 101.3 kPa

Methodology:

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

Results:

| | Reference Set Point | Instrument Readings |
|-----------------------------|---------------------|---------------------|
| Measuring Air Velocity, m/s | 2.00 | 2.00 |
| Temperature, °C | 21.0 | 21.0 |

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE.
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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 10, 2008 Rootsmeter S/N 9833640 Ta (K) - 295
 Operator Tisch Orifice I.D. - 0999 Pa (mm) - 746.76

| 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 | 1.3890 | 3.2 | 2.00 |
| 2 | NA | NA | 1.00 | 0.9850 | 6.3 | 4.00 |
| 3 | NA | NA | 1.00 | 0.8810 | 7.8 | 5.00 |
| 4 | NA | NA | 1.00 | 0.8410 | 8.6 | 5.50 |
| 5 | NA | NA | 1.00 | 0.6950 | 12.5 | 8.00 |

DATA TABULATION

| Vstd | (x axis) Qstd | (y axis) | Va | (x axis) Qa | (y axis) |
|---------------------------|---------------|----------|---------------------------|-------------|----------|
| 0.9917 | 0.7139 | 1.4113 | 0.9957 | 0.7168 | 0.8874 |
| 0.9876 | 1.0026 | 1.9959 | 0.9916 | 1.0067 | 1.2549 |
| 0.9854 | 1.1185 | 2.2315 | 0.9894 | 1.1231 | 1.4030 |
| 0.9844 | 1.1706 | 2.3405 | 0.9884 | 1.1753 | 1.4715 |
| 0.9792 | 1.4090 | 2.8227 | 0.9832 | 1.4147 | 1.7747 |
| Qstd slope (m) = 2.03154 | | | Qa slope (m) = 1.27212 | | |
| intercept (b) = -0.03970 | | | intercept (b) = -0.02496 | | |
| coefficient (r) = 0.99999 | | | coefficient (r) = 0.99999 | | |

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

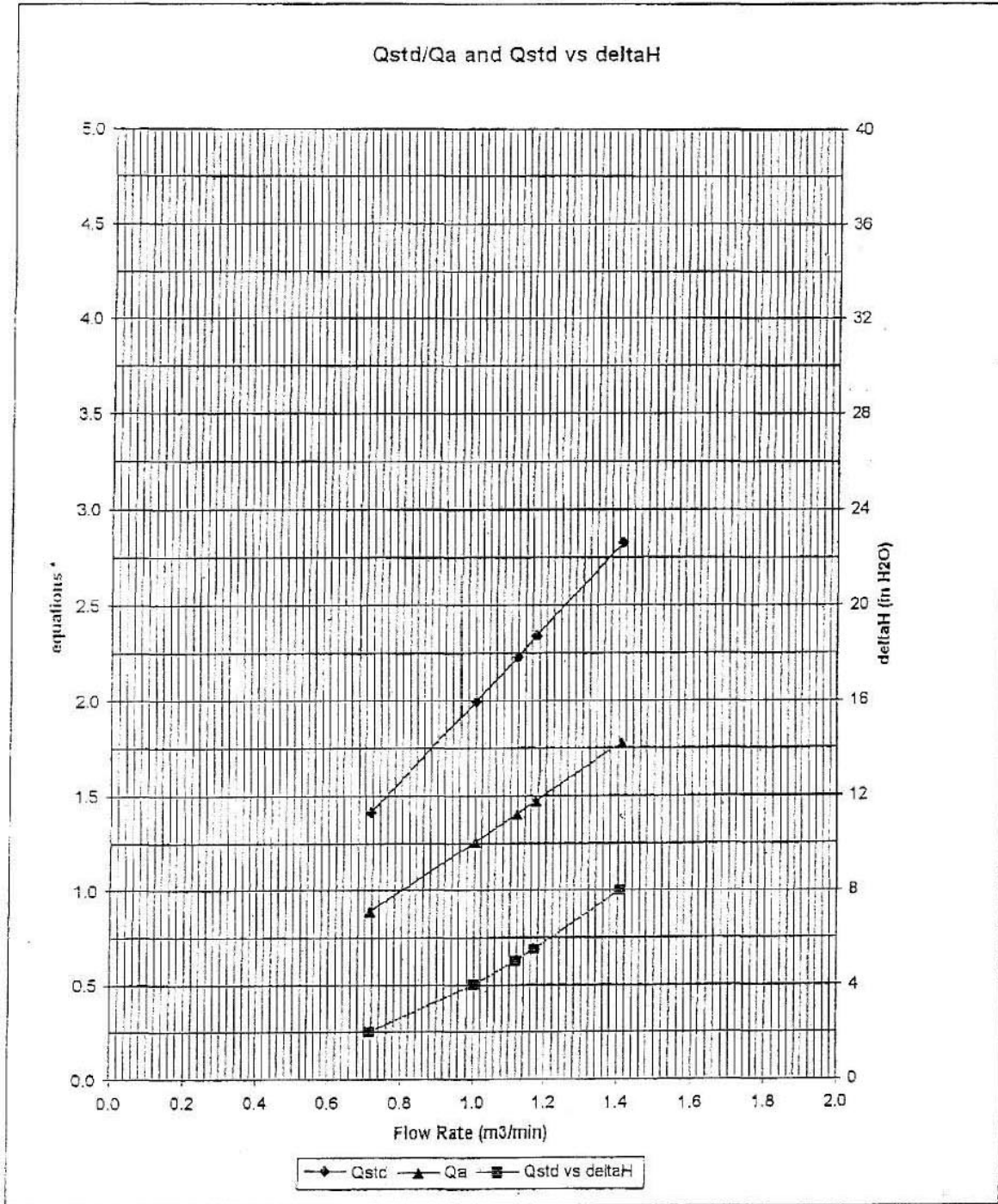
For subsequent flow rate calculations:

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



TISCH ENVIRONMENTAL, INC.
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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:
$$\sqrt{(\Delta H (T_a / P_a))}$$

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/N/71213/1 |
| Date of Issue: | 2007-12-14 |
| Date Received: | 2007-12-13 |
| Date Tested: | 2007-12-14 |
| Date Completed: | 2007-12-14 |
| Next Due Date: | 2008-12-13 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

| | |
|----------------|---------------------------------|
| Description | : Integrating Sound Level Meter |
| Manufacturer | : Brüel & Kjær |
| Model No. | : B&K 2238 |
| Serial No. | : 2337665 |
| Microphone No. | : 2289749 |
| Equipment No. | : N-01-01 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 20 degree Celsius |
| Relative Humidity | : 60% |

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/N/71116/1 |
| Date of Issue: | 2007-11-16 |
| Date Received: | 2007-11-15 |
| Date Tested: | 2007-11-15 |
| Date Completed: | 2007-11-16 |
| Next Due Date: | 2008-11-15 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

| | |
|----------------|---------------------------------|
| Description | : Integrating Sound Level Meter |
| Manufacturer | : Brüel & Kjær |
| Model No. | : B&K 2238 |
| Serial No. | : 2337666 |
| Microphone No. | : 2289750 |
| Equipment No. | : N-01-02 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 20 degree Celsius |
| Relative Humidity | : 59% |

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1601-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

| | |
|------------------|-------------|
| Test Report No.: | C/N/70903-1 |
| Date of Issue: | 2007-09-03 |
| Date Received: | 2007-09-01 |
| Date Tested: | 2007-09-03 |
| Date Completed: | 2007-09-03 |
| Next Due Date: | 2008-09-02 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

| | |
|----------------|---------------------------------|
| Description | : Integrating Sound Level Meter |
| Manufacturer | : Brüel & Kjær |
| Model No. | : B&K 2238 |
| Serial No. | : 2359311 |
| Microphone No. | : 2346382 |
| Equipment No. | : N-01-03 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 22 degree Celsius |
| Relative Humidity | : 62% |

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

| | |
|------------------|-------------|
| Test Report No.: | C/N/70903-2 |
| Date of Issue: | 2007-09-03 |
| Date Received: | 2007-09-01 |
| Date Tested: | 2007-09-03 |
| Date Completed: | 2007-09-03 |
| Next Due Date: | 2008-09-02 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

| | |
|---------------|---------------------------------|
| Description | : Integrating Sound Level Meter |
| Manufacturer | : Brüel & Kjær |
| Model No. | : B&K 2238 |
| Serial No. | : 2359303 |
| Equipment No. | : N-01-04 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 22 degree Celsius |
| Relative Humidity | : 62% |

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/N/71015/1 |
| Date of Issue: | 2007-10-15 |
| Date Received: | 2007-10-13 |
| Date Tested: | 2007-10-13 |
| Date Completed: | 2007-10-15 |
| Next Due Date: | 2008-10-14 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Certificate of Calibration

Item for calibration:

| | |
|----------------|---------------------------------|
| Description | : Integrating Sound Level Meter |
| Manufacturer | : Brüel & Kjær |
| Model No. | : B&K 2238 |
| Serial No. | : 2394976 |
| Microphone No. | : 2407349 |
| Equipment No. | : N-01-05 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 21 degree Celsius |
| Relative Humidity | : 60% |

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/N/71116/2 |
| Date of Issue: | 2007-11-16 |
| Date Received: | 2007-11-15 |
| Date Tested: | 2007-11-15 |
| Date Completed: | 2007-11-16 |
| Next Due Date: | 2008-11-15 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Item for calibration:

| | |
|---------------|-------------------------|
| Description | : Acoustical Calibrator |
| Manufacturer | : Brüel & Kjær |
| Model No. | : 4231 |
| Serial No. | : 2326353 |
| Project No. | : C13 |
| Equipment No. | : N-02-01 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 20 degree Celsius |
| Relative Humidity | : 59% |
| Pressure | : 1015.2 hPa |

Methodology:

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

Results:

| Sound Pressure Level | Measured SPL | Tolerance |
|----------------------|--------------|---------------|
| At 94 dB SPL | 94.0 | 94.0 ± 0.1 dB |

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Senior Chemist

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|------------|
| Test Report No.: | C/06/80305 |
| Date of Issue: | 2008-03-05 |
| Date Received: | 2008-03-03 |
| Date Tested: | 2008-03-03 |
| Date Completed: | 2008-03-05 |
| Next Due Date: | 2009-03-04 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Item for calibration:

| | |
|---------------|-------------------------|
| Description | : Acoustical Calibrator |
| Manufacturer | : Brüel & Kjær |
| Model No. | : 4231 |
| Serial No. | : 2343007 |
| Project No. | : C13 |
| Equipment No. | : N-02-02 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 20 degree Celsius |
| Relative Humidity | : 65% |
| Pressure | : 1020.1hPa |

Methodology:

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

Results:

| Sound Pressure Level | Measured SPL | Tolerance |
|----------------------|--------------|---------------|
| At 94 dB SPL | 94.0 | 94.0 ± 0.2 dB |

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT

APPLICANT: Cinotech Consultants Limited
1602-1610 Delta House,
3 On Yiu Street,
Shatin, N.T.

| | |
|------------------|-------------|
| Test Report No.: | C/N/70903-3 |
| Date of Issue: | 2007-09-03 |
| Date Received: | 2007-09-01 |
| Date Tested: | 2007-09-03 |
| Date Completed: | 2007-09-03 |
| Next Due Date: | 2008-09-02 |

ATTN: Mr. Henry Leung

Page: 1 of 1

Item for calibration:

| | |
|---------------|-------------------------|
| Description | : Acoustical Calibrator |
| Manufacturer | : Brüel & Kjær |
| Model No. | : 4231 |
| Serial No. | : 2412367 |
| Equipment No. | : N-02-03 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 22 degree Celsius |
| Relative Humidity | : 62% |

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Senior Chemist

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/W/80505-1 |
| Date of Issue: | 2008-05-06 |
| Date Received: | 2008-05-05 |
| Date Tested: | 2008-05-05 |
| Date Completed: | 2008-05-06 |
| Next Due Date: | 2008-08-05 |

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

| | |
|---------------|---|
| Description | : Sonde Environmental Monitoring System |
| Manufacturer | : YSI |
| Model No. | : 6820-C-M |
| Serial No. | : 02D0126AA |
| Equipment No. | : W.03.01 |
| Project No. | : C013 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 21 degree Celsius |
| Relative Humidity | : 62% |

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 05A1209
1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution
Dissolved Oxygen Sensor, Model: 6562, S/N: 04A0145
1. Performance check against Winkler titration
Turbidity Sensor, Model: 6136, S/N: 05A1610AJ
1. Calibration check with Formazin standard solution
pH Meter, Model: 6561, S/N: 01J
1. Calibration check with standard pH buffer
Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

| | |
|------------------|-------------|
| Test Report No.: | C/W/80505-1 |
| Date of Issue: | 2008-05-06 |
| Date Received: | 2008-05-05 |
| Date Tested: | 2008-05-05 |
| Date Completed: | 2008-05-06 |
| Next Due Date: | 2008-08-05 |
| Page: | 2 of 2 |

Results:

1. Conductivity performance check

| Specific Conductivity, $\mu\text{S}/\text{cm}$ | | Correction, $\mu\text{S}/\text{cm}$ | Acceptable range |
|--|------------------------|-------------------------------------|------------------|
| Salinity Meter (C1) | Theoretical Value (C2) | $D = C1 - C2$ | |
| 1421 | 1420 | 2 | 1420 ± 20 |

2. Salinity Performance check

| Salinity, ppt | | Correction, ppt | Acceptable range |
|--------------------|-------------------|-----------------|------------------|
| Instrument Reading | Theoretical Value | | |
| 30.0 | 30.0 | 0.0 | 30.0 ± 3 |

3. Dissolved Oxygen check

| Oxygen level in water at 20°C | Dissolved Oxygen, mg O ₂ /L | | Correction, mg O ₂ /L | Acceptable range |
|-------------------------------|--|-------------------|----------------------------------|------------------|
| | D.O. Meter | Winkler Titration | | |
| Saturated | 9.1 | 9.1 | 0.0 | ± 0.2 |
| Half-saturated | 5.6 | 5.6 | 0.0 | ± 0.2 |
| Zero | 0.0 | 0.0 | 0.0 | ± 0.2 |

4. Turbidity check

| Turbidity value in solution, NTU | Calibration Value, NTU | Correction, NTU | Acceptable range |
|----------------------------------|------------------------|-----------------|------------------|
| 0.00 | 0.00 | 0.00 | 0.00 ± 0.05 |
| 100 | 100 | 0 | 100 ± 5 |

5. pH Meter check

| Test Parameters | Performance characteristic | Acceptable range |
|---|----------------------------|------------------|
| Liquid junction error ΔpH_l , pH unit | 0.01 | Less than 0.05 |
| Shift on stirring ΔpH_s , pH unit | 0.01 | Less than 0.02 |
| Noise ΔpH_n , pH unit | 0.00 | Less than 0.02 |

6. Depth Meter check

| Instrument Reading, m | Calibration Value, m | Correction, m | Acceptable range |
|-----------------------|----------------------|---------------|------------------|
| 1.0 | 1.00 | 0.00 | 1.00 ± 0.05 |

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/W/80805-1 |
| Date of Issue: | 2008-08-06 |
| Date Received: | 2008-08-05 |
| Date Tested: | 2008-08-05 |
| Date Completed: | 2008-08-06 |
| Next Due Date: | 2008-11-05 |

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

| | |
|---------------|---|
| Description | : Sonde Environmental Monitoring System |
| Manufacturer | : YSI |
| Model No. | : 6820-C-M |
| Serial No. | : 02D0126AA |
| Equipment No. | : W.03.01 |
| Project No. | : C013 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 23 degree Celsius |
| Relative Humidity | : 63% |

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 05A1209

1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution

Dissolved Oxygen Sensor, Model: 6562, S/N: 04A0145

1. Performance check against Winkler titration

Turbidity Sensor, Model: 6136, S/N: 05A1610AJ

1. Calibration check with Formazin standard solution

pH Meter, Model: 6561, S/N: 01J

1. Calibration check with standard pH buffer

Depth Meter

1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TEST REPORT

| | |
|------------------|-------------|
| Test Report No.: | C/W/80805-1 |
| Date of Issue: | 2008-08-06 |
| Date Received: | 2008-08-05 |
| Date Tested: | 2008-08-05 |
| Date Completed: | 2008-08-06 |
| Next Due Date: | 2008-11-05 |

Page: 2 of 2

Results:

1. Conductivity performance check

| Specific Conductivity, $\mu\text{S}/\text{cm}$ | | Correction, $\mu\text{S}/\text{cm}$ | Acceptable range |
|--|------------------------|-------------------------------------|------------------|
| Salinity Meter (C1) | Theoretical Value (C2) | $D = C1 - C2$ | |
| 1421 | 1420 | 2 | 1420 ± 20 |

2. Salinity Performance check

| Salinity, ppt | | Correction, ppt | Acceptable range |
|--------------------|-------------------|-----------------|------------------|
| Instrument Reading | Theoretical Value | | |
| 30.0 | 30.0 | 0.0 | 30.0 ± 3 |

3. Dissolved Oxygen check

| Oxygen level in water at 20°C | Dissolved Oxygen, mg O ₂ /L | | Correction, mg O ₂ /L | Acceptable range |
|-------------------------------|--|-------------------|----------------------------------|------------------|
| | D.O. Meter | Winkler Titration | | |
| Saturated | 9.1 | 9.1 | 0.0 | ± 0.2 |
| Half-saturated | 5.6 | 5.6 | 0.0 | ± 0.2 |
| Zero | 0.0 | 0.0 | 0.0 | ± 0.2 |

4. Turbidity check

| Turbidity value in solution, NTU | Calibration Value, NTU | Correction, NTU | Acceptable range |
|----------------------------------|------------------------|-----------------|------------------|
| 0.00 | 0.00 | 0.00 | 0.00 ± 0.05 |
| 100 | 100 | 0 | 100 ± 5 |

5. pH Meter check

| Test Parameters | Performance characteristic | Acceptable range |
|---|----------------------------|------------------|
| Liquid junction error ΔpH_l , pH unit | 0.01 | Less than 0.05 |
| Shift on stirring ΔpH_s , pH unit | 0.01 | Less than 0.02 |
| Noise ΔpH_n , pH unit | 0.00 | Less than 0.02 |

6. Depth Meter check

| Instrument Reading, m | Calibration Value, m | Correction, m | Acceptable range |
|-----------------------|----------------------|---------------|------------------|
| 1.0 | 1.00 | 0.00 | 1.00 ± 0.05 |

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/W/80505-2 |
| Date of Issue: | 2008-05-06 |
| Date Received: | 2008-05-05 |
| Date Tested: | 2008-05-05 |
| Date Completed: | 2008-05-06 |
| Next Due Date: | 2008-08-05 |

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

| | |
|---------------|---|
| Description | : Sonde Environmental Monitoring System |
| Manufacturer | : YSI |
| Model No. | : 6820-C-M |
| Serial No. | : 02D0293AA |
| Equipment No. | : W.03.02 |
| Project No. | : C013 |

Test conditions:

| | |
|-------------------|---------------------|
| Room Temperature | : 21 degree Celsius |
| Relative Humidity | : 62% |

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 02C0886

1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution

Dissolved Oxygen Sensor, Model: 6562, S/N: 0261137

1. Performance check against Winkler titration

Turbidity Sensor, Model: 6136, S/N: 05F2030AQ

1. Calibration check with Formazin standard solution

pH Meter, Model: 6561, S/N: 02A

1. Calibration check with standard pH buffer

Depth Meter

1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT

| | |
|------------------|-------------|
| Test Report No.: | C/W/80505-2 |
| Date of Issue: | 2008-05-06 |
| Date Received: | 2008-05-05 |
| Date Tested: | 2008-05-05 |
| Date Completed: | 2008-05-06 |
| Next Due Date: | 2008-08-05 |
| Page: | 2 of 2 |

Results:

1. Conductivity performance check

| Specific Conductivity, $\mu\text{S}/\text{cm}$ | | Correction, $\mu\text{S}/\text{cm}$ | Acceptable range |
|--|------------------------|-------------------------------------|------------------|
| Salinity Meter (C1) | Theoretical Value (C2) | $D = C1 - C2$ | |
| 1420 | 1420 | 0 | 1420 ± 20 |

2. Salinity Performance check

| Salinity, ppt | | Correction, ppt | Acceptable range |
|--------------------|-------------------|-----------------|------------------|
| Instrument Reading | Theoretical Value | | |
| 30.1 | 30.0 | 0.1 | 30.0 ± 3 |

3. Dissolved Oxygen check

| Oxygen level in water at 20°C | Dissolved Oxygen, mg O ₂ /L | | Correction, mg O ₂ /L | Acceptable range |
|-------------------------------|--|-------------------|----------------------------------|------------------|
| | D.O. Meter | Winkler Titration | | |
| Saturated | 9.0 | 9.0 | 0.0 | ± 0.2 |
| Half-saturated | 5.8 | 5.8 | 0.0 | ± 0.2 |
| Zero | 0.0 | 0.0 | 0.0 | ± 0.2 |

4. Turbidity check

| Turbidity value in solution, NTU | Calibration Value, NTU | Correction, NTU | Acceptable range |
|----------------------------------|------------------------|-----------------|------------------|
| 0.00 | 0.00 | 0.00 | 0.00 ± 0.05 |
| 100 | 100 | 0 | 100 ± 5 |

5. pH Meter check

| Test Parameters | Performance characteristic | Acceptable range |
|---|----------------------------|------------------|
| Liquid junction error ΔpH_l , pH unit | 0.01 | Less than 0.05 |
| Shift on stirring ΔpH_s , pH unit | 0.01 | Less than 0.02 |
| Noise ΔpH_n , pH unit | 0.01 | Less than 0.02 |

6. Depth Meter check

| Instrument Reading, m | Calibration Value, m | Correction, m | Acceptable range |
|-----------------------|----------------------|---------------|------------------|
| 1.0 | 1.00 | 0.00 | 1.00 ± 0.05 |

*****END OF REPORT*****

TEST REPORT

APPLICANT: Cinotech Consultants Limited
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

| | |
|------------------|-------------|
| Test Report No.: | C/W/80805-2 |
| Date of Issue: | 2008-08-06 |
| Date Received: | 2008-08-05 |
| Date Tested: | 2008-08-05 |
| Date Completed: | 2008-08-06 |
| Next Due Date: | 2008-11-05 |

ATTN: Mr. Henry Leung

Page: 1 of 2

Certificate of Calibration

Item for calibration:

Description : Sonde Environmental Monitoring System
Manufacturer : YSI
Model No. : 6820-C-M
Serial No. : 02D0293AA
Equipment No. : W.03.02
Project No. : C013

Test conditions:

Room Temperature : 23 degree Celsius
Relative Humidity : 63%

Test Specifications:

Conductivity & Salinity Sensor, Model: 6560, S/N: 02C0886
1. Conductivity performance check with Potassium Chloride standard solution
2. Salinity performance check with Sodium Chloride standard solution
Dissolved Oxygen Sensor, Model: 6562, S/N: 0261137
1. Performance check against Winkler titration
Turbidity Sensor, Model: 6136, S/N: 05F2030AQ
1. Calibration check with Formazin standard solution
pH Meter, Model: 6561, S/N: 02A
1. Calibration check with standard pH buffer
Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. YSI 6-Series Sonde Environmental Monitoring System Instruction Manual
2. In-house method with reference to APHA and ISO standards

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT

| | |
|------------------|-------------|
| Test Report No.: | C/W/80805-2 |
| Date of Issue: | 2008-08-06 |
| Date Received: | 2008-08-05 |
| Date Tested: | 2008-08-05 |
| Date Completed: | 2008-08-06 |
| Next Due Date: | 2008-11-05 |

Page: 2 of 2

Results:

1. Conductivity performance check

| Specific Conductivity, $\mu\text{S}/\text{cm}$ | | Correction, $\mu\text{S}/\text{cm}$ | Acceptable range |
|--|------------------------|-------------------------------------|------------------|
| Salinity Meter (C1) | Theoretical Value (C2) | $D = C1 - C2$ | |
| 1420 | 1420 | 0 | 1420 ± 20 |

2. Salinity Performance check

| Salinity, ppt | | Correction, ppt | Acceptable range |
|--------------------|-------------------|-----------------|------------------|
| Instrument Reading | Theoretical Value | | |
| 30.1 | 30.0 | 0.1 | 30.0 ± 3 |

3. Dissolved Oxygen check

| Oxygen level in water at 20°C | Dissolved Oxygen, mg O ₂ /L | | Correction, mg O ₂ /L | Acceptable range |
|-------------------------------|--|-------------------|----------------------------------|------------------|
| | D.O. Meter | Winkler Titration | | |
| Saturated | 9.0 | 9.0 | 0.0 | ± 0.2 |
| Half-saturated | 5.8 | 5.8 | 0.0 | ± 0.2 |
| Zero | 0.0 | 0.0 | 0.0 | ± 0.2 |

4. Turbidity check

| Turbidity value in solution, NTU | Calibration Value, NTU | Correction, NTU | Acceptable range |
|----------------------------------|------------------------|-----------------|------------------|
| 0.00 | 0.00 | 0.00 | 0.00 ± 0.05 |
| 100 | 100 | 0 | 100 ± 5 |

5. pH Meter check

| Test Parameters | Performance characteristic | Acceptable range |
|---|----------------------------|------------------|
| Liquid junction error ΔpH_l , pH unit | 0.01 | Less than 0.05 |
| Shift on stirring ΔpH_s , pH unit | 0.01 | Less than 0.02 |
| Noise ΔpH_n , pH unit | 0.01 | Less than 0.02 |

6. Depth Meter check

| Instrument Reading, m | Calibration Value, m | Correction, m | Acceptable range |
|-----------------------|----------------------|---------------|------------------|
| 1.0 | 1.00 | 0.00 | 1.00 ± 0.05 |

*****END OF REPORT*****

**APPENDIX C
ENVIRONMENTAL MONITORING
SCHEDULES**

**Contract No. HY/2003/19 - Improvement to Tung chung Road between Lung Tseng Tau and Cheung Sha
Air, Noise and Water Quality Monitoring Schedule for August 2008**

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

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

**Contract No. HY/2003/19 - Improvement to Tung chung Road between Lung Tseng Tau and Cheung Sha
Tentative Air, Noise and Water Quality Monitoring Schedule for September 2008**

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------------|----------------------------|---------------|------------------------|-----------|----------------------------|-----------|
| 31-Aug | 1-Sep | 2-Sep | 3-Sep | 4-Sep | 5-Sep | 6-Sep |
| | Water Quality | 24 hr TSP | Water Quality Noise | | Water Quality | |
| 7-Sep | 8-Sep | 9-Sep | 10-Sep | 11-Sep | 12-Sep | 13-Sep |
| | Water Quality 24 hr TSP | | Water Quality Noise | | Water Quality | 24 hr TSP |
| 14-Sep | 15-Sep | 16-Sep | 17-Sep | 18-Sep | 19-Sep | 20-Sep |
| | | Water Quality | Water Quality Noise | | Water Quality 24 hr TSP | |
| 21-Sep | 22-Sep | 23-Sep | 24-Sep | 25-Sep | 26-Sep | 27-Sep |
| | Water Quality | | Water Quality Noise | 24 hr TSP | Water Quality | |
| 28-Sep | 29-Sep | 30-Sep | 1-Oct | 2-Oct | 3-Oct | 4-Oct |
| | Water Quality | | | | | |

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

**APPENDIX D
24-HOUR TSP MONITORING
RESULTS ,GRAPHICAL
PRESENTATION AND WIND DATA**

Appendix D - 24-hour TSP Monitoring Results

Location AM1 - YMCA of Hong Kong Christian College

| Date | Filter Weight (g) | | Flow Rate (m ³ /min.) | | Elapse Time | | Sampling Time(hrs.) | Conc. (µg/m ³) | Weather Condition | Air Temp. (K) | Atmospheric Pressure(Pa) | Particulate weight(g) | Av. flow (m ³ /min) | Total vol. (m ³) |
|-----------|-------------------|--------|----------------------------------|-------|-------------|--------|---------------------|----------------------------|-------------------|---------------|--------------------------|-----------------------|--------------------------------|------------------------------|
| | Initial | Final | Initial | Final | Initial | Final | | | | | | | | |
| 4-Aug-08 | 2.8406 | 2.8979 | 1.22 | 1.22 | 3941.7 | 3965.7 | 24.0 | 32.7 | Cloudy | 302.5 | 756.2 | 0.0573 | 1.22 | 1755.0 |
| 9-Aug-08 | 2.8649 | 2.8865 | 1.22 | 1.22 | 3965.7 | 3989.7 | 24.0 | 12.3 | Cloudy | 299.3 | 755.9 | 0.0216 | 1.22 | 1751.5 |
| 15-Aug-08 | 2.7997 | 2.8480 | 1.21 | 1.21 | 3989.7 | 4013.7 | 24.0 | 27.7 | Sunshine | 302.3 | 756.5 | 0.0483 | 1.21 | 1744.5 |
| 21-Aug-08 | 2.8933 | 2.9566 | 1.21 | 1.21 | 4013.7 | 4037.7 | 24.0 | 36.3 | Cloudy | 302.3 | 756.6 | 0.0633 | 1.21 | 1744.5 |
| 27-Aug-08 | 2.8020 | 2.8363 | 1.22 | 1.22 | 4037.7 | 4061.7 | 24.0 | 19.6 | Sunshine | 301.6 | 760.7 | 0.0343 | 1.22 | 1750.5 |
| | | | | | | | Min | 12.3 | | | | | | |
| | | | | | | | Max | 36.3 | | | | | | |
| | | | | | | | Average | 25.7 | | | | | | |

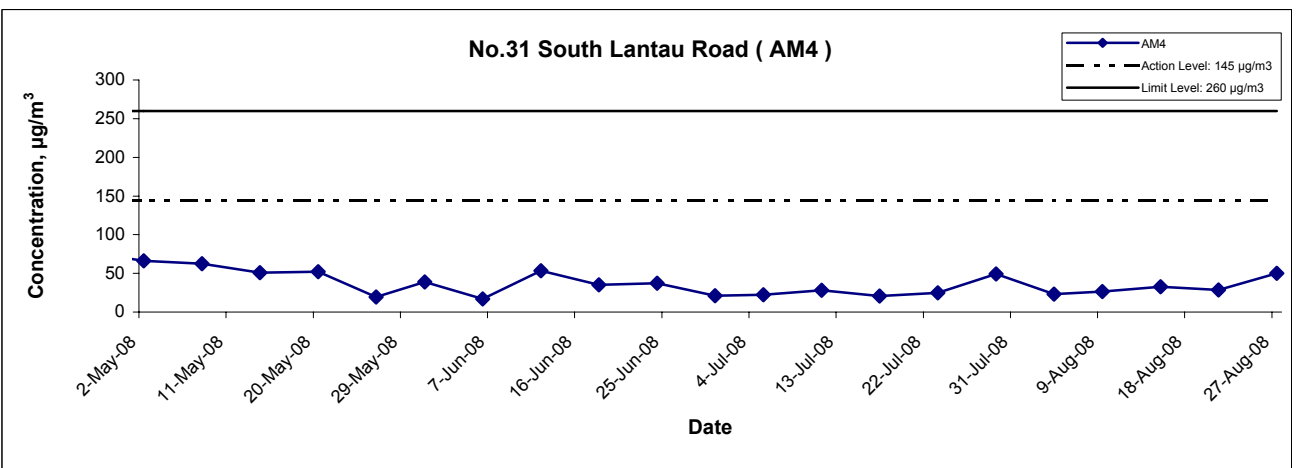
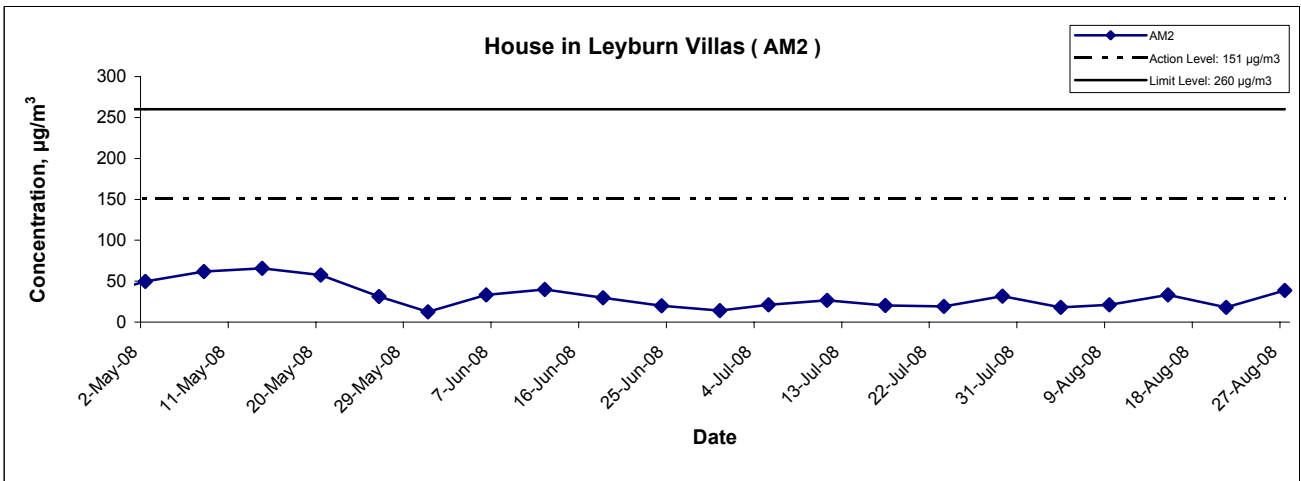
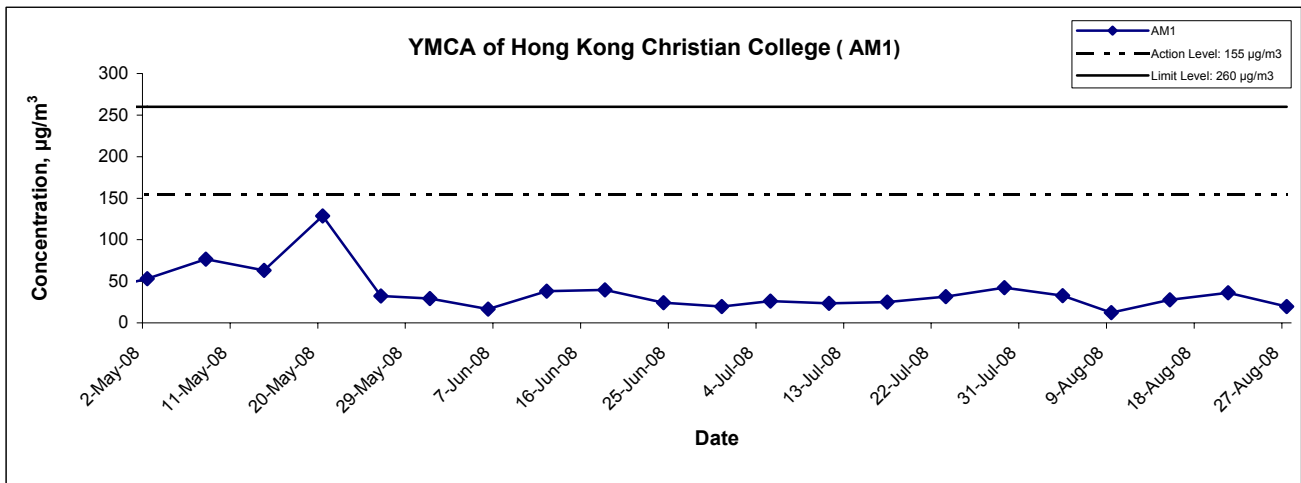
Location AM2 - House in Leyburn Villas

| Date | Filter Weight (g) | | Flow Rate (m ³ /min.) | | Elapse Time | | Sampling Time(hrs.) | Conc. (µg/m ³) | Weather Condition | Air Temp. (K) | Atmospheric Pressure(Pa) | Particulate weight(g) | Av. flow (m ³ /min) | Total vol. (m ³) |
|-----------|-------------------|--------|----------------------------------|-------|-------------|--------|---------------------|----------------------------|-------------------|---------------|--------------------------|-----------------------|--------------------------------|------------------------------|
| | Initial | Final | Initial | Final | Initial | Final | | | | | | | | |
| 4-Aug-08 | 2.8402 | 2.8714 | 1.22 | 1.22 | 8735.3 | 8759.3 | 24.0 | 17.8 | Cloudy | 302.5 | 756.2 | 0.0312 | 1.22 | 1752.0 |
| 9-Aug-08 | 2.8443 | 2.8815 | 1.22 | 1.22 | 8759.3 | 8783.3 | 24.0 | 21.2 | Cloudy | 299.3 | 755.9 | 0.0372 | 1.22 | 1751.5 |
| 15-Aug-08 | 2.8023 | 2.8602 | 1.21 | 1.21 | 8783.3 | 8807.3 | 24.0 | 33.2 | Sunshine | 302.3 | 756.5 | 0.0579 | 1.21 | 1744.3 |
| 21-Aug-08 | 2.8466 | 2.8782 | 1.21 | 1.21 | 8807.3 | 8831.3 | 24.0 | 18.1 | Cloudy | 302.3 | 756.6 | 0.0316 | 1.21 | 1744.3 |
| 27-Aug-08 | 2.8077 | 2.8757 | 1.22 | 1.22 | 8831.3 | 8855.3 | 24.0 | 38.8 | Sunshine | 301.6 | 760.7 | 0.0680 | 1.22 | 1750.5 |
| | | | | | | | Min | 17.8 | | | | | | |
| | | | | | | | Max | 38.8 | | | | | | |
| | | | | | | | Average | 25.8 | | | | | | |

Location AM4 - No.31 South Lantau Road

| Date | Filter Weight (g) | | Flow Rate (m ³ /min.) | | Elapse Time | | Sampling Time(hrs.) | Conc. (µg/m ³) | Weather Condition | Air Temp. (K) | Atmospheric Pressure(Pa) | Particulate weight(g) | Av. flow (m ³ /min) | Total vol. (m ³) |
|-----------|-------------------|--------|----------------------------------|-------|-------------|--------|---------------------|----------------------------|-------------------|---------------|--------------------------|-----------------------|--------------------------------|------------------------------|
| | Initial | Final | Initial | Final | Initial | Final | | | | | | | | |
| 4-Aug-08 | 2.8552 | 2.8957 | 1.22 | 1.22 | 8590.5 | 8614.5 | 24.0 | 23.1 | Cloudy | 302.5 | 756.2 | 0.0405 | 1.22 | 1756.0 |
| 9-Aug-08 | 2.8087 | 2.8552 | 1.22 | 1.22 | 8614.5 | 8638.5 | 24.0 | 26.5 | Cloudy | 299.3 | 755.9 | 0.0465 | 1.22 | 1757.6 |
| 15-Aug-08 | 2.7830 | 2.8399 | 1.22 | 1.22 | 8638.5 | 8662.5 | 24.0 | 32.5 | Sunshine | 302.3 | 756.5 | 0.0569 | 1.22 | 1750.3 |
| 21-Aug-08 | 2.8403 | 2.8906 | 1.22 | 1.22 | 8662.5 | 8686.5 | 24.0 | 28.7 | Cloudy | 302.3 | 756.6 | 0.0503 | 1.22 | 1750.3 |
| 27-Aug-08 | 2.8483 | 2.9362 | 1.22 | 1.22 | 8686.5 | 8710.5 | 24.0 | 50.0 | Sunshine | 301.6 | 760.7 | 0.0879 | 1.22 | 1756.6 |
| | | | | | | | Min | 23.1 | | | | | | |
| | | | | | | | Max | 50.0 | | | | | | |
| | | | | | | | Average | 32.2 | | | | | | |

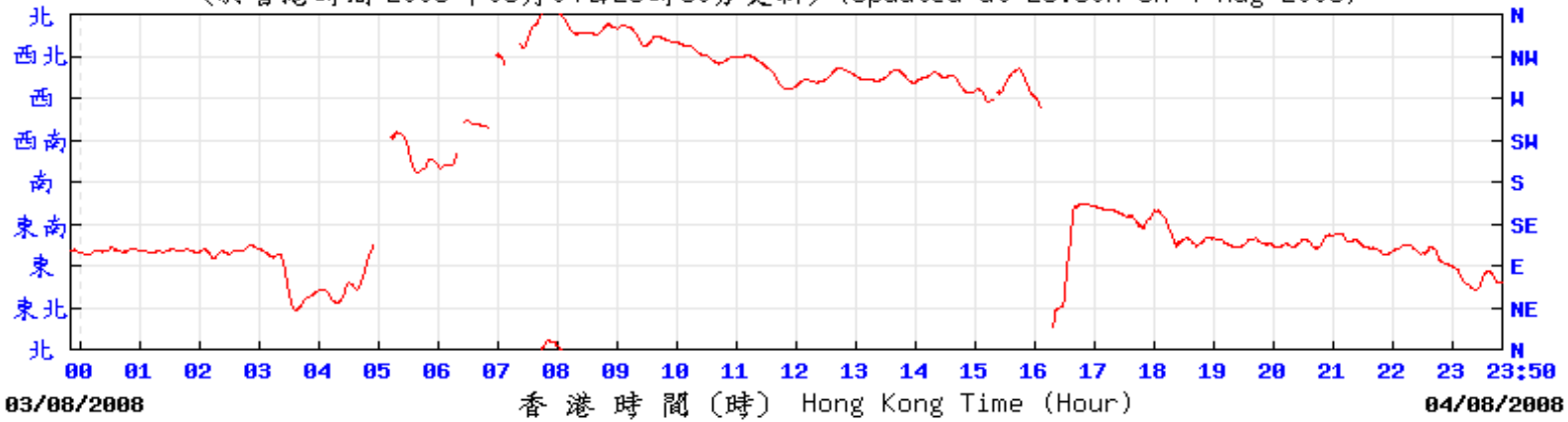
24-hour TSP Levels



| | | | |
|---|----------------|---------------|----------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of 24-hour TSP Monitoring Results | Scale | Project | CINOTECH |
| | N.T.S | No. MA6030 | |
| | Date Aug 08 | Appendix D | |

Wind Data (HK International Airport)

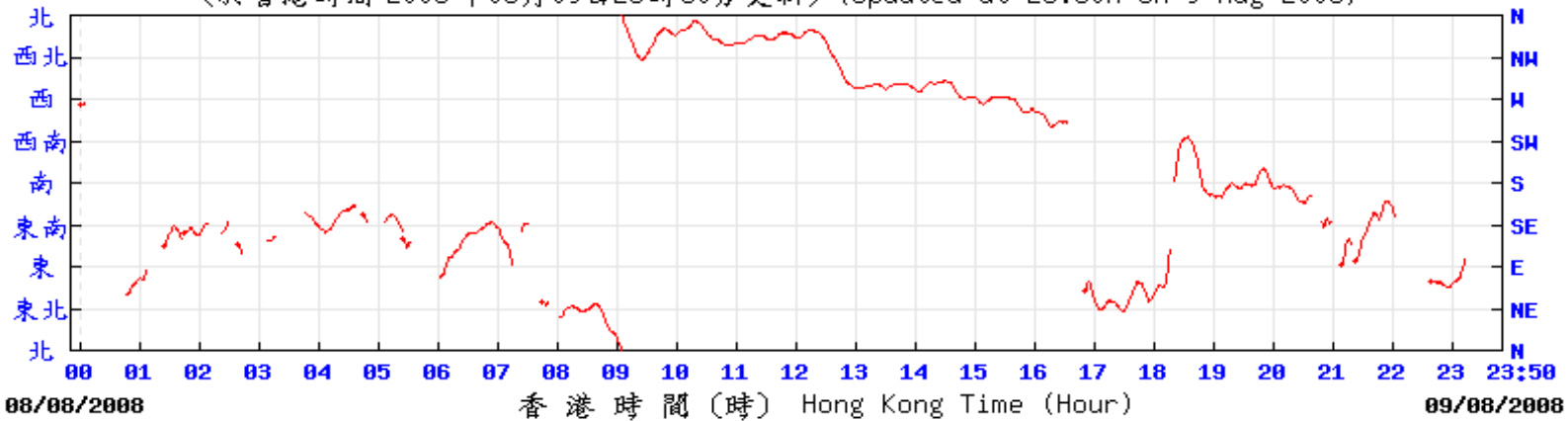
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(於香港時間 2008 年08月09日23時50分更新) (Updated at 23:50H on 9 Aug 2008)



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Title

Contract No. HY/2003/19
Improvement to Tung Chung Road
between Lung Tseng Tau and Cheung Sha

Wind Data Extracted from the Hong Kong Observatory (HK International Airport)

Scale

N.T.S

Date

Aug 08

Project

No. MA6030

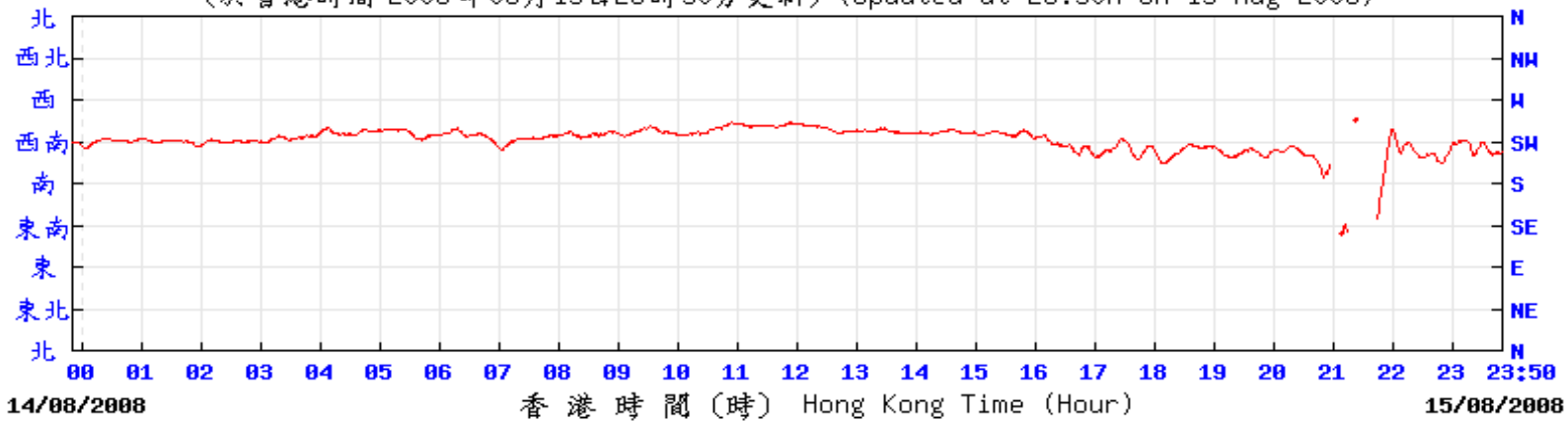
Appendix

D

CINOTECH

Wind Data (HK International Airport)

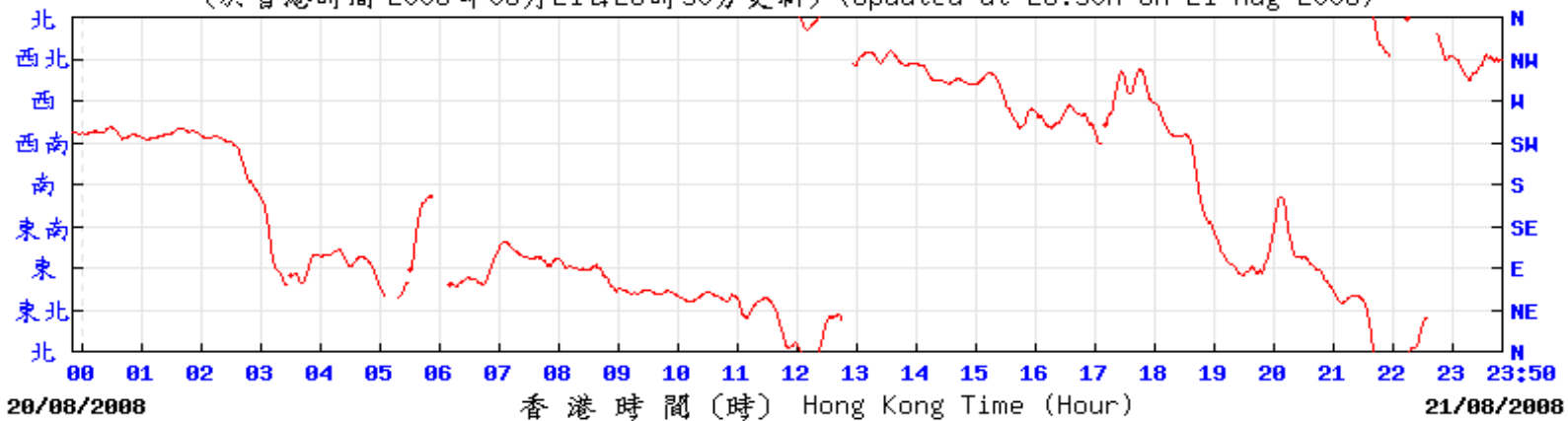
(於香港時間 2008 年08月15日23時50分更新) (Updated at 23:50H on 15 Aug 2008)



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(於香港時間 2008 年08月21日23時50分更新) (Updated at 23:50H on 21 Aug 2008)



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Title

Contract No. HY/2003/19
Improvement to Tung Chung Road
between Lung Tseng Tau and Cheung Sha

Wind Data Extracted from the Hong Kong Observatory (HK International Airport)

Scale

N.T.S

Date

Aug 08

Project

No. MA6030

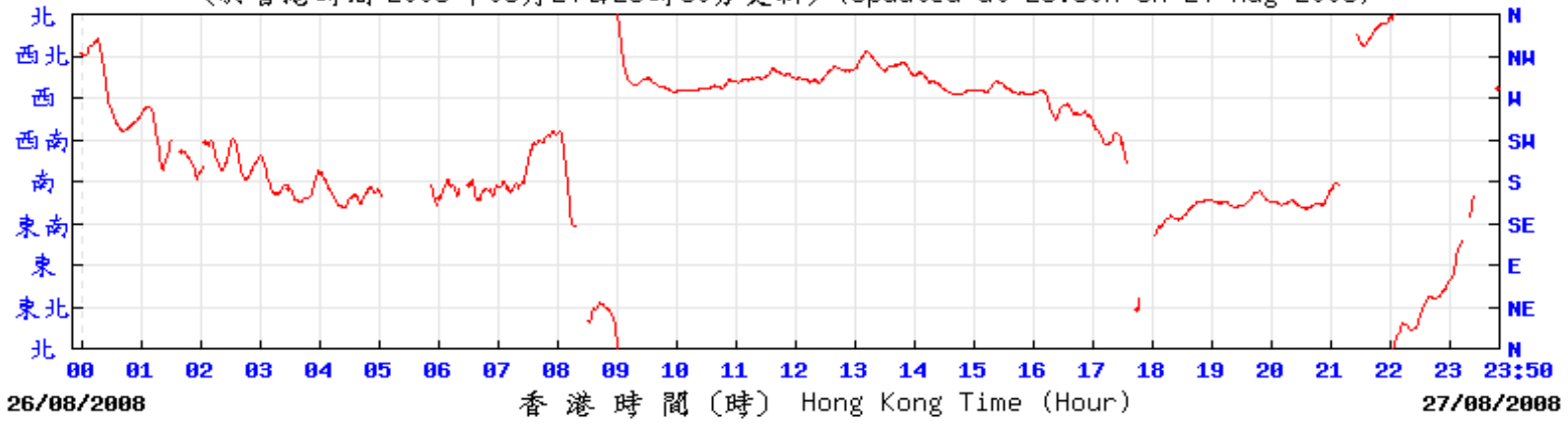
Appendix

D

CINOTECH

Wind Data (HK International Airport)

(於香港時間 2008 年08月27日23時50分更新) (Updated at 23:50H on 27 Aug 2008)



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Title

Contract No. HY/2003/19
Improvement to Tung Chung Road
between Lung Tseng Tau and Cheung Sha

Wind Data Extracted from the Hong Kong Observatory (HK International Airport)

Scale

N.T.S

Date

Aug 08

Project

No. MA6030

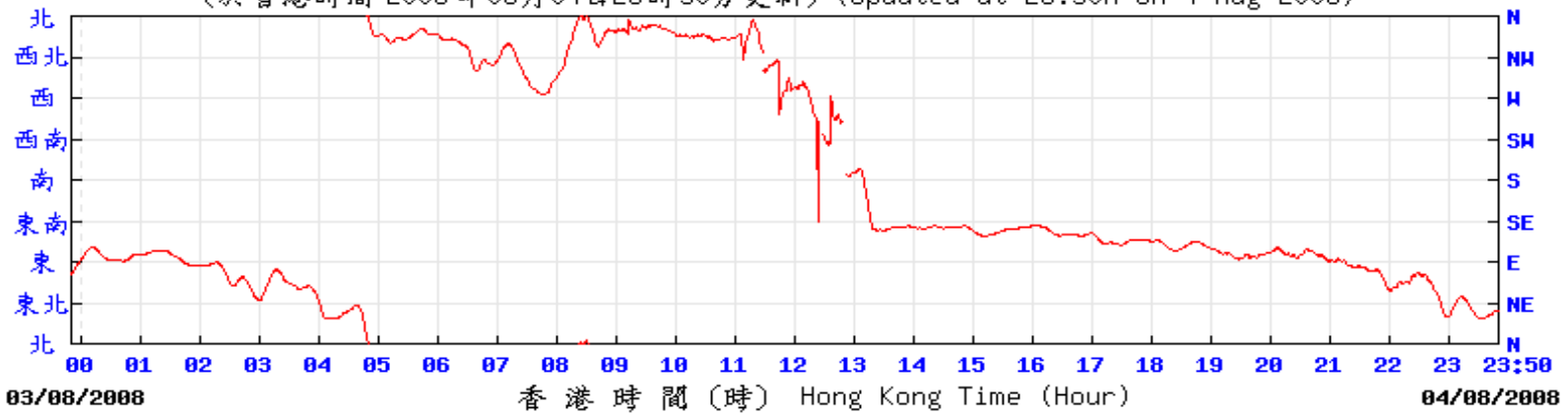
Appendix

D

CINOTECH

Wind Data (Cheung Chau)

(於香港時間 2008 年 08 月 04 日 23 時 50 分更新) (Updated at 23:50H on 4 Aug 2008)



cch

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9 August 2008

"風向" - 現正維修

"Wind Direction" - Under Maintenance.

cch
cch

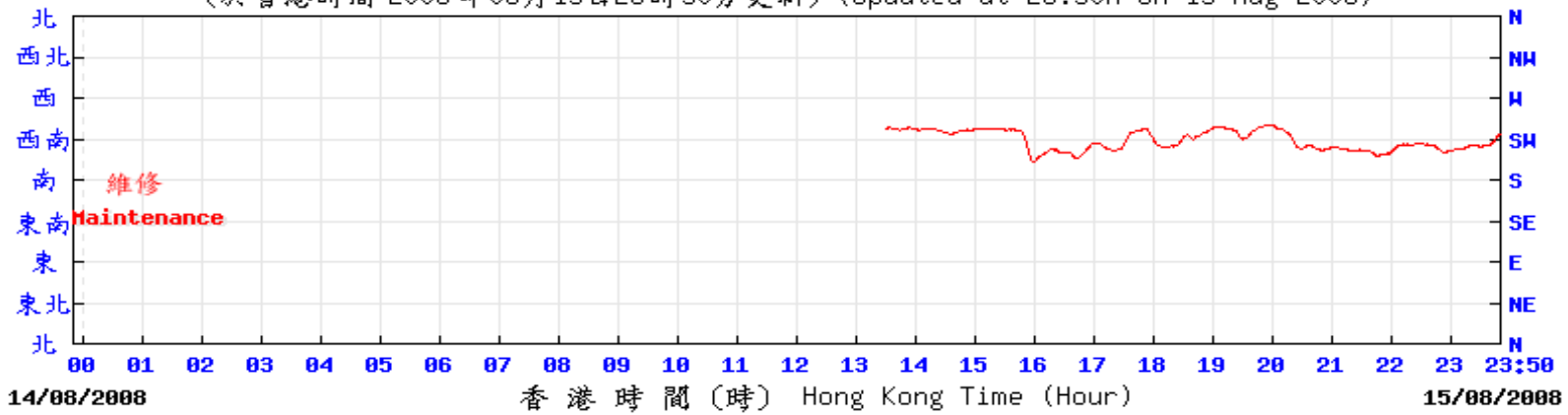
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| | | | | |
|--|--|--------|------------|----------|
| Title | Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha | Scale | Project | CINOTECH |
| | | N.T.S | No. MA6030 | |
| Wind Data Extracted from the Hong Kong Observatory (Cheung Chau) | | Date | Appendix | |
| | | Aug 08 | D | |

Wind Data (Cheung Chau)

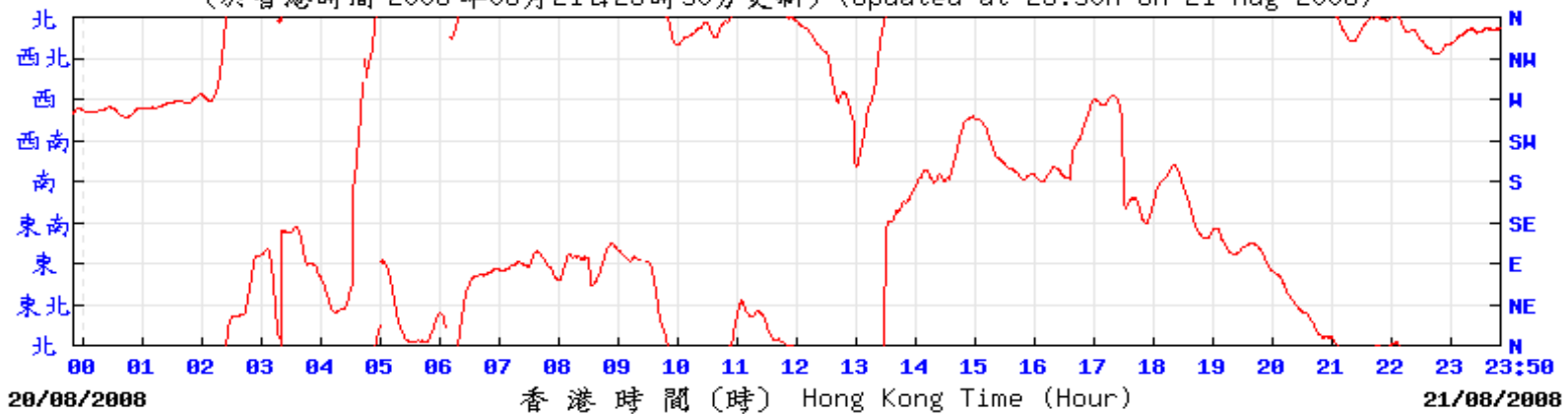
(於香港時間 2008 年08月15日23時50分更新) (Updated at 23:50H on 15 Aug 2008)



cch

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(於香港時間 2008 年08月21日23時50分更新) (Updated at 23:50H on 21 Aug 2008)



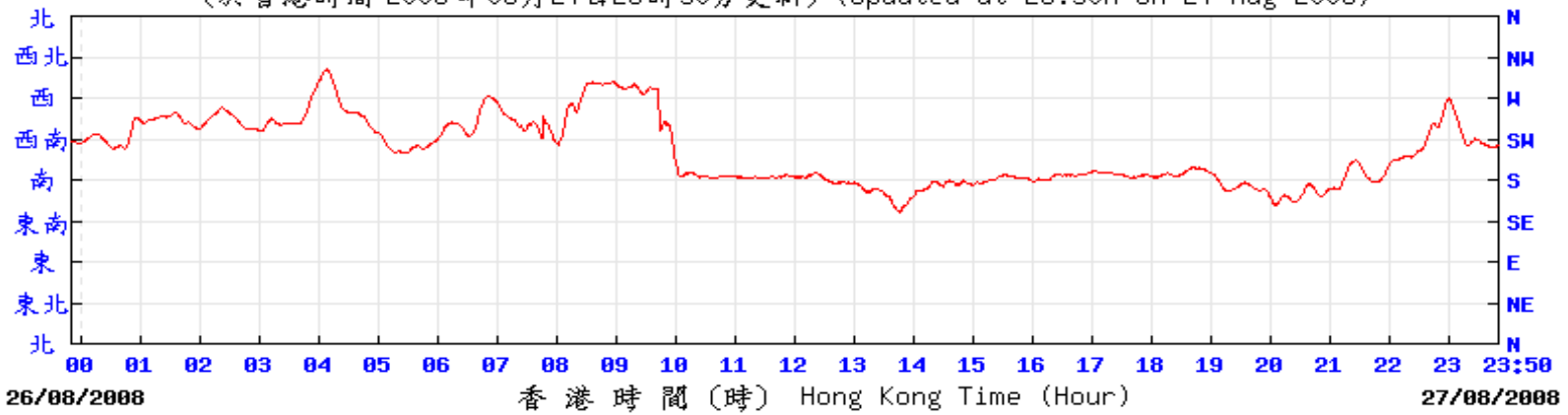
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|-------|--|----------------|-----------------------|----------|
| Title | Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha | Scale N.T.S | Project No. MA6030 | CINOTECH |
| | Wind Data Extracted from the Hong Kong Observatory (Cheung Chau) | Date Aug 08 | Appendix D | |

Wind Data (Cheung Chau)

(於香港時間 2008 年 08 月 27 日 23 時 50 分更新) (Updated at 23:50H on 27 Aug 2008)



26/08/2008

香港時間 (時) Hong Kong Time (Hour)

27/08/2008

cch

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| | | | |
|---|----------------|-----------------------|-----------------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Wind Data Extracted from the Hong Kong Observatory (Cheung Chau) | Scale N.T.S | Project No. MA6030 | CINOTECH |
| | Date Aug 08 | Appendix D | |

**APPENDIX E
NOISE MONITORING RESULTS AND
GRAPHICAL PRESENTATION**

Appendix E - Noise Monitoring Results

| Location NM1 - No. 28 Lung Tseng Tau | | | | | |
|--------------------------------------|-------|---------|-----------------|-----------------|-----------------|
| Date | Time | Weather | dB (A) (30-min) | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ |
| 7-Aug-08 | 09:40 | Cloudy | 63.1 | 65.5 | 61.5 |
| 13-Aug-08 | 09:40 | Fine | 63.2 | 65.5 | 60.5 |
| 20-Aug-08 | 09:40 | Sunny | 63.6 | 65.5 | 62.5 |
| 27-Aug-08 | 09:40 | Sunny | 64.8 | 66.5 | 61.0 |
| | | Average | 63.7 | 65.8 | 61.4 |
| | | Minimum | 63.1 | 65.5 | 60.5 |
| | | Maximum | 64.8 | 66.5 | 62.5 |

| Location NM2 - YMCA of HK Christian College | | | | | |
|---|-------|---------|-----------------|-----------------|-----------------|
| Date | Time | Weather | dB (A) (30-min) | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ |
| 7-Aug-08 | 09:00 | Cloudy | 52.1 | 54.5 | 49.5 |
| 13-Aug-08 | 09:00 | Fine | 51.6 | 53.5 | 48.5 |
| 20-Aug-08 | 09:00 | Sunny | 52.2 | 53.5 | 51.0 |
| 27-Aug-08 | 09:00 | Sunny | 51.6 | 53.5 | 49.5 |
| | | Average | 51.9 | 53.8 | 49.7 |
| | | Minimum | 51.6 | 53.5 | 48.5 |
| | | Maximum | 52.2 | 54.5 | 51.0 |

| Location NM3 - No. 37 Shek Lau Po | | | | | |
|-----------------------------------|-------|---------|-----------------|-----------------|-----------------|
| Date | Time | Weather | dB (A) (30-min) | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ |
| 7-Aug-08 | 10:20 | Cloudy | 40.0 | 41.5 | 38.5 |
| 13-Aug-08 | 10:20 | Fine | 40.2 | 41.5 | 39.0 |
| 20-Aug-08 | 10:20 | Sunny | 39.8 | 40.5 | 39.0 |
| 27-Aug-08 | 10:20 | Sunny | 39.8 | 41.0 | 38.5 |
| | | Average | 40.0 | 41.1 | 38.8 |
| | | Minimum | 39.8 | 40.5 | 38.5 |
| | | Maximum | 40.2 | 41.5 | 39.0 |

| Location NM4 - No.1 Shek Mun Kap | | | | | |
|----------------------------------|-------|---------|-----------------|-----------------|-----------------|
| Date | Time | Weather | dB (A) (30-min) | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ |
| 7-Aug-08 | 11:00 | Cloudy | 51.2 | 53.5 | 49.5 |
| 13-Aug-08 | 11:00 | Fine | 51.1 | 53.5 | 48.5 |
| 20-Aug-08 | 11:00 | Sunny | 51.4 | 52.5 | 48.5 |
| 27-Aug-08 | 11:00 | Sunny | 49.6 | 52.0 | 47.5 |
| | | Average | 51.2 | 53.2 | 48.9 |
| | | Minimum | 49.6 | 52.0 | 47.5 |
| | | Maximum | 51.4 | 53.5 | 49.5 |

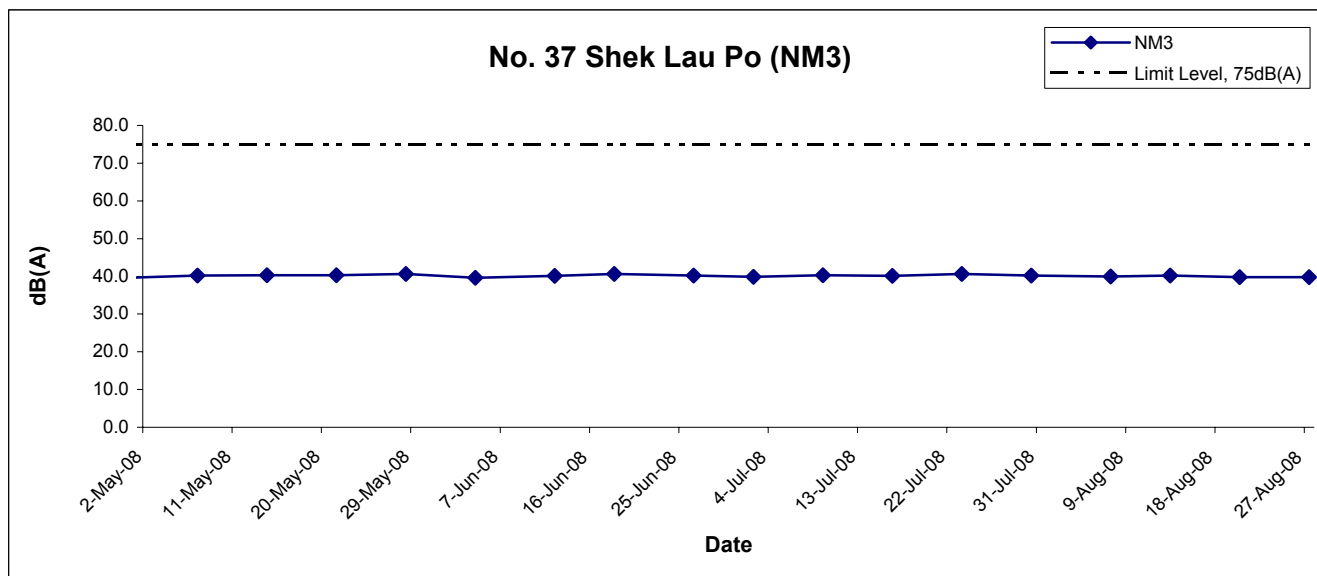
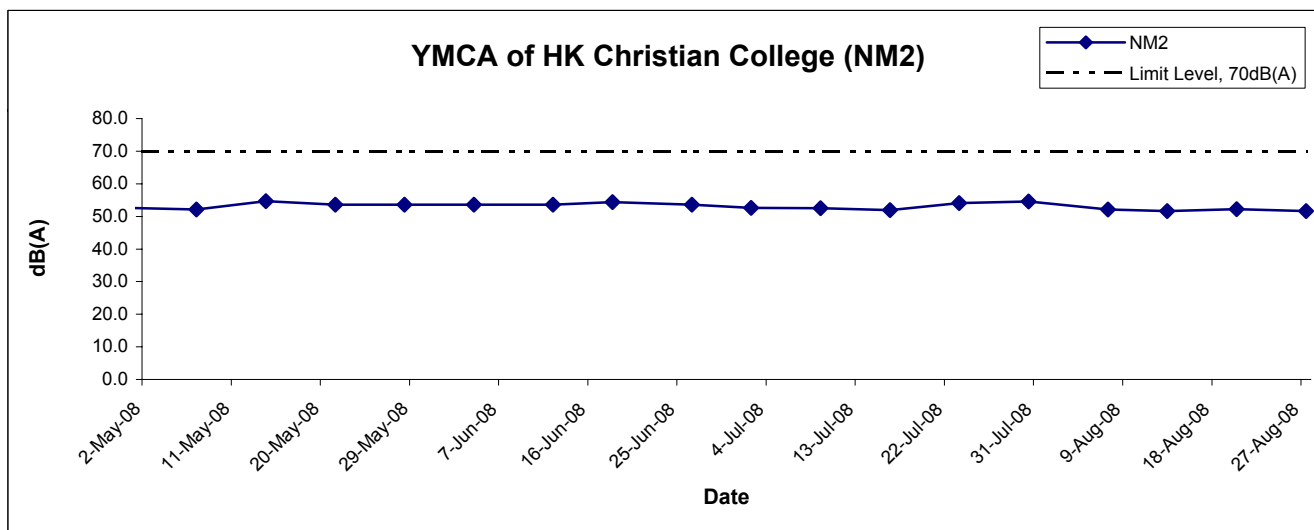
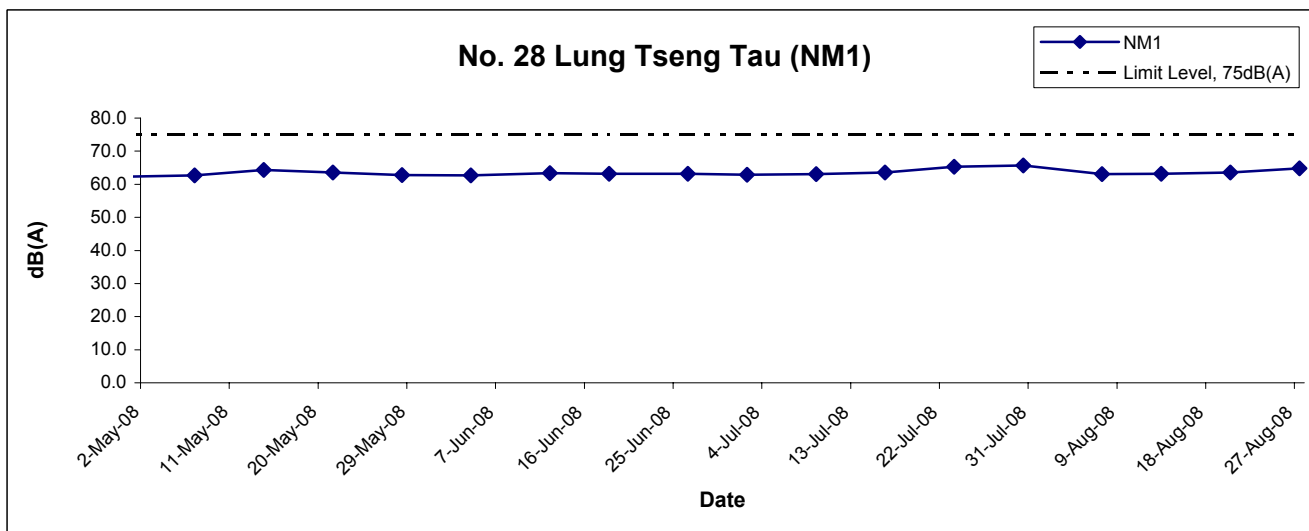
Appendix E - Noise Monitoring Results

| Location NM5 - Tung Chung Au Country Parks Management Centre | | | | | |
|--|-------|---------|-----------------|-----------------|-----------------|
| Date | Time | Weather | dB (A) (30-min) | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ |
| 7-Aug-08 | 13:00 | Cloudy | 50.7 | 52.0 | 48.5 |
| 13-Aug-08 | 13:00 | Fine | 51.2 | 53.0 | 47.5 |
| 20-Aug-08 | 13:00 | Sunny | 50.3 | 52.5 | 48.0 |
| 27-Aug-08 | 13:00 | Sunny | 50.6 | 52.5 | 48.5 |
| | | Average | 50.7 | 52.5 | 48.0 |
| | | Minimum | 50.3 | 52.0 | 47.5 |
| | | Maximum | 51.2 | 53.0 | 48.5 |

| Location NM6 - D75 Leyburn Villa | | | | | |
|----------------------------------|-------|---------|-----------------|-----------------|-----------------|
| Date | Time | Weather | dB (A) (30-min) | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ |
| 7-Aug-08 | 13:45 | Cloudy | 40.1 | 41.5 | 38.5 |
| 13-Aug-08 | 13:45 | Fine | 40.0 | 41.0 | 38.5 |
| 20-Aug-08 | 13:40 | Sunny | 40.1 | 41.5 | 39.0 |
| 27-Aug-08 | 13:45 | Sunny | 39.7 | 40.5 | 38.5 |
| | | Average | 40.0 | 41.1 | 38.6 |
| | | Minimum | 39.7 | 40.5 | 38.5 |
| | | Maximum | 40.1 | 41.5 | 39.0 |

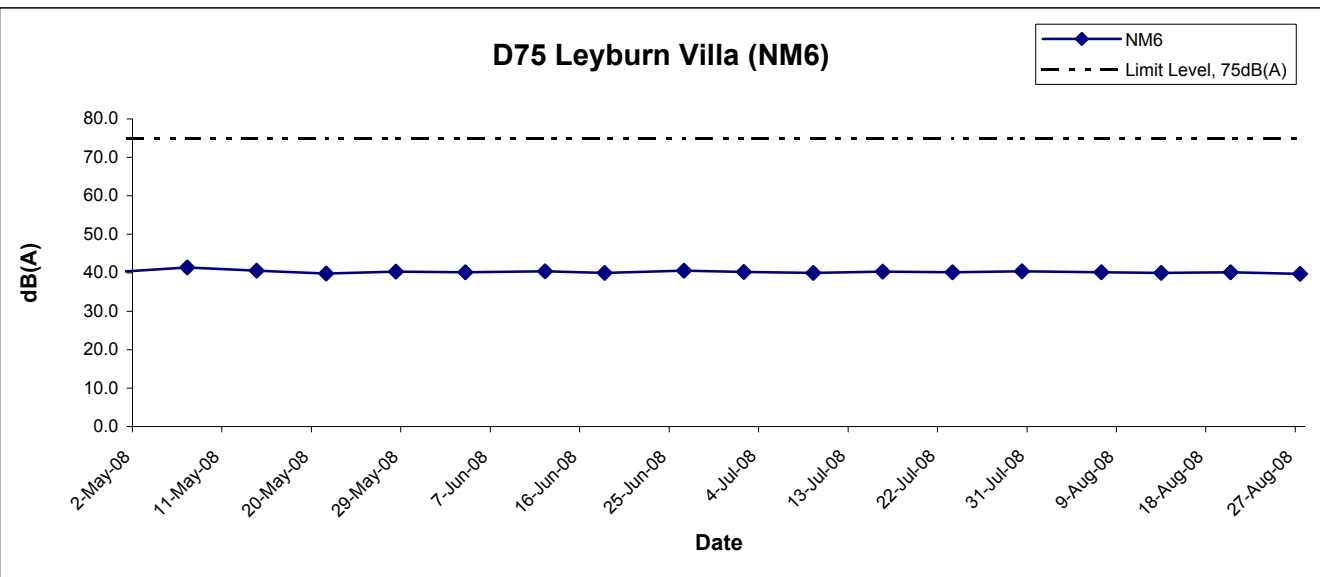
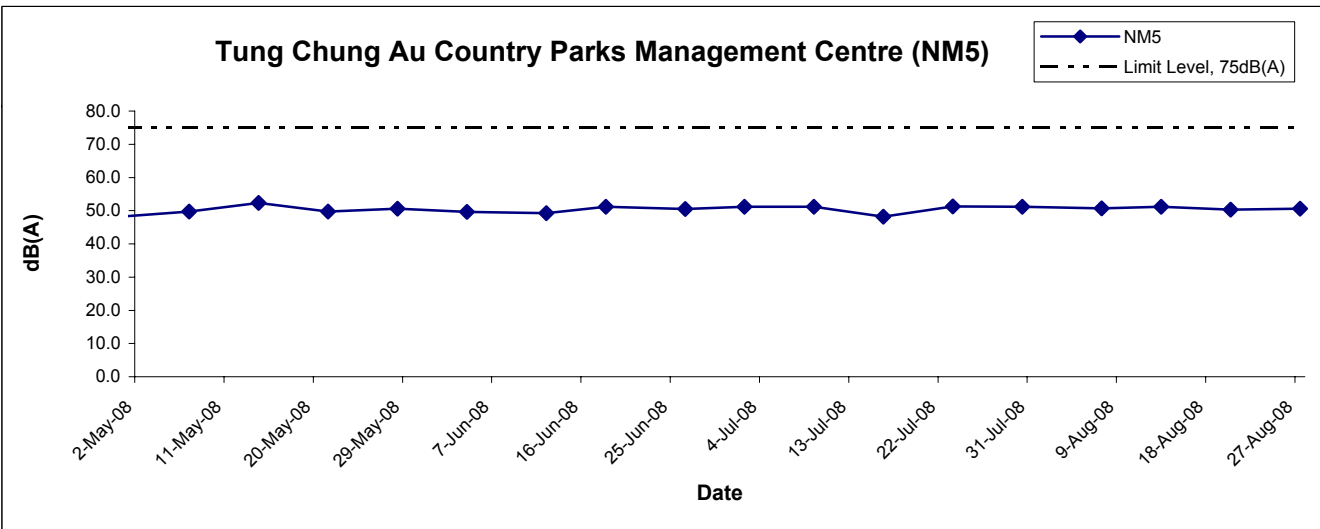
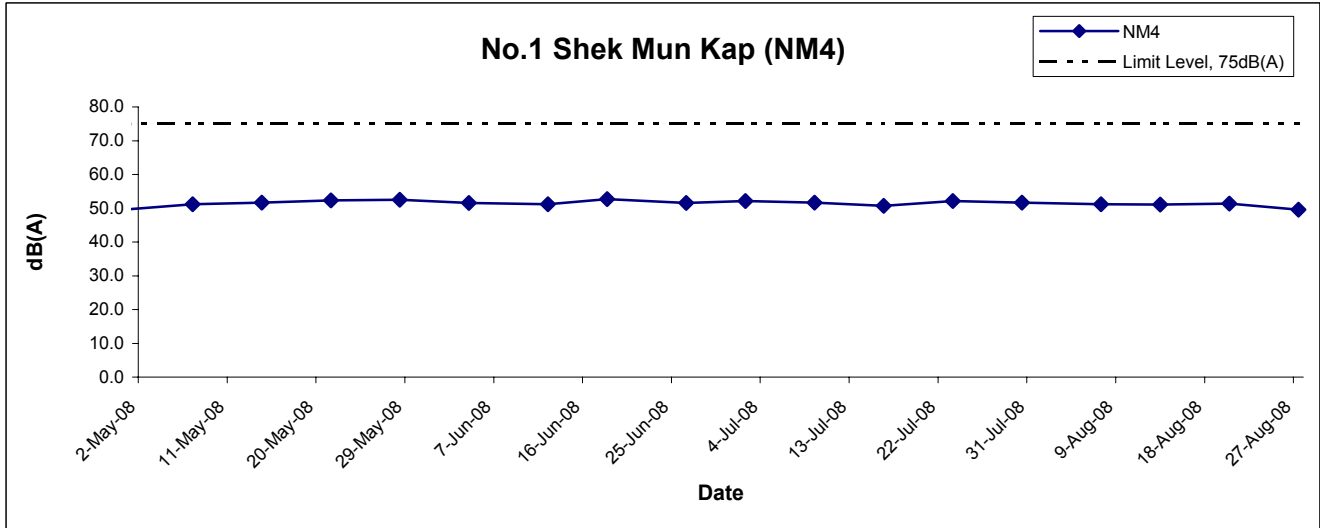
| Location NM8 - No. 31 South Lantau Road | | | | | |
|---|-------|---------|-----------------|-----------------|-----------------|
| Date | Time | Weather | dB (A) (30-min) | | |
| | | | L _{eq} | L ₁₀ | L ₉₀ |
| 7-Aug-08 | 14:25 | Cloudy | 61.5 | 63.0 | 60.0 |
| 13-Aug-08 | 14:25 | Fine | 61.7 | 63.5 | 58.5 |
| 20-Aug-08 | 14:25 | Sunny | 62.2 | 63.5 | 59.5 |
| 27-Aug-08 | 14:25 | Sunny | 61.6 | 63.5 | 59.5 |
| | | Average | 61.8 | 63.4 | 59.4 |
| | | Minimum | 61.5 | 63.0 | 58.5 |
| | | Maximum | 62.2 | 63.5 | 60.0 |

Noise Levels



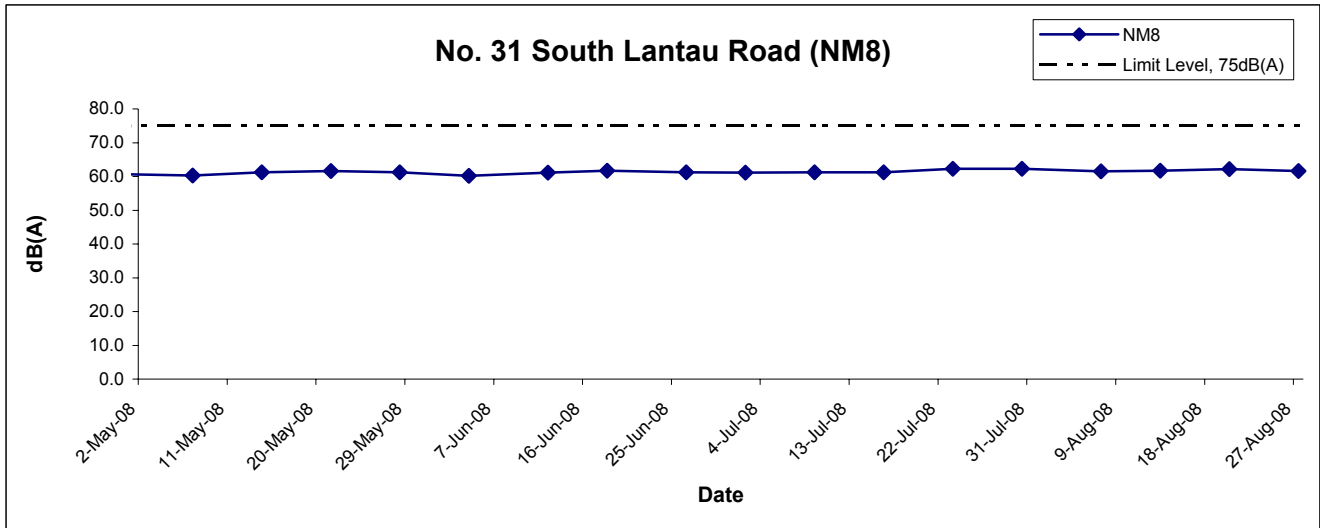
| | | | |
|---|----------------|-----------------------|--|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Construction Noise Monitoring Results | Scale N.T.S | Project No. MA6030 | |
| | Date Aug 08 | Appendix E | |

Noise Levels



| | | | |
|---|----------------|-----------------------|--|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Construction Noise Monitoring Results | Scale N.T.S | Project No. MA6030 | |
| | Date Aug 08 | Appendix E | |

Noise Levels



| | | | |
|---|----------------|-----------------------|--|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Construction Noise Monitoring Results | Scale N.T.S | Project No. MA6030 | |
| | Date Aug 08 | Appendix E | |

**APPENDIX F
WATER QUALITY MONITORING
RESULTS AND GRAPHICAL
PRESENTATION**

Water Quality Monitoring Results at 15_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:39:42 | Middle | 0.09 | 21.5 | 21.5 | 7.4 | 7.4 | 0.02 | 0.02 | 89.3 | 89.2 | 6.9 | 6.9 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.4 | | 0.02 | | 89.1 | | 6.9 | | 1.9 | | | |
| 4-Aug-08 | Sunny | Calm | 11:06:21 | Middle | 0.09 | 21.6 | 21.6 | 8.1 | 8.1 | 0.02 | 0.02 | 90.0 | 89.9 | 7.1 | 7.1 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 8.1 | | 0.02 | | 89.8 | | 7.1 | | 1.8 | | | |
| 7-Aug-08 | Rainy | Calm | 11:02:39 | Middle | 0.09 | 21.5 | 21.5 | 7.9 | 7.9 | 0.02 | 0.02 | 92.3 | 92.2 | 7.9 | 7.9 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.9 | | 0.02 | | 92.1 | | 7.9 | | 1.6 | | | |
| 8-Aug-08 | Rainy | Calm | 11:35:53 | Middle | 0.09 | 21.6 | 21.6 | 7.9 | 7.9 | 0.02 | 0.02 | 93.1 | 93 | 8.2 | 8.2 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 7.9 | | 0.02 | | 92.9 | | 8.1 | | 1.8 | | | |
| 11-Aug-08 | Rainy | Calm | 11:32:37 | Middle | 0.09 | 21.4 | 21.4 | 7.8 | 7.8 | 0.02 | 0.02 | 92.2 | 92.1 | 7.8 | 7.8 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 7.8 | | 0.02 | | 92.0 | | 7.8 | | 1.7 | | | |
| 13-Aug-08 | Sunny | Calm | 12:05:53 | Middle | 0.09 | 21.6 | 21.7 | 7.7 | 7.7 | 0.02 | 0.02 | 91.6 | 91.5 | 7.6 | 7.6 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.7 | | 0.02 | | 91.4 | | 7.6 | | 1.6 | | | |
| 15-Aug-08 | Sunny | Calm | 12:30:19 | Middle | 0.09 | 21.8 | 21.8 | 7.6 | 7.6 | 0.02 | 0.02 | 92.0 | 91.9 | 7.8 | 7.8 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.6 | | 0.02 | | 91.8 | | 7.7 | | 1.7 | | | |
| 18-Aug-08 | Sunny | Calm | 11:30:40 | Middle | 0.09 | 21.9 | 21.9 | 7.5 | 7.5 | 0.02 | 0.02 | 90.4 | 90.3 | 7.2 | 7.2 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.9 | | 7.5 | | 0.02 | | 90.2 | | 7.2 | | 1.8 | | | |
| 20-Aug-08 | Sunny | Calm | 11:17:16 | Middle | 0.09 | 22.0 | 22 | 7.5 | 7.5 | 0.02 | 0.02 | 90.8 | 90.7 | 7.3 | 7.3 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.5 | | 0.02 | | 90.6 | | 7.3 | | 1.7 | | | |
| 23-Aug-08 | Sunny | Calm | 11:13:25 | Middle | 0.09 | 21.6 | 21.6 | 7.3 | 7.3 | 0.02 | 0.02 | 90.9 | 90.8 | 8.2 | 8.2 | 2.2 | 2.2 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 7.3 | | 0.02 | | 90.7 | | 8.2 | | 2.2 | | | |
| 25-Aug-08 | Sunny | Calm | 12:00:28 | Middle | 0.09 | 22.0 | 22 | 7.4 | 7.4 | 0.02 | 0.02 | 91.9 | 91.8 | 7.7 | 7.7 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.4 | | 0.02 | | 91.7 | | 7.7 | | 1.9 | | | |
| 27-Aug-08 | Sunny | Calm | 13:33:39 | Middle | 0.09 | 22.0 | 22 | 7.5 | 7.5 | 0.02 | 0.02 | 93.0 | 92.9 | 8.1 | 8.1 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.5 | | 0.02 | | 92.8 | | 8.1 | | 2.0 | | | |
| 29-Aug-08 | Sunny | Calm | 11:22:06 | Middle | 0.09 | 22.0 | 22 | 7.4 | 7.4 | 0.02 | 0.02 | 91.1 | 91 | 7.4 | 7.4 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.4 | | 0.02 | | 90.9 | | 7.4 | | 1.7 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 15_R

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:33:02 | Middle | 0.08 | 21.4 21.4 | 21.4 | 7.3 7.3 | 7.3 | 0.02 0.02 | 0.02 | 89.8 89.6 | 89.7 | 7.0 6.9 | 7 | 2.1 2.0 | 2.1 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 10:59:41 | Middle | 0.08 | 21.5 21.5 | 21.5 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 90.5 90.3 | 90.4 | 7.2 7.2 | 7.2 | 2.0 1.9 | 2 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 10:55:59 | Middle | 0.08 | 21.4 21.4 | 21.4 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 92.8 92.6 | 92.7 | 7.9 7.9 | 7.9 | 1.8 1.7 | 1.8 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 11:29:13 | Middle | 0.08 | 21.5 21.6 | 21.6 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 93.6 93.4 | 93.5 | 8.2 8.2 | 8.2 | 2.0 1.9 | 2 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 11:25:57 | Middle | 0.08 | 21.4 21.4 | 21.4 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 92.7 92.5 | 92.6 | 7.9 7.9 | 7.9 | 1.9 1.8 | 1.9 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 11:59:13 | Middle | 0.08 | 21.6 21.6 | 21.6 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 92.1 91.9 | 92 | 7.7 7.7 | 7.7 | 1.8 1.7 | 1.8 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 12:23:39 | Middle | 0.08 | 21.7 21.7 | 21.7 | 7.5 7.6 | 7.6 | 0.02 0.02 | 0.02 | 92.5 92.3 | 92.4 | 7.8 7.8 | 7.8 | 1.9 1.8 | 1.9 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 11:24:00 | Middle | 0.08 | 21.8 21.8 | 21.8 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 90.9 90.7 | 90.8 | 7.3 7.2 | 7.3 | 2.0 1.9 | 2 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 11:10:36 | Middle | 0.08 | 22.0 22.0 | 22 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 91.3 91.1 | 91.2 | 7.4 7.4 | 7.4 | 1.9 1.8 | 1.9 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 11:06:45 | Middle | 0.08 | 21.6 21.6 | 21.6 | 7.3 7.3 | 7.3 | 0.02 0.02 | 0.02 | 91.4 91.2 | 91.3 | 8.2 8.2 | 8.2 | 2.4 2.3 | 2.4 | <2.5 <2.5 | <2.5 |
| 25-Aug-08 | Sunny | Calm | 11:53:48 | Middle | 0.08 | 21.9 21.9 | 21.9 | 7.3 7.3 | 7.3 | 0.02 0.02 | 0.02 | 92.4 92.2 | 92.3 | 7.8 7.8 | 7.8 | 2.1 2.0 | 2.1 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 13:26:59 | Middle | 0.08 | 22.0 22.0 | 22 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 93.5 93.3 | 93.4 | 8.1 8.1 | 8.1 | 2.2 2.1 | 2.2 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 11:15:26 | Middle | 0.08 | 21.9 21.9 | 21.9 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 91.6 91.4 | 91.5 | 7.5 7.5 | 7.5 | 1.9 1.8 | 1.9 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 18_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|-----|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:24:49 | Middle | 0.1 | 21.3 21.3 | 21.3 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 89.0 88.9 | 89 | 6.9 6.9 | 6.9 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 10:51:28 | Middle | 0.1 | 21.3 21.4 | 21.4 | 8.2 8.2 | 8.2 | 0.02 0.02 | 0.02 | 89.7 89.6 | 89.7 | 7.1 7.1 | 7.1 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 10:47:46 | Middle | 0.1 | 21.3 21.3 | 21.3 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 92.0 91.9 | 92 | 7.9 7.9 | 7.9 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 11:21:00 | Middle | 0.1 | 21.4 21.4 | 21.4 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 92.8 92.7 | 92.8 | 8.2 8.1 | 8.2 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 11:17:44 | Middle | 0.1 | 21.2 21.2 | 21.2 | 7.9 7.9 | 7.9 | 0.02 0.02 | 0.02 | 91.9 91.8 | 91.9 | 7.8 7.8 | 7.8 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 11:51:00 | Middle | 0.1 | 21.4 21.4 | 21.4 | 7.9 7.9 | 7.9 | 0.02 0.02 | 0.02 | 91.3 91.2 | 91.3 | 7.6 7.6 | 7.6 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 12:15:26 | Middle | 0.1 | 21.5 21.6 | 21.6 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 91.7 91.6 | 91.7 | 7.8 7.8 | 7.8 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 11:15:47 | Middle | 0.1 | 21.7 21.7 | 21.7 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 90.1 90.0 | 90.1 | 7.2 7.2 | 7.2 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 11:02:23 | Middle | 0.1 | 21.8 21.8 | 21.8 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 90.5 90.4 | 90.5 | 7.3 7.3 | 7.3 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 10:58:32 | Middle | 0.1 | 21.4 21.4 | 21.4 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 90.6 90.5 | 90.6 | 8.2 8.2 | 8.2 | 2.2 2.2 | 2.2 | <2.5 <2.5 | <2.5 |
| 25-Aug-08 | Sunny | Calm | 11:45:35 | Middle | 0.1 | 21.7 21.8 | 21.8 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 91.6 91.5 | 91.6 | 7.7 7.7 | 7.7 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 13:18:46 | Middle | 0.1 | 21.8 21.8 | 21.8 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 92.7 92.6 | 92.7 | 8.1 8.1 | 8.1 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 11:07:13 | Middle | 0.1 | 21.7 21.8 | 21.8 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 90.8 90.7 | 90.8 | 7.4 7.4 | 7.4 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 18_R

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|-------|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:21:00 | Middle | 0.175 | 21.3 21.3 | 21.3 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 89.3 88.9 | 89.1 | 6.9 6.9 | 6.9 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 10:47:39 | Middle | 0.175 | 21.3 21.3 | 21.3 | 8.2 8.2 | 8.2 | 0.02 0.02 | 0.02 | 90.0 89.6 | 89.8 | 7.2 7.1 | 7.2 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 10:43:57 | Middle | 0.175 | 21.2 21.2 | 21.2 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 92.3 91.9 | 92.1 | 7.9 7.9 | 7.9 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 11:17:11 | Middle | 0.175 | 21.4 21.4 | 21.4 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 93.1 92.7 | 92.9 | 8.2 8.1 | 8.2 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 11:13:55 | Middle | 0.175 | 21.2 21.2 | 21.2 | 7.9 7.9 | 7.9 | 0.02 0.02 | 0.02 | 92.2 91.8 | 92 | 7.9 7.8 | 7.9 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 11:47:11 | Middle | 0.175 | 21.4 21.4 | 21.4 | 7.9 7.9 | 7.9 | 0.02 0.02 | 0.02 | 91.6 91.2 | 91.4 | 7.7 7.6 | 7.7 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 12:11:37 | Middle | 0.175 | 21.5 21.5 | 21.5 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 92.0 91.6 | 91.8 | 7.8 7.8 | 7.8 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 11:11:58 | Middle | 0.175 | 21.6 21.6 | 21.6 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 90.4 90.0 | 90.2 | 7.2 7.2 | 7.2 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 10:58:34 | Middle | 0.175 | 21.8 21.8 | 21.8 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 90.8 90.4 | 90.6 | 7.4 7.3 | 7.4 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 10:54:43 | Middle | 0.175 | 21.4 21.4 | 21.4 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 90.8 90.4 | 90.6 | 8.2 8.2 | 8.2 | 2.2 2.2 | 2.2 | <2.5 <2.5 | <2.5 |
| 25-Aug-08 | Sunny | Calm | 11:41:46 | Middle | 0.175 | 21.7 21.7 | 21.7 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 91.9 91.5 | 91.7 | 7.8 7.7 | 7.8 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 13:14:57 | Middle | 0.175 | 21.8 21.8 | 21.8 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 93.0 92.6 | 92.8 | 8.1 8.1 | 8.1 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 11:03:24 | Middle | 0.175 | 21.7 21.7 | 21.7 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 91.1 90.7 | 90.9 | 7.5 7.4 | 7.5 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 21_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:16:59 | Middle | 0.14 | 21.2 | 21.2 | 7.6 | 7.6 | 0.02 | 0.02 | 89.4 | 89.6 | 7.0 | 7 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.2 | | 7.6 | | 0.02 | | 89.7 | | 7.0 | | 2.0 | | | |
| 4-Aug-08 | Sunny | Calm | 10:43:38 | Middle | 0.14 | 21.3 | 21.3 | 8.3 | 8.3 | 0.02 | 0.02 | 90.1 | 90.3 | 7.2 | 7.2 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 8.3 | | 0.02 | | 90.4 | | 7.2 | | 1.9 | | | |
| 7-Aug-08 | Rainy | Calm | 10:39:56 | Middle | 0.14 | 21.2 | 21.2 | 8.0 | 8.1 | 0.02 | 0.02 | 92.4 | 92.6 | 8.0 | 8 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.2 | | 8.1 | | 0.02 | | 92.7 | | 8.0 | | 1.9 | | | |
| 8-Aug-08 | Rainy | Calm | 11:13:10 | Middle | 0.14 | 21.3 | 21.3 | 8.1 | 8.1 | 0.02 | 0.02 | 93.2 | 93.4 | 8.2 | 8.3 | 2.1 | 2.1 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 8.1 | | 0.02 | | 93.5 | | 8.3 | | 2.1 | | | |
| 11-Aug-08 | Rainy | Calm | 11:09:54 | Middle | 0.14 | 21.1 | 21.2 | 7.9 | 8 | 0.02 | 0.02 | 92.3 | 92.5 | 7.9 | 7.9 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.2 | | 8.0 | | 0.02 | | 92.6 | | 7.9 | | 2.0 | | | |
| 13-Aug-08 | Sunny | Calm | 11:43:10 | Middle | 0.14 | 21.4 | 21.4 | 7.9 | 7.9 | 0.02 | 0.02 | 91.7 | 91.9 | 7.7 | 7.7 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 7.9 | | 0.02 | | 92.0 | | 7.7 | | 1.9 | | | |
| 15-Aug-08 | Sunny | Calm | 12:07:36 | Middle | 0.14 | 21.5 | 21.5 | 7.8 | 7.8 | 0.02 | 0.02 | 92.1 | 92.3 | 7.9 | 7.9 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.8 | | 0.02 | | 92.4 | | 7.9 | | 2.0 | | | |
| 18-Aug-08 | Sunny | Calm | 11:07:57 | Middle | 0.14 | 21.6 | 21.6 | 7.7 | 7.7 | 0.02 | 0.02 | 90.5 | 90.7 | 7.3 | 7.3 | 2.1 | 2.1 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 7.7 | | 0.02 | | 90.8 | | 7.3 | | 2.1 | | | |
| 20-Aug-08 | Sunny | Calm | 10:54:33 | Middle | 0.14 | 21.7 | 21.8 | 7.6 | 7.7 | 0.02 | 0.02 | 90.9 | 91.1 | 7.4 | 7.4 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.7 | | 0.02 | | 91.2 | | 7.4 | | 2.0 | | | |
| 23-Aug-08 | Sunny | Calm | 10:50:42 | Middle | 0.14 | 21.4 | 21.4 | 7.5 | 7.5 | 0.02 | 0.02 | 90.9 | 91.1 | 8.3 | 8.3 | 2.5 | 2.5 | 3.0 | 2.8 |
| | | | | | | 21.4 | | 7.5 | | 0.02 | | 91.2 | | 8.3 | | 2.5 | | | |
| 25-Aug-08 | Sunny | Calm | 11:37:45 | Middle | 0.14 | 21.7 | 21.7 | 7.6 | 7.6 | 0.02 | 0.02 | 92.0 | 92.2 | 7.8 | 7.8 | 2.2 | 2.2 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.02 | | 92.3 | | 7.8 | | 2.2 | | | |
| 27-Aug-08 | Sunny | Calm | 13:10:56 | Middle | 0.14 | 21.7 | 21.7 | 7.7 | 7.7 | 0.02 | 0.02 | 93.1 | 93.3 | 8.2 | 8.2 | 2.3 | 2.3 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.7 | | 0.02 | | 93.4 | | 8.2 | | 2.3 | | | |
| 29-Aug-08 | Sunny | Calm | 10:59:23 | Middle | 0.14 | 21.7 | 21.7 | 7.6 | 7.6 | 0.02 | 0.02 | 91.2 | 91.4 | 7.5 | 7.5 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.02 | | 91.5 | | 7.5 | | 2.0 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 21_R

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|-----|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:12:37 | Middle | 0.1 | 21.2 | 21.2 | 7.6 | 7.6 | 0.02 | 0.02 | 90.5 | 90.2 | 7.1 | 7.1 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.2 | | 7.6 | | 0.02 | | 89.9 | | 7.0 | | 2.0 | | | |
| 4-Aug-08 | Sunny | Calm | 10:39:16 | Middle | 0.1 | 21.2 | 21.3 | 8.3 | 8.3 | 0.02 | 0.02 | 91.2 | 90.9 | 7.3 | 7.3 | 1.8 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 8.3 | | 0.02 | | 90.6 | | 7.3 | | 1.9 | | | |
| 7-Aug-08 | Rainy | Calm | 10:35:34 | Middle | 0.1 | 21.2 | 21.2 | 8.1 | 8.1 | 0.02 | 0.02 | 93.5 | 93.2 | 8.1 | 8.1 | 1.8 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.2 | | 8.0 | | 0.02 | | 92.9 | | 8.0 | | 1.9 | | | |
| 8-Aug-08 | Rainy | Calm | 11:08:48 | Middle | 0.1 | 21.3 | 21.3 | 8.1 | 8.1 | 0.02 | 0.02 | 94.3 | 94 | 8.3 | 8.3 | 2.0 | 2.1 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 8.1 | | 0.02 | | 93.7 | | 8.3 | | 2.1 | | | |
| 11-Aug-08 | Rainy | Calm | 11:05:32 | Middle | 0.1 | 21.1 | 21.1 | 8.0 | 8 | 0.02 | 0.02 | 93.4 | 93.1 | 8.0 | 8 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.1 | | 7.9 | | 0.02 | | 92.8 | | 8.0 | | 2.0 | | | |
| 13-Aug-08 | Sunny | Calm | 11:38:48 | Middle | 0.1 | 21.3 | 21.4 | 7.9 | 7.9 | 0.02 | 0.02 | 92.8 | 92.5 | 7.8 | 7.8 | 1.8 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 7.9 | | 0.02 | | 92.2 | | 7.8 | | 1.9 | | | |
| 15-Aug-08 | Sunny | Calm | 12:03:14 | Middle | 0.1 | 21.4 | 21.5 | 7.8 | 7.8 | 0.02 | 0.02 | 93.2 | 92.9 | 8.0 | 8 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.8 | | 0.02 | | 92.6 | | 7.9 | | 2.0 | | | |
| 18-Aug-08 | Sunny | Calm | 11:03:35 | Middle | 0.1 | 21.6 | 21.6 | 7.7 | 7.7 | 0.02 | 0.02 | 91.6 | 91.3 | 7.4 | 7.4 | 2.0 | 2.1 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 7.7 | | 0.02 | | 91.0 | | 7.3 | | 2.1 | | | |
| 20-Aug-08 | Sunny | Calm | 10:50:11 | Middle | 0.1 | 21.7 | 21.7 | 7.7 | 7.7 | 0.02 | 0.02 | 92.0 | 91.7 | 7.5 | 7.5 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.02 | | 91.4 | | 7.5 | | 2.0 | | | |
| 23-Aug-08 | Sunny | Calm | 10:46:20 | Middle | 0.1 | 21.3 | 21.3 | 7.5 | 7.5 | 0.02 | 0.02 | 92.0 | 91.7 | 8.4 | 8.4 | 2.4 | 2.5 | 3.0 | 3 |
| | | | | | | 21.3 | | 7.5 | | 0.02 | | 91.4 | | 8.3 | | 2.5 | | | |
| 25-Aug-08 | Sunny | Calm | 11:33:23 | Middle | 0.1 | 21.6 | 21.7 | 7.6 | 7.6 | 0.02 | 0.02 | 93.1 | 92.8 | 7.9 | 7.9 | 2.1 | 2.2 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.02 | | 92.5 | | 7.8 | | 2.2 | | | |
| 27-Aug-08 | Sunny | Calm | 13:06:34 | Middle | 0.1 | 21.7 | 21.7 | 7.7 | 7.7 | 0.02 | 0.02 | 94.2 | 93.9 | 8.3 | 8.3 | 2.2 | 2.3 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.7 | | 0.02 | | 93.6 | | 8.2 | | 2.3 | | | |
| 29-Aug-08 | Sunny | Calm | 10:55:01 | Middle | 0.1 | 21.6 | 21.7 | 7.6 | 7.6 | 0.02 | 0.02 | 92.3 | 92 | 7.6 | 7.6 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.02 | | 91.7 | | 7.6 | | 2.0 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 23_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:06:32 | Middle | 0.09 | 21.3 | 21.3 | 7.4 | 7.4 | 0.02 | 0.02 | 90.3 | 90.1 | 7.1 | 7.1 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 7.4 | | 0.02 | | 89.9 | | 7.0 | | 1.8 | | | |
| 4-Aug-08 | Sunny | Calm | 10:33:11 | Middle | 0.09 | 21.4 | 21.4 | 8.1 | 8.1 | 0.02 | 0.02 | 91.0 | 90.8 | 7.3 | 7.3 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 8.1 | | 0.02 | | 90.6 | | 7.3 | | 1.6 | | | |
| 7-Aug-08 | Rainy | Calm | 10:29:29 | Middle | 0.09 | 21.3 | 21.3 | 7.9 | 7.9 | 0.02 | 0.02 | 93.3 | 93.1 | 8.0 | 8 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 7.9 | | 0.02 | | 92.9 | | 8.0 | | 1.6 | | | |
| 8-Aug-08 | Rainy | Calm | 11:02:43 | Middle | 0.09 | 21.4 | 21.4 | 7.9 | 8 | 0.02 | 0.02 | 94.1 | 93.9 | 8.3 | 8.3 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 8.0 | | 0.02 | | 93.7 | | 8.3 | | 1.8 | | | |
| 11-Aug-08 | Rainy | Calm | 10:59:27 | Middle | 0.09 | 21.3 | 21.3 | 7.8 | 7.8 | 0.02 | 0.02 | 93.2 | 93 | 8.0 | 8 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 7.8 | | 0.02 | | 92.8 | | 8.0 | | 1.7 | | | |
| 13-Aug-08 | Sunny | Calm | 11:32:43 | Middle | 0.09 | 21.5 | 21.5 | 7.8 | 7.8 | 0.02 | 0.02 | 92.6 | 92.4 | 7.8 | 7.8 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.8 | | 0.02 | | 92.2 | | 7.8 | | 1.6 | | | |
| 15-Aug-08 | Sunny | Calm | 11:57:09 | Middle | 0.09 | 21.6 | 21.6 | 7.7 | 7.7 | 0.02 | 0.02 | 93.0 | 92.8 | 7.9 | 7.9 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 7.7 | | 0.02 | | 92.6 | | 7.9 | | 1.7 | | | |
| 18-Aug-08 | Sunny | Calm | 10:57:30 | Middle | 0.09 | 21.7 | 21.7 | 7.6 | 7.6 | 0.02 | 0.02 | 91.4 | 91.2 | 7.4 | 7.4 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.02 | | 91.0 | | 7.3 | | 1.8 | | | |
| 20-Aug-08 | Sunny | Calm | 10:44:06 | Middle | 0.09 | 21.9 | 21.9 | 7.5 | 7.5 | 0.02 | 0.02 | 91.8 | 91.6 | 7.5 | 7.5 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.9 | | 7.5 | | 0.02 | | 91.4 | | 7.5 | | 1.6 | | | |
| 23-Aug-08 | Sunny | Calm | 10:40:15 | Middle | 0.09 | 21.5 | 21.5 | 7.4 | 7.4 | 0.02 | 0.02 | 91.9 | 91.7 | 8.4 | 8.4 | 2.2 | 2.2 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.4 | | 0.02 | | 91.5 | | 8.3 | | 2.2 | | | |
| 25-Aug-08 | Sunny | Calm | 11:27:18 | Middle | 0.09 | 21.8 | 21.8 | 7.5 | 7.5 | 0.02 | 0.02 | 92.9 | 92.7 | 7.9 | 7.9 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.5 | | 0.02 | | 92.5 | | 7.8 | | 1.8 | | | |
| 27-Aug-08 | Sunny | Calm | 13:00:29 | Middle | 0.09 | 21.9 | 21.9 | 7.5 | 7.6 | 0.02 | 0.02 | 94.0 | 93.8 | 8.3 | 8.3 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.9 | | 7.6 | | 0.02 | | 93.6 | | 8.2 | | 1.9 | | | |
| 29-Aug-08 | Sunny | Calm | 10:48:56 | Middle | 0.09 | 21.8 | 21.8 | 7.5 | 7.5 | 0.02 | 0.02 | 92.1 | 91.9 | 7.6 | 7.6 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.5 | | 0.02 | | 91.7 | | 7.6 | | 1.6 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 23_R1

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 10:53:33 | Middle | 0.09 | 21.3 | 21.3 | 7.4 | 7.4 | 0.02 | 0.02 | 92.3 | 91.9 | 7.3 | 7.3 | 1.8 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 7.4 | | 0.02 | | 91.4 | | 7.2 | | 1.9 | | | |
| 4-Aug-08 | Sunny | Calm | 10:20:12 | Middle | 0.09 | 21.3 | 21.4 | 8.1 | 8.1 | 0.02 | 0.02 | 93.0 | 92.6 | 7.5 | 7.5 | 1.7 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 8.1 | | 0.02 | | 92.1 | | 7.4 | | 1.8 | | | |
| 7-Aug-08 | Rainy | Calm | 10:16:30 | Middle | 0.09 | 21.2 | 21.3 | 7.9 | 7.9 | 0.02 | 0.02 | 95.3 | 94.9 | 8.2 | 8.2 | 1.7 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 7.9 | | 0.02 | | 94.4 | | 8.2 | | 1.8 | | | |
| 8-Aug-08 | Rainy | Calm | 10:49:44 | Middle | 0.09 | 21.4 | 21.4 | 8.0 | 8 | 0.02 | 0.02 | 96.1 | 95.7 | 8.5 | 8.5 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 8.0 | | 0.02 | | 95.2 | | 8.4 | | 2.0 | | | |
| 11-Aug-08 | Rainy | Calm | 10:46:28 | Middle | 0.09 | 21.2 | 21.2 | 7.8 | 7.8 | 0.02 | 0.02 | 95.2 | 94.8 | 8.2 | 8.2 | 1.8 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.2 | | 7.8 | | 0.02 | | 94.3 | | 8.1 | | 1.9 | | | |
| 13-Aug-08 | Sunny | Calm | 11:19:44 | Middle | 0.09 | 21.4 | 21.4 | 7.8 | 7.8 | 0.02 | 0.02 | 94.6 | 94.2 | 8.0 | 8 | 1.7 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 7.8 | | 0.02 | | 93.7 | | 7.9 | | 1.8 | | | |
| 15-Aug-08 | Sunny | Calm | 11:44:10 | Middle | 0.09 | 21.5 | 21.6 | 7.7 | 7.7 | 0.02 | 0.02 | 95.0 | 94.6 | 8.1 | 8.1 | 1.8 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 7.7 | | 0.02 | | 94.1 | | 8.0 | | 1.9 | | | |
| 18-Aug-08 | Sunny | Calm | 10:44:31 | Middle | 0.09 | 21.6 | 21.7 | 7.6 | 7.6 | 0.02 | 0.02 | 93.4 | 93 | 7.6 | 7.6 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.02 | | 92.5 | | 7.5 | | 2.0 | | | |
| 20-Aug-08 | Sunny | Calm | 10:31:07 | Middle | 0.09 | 21.8 | 21.8 | 7.5 | 7.5 | 0.02 | 0.02 | 93.8 | 93.4 | 7.7 | 7.7 | 1.7 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.5 | | 0.02 | | 92.9 | | 7.6 | | 1.8 | | | |
| 23-Aug-08 | Sunny | Calm | 10:27:16 | Middle | 0.09 | 21.4 | 21.4 | 7.4 | 7.4 | 0.02 | 0.02 | 93.9 | 93.5 | 8.6 | 8.6 | 2.3 | 2.4 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 7.4 | | 0.02 | | 93.0 | | 8.5 | | 2.4 | | | |
| 25-Aug-08 | Sunny | Calm | 11:14:19 | Middle | 0.09 | 21.7 | 21.8 | 7.5 | 7.5 | 0.02 | 0.02 | 94.9 | 94.5 | 8.1 | 8.1 | 1.9 | 2 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.5 | | 0.02 | | 94.0 | | 8.0 | | 2.0 | | | |
| 27-Aug-08 | Sunny | Calm | 12:47:30 | Middle | 0.09 | 21.8 | 21.8 | 7.6 | 7.6 | 0.02 | 0.02 | 96.0 | 95.6 | 8.5 | 8.5 | 2.0 | 2.1 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.6 | | 0.02 | | 95.1 | | 8.4 | | 2.1 | | | |
| 29-Aug-08 | Sunny | Calm | 10:35:57 | Middle | 0.09 | 21.7 | 21.8 | 7.5 | 7.5 | 0.02 | 0.02 | 94.1 | 93.7 | 7.8 | 7.8 | 1.7 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.5 | | 0.02 | | 93.2 | | 7.7 | | 1.8 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 23_R2

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|-----|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 10:59:30 | Middle | 0.1 | 21.3 21.3 | 21.3 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 91.7 91.4 | 91.6 | 7.2 7.2 | 7.2 | 1.7 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 10:26:09 | Middle | 0.1 | 21.4 21.4 | 21.4 | 8.1 8.1 | 8.1 | 0.02 0.02 | 0.02 | 92.4 92.1 | 92.3 | 7.4 7.4 | 7.4 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 10:22:27 | Middle | 0.1 | 21.3 21.3 | 21.3 | 7.9 7.9 | 7.9 | 0.02 0.02 | 0.02 | 94.7 94.4 | 94.6 | 8.2 8.2 | 8.2 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 10:55:41 | Middle | 0.1 | 21.4 21.4 | 21.4 | 8.0 7.9 | 8 | 0.02 0.02 | 0.02 | 95.5 95.2 | 95.4 | 8.4 8.4 | 8.4 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 10:52:25 | Middle | 0.1 | 21.2 21.2 | 21.2 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 94.6 94.3 | 94.5 | 8.1 8.1 | 8.1 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 11:25:41 | Middle | 0.1 | 21.4 21.5 | 21.5 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 94.0 93.7 | 93.9 | 7.9 7.9 | 7.9 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 11:50:07 | Middle | 0.1 | 21.6 21.6 | 21.6 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 94.4 94.1 | 94.3 | 8.1 8.0 | 8.1 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 10:50:28 | Middle | 0.1 | 21.7 21.7 | 21.7 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 92.8 92.5 | 92.7 | 7.5 7.5 | 7.5 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 10:37:04 | Middle | 0.1 | 21.8 21.8 | 21.8 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 93.2 92.9 | 93.1 | 7.6 7.6 | 7.6 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 10:33:13 | Middle | 0.1 | 21.4 21.4 | 21.4 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 93.3 93.0 | 93.2 | 8.5 8.5 | 8.5 | 2.1 2.2 | 2.2 | <2.5 <2.5 | <2.5 |
| 25-Aug-08 | Sunny | Calm | 11:20:16 | Middle | 0.1 | 21.8 21.8 | 21.8 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 94.3 94.0 | 94.2 | 8.0 8.0 | 8 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 12:53:27 | Middle | 0.1 | 21.8 21.8 | 21.8 | 7.6 7.5 | 7.6 | 0.02 0.02 | 0.02 | 95.4 95.1 | 95.3 | 8.4 8.4 | 8.4 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 10:41:54 | Middle | 0.1 | 21.8 21.8 | 21.8 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 93.5 93.2 | 93.4 | 7.7 7.7 | 7.7 | 1.6 1.6 | 1.6 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 26_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 10:19:01 | Middle | 0.14 | 21.3 | 21.3 | 7.7 | 7.7 | 0.03 | 0.03 | 91.7 | 91.7 | 7.2 | 7.2 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 7.7 | | 0.03 | | 91.6 | | 7.1 | | 1.7 | | | |
| 4-Aug-08 | Sunny | Calm | 09:45:40 | Middle | 0.14 | 21.3 | 21.3 | 8.4 | 8.4 | 0.03 | 0.03 | 92.4 | 92.4 | 7.4 | 7.4 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 8.4 | | 0.03 | | 92.3 | | 7.3 | | 1.6 | | | |
| 7-Aug-08 | Rainy | Calm | 09:41:58 | Middle | 0.14 | 21.3 | 21.3 | 8.2 | 8.2 | 0.03 | 0.03 | 94.7 | 94.7 | 8.1 | 8.1 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.3 | | 8.2 | | 0.03 | | 94.6 | | 8.1 | | 1.5 | | | |
| 8-Aug-08 | Rainy | Calm | 10:15:12 | Middle | 0.14 | 21.4 | 21.4 | 8.2 | 8.2 | 0.03 | 0.03 | 95.5 | 95.5 | 8.4 | 8.4 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 8.2 | | 0.03 | | 95.4 | | 8.3 | | 1.7 | | | |
| 11-Aug-08 | Rainy | Calm | 10:11:56 | Middle | 0.14 | 21.2 | 21.2 | 8.1 | 8.1 | 0.03 | 0.03 | 94.6 | 94.6 | 8.1 | 8.1 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.2 | | 8.1 | | 0.03 | | 94.5 | | 8.0 | | 1.6 | | | |
| 13-Aug-08 | Sunny | Calm | 10:45:12 | Middle | 0.14 | 21.4 | 21.4 | 8.0 | 8 | 0.03 | 0.03 | 94.0 | 94 | 7.9 | 7.9 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 8.0 | | 0.03 | | 93.9 | | 7.8 | | 1.5 | | | |
| 15-Aug-08 | Sunny | Calm | 11:09:38 | Middle | 0.14 | 21.5 | 21.5 | 7.9 | 7.9 | 0.03 | 0.03 | 94.4 | 94.4 | 8.0 | 8 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.9 | | 0.03 | | 94.3 | | 8.0 | | 1.6 | | | |
| 18-Aug-08 | Sunny | Calm | 10:09:59 | Middle | 0.14 | 21.7 | 21.7 | 7.9 | 7.9 | 0.03 | 0.03 | 92.8 | 92.8 | 7.5 | 7.5 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.9 | | 0.03 | | 92.7 | | 7.4 | | 1.7 | | | |
| 20-Aug-08 | Sunny | Calm | 09:56:35 | Middle | 0.14 | 21.8 | 21.8 | 7.8 | 7.8 | 0.03 | 0.03 | 93.2 | 93.2 | 7.6 | 7.6 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.8 | | 0.03 | | 93.1 | | 7.5 | | 1.6 | | | |
| 23-Aug-08 | Sunny | Calm | 09:52:44 | Middle | 0.14 | 21.4 | 21.4 | 7.6 | 7.6 | 0.03 | 0.03 | 93.2 | 93.2 | 8.4 | 8.4 | 2.0 | 2 | <2.5 | 2.8 |
| | | | | | | 21.4 | | 7.6 | | 0.03 | | 93.1 | | 8.4 | | 1.9 | | | |
| 25-Aug-08 | Sunny | Calm | 10:39:47 | Middle | 0.14 | 21.7 | 21.7 | 7.7 | 7.7 | 0.03 | 0.03 | 94.3 | 94.3 | 8.0 | 8 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.7 | | 0.03 | | 94.2 | | 7.9 | | 1.8 | | | |
| 27-Aug-08 | Sunny | Calm | 12:12:58 | Middle | 0.14 | 21.8 | 21.8 | 7.8 | 7.8 | 0.03 | 0.03 | 95.4 | 95.4 | 8.3 | 8.3 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.8 | | 0.03 | | 95.3 | | 8.3 | | 1.9 | | | |
| 29-Aug-08 | Sunny | Calm | 10:01:25 | Middle | 0.14 | 21.7 | 21.7 | 7.8 | 7.8 | 0.03 | 0.03 | 93.5 | 93.5 | 7.7 | 7.7 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.8 | | 0.03 | | 93.4 | | 7.6 | | 1.6 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 26_R

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 10:43:21 | Middle | 0.09 | 21.4 21.4 | 21.4 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 90.8 90.3 | 90.6 | 7.1 7.1 | 7.1 | 1.8 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 10:10:00 | Middle | 0.09 | 21.4 21.5 | 21.5 | 8.3 8.3 | 8.3 | 0.02 0.02 | 0.02 | 91.5 91.0 | 91.3 | 7.3 7.3 | 7.3 | 1.7 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 10:06:18 | Middle | 0.09 | 21.3 21.4 | 21.4 | 8.1 8.1 | 8.1 | 0.02 0.02 | 0.02 | 93.8 93.3 | 93.6 | 8.1 8.0 | 8.1 | 1.7 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 10:39:32 | Middle | 0.09 | 21.5 21.5 | 21.5 | 8.1 8.1 | 8.1 | 0.02 0.02 | 0.02 | 94.6 94.1 | 94.4 | 8.3 8.3 | 8.3 | 1.9 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 10:36:16 | Middle | 0.09 | 21.3 21.3 | 21.3 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 93.7 93.2 | 93.5 | 8.0 8.0 | 8 | 1.8 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 11:09:32 | Middle | 0.09 | 21.5 21.5 | 21.5 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 93.1 92.6 | 92.9 | 7.8 7.8 | 7.8 | 1.7 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 11:33:58 | Middle | 0.09 | 21.6 21.7 | 21.7 | 7.9 7.9 | 7.9 | 0.02 0.02 | 0.02 | 93.5 93.0 | 93.3 | 7.9 7.9 | 7.9 | 1.8 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 10:34:19 | Middle | 0.09 | 21.7 21.8 | 21.8 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 91.9 91.4 | 91.7 | 7.4 7.4 | 7.4 | 1.9 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 10:20:55 | Middle | 0.09 | 21.9 21.9 | 21.9 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 92.3 91.8 | 92.1 | 7.5 7.5 | 7.5 | 1.8 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 10:17:04 | Middle | 0.09 | 21.5 21.5 | 21.5 | 7.6 7.6 | 7.6 | 0.03 0.03 | 0.03 | 92.4 91.9 | 92.2 | 8.4 8.3 | 8.4 | 2.3 2.4 | 2.4 | <2.5 3.0 | 2.8 |
| 25-Aug-08 | Sunny | Calm | 11:04:07 | Middle | 0.09 | 21.8 21.9 | 21.9 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 93.4 92.9 | 93.2 | 7.9 7.9 | 7.9 | 2.0 2.1 | 2.1 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 12:37:18 | Middle | 0.09 | 21.9 21.9 | 21.9 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 94.5 94.0 | 94.3 | 8.3 8.2 | 8.3 | 2.1 2.2 | 2.2 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 10:25:45 | Middle | 0.09 | 21.8 21.9 | 21.9 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 92.6 92.1 | 92.4 | 7.6 7.6 | 7.6 | 1.8 1.9 | 1.9 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 27_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 10:37:13 | Middle | 0.08 | 21.3 21.3 | 21.3 | 7.6 7.6 | 7.6 | 0.02 0.02 | 0.02 | 92.1 92.0 | 92.1 | 7.2 7.2 | 7.2 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 10:03:52 | Middle | 0.08 | 21.4 21.4 | 21.4 | 8.3 8.3 | 8.3 | 0.03 0.03 | 0.03 | 92.8 92.7 | 92.8 | 7.5 7.5 | 7.5 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 10:00:10 | Middle | 0.08 | 21.3 21.3 | 21.3 | 8.1 8.1 | 8.1 | 0.02 0.02 | 0.02 | 95.1 95.0 | 95.1 | 8.2 8.2 | 8.2 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 10:33:24 | Middle | 0.08 | 21.4 21.4 | 21.4 | 8.2 8.1 | 8.2 | 0.02 0.02 | 0.02 | 95.9 95.8 | 95.9 | 8.5 8.5 | 8.5 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 10:30:08 | Middle | 0.08 | 21.2 21.3 | 21.3 | 8.0 8.0 | 8 | 0.03 0.03 | 0.03 | 95.0 94.9 | 95 | 8.2 8.2 | 8.2 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 11:03:24 | Middle | 0.08 | 21.4 21.5 | 21.5 | 8.0 8.0 | 8 | 0.03 0.03 | 0.03 | 94.4 94.3 | 94.4 | 8.0 8.0 | 8 | 1.7 1.7 | 1.7 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 11:27:50 | Middle | 0.08 | 21.6 21.6 | 21.6 | 7.9 7.9 | 7.9 | 0.03 0.03 | 0.03 | 94.8 94.7 | 94.8 | 8.1 8.1 | 8.1 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 10:28:11 | Middle | 0.08 | 21.7 21.7 | 21.7 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 93.2 93.1 | 93.2 | 7.5 7.5 | 7.5 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 10:14:47 | Middle | 0.08 | 21.8 21.9 | 21.9 | 7.7 7.7 | 7.7 | 0.03 0.03 | 0.03 | 93.6 93.5 | 93.6 | 7.7 7.7 | 7.7 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 10:10:56 | Middle | 0.08 | 21.4 21.5 | 21.5 | 7.6 7.6 | 7.6 | 0.03 0.03 | 0.03 | 93.7 93.6 | 93.7 | 8.5 8.5 | 8.5 | 2.2 2.2 | 2.2 | <2.5 <2.5 | <2.5 |
| 25-Aug-08 | Sunny | Calm | 10:57:59 | Middle | 0.08 | 21.8 21.8 | 21.8 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 94.7 94.6 | 94.7 | 8.1 8.0 | 8.1 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 12:31:10 | Middle | 0.08 | 21.8 21.8 | 21.8 | 7.8 7.7 | 7.8 | 0.02 0.02 | 0.02 | 95.8 95.7 | 95.8 | 8.4 8.4 | 8.4 | 2.1 2.1 | 2.1 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 10:19:37 | Middle | 0.08 | 21.8 21.8 | 21.8 | 7.7 7.7 | 7.7 | 0.03 0.03 | 0.03 | 93.9 93.8 | 93.9 | 7.8 7.8 | 7.8 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 27_R

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 10:27:31 | Middle | 0.13 | 21.3 21.3 | 21.3 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 93.5 93.0 | 93.3 | 7.4 7.3 | 7.4 | 2.1 2.1 | 2.1 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 09:54:10 | Middle | 0.13 | 21.3 21.3 | 21.3 | 8.4 8.4 | 8.4 | 0.03 0.03 | 0.03 | 94.2 93.7 | 94 | 7.6 7.6 | 7.6 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 09:50:28 | Middle | 0.13 | 21.3 21.2 | 21.3 | 8.1 8.1 | 8.1 | 0.02 0.02 | 0.02 | 96.5 96.0 | 96.3 | 8.4 8.3 | 8.4 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 10:23:42 | Middle | 0.13 | 21.4 21.4 | 21.4 | 8.2 8.2 | 8.2 | 0.02 0.02 | 0.02 | 97.3 96.8 | 97.1 | 8.6 8.6 | 8.6 | 2.1 2.1 | 2.1 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 10:20:26 | Middle | 0.13 | 21.2 21.2 | 21.2 | 8.0 8.0 | 8 | 0.03 0.03 | 0.03 | 96.4 95.9 | 96.2 | 8.3 8.3 | 8.3 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 10:53:42 | Middle | 0.13 | 21.4 21.4 | 21.4 | 8.0 8.0 | 8 | 0.03 0.03 | 0.03 | 95.8 95.3 | 95.6 | 8.1 8.1 | 8.1 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 11:18:08 | Middle | 0.13 | 21.5 21.5 | 21.5 | 7.9 7.9 | 7.9 | 0.03 0.03 | 0.03 | 96.2 95.7 | 96 | 8.3 8.2 | 8.3 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 10:18:29 | Middle | 0.13 | 21.7 21.6 | 21.7 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 94.6 94.1 | 94.4 | 7.7 7.6 | 7.7 | 2.1 2.1 | 2.1 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 10:05:05 | Middle | 0.13 | 21.8 21.8 | 21.8 | 7.7 7.7 | 7.7 | 0.03 0.03 | 0.03 | 95.0 94.5 | 94.8 | 7.8 7.8 | 7.8 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 10:01:14 | Middle | 0.13 | 21.4 21.4 | 21.4 | 7.6 7.6 | 7.6 | 0.03 0.03 | 0.03 | 95.1 94.7 | 94.9 | 8.7 8.6 | 8.7 | 2.5 2.5 | 2.5 | <2.5 <2.5 | <2.5 |
| 25-Aug-08 | Sunny | Calm | 10:48:17 | Middle | 0.13 | 21.7 21.7 | 21.7 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 96.1 95.6 | 95.9 | 8.2 8.1 | 8.2 | 2.2 2.2 | 2.2 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 12:21:28 | Middle | 0.13 | 21.8 21.8 | 21.8 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 97.2 96.7 | 97 | 8.6 8.5 | 8.6 | 2.3 2.3 | 2.3 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 10:09:55 | Middle | 0.13 | 21.7 21.7 | 21.7 | 7.7 7.7 | 7.7 | 0.03 0.03 | 0.03 | 95.3 94.8 | 95.1 | 7.9 7.9 | 7.9 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 40_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 09:59:15 | Middle | 0.09 | 21.5 | 21.5 | 7.6 | 7.6 | 0.05 | 0.05 | 97.3 | 97.2 | 7.5 | 7.5 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.6 | | 0.05 | | 97.1 | | 7.5 | | 1.8 | | | |
| 4-Aug-08 | Sunny | Calm | 09:25:54 | Middle | 0.09 | 21.6 | 21.6 | 8.3 | 8.3 | 0.05 | 0.05 | 98.0 | 97.9 | 7.7 | 7.7 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 8.3 | | 0.05 | | 97.8 | | 7.7 | | 1.7 | | | |
| 7-Aug-08 | Rainy | Calm | 09:22:12 | Middle | 0.09 | 21.5 | 21.5 | 8.1 | 8.1 | 0.05 | 0.05 | 100.3 | 100.2 | 8.5 | 8.5 | 1.6 | 1.6 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 8.1 | | 0.05 | | 100.1 | | 8.5 | | 1.6 | | | |
| 8-Aug-08 | Rainy | Calm | 09:55:26 | Middle | 0.09 | 21.6 | 21.6 | 8.1 | 8.1 | 0.05 | 0.05 | 101.1 | 101 | 8.7 | 8.7 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 8.1 | | 0.05 | | 100.9 | | 8.7 | | 1.8 | | | |
| 11-Aug-08 | Rainy | Calm | 09:52:10 | Middle | 0.09 | 21.4 | 21.5 | 8.0 | 8 | 0.05 | 0.05 | 100.2 | 100.1 | 8.4 | 8.4 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 8.0 | | 0.05 | | 100.0 | | 8.4 | | 1.7 | | | |
| 13-Aug-08 | Sunny | Calm | 10:25:26 | Middle | 0.09 | 21.7 | 21.7 | 8.0 | 8 | 0.05 | 0.05 | 99.6 | 99.5 | 8.2 | 8.2 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.9 | | 0.05 | | 99.4 | | 8.2 | | 1.8 | | | |
| 15-Aug-08 | Sunny | Calm | 10:49:52 | Middle | 0.09 | 21.8 | 21.8 | 7.8 | 7.8 | 0.05 | 0.05 | 100.0 | 99.9 | 8.4 | 8.4 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.8 | | 0.05 | | 99.8 | | 8.4 | | 1.9 | | | |
| 18-Aug-08 | Sunny | Calm | 09:50:13 | Middle | 0.09 | 21.9 | 21.9 | 7.8 | 7.8 | 0.05 | 0.05 | 98.4 | 98.3 | 7.8 | 7.8 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.9 | | 7.8 | | 0.05 | | 98.2 | | 7.8 | | 2.0 | | | |
| 20-Aug-08 | Sunny | Calm | 09:36:49 | Middle | 0.09 | 22.0 | 22.1 | 7.7 | 7.7 | 0.04 | 0.04 | 98.8 | 98.7 | 7.9 | 7.9 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 22.1 | | 7.7 | | 0.04 | | 98.6 | | 7.9 | | 1.8 | | | |
| 23-Aug-08 | Sunny | Calm | 09:32:58 | Middle | 0.09 | 21.7 | 21.7 | 7.6 | 7.6 | 0.05 | 0.05 | 98.9 | 98.8 | 8.8 | 8.8 | 2.2 | 2.2 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 7.6 | | 0.05 | | 98.7 | | 8.8 | | 2.2 | | | |
| 25-Aug-08 | Sunny | Calm | 10:20:01 | Middle | 0.09 | 22.0 | 22 | 7.6 | 7.6 | 0.04 | 0.04 | 99.9 | 99.8 | 8.2 | 8.2 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.6 | | 0.04 | | 99.7 | | 8.2 | | 2.0 | | | |
| 27-Aug-08 | Sunny | Calm | 11:53:12 | Middle | 0.09 | 22.0 | 22 | 7.7 | 7.7 | 0.04 | 0.04 | 101.0 | 100.9 | 8.6 | 8.6 | 2.2 | 2.2 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.7 | | 0.04 | | 100.8 | | 8.6 | | 2.2 | | | |
| 29-Aug-08 | Sunny | Calm | 09:41:39 | Middle | 0.09 | 22.0 | 22 | 7.7 | 7.7 | 0.04 | 0.04 | 99.1 | 99 | 7.9 | 7.9 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.7 | | 0.04 | | 98.9 | | 7.9 | | 1.9 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at 40_R

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|-----|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 09:53:50 | Middle | 0.2 | 21.5 | 21.5 | 7.6 | 7.6 | 0.05 | 0.05 | 98.8 | 98.9 | 7.7 | 7.7 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 7.6 | | 0.05 | | 99.0 | | 7.7 | | 1.9 | | | |
| 4-Aug-08 | Sunny | Calm | 09:20:29 | Middle | 0.2 | 21.6 | 21.6 | 8.3 | 8.3 | 0.05 | 0.05 | 99.5 | 99.6 | 7.9 | 7.9 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 8.3 | | 0.05 | | 99.7 | | 7.9 | | 1.8 | | | |
| 7-Aug-08 | Rainy | Calm | 09:16:47 | Middle | 0.2 | 21.5 | 21.5 | 8.1 | 8.1 | 0.05 | 0.05 | 101.8 | 101.9 | 8.7 | 8.7 | 1.7 | 1.7 | <2.5 | <2.5 |
| | | | | | | 21.5 | | 8.1 | | 0.05 | | 102.0 | | 8.7 | | 1.7 | | | |
| 8-Aug-08 | Rainy | Calm | 09:50:01 | Middle | 0.2 | 21.6 | 21.6 | 8.2 | 8.2 | 0.05 | 0.05 | 102.6 | 102.7 | 8.9 | 8.9 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 8.1 | | 0.05 | | 102.8 | | 8.9 | | 1.9 | | | |
| 11-Aug-08 | Rainy | Calm | 09:46:45 | Middle | 0.2 | 21.4 | 21.4 | 8.0 | 8 | 0.05 | 0.05 | 101.7 | 101.8 | 8.6 | 8.6 | 1.8 | 1.8 | <2.5 | <2.5 |
| | | | | | | 21.4 | | 8.0 | | 0.05 | | 101.9 | | 8.6 | | 1.8 | | | |
| 13-Aug-08 | Sunny | Calm | 10:20:01 | Middle | 0.2 | 21.7 | 21.7 | 8.0 | 8 | 0.05 | 0.05 | 101.1 | 101.2 | 8.4 | 8.4 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 21.7 | | 8.0 | | 0.05 | | 101.3 | | 8.4 | | 1.9 | | | |
| 15-Aug-08 | Sunny | Calm | 10:44:27 | Middle | 0.2 | 21.8 | 21.8 | 7.9 | 7.9 | 0.05 | 0.05 | 101.5 | 101.6 | 8.6 | 8.6 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 21.8 | | 7.9 | | 0.05 | | 101.7 | | 8.6 | | 2.0 | | | |
| 18-Aug-08 | Sunny | Calm | 09:44:48 | Middle | 0.2 | 21.9 | 21.9 | 7.8 | 7.8 | 0.05 | 0.05 | 99.9 | 100 | 8.0 | 8 | 2.1 | 2.1 | <2.5 | <2.5 |
| | | | | | | 21.9 | | 7.8 | | 0.05 | | 100.1 | | 8.0 | | 2.1 | | | |
| 20-Aug-08 | Sunny | Calm | 09:31:24 | Middle | 0.2 | 22.0 | 22 | 7.7 | 7.7 | 0.04 | 0.04 | 100.3 | 100.4 | 8.1 | 8.1 | 1.9 | 1.9 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.7 | | 0.04 | | 100.5 | | 8.1 | | 1.9 | | | |
| 23-Aug-08 | Sunny | Calm | 09:27:33 | Middle | 0.2 | 21.6 | 21.6 | 7.6 | 7.6 | 0.05 | 0.05 | 100.4 | 100.5 | 9.0 | 9 | 2.6 | 2.6 | <2.5 | <2.5 |
| | | | | | | 21.6 | | 7.6 | | 0.05 | | 100.6 | | 9.0 | | 2.5 | | | |
| 25-Aug-08 | Sunny | Calm | 10:14:36 | Middle | 0.2 | 22.0 | 22 | 7.7 | 7.7 | 0.04 | 0.04 | 99.2 | 99.3 | 7.7 | 7.8 | 2.1 | 2.1 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.7 | | 0.04 | | 99.4 | | 7.8 | | 2.1 | | | |
| 27-Aug-08 | Sunny | Calm | 11:47:47 | Middle | 0.2 | 22.0 | 22 | 7.8 | 7.8 | 0.04 | 0.04 | 100.3 | 100.4 | 8.1 | 8.1 | 2.3 | 2.3 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.7 | | 0.04 | | 100.5 | | 8.1 | | 2.3 | | | |
| 29-Aug-08 | Sunny | Calm | 09:36:14 | Middle | 0.2 | 22.0 | 22 | 7.7 | 7.7 | 0.04 | 0.04 | 98.4 | 98.5 | 7.5 | 7.5 | 2.0 | 2 | <2.5 | <2.5 |
| | | | | | | 22.0 | | 7.7 | | 0.04 | | 98.6 | | 7.5 | | 2.0 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at CSS_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 10:05:46 | Middle | 0.19 | 21.3 21.4 | 21.4 | 7.6 7.7 | 7.7 | 0.03 0.03 | 0.03 | 96.2 96.3 | 96.3 | 7.5 7.5 | 7.5 | 2.3 2.2 | 2.3 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 09:32:25 | Middle | 0.19 | 21.4 21.4 | 21.4 | 8.3 8.4 | 8.4 | 0.03 0.03 | 0.03 | 96.9 97.0 | 97 | 7.7 7.7 | 7.7 | 2.1 2.0 | 2.1 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 09:28:43 | Middle | 0.19 | 21.3 21.3 | 21.3 | 8.1 8.1 | 8.1 | 0.03 0.03 | 0.03 | 99.2 99.3 | 99.3 | 8.5 8.5 | 8.5 | 2.0 1.9 | 2 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 10:01:57 | Middle | 0.19 | 21.5 21.5 | 21.5 | 8.2 8.2 | 8.2 | 0.03 0.03 | 0.03 | 100.0 100.1 | 100.1 | 8.7 8.8 | 8.8 | 2.2 2.1 | 2.2 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 09:58:41 | Middle | 0.19 | 21.3 21.3 | 21.3 | 8.0 8.0 | 8 | 0.03 0.03 | 0.03 | 99.1 99.2 | 99.2 | 8.4 8.4 | 8.4 | 2.1 2.0 | 2.1 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 10:31:57 | Middle | 0.19 | 21.5 21.5 | 21.5 | 8.0 8.0 | 8 | 0.03 0.03 | 0.03 | 98.5 98.6 | 98.6 | 8.2 8.2 | 8.2 | 2.2 2.1 | 2.2 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 10:56:23 | Middle | 0.19 | 21.6 21.6 | 21.6 | 7.9 7.9 | 7.9 | 0.03 0.03 | 0.03 | 98.9 99.0 | 99 | 8.4 8.4 | 8.4 | 2.2 2.1 | 2.2 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 09:56:44 | Middle | 0.19 | 21.7 21.7 | 21.7 | 7.8 7.8 | 7.8 | 0.03 0.03 | 0.03 | 97.3 97.4 | 97.4 | 7.8 7.8 | 7.8 | 2.3 2.2 | 2.3 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 09:43:20 | Middle | 0.19 | 21.9 21.9 | 21.9 | 7.7 7.7 | 7.7 | 0.03 0.03 | 0.03 | 97.7 97.8 | 97.8 | 7.9 7.9 | 7.9 | 2.1 2.0 | 2.1 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 09:39:29 | Middle | 0.19 | 21.5 21.5 | 21.5 | 7.6 7.6 | 7.6 | 0.03 0.03 | 0.03 | 97.7 97.8 | 97.8 | 8.8 8.8 | 8.8 | 2.2 2.1 | 2.2 | <2.5 <2.5 | <2.5 |
| 25-Aug-08 | Sunny | Calm | 10:26:32 | Middle | 0.19 | 21.8 21.8 | 21.8 | 7.7 7.7 | 7.7 | 0.03 0.03 | 0.03 | 98.8 98.9 | 98.9 | 8.2 8.2 | 8.2 | 2.3 2.2 | 2.3 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 11:59:43 | Middle | 0.19 | 21.9 21.9 | 21.9 | 7.8 7.8 | 7.8 | 0.03 0.03 | 0.03 | 99.9 100.0 | 100 | 8.6 8.6 | 8.6 | 2.5 2.4 | 2.5 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 09:48:10 | Middle | 0.19 | 21.8 21.8 | 21.8 | 7.7 7.7 | 7.7 | 0.03 0.03 | 0.03 | 98.0 98.1 | 98.1 | 7.9 7.9 | 7.9 | 2.2 2.1 | 2.2 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at TCB_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 12:09:04 | Middle | 0.35 | 22.5 | 22.5 | 7.2 | 7.2 | 12.28 | 12.29 | 95.4 | 95.3 | 7.1 | 7.1 | 4.4 | 4.3 | <2.5 | <2.5 |
| | | | | | | 22.5 | | 7.2 | | 12.29 | | 95.2 | | 7.1 | | 4.2 | | | |
| 4-Aug-08 | Sunny | Calm | 11:35:43 | Middle | 0.35 | 22.5 | 22.5 | 7.9 | 7.9 | 12.46 | 12.45 | 96.1 | 96 | 7.3 | 7.3 | 4.2 | 4.1 | <2.5 | <2.5 |
| | | | | | | 22.5 | | 7.9 | | 12.44 | | 95.9 | | 7.3 | | 4.0 | | | |
| 7-Aug-08 | Rainy | Calm | 11:32:01 | Middle | 0.35 | 22.4 | 22.4 | 7.7 | 7.7 | 12.36 | 12.36 | 98.4 | 98.3 | 8.0 | 8 | 3.9 | 3.8 | <2.5 | <2.5 |
| | | | | | | 22.4 | | 7.7 | | 12.35 | | 98.2 | | 8.0 | | 3.7 | | | |
| 8-Aug-08 | Rainy | Calm | 12:05:15 | Middle | 0.35 | 22.6 | 22.6 | 7.7 | 7.7 | 12.46 | 12.47 | 99.2 | 99.1 | 8.3 | 8.3 | 4.1 | 4 | <2.5 | <2.5 |
| | | | | | | 22.6 | | 7.7 | | 12.47 | | 99.0 | | 8.3 | | 3.9 | | | |
| 11-Aug-08 | Rainy | Calm | 12:01:59 | Middle | 0.35 | 22.4 | 22.4 | 7.6 | 7.6 | 12.56 | 12.56 | 98.3 | 98.2 | 8.0 | 8 | 3.9 | 3.8 | <2.5 | <2.5 |
| | | | | | | 22.4 | | 7.6 | | 12.55 | | 98.1 | | 8.0 | | 3.7 | | | |
| 13-Aug-08 | Sunny | Calm | 12:35:15 | Middle | 0.35 | 22.6 | 22.6 | 7.6 | 7.6 | 12.70 | 12.7 | 97.7 | 97.6 | 7.8 | 7.8 | 3.7 | 3.6 | <2.5 | <2.5 |
| | | | | | | 22.6 | | 7.6 | | 12.69 | | 97.5 | | 7.8 | | 3.5 | | | |
| 15-Aug-08 | Sunny | Calm | 12:59:41 | Middle | 0.35 | 22.7 | 22.7 | 7.4 | 7.5 | 12.56 | 12.57 | 98.1 | 98 | 7.9 | 7.9 | 3.3 | 3.4 | <2.5 | <2.5 |
| | | | | | | 22.7 | | 7.5 | | 12.57 | | 97.9 | | 7.9 | | 3.4 | | | |
| 18-Aug-08 | Sunny | Calm | 12:00:02 | Middle | 0.35 | 22.8 | 22.8 | 7.4 | 7.4 | 12.62 | 12.63 | 96.5 | 96.4 | 7.4 | 7.4 | 3.9 | 3.9 | <2.5 | <2.5 |
| | | | | | | 22.8 | | 7.4 | | 12.64 | | 96.3 | | 7.4 | | 3.8 | | | |
| 20-Aug-08 | Sunny | Calm | 11:46:38 | Middle | 0.35 | 23.0 | 23 | 7.3 | 7.3 | 12.52 | 12.52 | 96.9 | 96.8 | 7.5 | 7.5 | 3.6 | 3.7 | <2.5 | <2.5 |
| | | | | | | 23.0 | | 7.3 | | 12.51 | | 96.7 | | 7.5 | | 3.7 | | | |
| 23-Aug-08 | Sunny | Calm | 11:42:47 | Middle | 0.35 | 22.6 | 22.6 | 7.2 | 7.2 | 12.18 | 12.19 | 96.8 | 96.7 | 8.3 | 8.3 | 5.6 | 5.5 | 4.0 | 4 |
| | | | | | | 22.6 | | 7.2 | | 12.19 | | 96.6 | | 8.3 | | 5.4 | | 4.0 | |
| 25-Aug-08 | Sunny | Calm | 12:29:50 | Middle | 0.35 | 22.9 | 22.9 | 7.2 | 7.2 | 12.43 | 12.43 | 98.0 | 97.9 | 7.9 | 7.9 | 4.2 | 4.3 | <2.5 | <2.5 |
| | | | | | | 22.9 | | 7.2 | | 12.42 | | 97.8 | | 7.9 | | 4.3 | | | |
| 27-Aug-08 | Sunny | Calm | 14:03:01 | Middle | 0.35 | 23.0 | 23 | 7.3 | 7.3 | 12.65 | 12.65 | 99.1 | 99 | 8.3 | 8.3 | 4.5 | 4.6 | <2.5 | <2.5 |
| | | | | | | 23.0 | | 7.3 | | 12.64 | | 98.9 | | 8.2 | | 4.6 | | | |
| 29-Aug-08 | Sunny | Calm | 11:51:28 | Middle | 0.35 | 22.9 | 22.9 | 7.3 | 7.3 | 12.75 | 12.76 | 97.2 | 97.1 | 7.6 | 7.6 | 3.9 | 4 | <2.5 | <2.5 |
| | | | | | | 22.9 | | 7.3 | | 12.76 | | 97.0 | | 7.6 | | 4.0 | | | |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

Water Quality Monitoring Results at TCB_R

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|-----|------------------|---------|------------|---------|----------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 12:04:01 | Middle | 0.2 | 22.5 22.5 | 22.5 | 7.2 7.3 | 7.3 | 18.59 18.58 | 18.59 | 94.4 94.2 | 94.3 | 7.0 6.9 | 7 | 6.5 6.7 | 6.6 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 11:30:40 | Middle | 0.2 | 22.6 22.6 | 22.6 | 7.9 8.0 | 8 | 18.89 18.90 | 18.9 | 95.1 94.9 | 95 | 7.2 7.2 | 7.2 | 6.2 6.4 | 6.3 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 11:26:58 | Middle | 0.2 | 22.5 22.5 | 22.5 | 7.7 7.7 | 7.7 | 18.62 18.63 | 18.63 | 97.4 97.2 | 97.3 | 7.9 7.9 | 7.9 | 5.9 6.1 | 6 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 12:00:12 | Middle | 0.2 | 22.6 22.6 | 22.6 | 7.8 7.8 | 7.8 | 18.77 18.75 | 18.76 | 98.2 98.0 | 98.1 | 8.2 8.2 | 8.2 | 6.1 6.3 | 6.2 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 11:56:56 | Middle | 0.2 | 22.5 22.5 | 22.5 | 7.6 7.6 | 7.6 | 18.83 18.82 | 18.83 | 97.3 97.1 | 97.2 | 7.9 7.9 | 7.9 | 5.8 6.0 | 5.9 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 12:30:12 | Middle | 0.2 | 22.7 22.7 | 22.7 | 7.6 7.6 | 7.6 | 18.97 18.96 | 18.97 | 96.7 96.5 | 96.6 | 7.7 7.7 | 7.7 | 5.6 5.8 | 5.7 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 12:54:38 | Middle | 0.2 | 22.8 22.8 | 22.8 | 7.5 7.5 | 7.5 | 19.06 19.05 | 19.06 | 97.1 96.9 | 97 | 7.8 7.8 | 7.8 | 5.3 5.4 | 5.4 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 11:54:59 | Middle | 0.2 | 22.9 22.9 | 22.9 | 7.4 7.4 | 7.4 | 19.12 19.13 | 19.13 | 95.5 95.3 | 95.4 | 7.3 7.2 | 7.3 | 6.1 6.2 | 6.2 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 11:41:35 | Middle | 0.2 | 23.1 23.1 | 23.1 | 7.3 7.3 | 7.3 | 18.97 18.98 | 18.98 | 95.9 95.7 | 95.8 | 7.4 7.4 | 7.4 | 5.8 5.7 | 5.8 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 11:37:44 | Middle | 0.2 | 22.7 22.7 | 22.7 | 7.2 7.2 | 7.2 | 18.95 18.97 | 18.96 | 96.0 95.8 | 95.9 | 8.3 8.2 | 8.3 | 8.2 8.4 | 8.3 | 6.0 6.0 | 6 |
| 25-Aug-08 | Sunny | Calm | 12:24:47 | Middle | 0.2 | 23.0 23.0 | 23 | 7.3 7.3 | 7.3 | 18.79 18.80 | 18.8 | 97.0 96.8 | 96.9 | 7.8 7.8 | 7.8 | 6.4 6.3 | 6.4 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 13:57:58 | Middle | 0.2 | 23.1 23.1 | 23.1 | 7.4 7.4 | 7.4 | 19.01 19.02 | 19.02 | 98.1 97.9 | 98 | 8.2 8.1 | 8.2 | 6.7 6.6 | 6.7 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 11:46:25 | Middle | 0.2 | 23.0 23.0 | 23 | 7.3 7.3 | 7.3 | 19.21 19.22 | 19.22 | 96.2 96.0 | 96.1 | 7.5 7.5 | 7.5 | 6.1 6.0 | 6.1 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

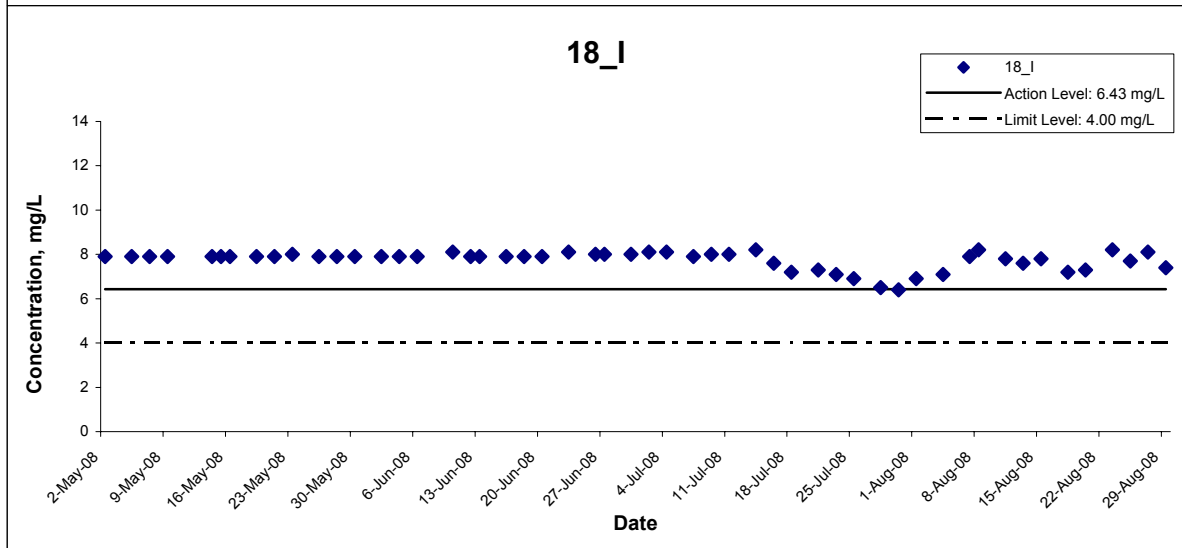
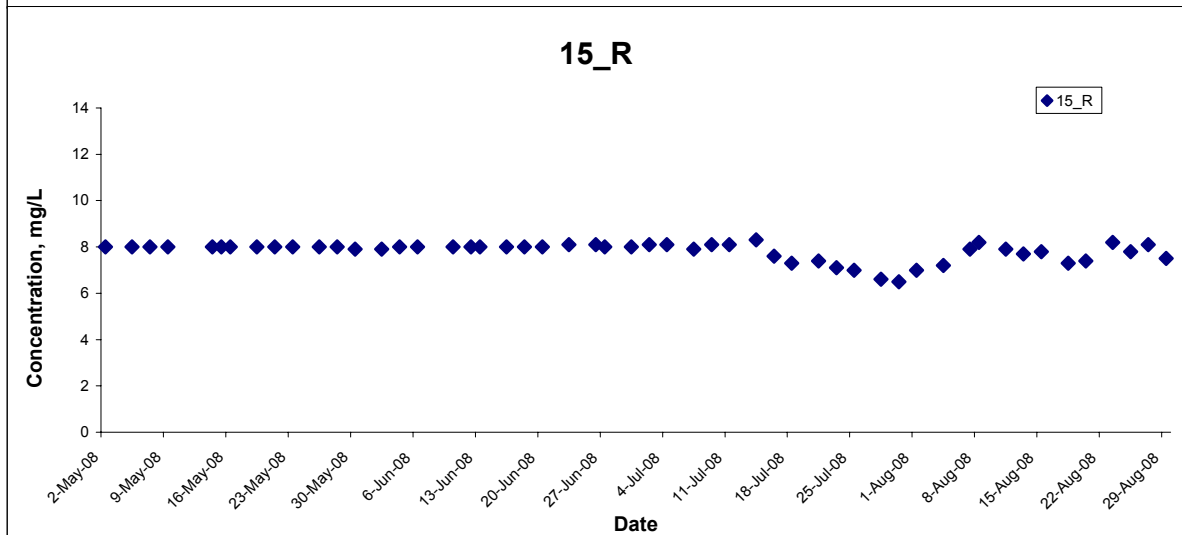
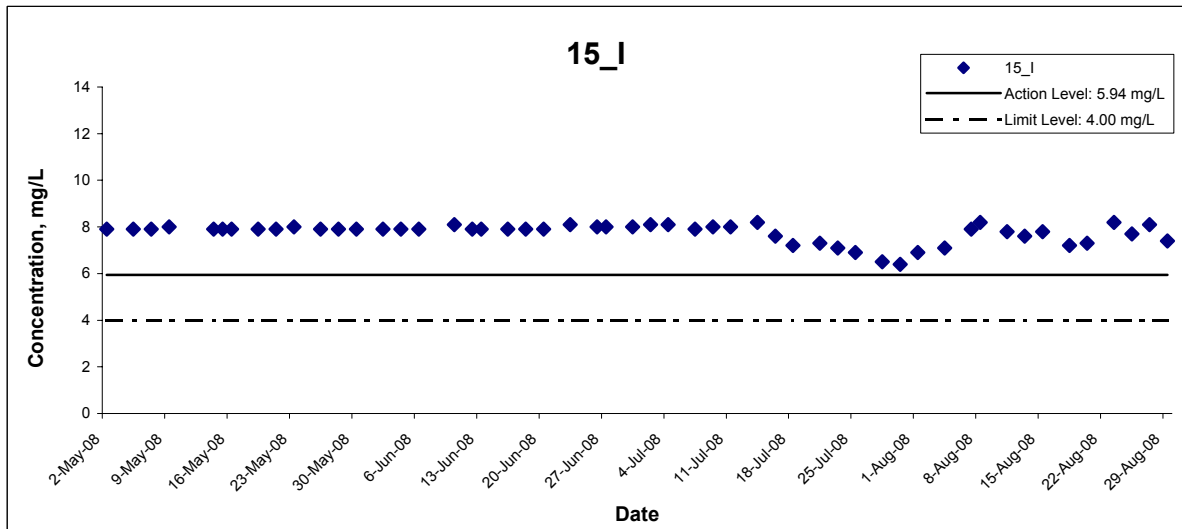
Water Quality Monitoring Results at TCS_I

| Date | Weather Condition | Sea Condition* | Sampling Time | Depth (m) | | Temperature (°C) | | pH | | Salinity ppt | | DO Saturation (%) | | Dissolved Oxygen (mg/L) | | Turbidity(NTU) | | Suspended Solids (mg/L) | |
|-----------|-------------------|----------------|---------------|-----------|-----|------------------|---------|------------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------------|---------|
| | | | | | | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average | Value | Average |
| 1-Aug-08 | Sunny | Calm | 11:46:16 | Middle | 0.2 | 21.3 21.3 | 21.3 | 7.3 7.3 | 7.3 | 0.02 0.02 | 0.02 | 90.6 90.2 | 90.4 | 6.9 6.9 | 6.9 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 4-Aug-08 | Sunny | Calm | 11:12:55 | Middle | 0.2 | 21.3 21.3 | 21.3 | 8.0 8.0 | 8 | 0.02 0.02 | 0.02 | 91.3 90.9 | 91.1 | 7.1 7.1 | 7.1 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 7-Aug-08 | Rainy | Calm | 11:09:13 | Middle | 0.2 | 21.2 21.3 | 21.3 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 93.6 93.2 | 93.4 | 7.9 7.9 | 7.9 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 8-Aug-08 | Rainy | Calm | 11:42:27 | Middle | 0.2 | 21.4 21.4 | 21.4 | 7.8 7.8 | 7.8 | 0.02 0.02 | 0.02 | 94.4 94.0 | 94.2 | 8.1 8.1 | 8.1 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 11-Aug-08 | Rainy | Calm | 11:39:11 | Middle | 0.2 | 21.2 21.2 | 21.2 | 7.7 7.7 | 7.7 | 0.02 0.02 | 0.02 | 93.5 93.1 | 93.3 | 7.8 7.8 | 7.8 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 13-Aug-08 | Sunny | Calm | 12:12:27 | Middle | 0.2 | 21.4 21.4 | 21.4 | 7.6 7.7 | 7.7 | 0.02 0.02 | 0.02 | 92.9 92.5 | 92.7 | 7.6 7.6 | 7.6 | 1.8 1.8 | 1.8 | <2.5 <2.5 | <2.5 |
| 15-Aug-08 | Sunny | Calm | 12:36:53 | Middle | 0.2 | 21.5 21.5 | 21.5 | 7.5 7.6 | 7.6 | 0.02 0.02 | 0.02 | 93.3 92.9 | 93.1 | 7.7 7.7 | 7.7 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 18-Aug-08 | Sunny | Calm | 11:37:14 | Middle | 0.2 | 21.6 21.7 | 21.7 | 7.5 7.5 | 7.5 | 0.02 0.02 | 0.02 | 91.7 91.3 | 91.5 | 7.2 7.2 | 7.2 | 2.0 2.0 | 2 | <2.5 <2.5 | <2.5 |
| 20-Aug-08 | Sunny | Calm | 11:23:50 | Middle | 0.2 | 21.8 21.8 | 21.8 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 92.1 91.7 | 91.9 | 7.3 7.3 | 7.3 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |
| 23-Aug-08 | Sunny | Calm | 11:19:59 | Middle | 0.2 | 21.4 21.4 | 21.4 | 7.3 7.3 | 7.3 | 0.02 0.02 | 0.02 | 92.2 91.8 | 92 | 8.2 8.2 | 8.2 | 2.3 2.3 | 2.3 | <2.5 3.0 | 2.8 |
| 25-Aug-08 | Sunny | Calm | 12:07:02 | Middle | 0.2 | 21.7 21.7 | 21.7 | 7.3 7.3 | 7.3 | 0.02 0.02 | 0.02 | 93.2 92.8 | 93 | 7.7 7.7 | 7.7 | 2.1 2.1 | 2.1 | <2.5 <2.5 | <2.5 |
| 27-Aug-08 | Sunny | Calm | 13:40:13 | Middle | 0.2 | 21.8 21.8 | 21.8 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 94.3 93.9 | 94.1 | 8.1 8.1 | 8.1 | 2.2 2.2 | 2.2 | <2.5 <2.5 | <2.5 |
| 29-Aug-08 | Sunny | Calm | 11:28:40 | Middle | 0.2 | 21.7 21.7 | 21.7 | 7.4 7.4 | 7.4 | 0.02 0.02 | 0.02 | 92.4 92.0 | 92.2 | 7.4 7.4 | 7.4 | 1.9 1.9 | 1.9 | <2.5 <2.5 | <2.5 |

The reporting limit for laboratory analysis of suspended solids is 2.5 mg/L. For the results below the reporting limit, the SS level will be taken as 2.5 mg/L.

Remarks: * Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

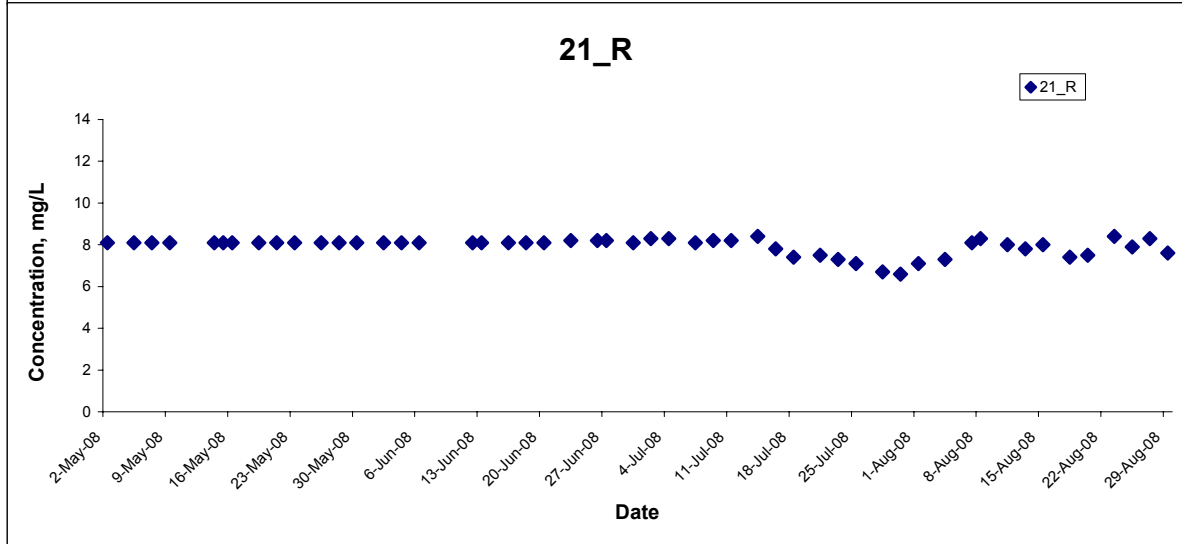
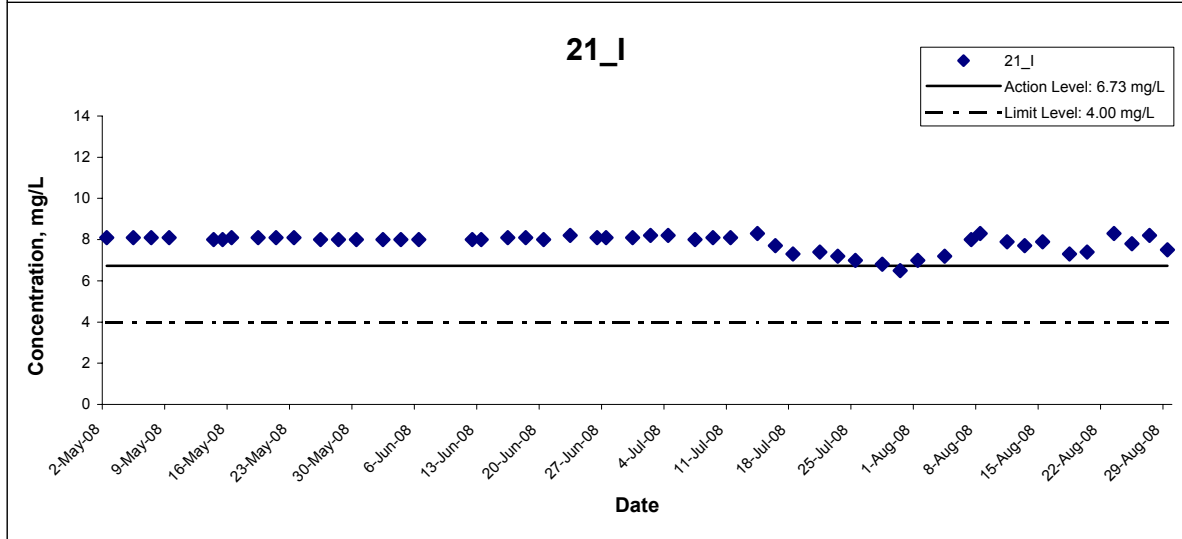
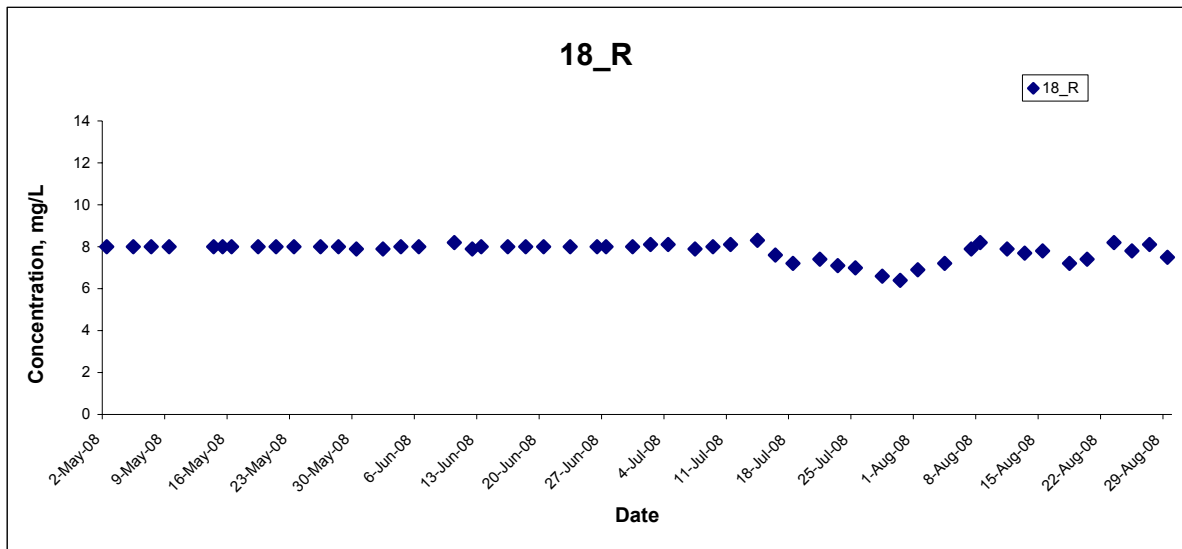
Dissolved Oxygen



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| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale | N.T.S | Project No. | MA6030 |
| | Date | Aug 08 | Appendix | F |

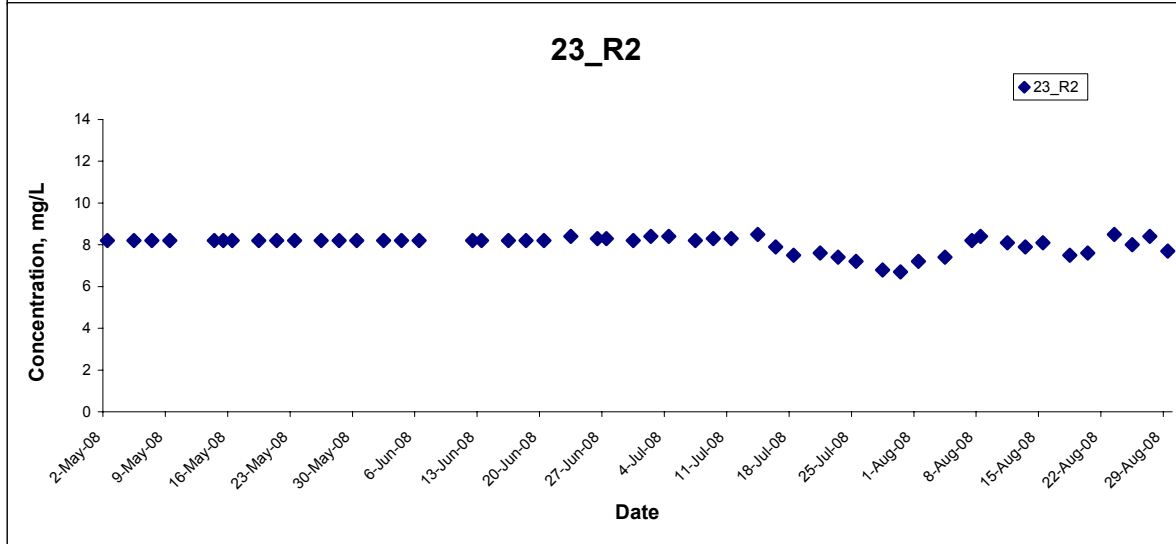
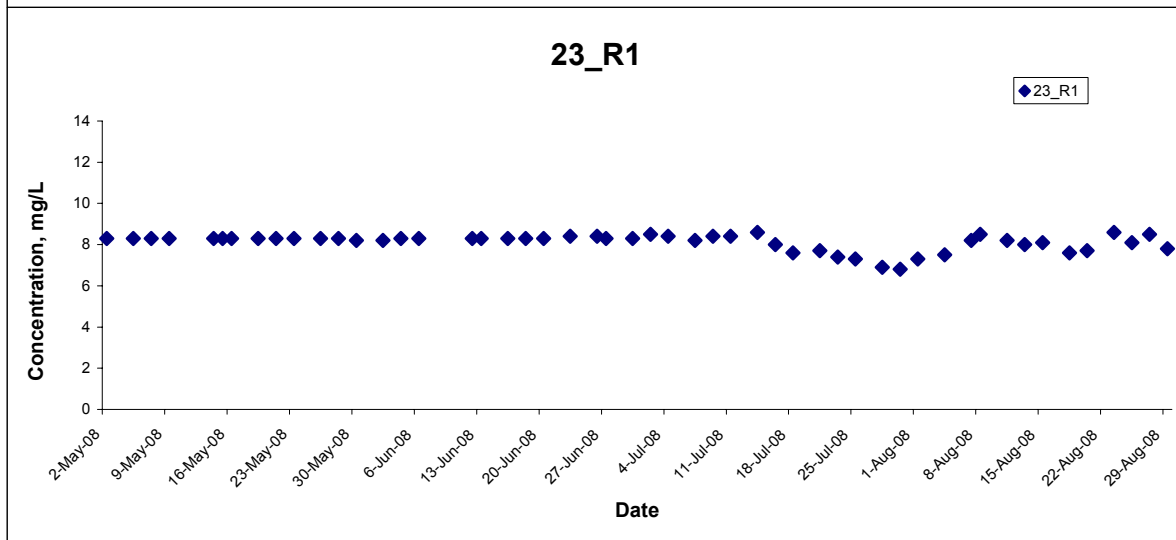
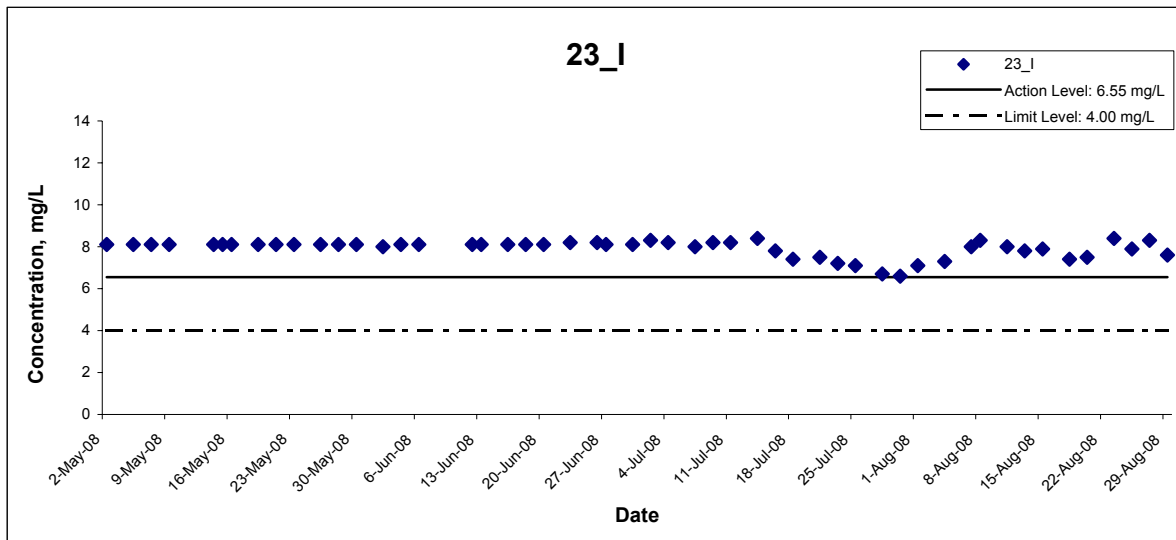
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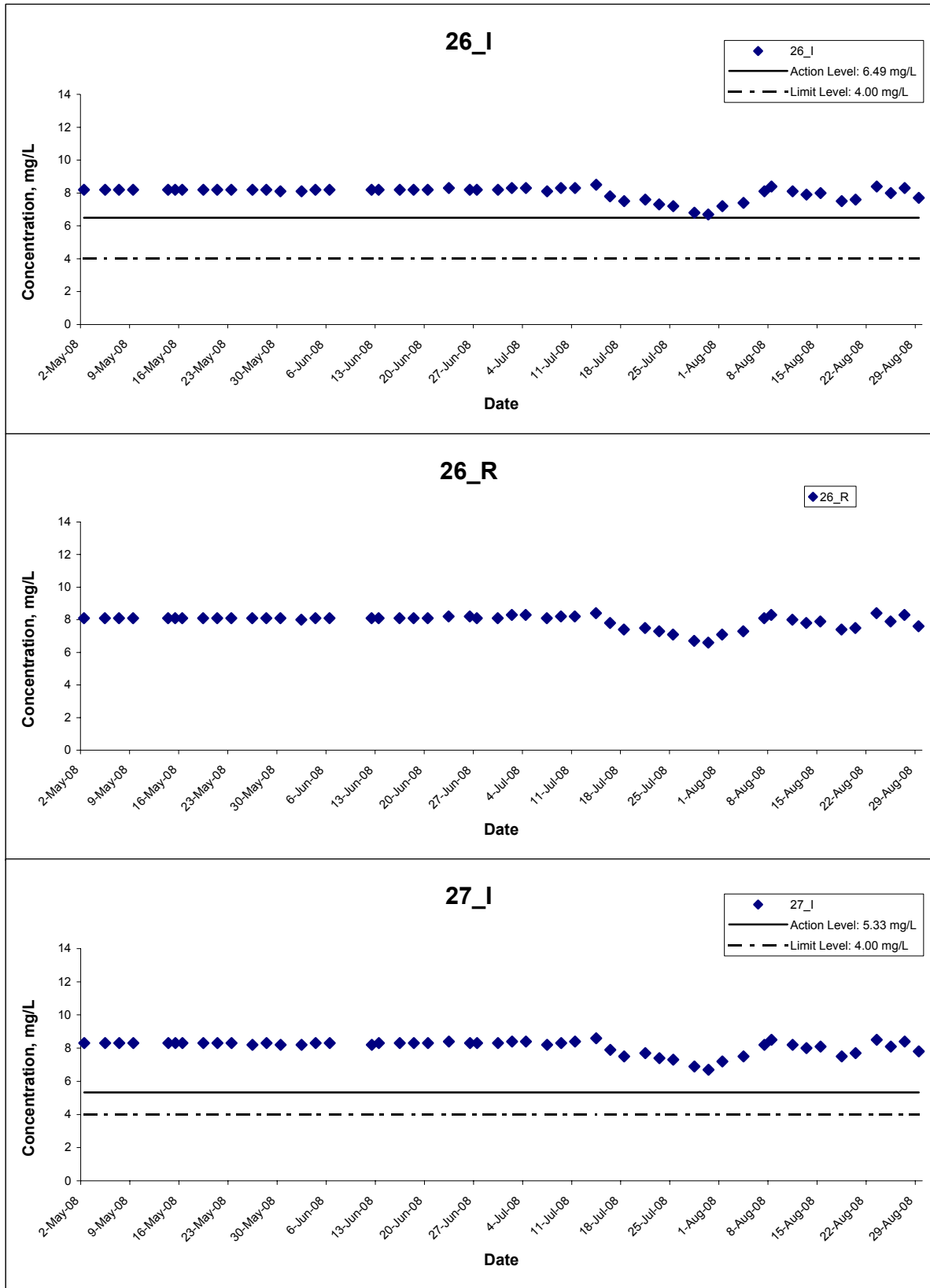
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| | Date Aug 08 | Appendix F | |

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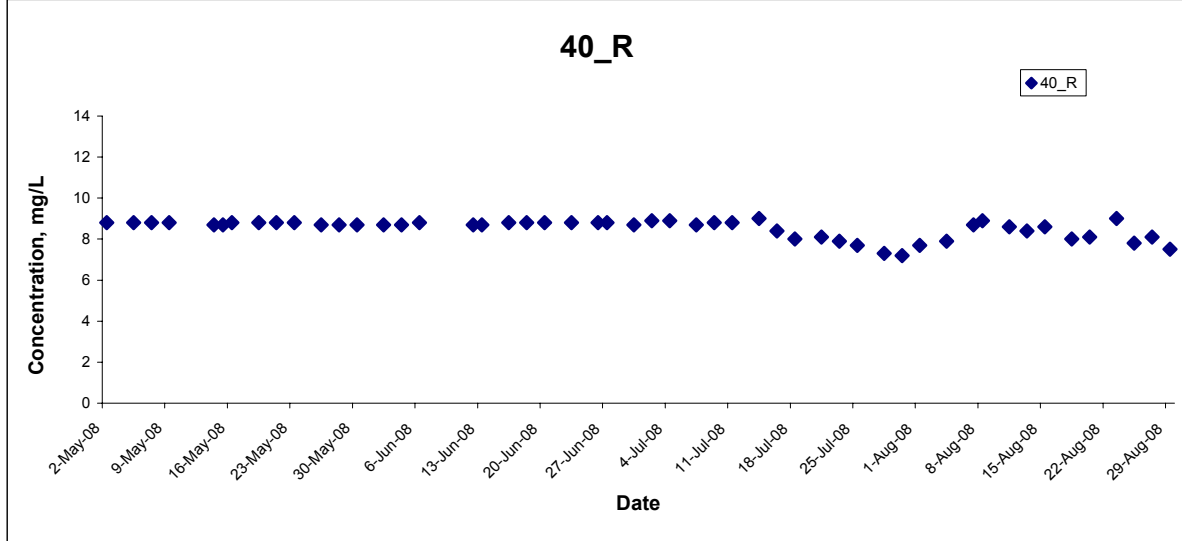
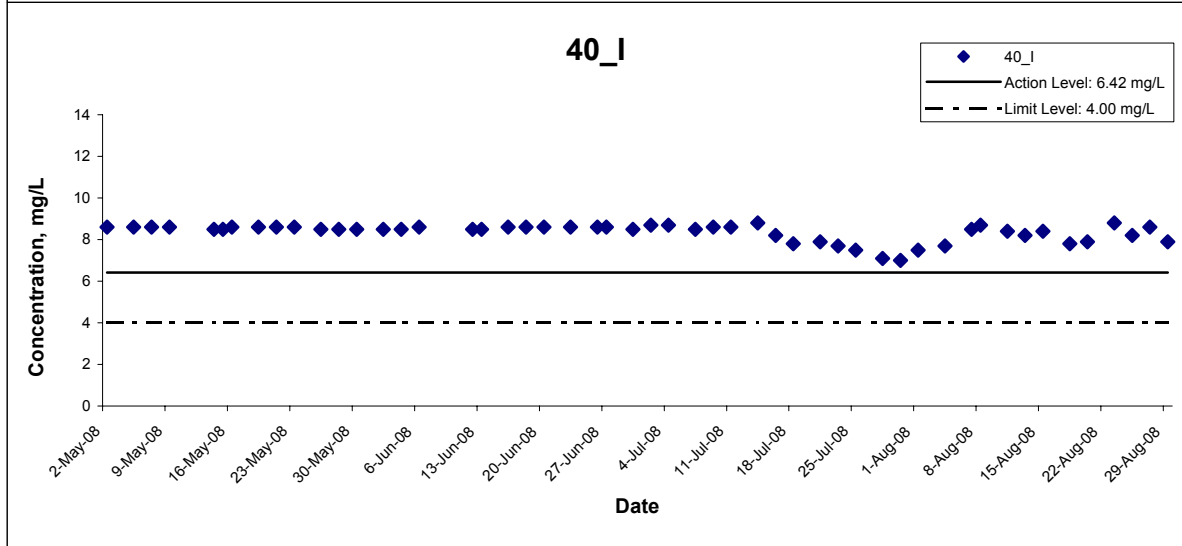
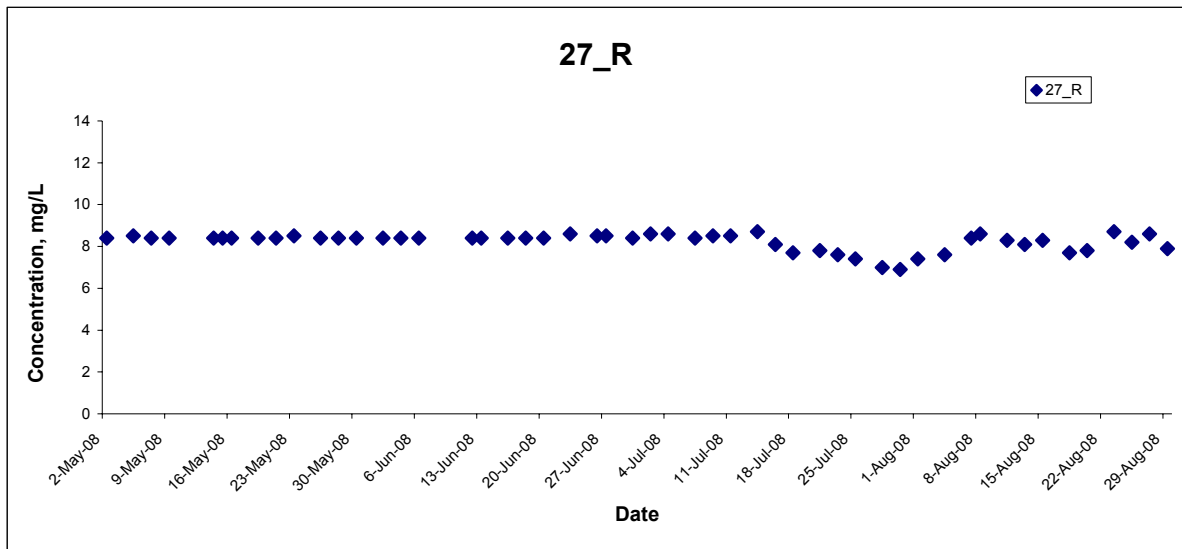
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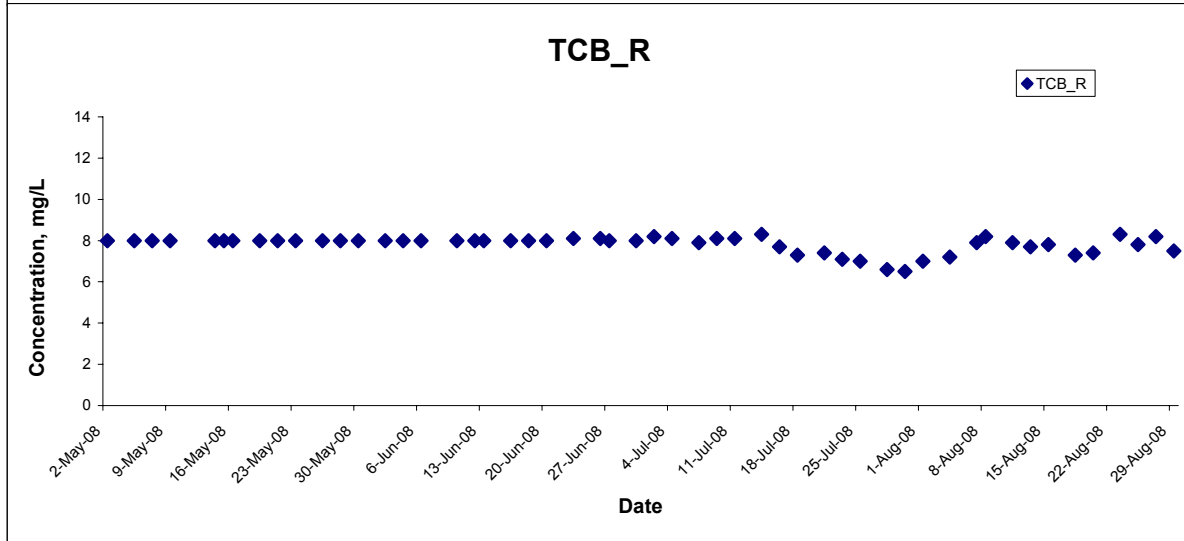
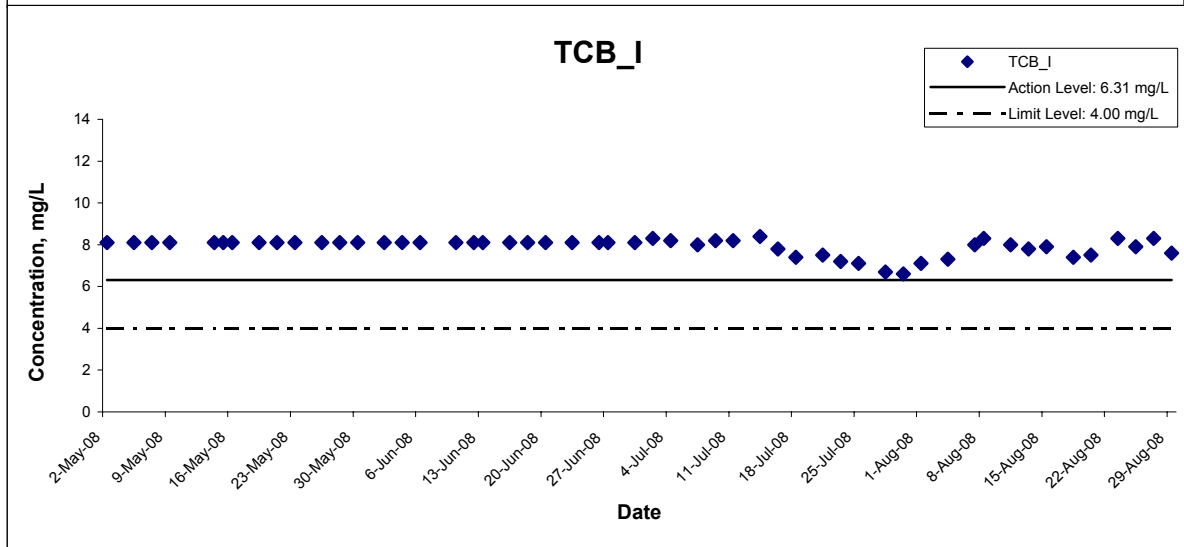
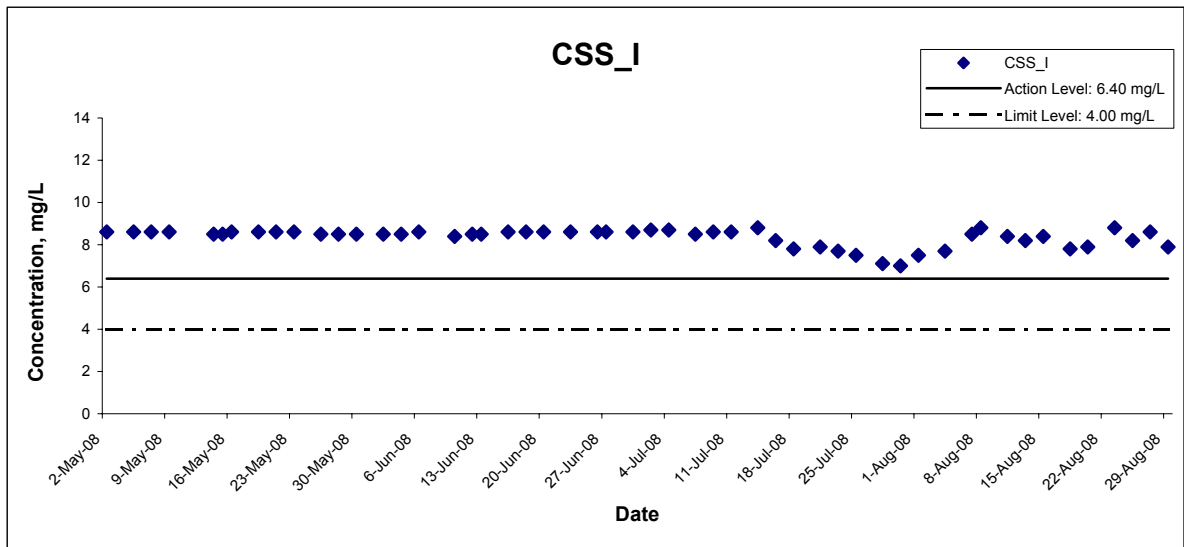
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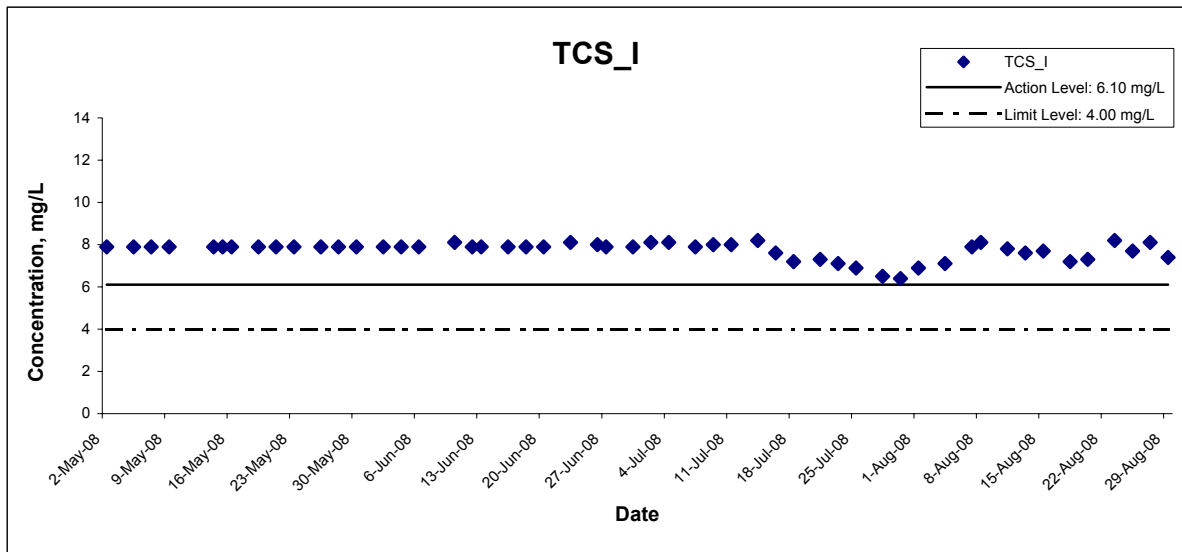
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| | Date Aug 08 | Appendix F | |

Dissolved Oxygen



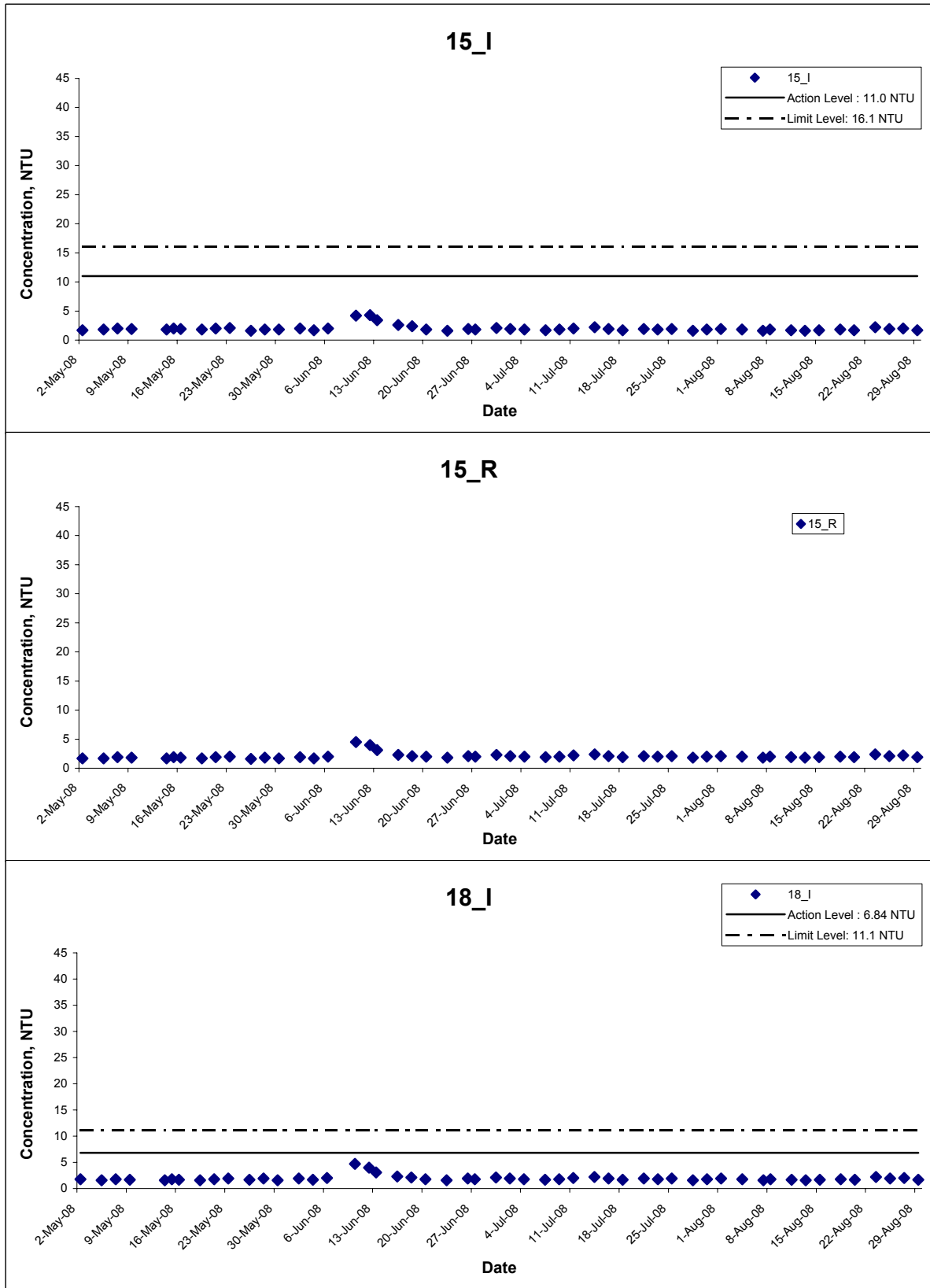
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| | Date Aug 08 | Appendix F | |

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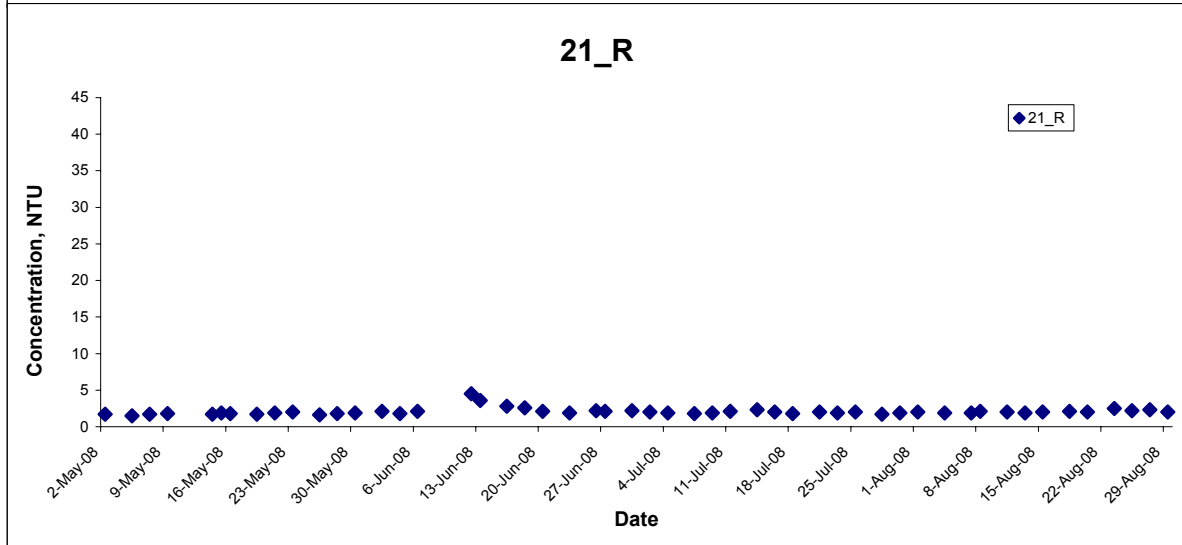
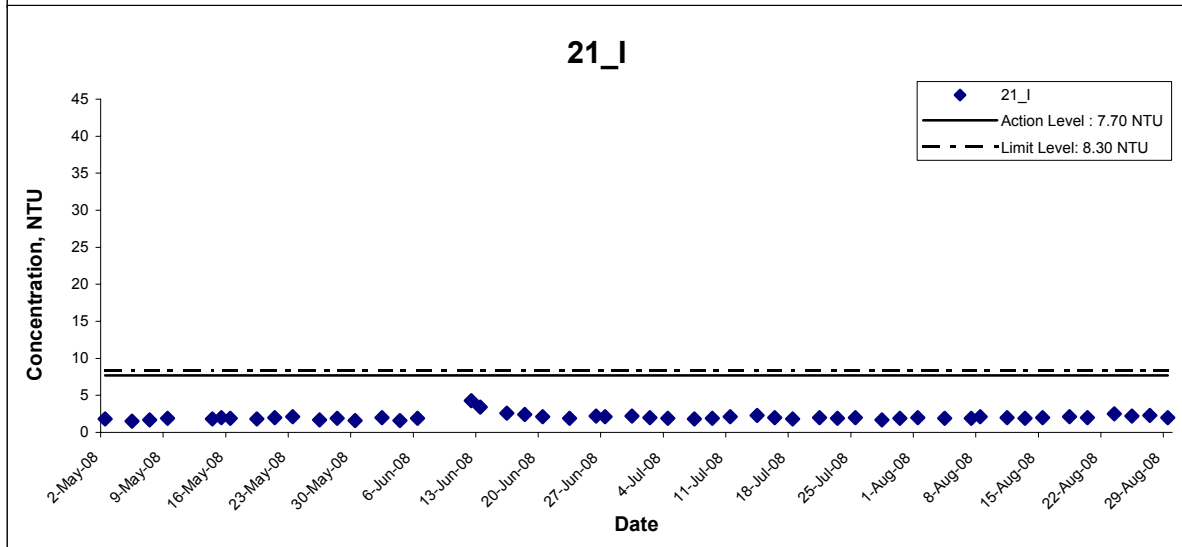
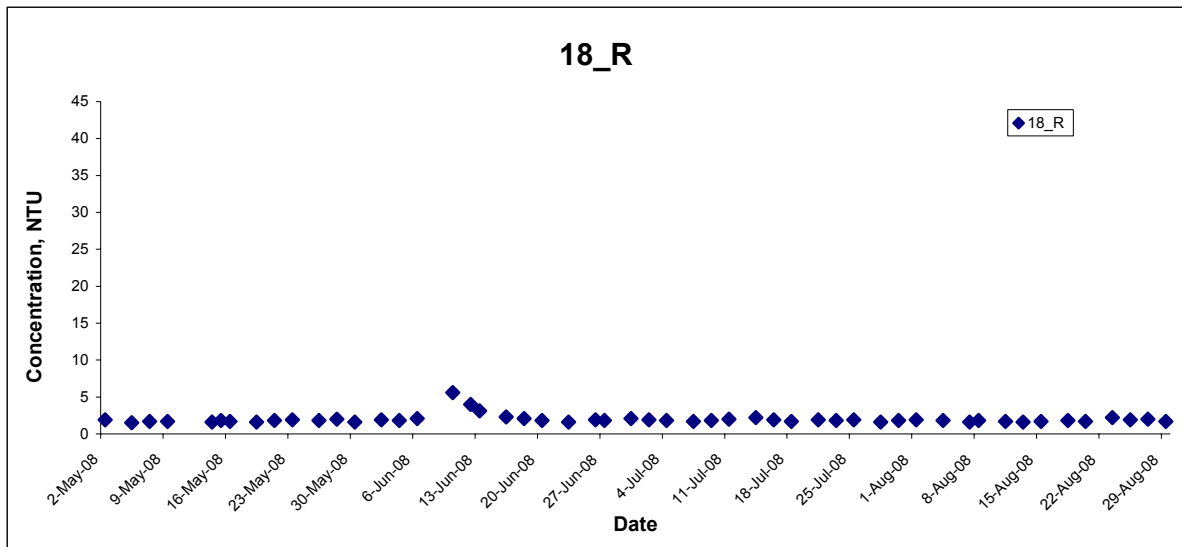
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| | Date Aug 08 | Appendix F | |

Turbidity



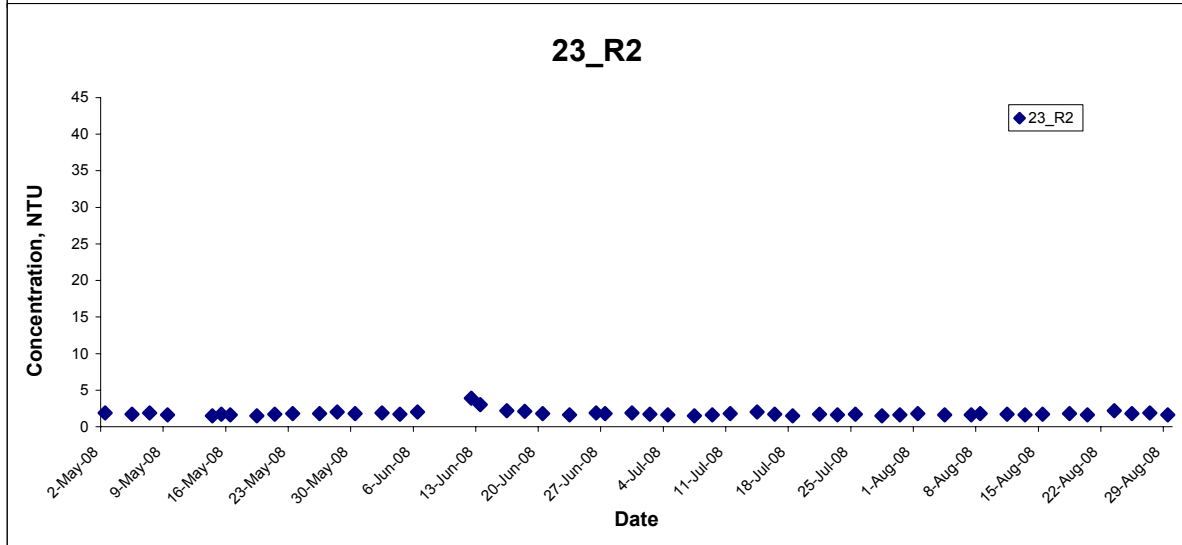
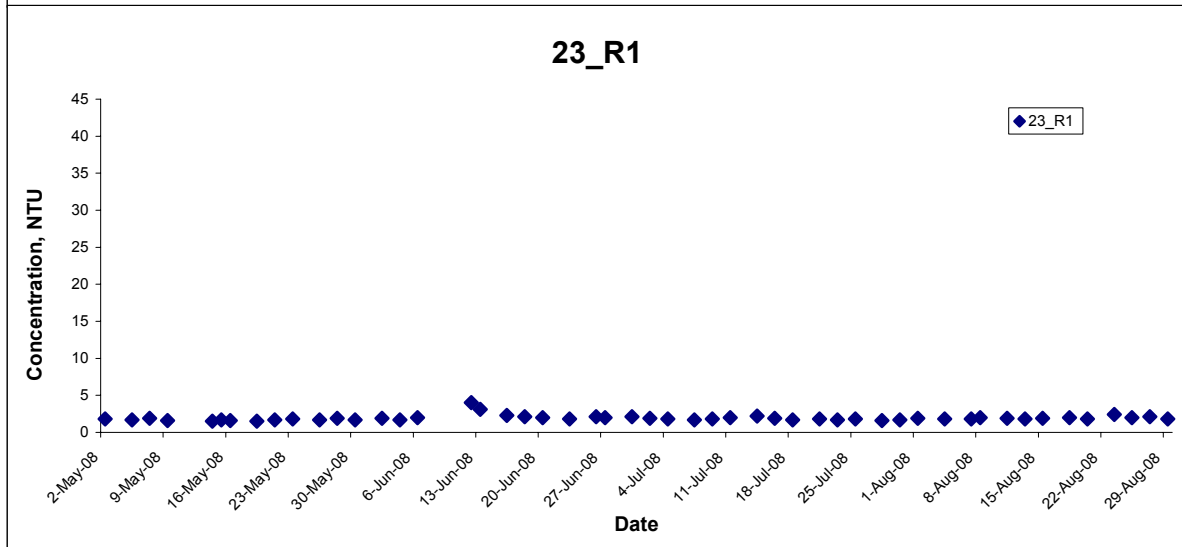
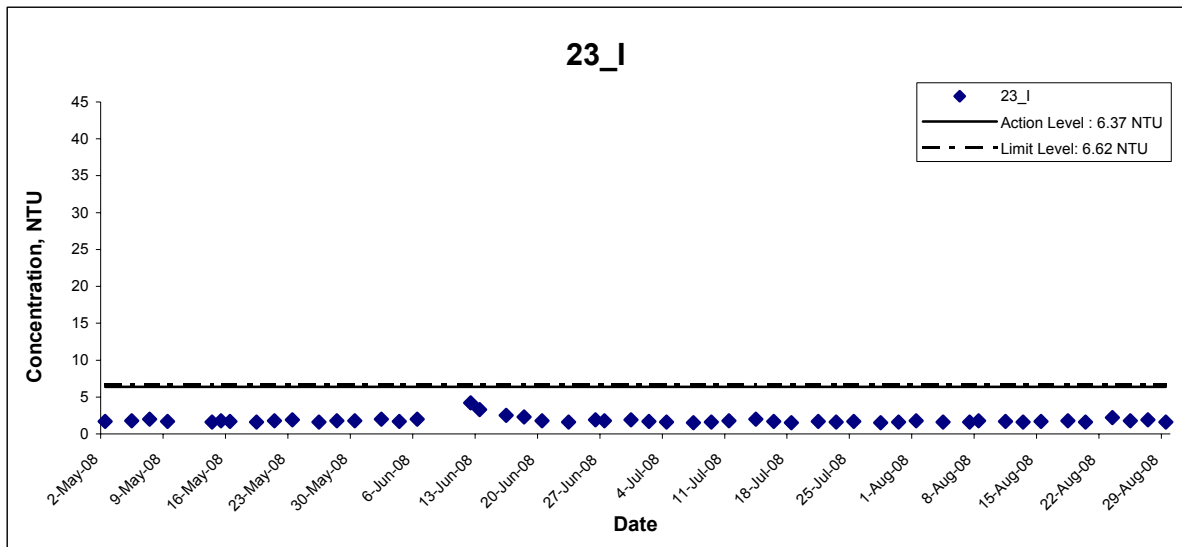
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| | Date Aug 08 | Appendix F | |

Turbidity



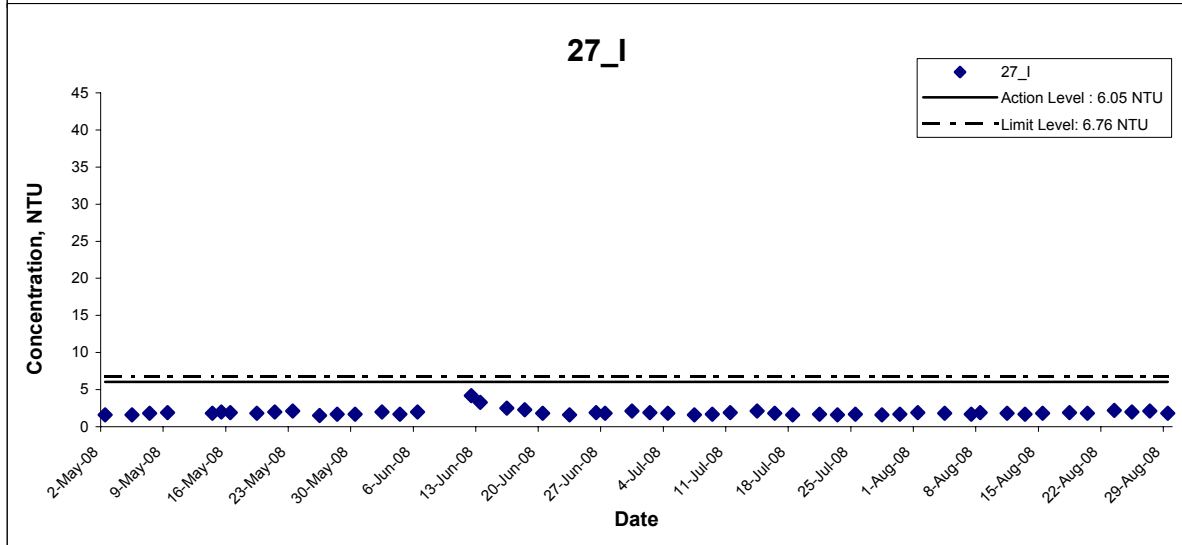
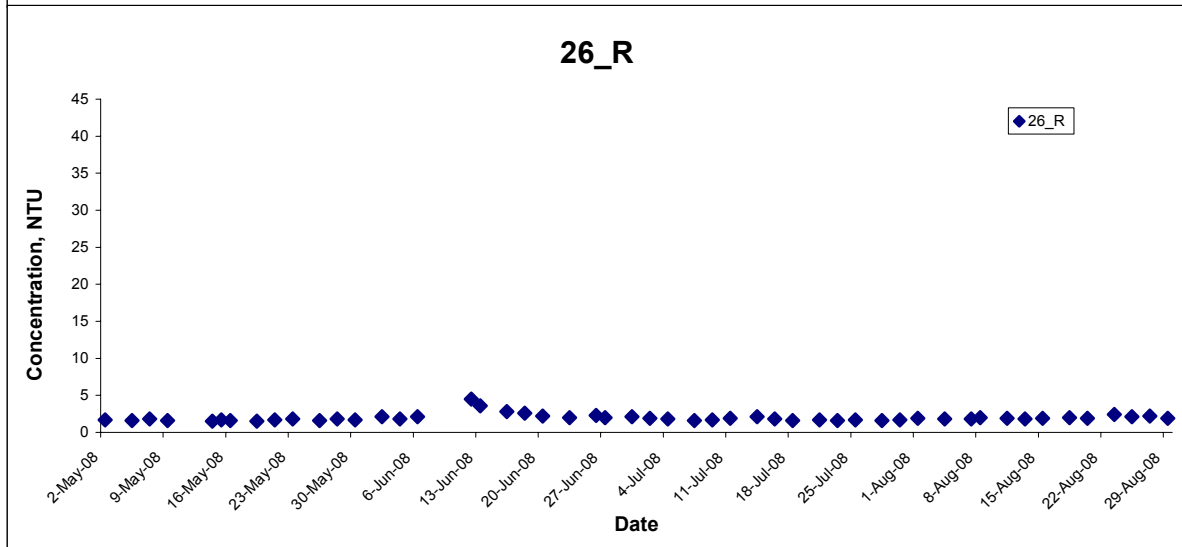
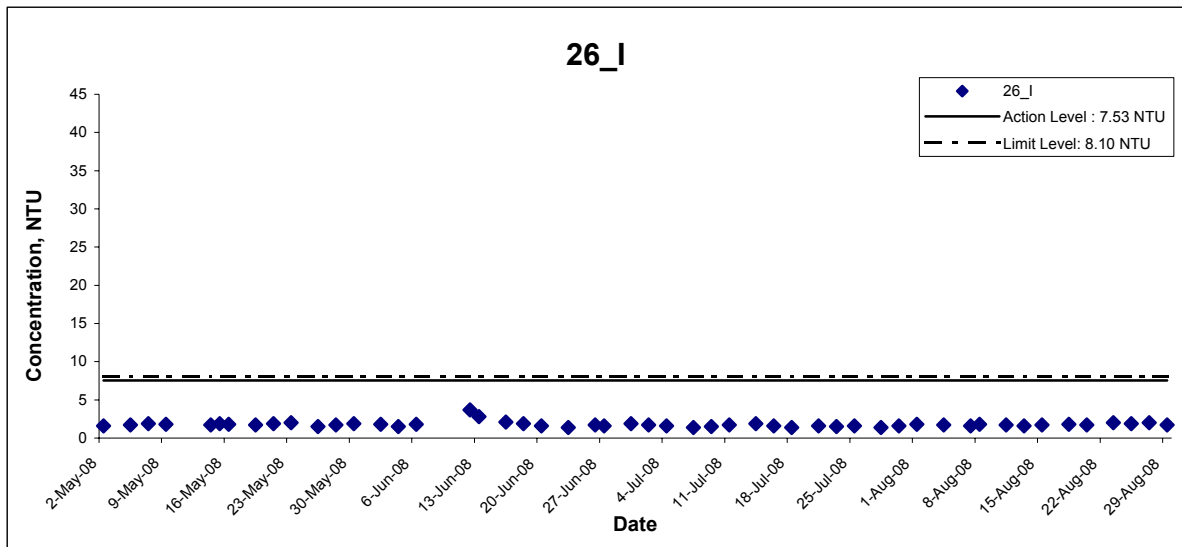
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| | Date Aug 08 | Appendix F | |

Turbidity



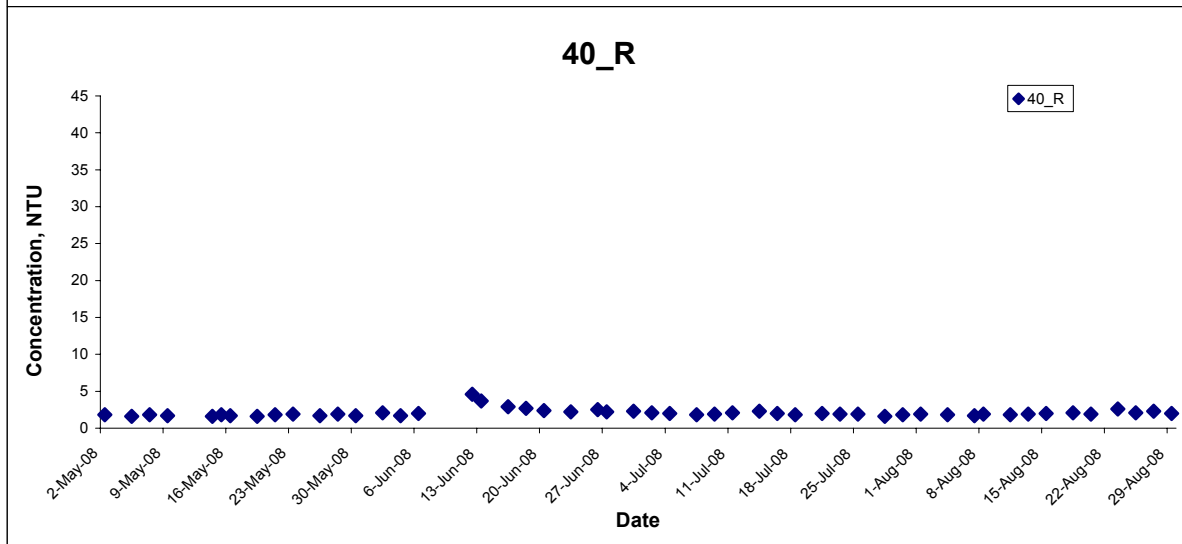
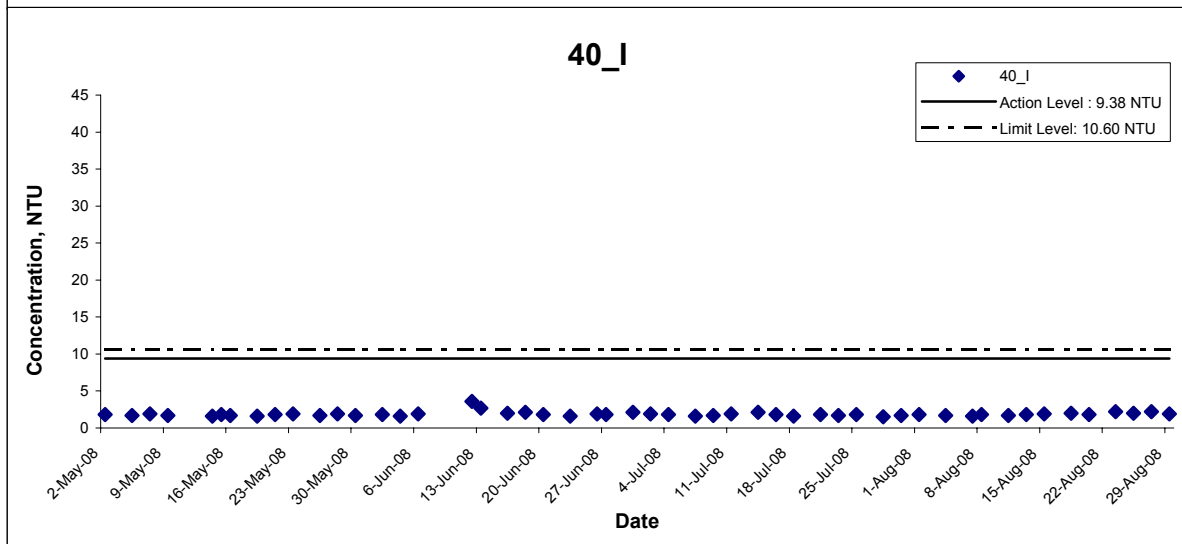
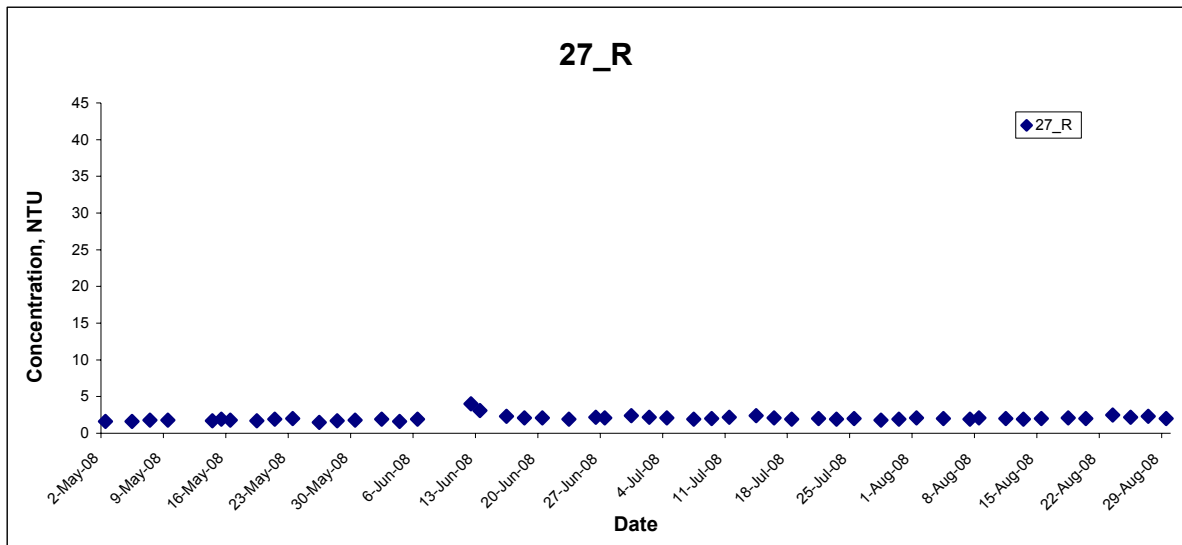
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| | Date Aug 08 | Appendix F | |

Turbidity



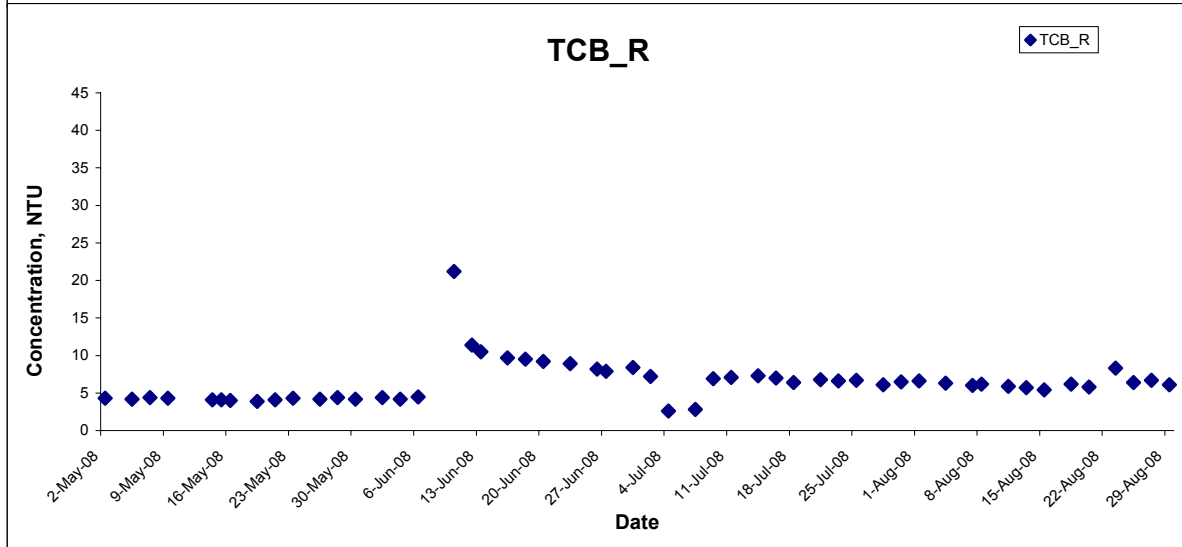
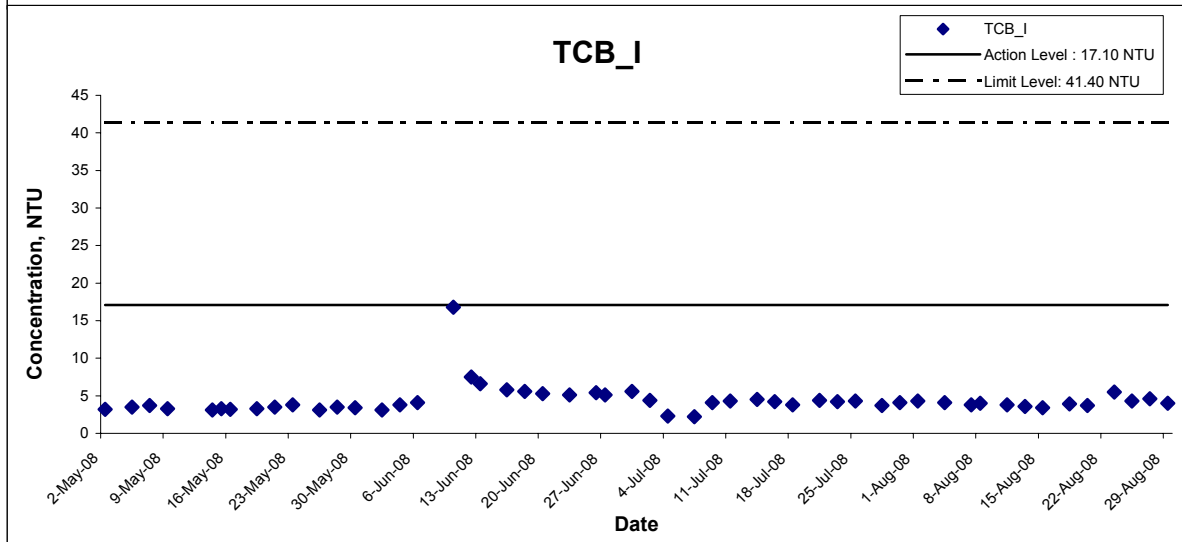
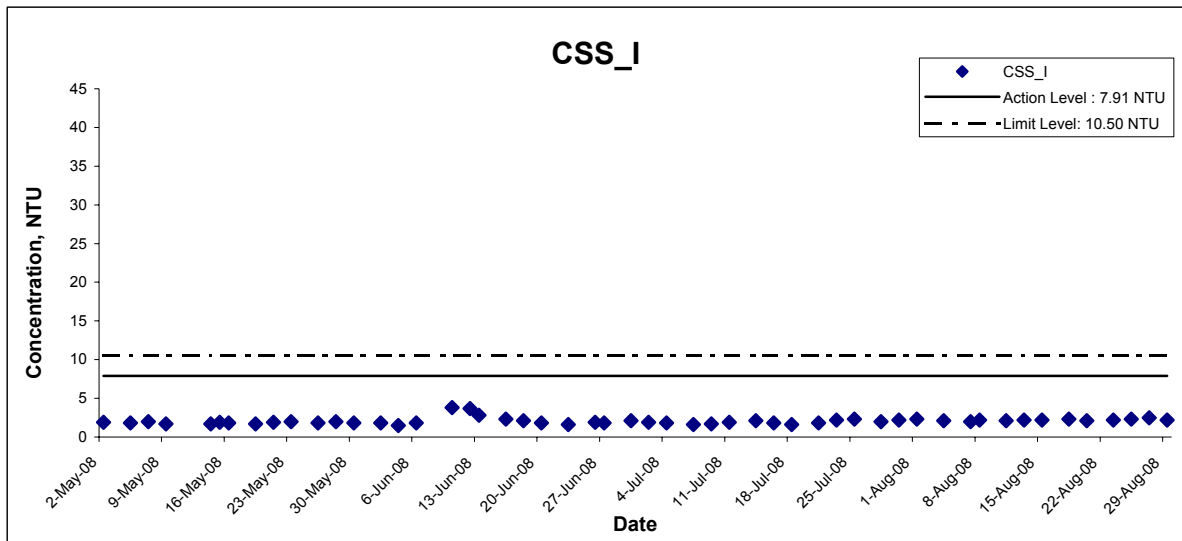
| | | | |
|--|----------------|-----------------------|----------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale N.T.S | Project No. MA6030 | CINOTECH |
| | Date Aug 08 | Appendix F | |

Turbidity



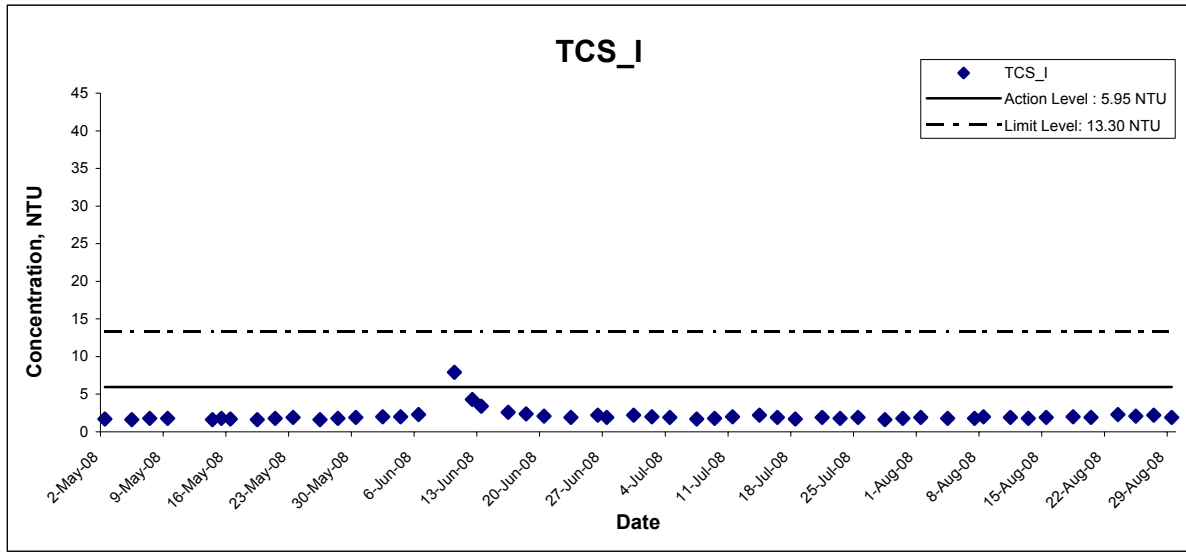
| | | | |
|--|----------------|-----------------------|--|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale N.T.S | Project No. MA6030 | |
| | Date Aug 08 | Appendix F | |

Turbidity



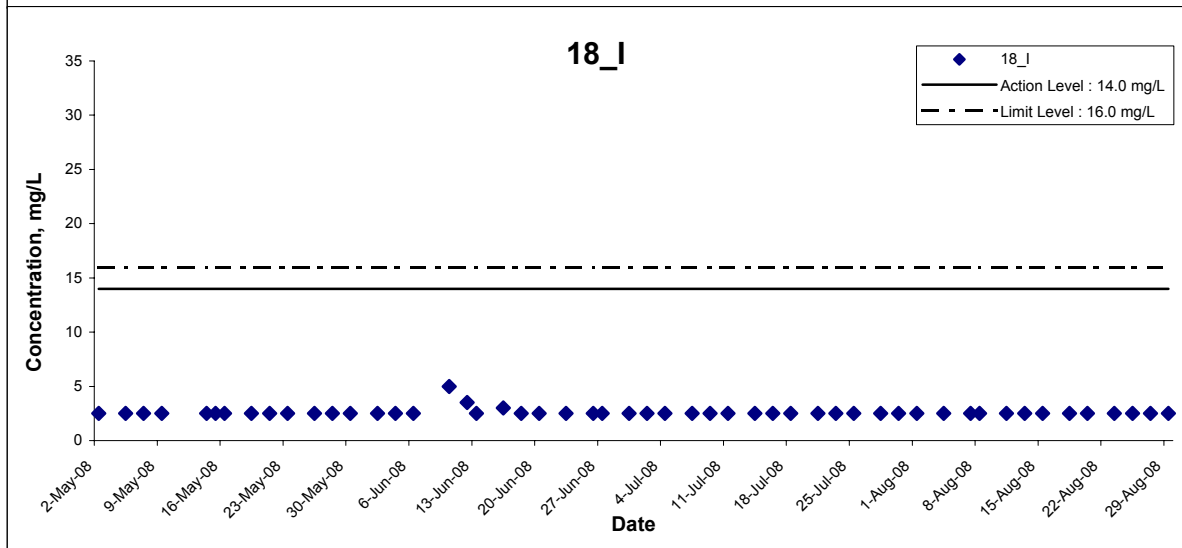
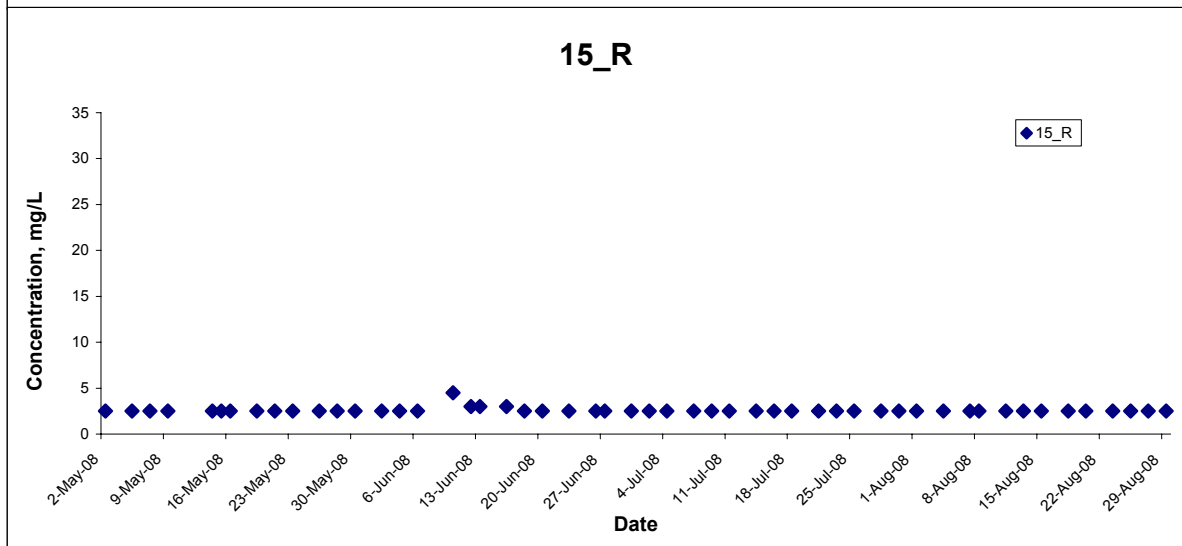
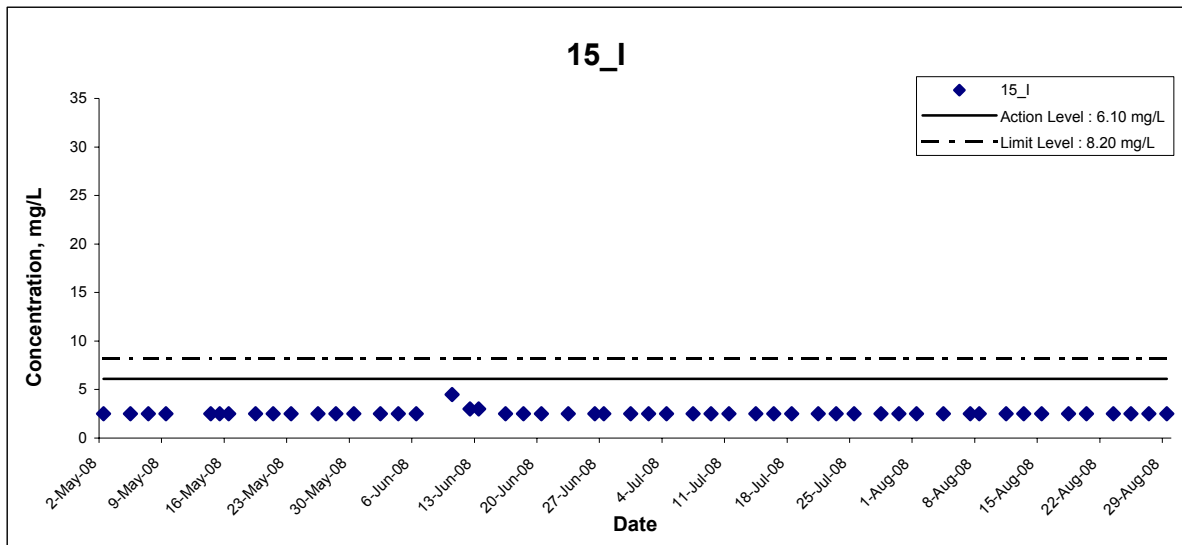
| | | | |
|--|----------------|-----------------------|----------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale N.T.S | Project No. MA6030 | CINOTECH |
| | Date Aug 08 | Appendix F | |

Turbidity



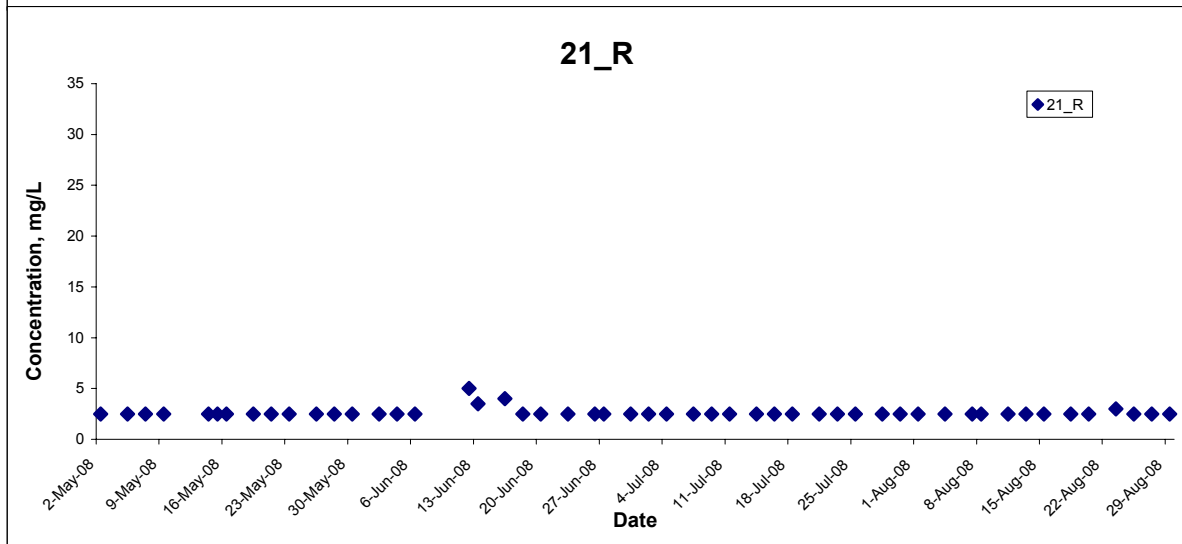
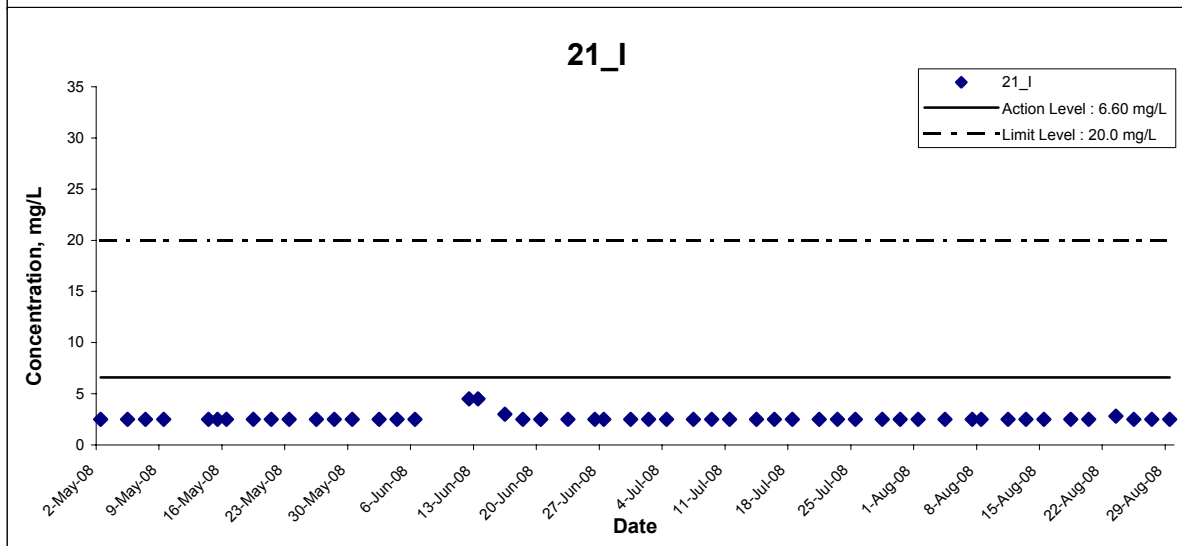
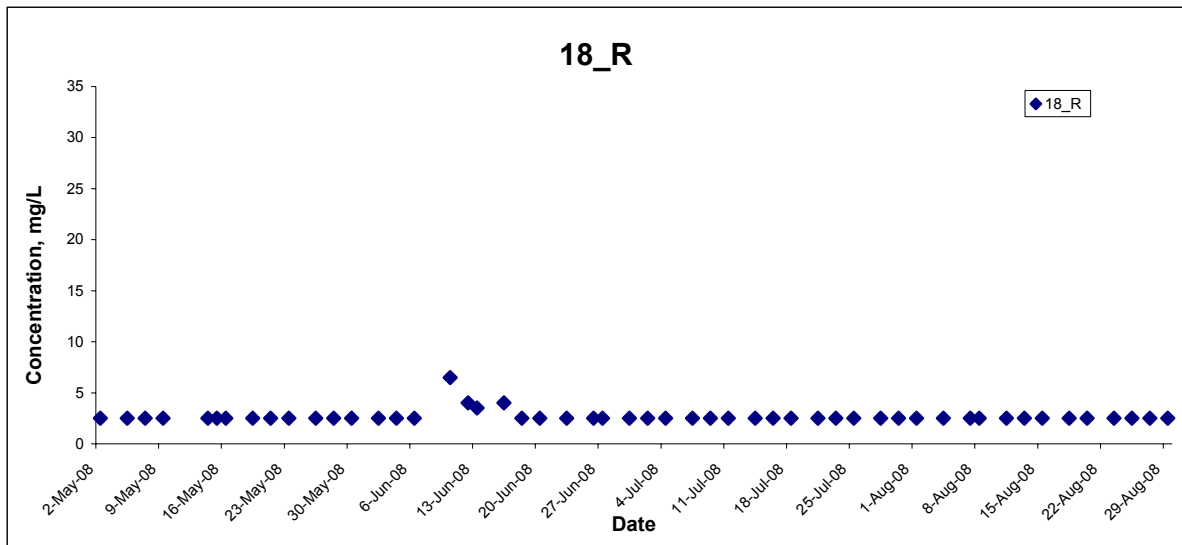
| | | | |
|--|----------------|-----------------------|-----------------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale N.T.S | Project No. MA6030 | CINOTECH |
| | Date Aug 08 | Appendix F | |

Suspended Solids



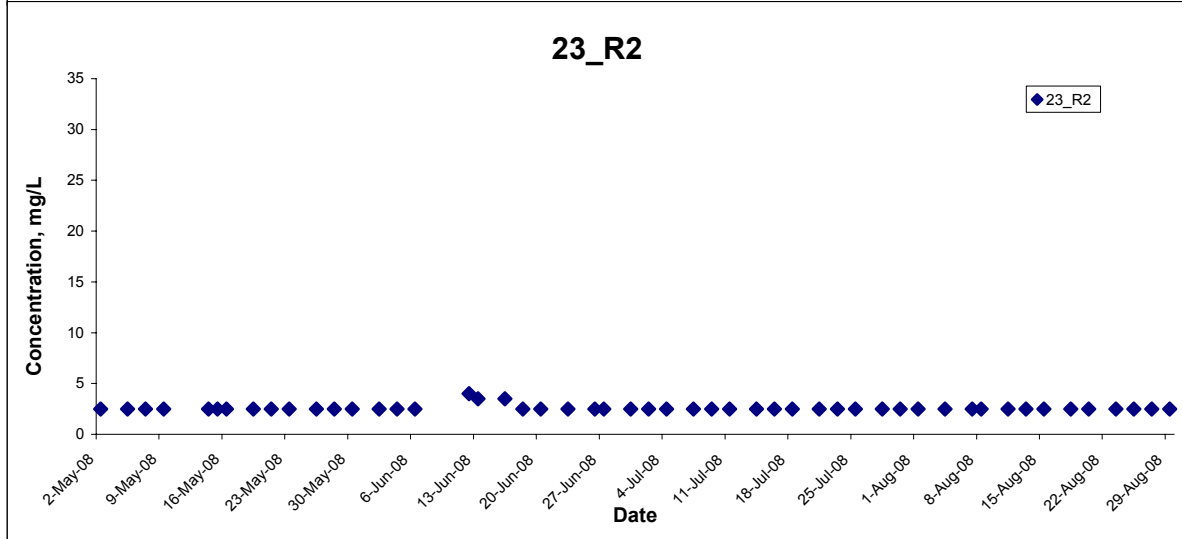
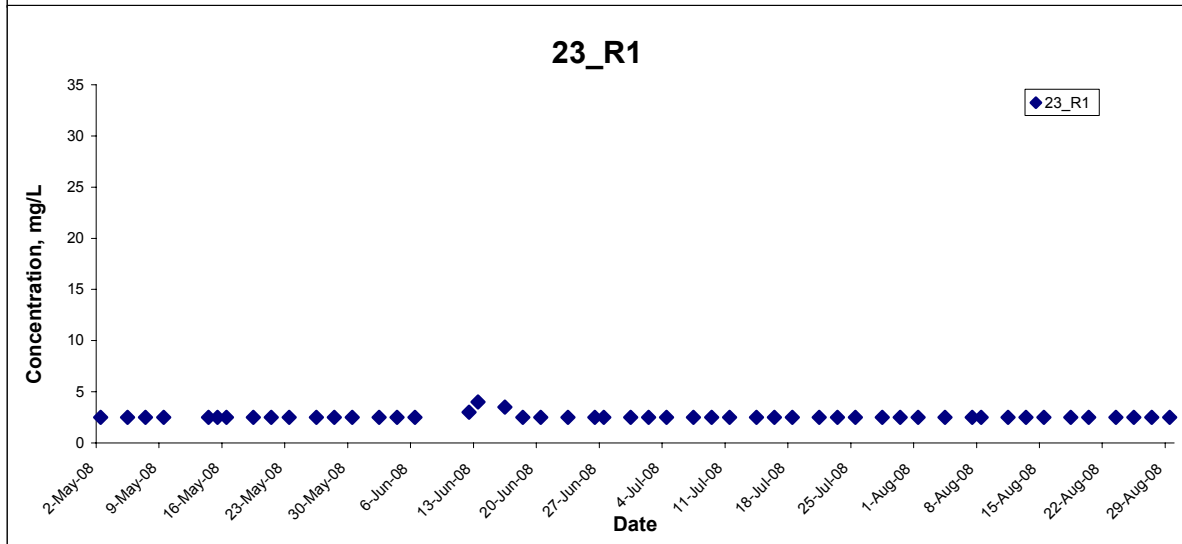
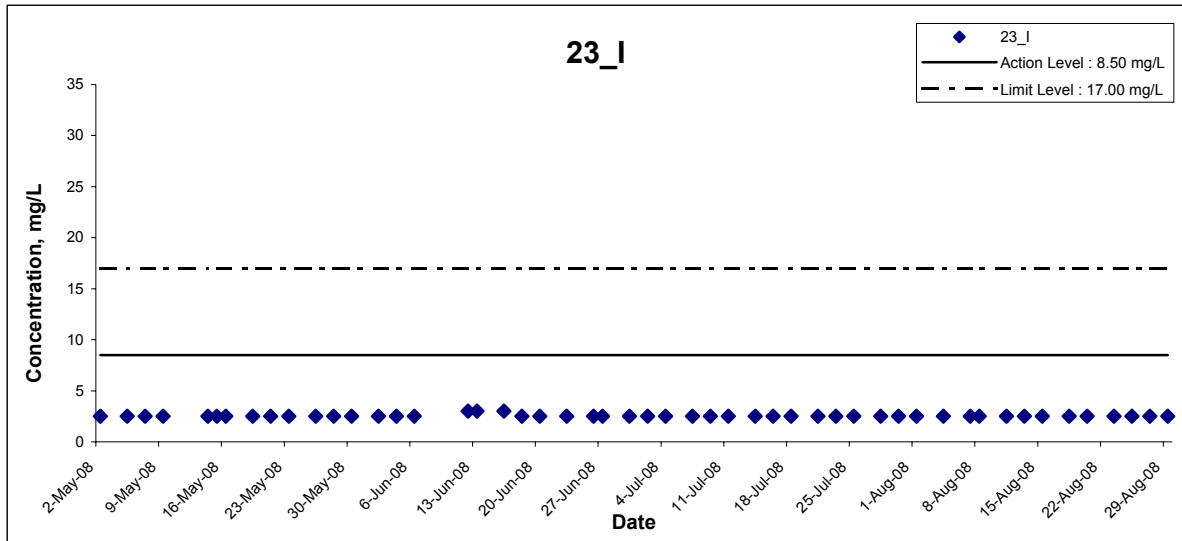
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|--|-------|--------|-----------------------|----------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale | N.T.S | Project No. MA6030 | CINOTECH |
| | Date | Aug 08 | Appendix F | |

Suspended Solids



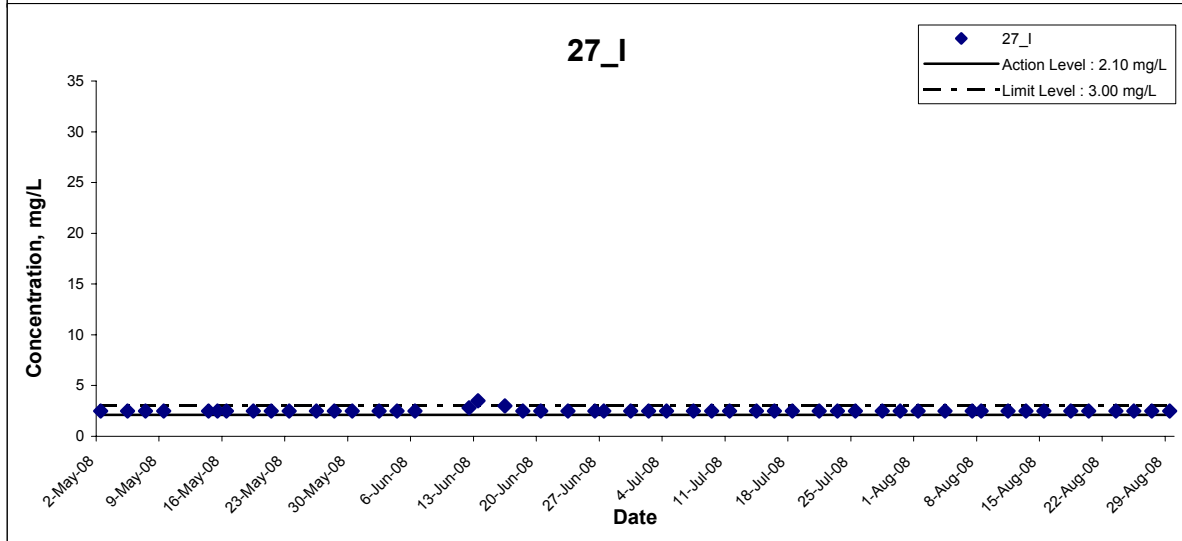
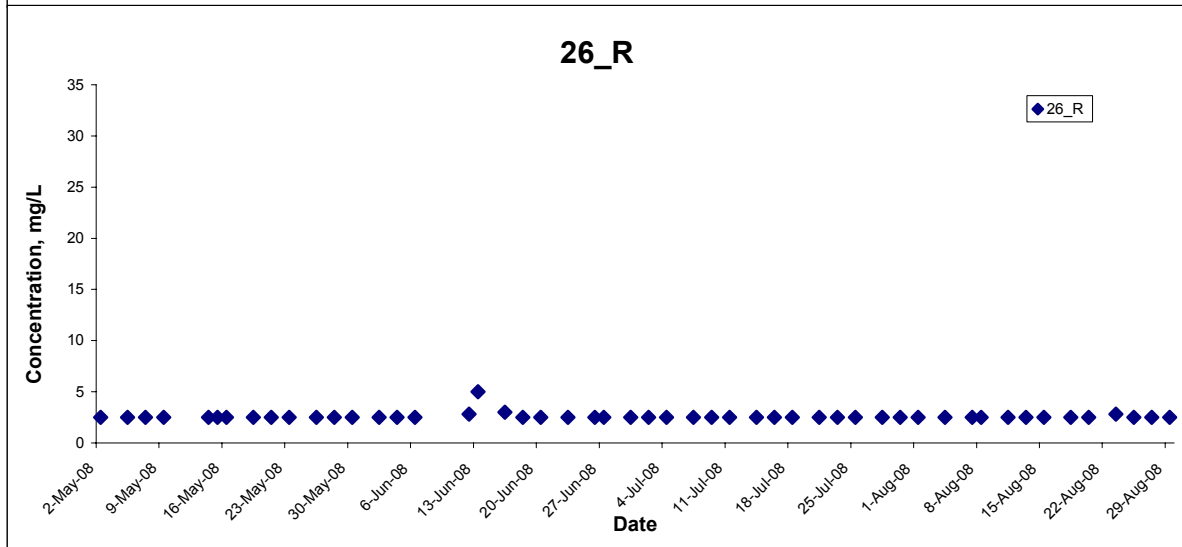
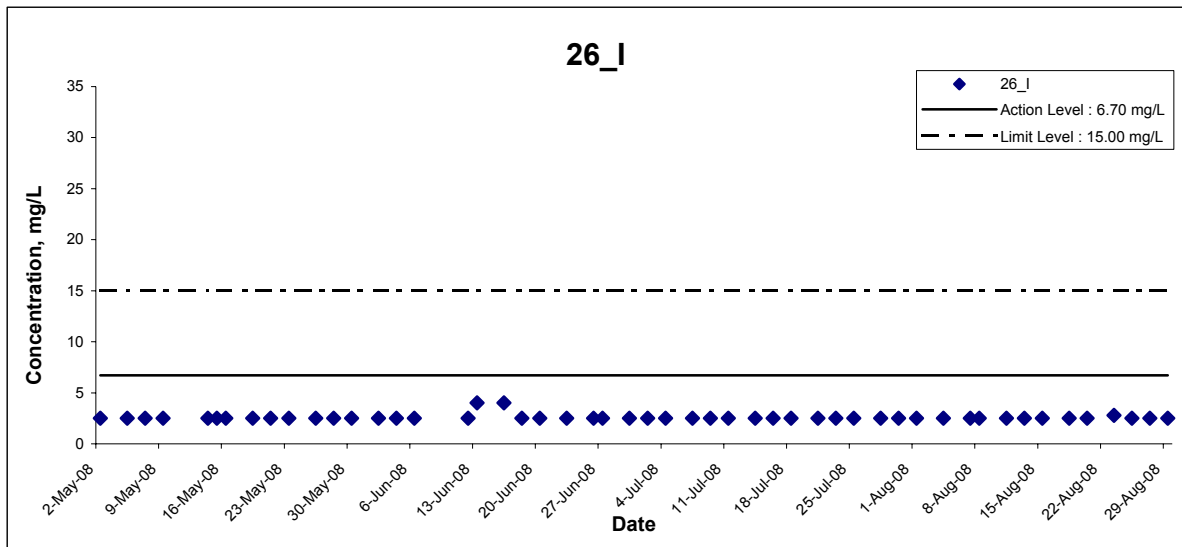
| | | | |
|--|----------------|-----------------------|----------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale N.T.S | Project No. MA6030 | CINOTECH |
| | Date Aug 08 | Appendix F | |

Suspended Solids



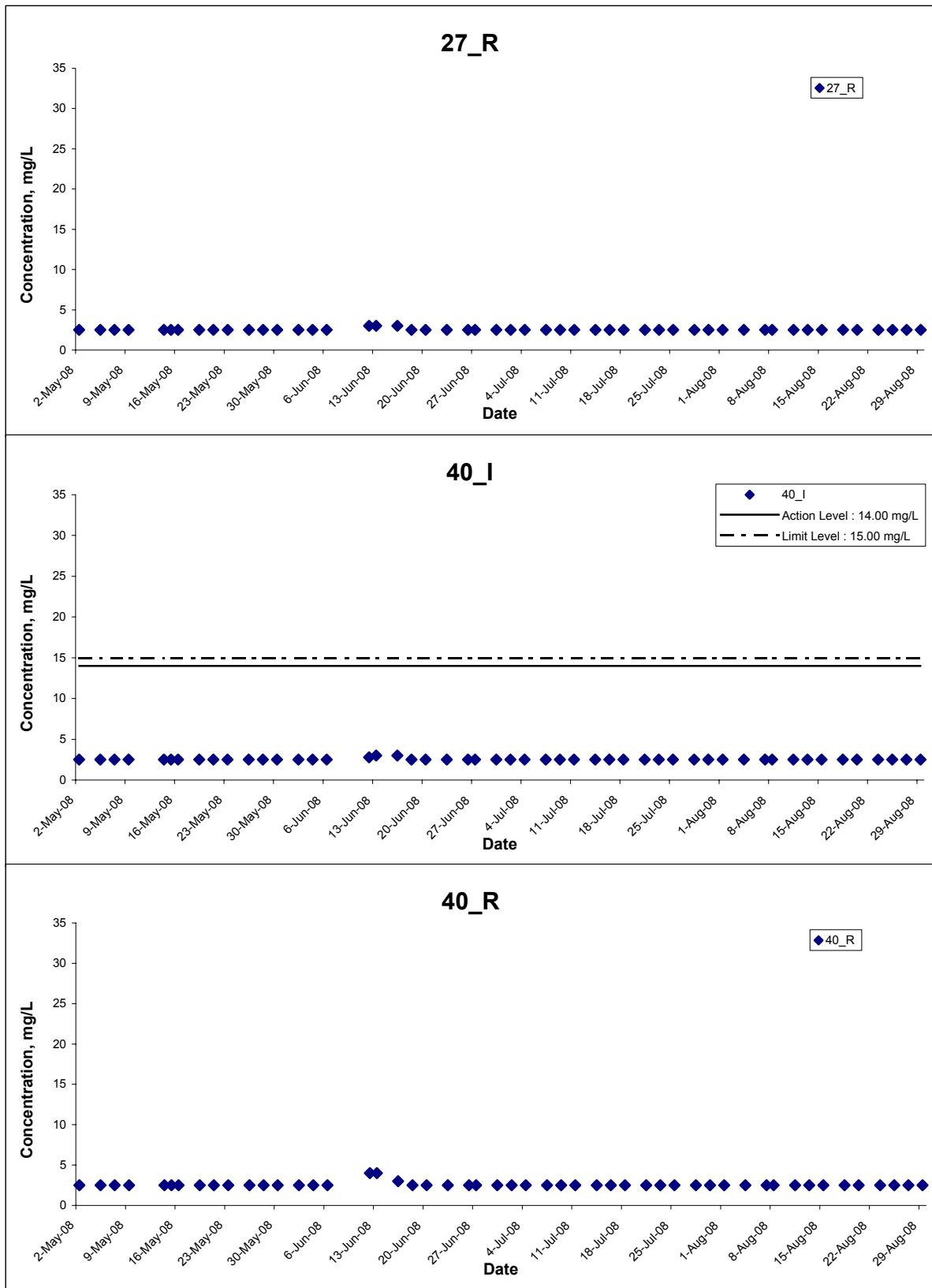
| | | | |
|--|----------------|-----------------------|--------------------------------------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale N.T.S | Project No. MA6030 | <h1 style="margin: 0;">CINOTECH</h1> |
| | Date Aug 08 | Appendix F | |

Suspended Solids



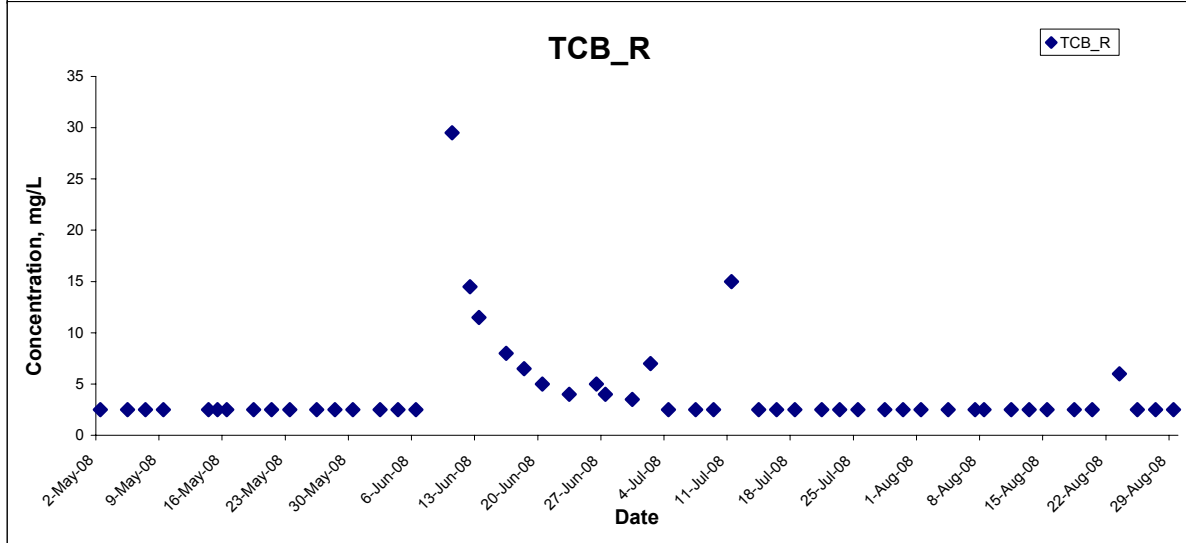
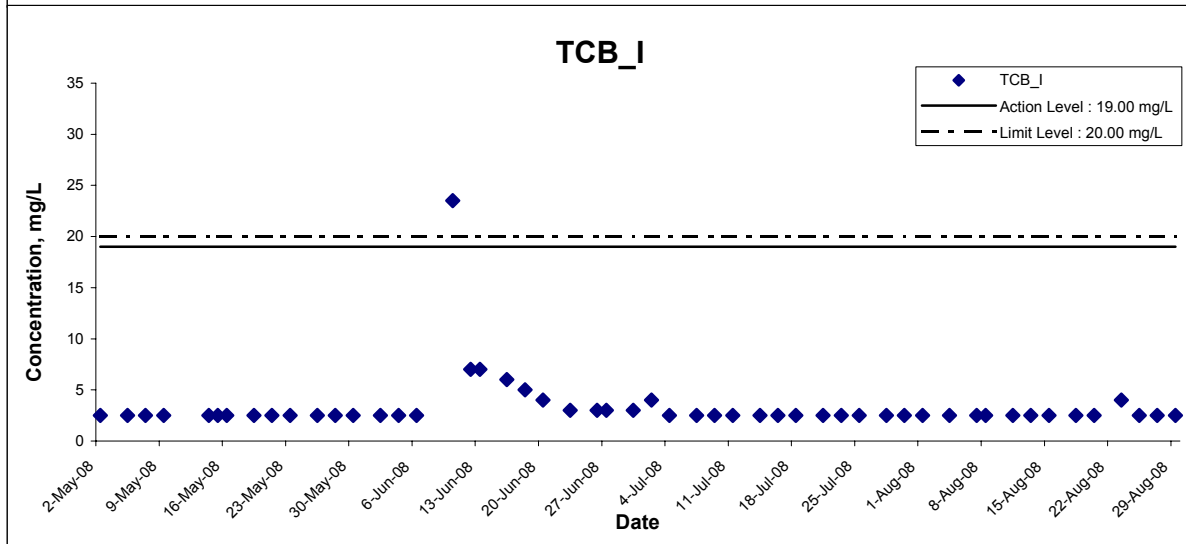
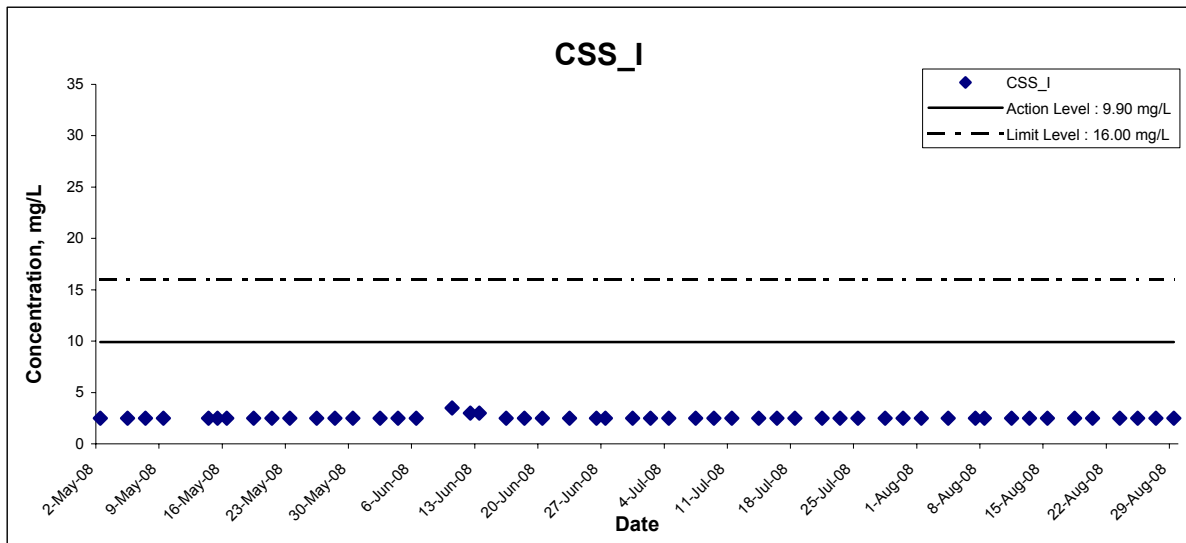
| | | | |
|--|----------------|-----------------------|--|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale N.T.S | Project No. MA6030 | <h1 style="font-size: 2em; margin: 0;">CINOTECH</h1> |
| | Date Aug 08 | Appendix F | |

Suspended Solids



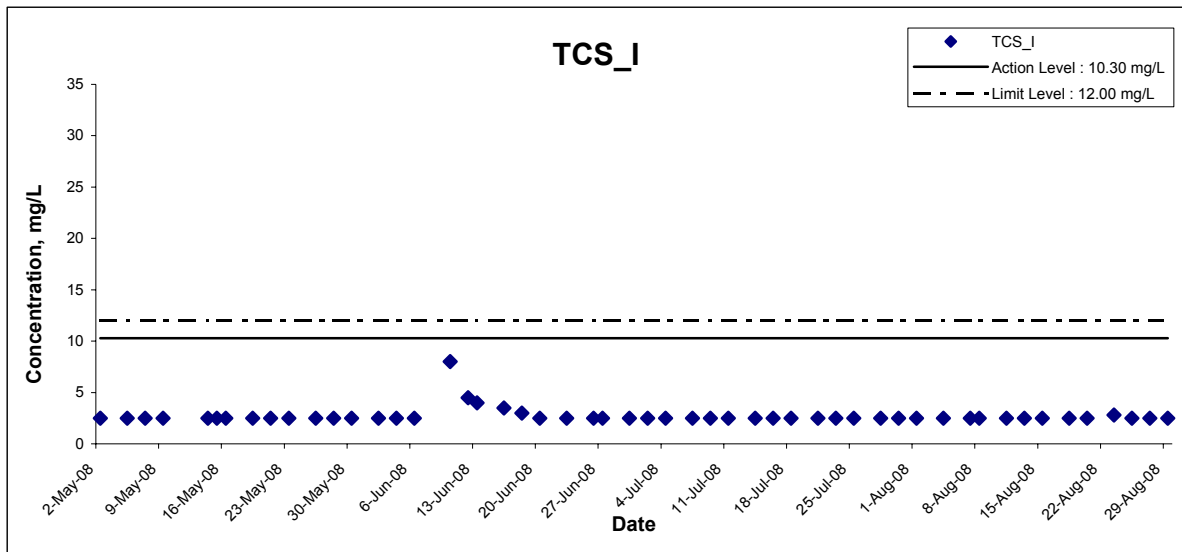
| | | | | |
|--|-------|--------|-----------------------|-----------------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale | N.T.S | Project No. MA6030 | CINOTECH |
| | Date | Aug 08 | Appendix F | |

Suspended Solids



| | | | | |
|--|-------|--------|-----------------------|----------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale | N.T.S | Project No. MA6030 | CINOTECH |
| | Date | Aug 08 | Appendix | |

Suspended Solids



| | | | | |
|--|-------|--------|-----------------------|----------|
| Title Contract No. HY/2003/19 Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha Graphical Presentation of Water Quality Monitoring Results | Scale | N.T.S | Project No. MA6030 | CINOTECH |
| | Date | Aug 08 | Appendix | |

**APPENDIX G
QUALITY CONTROL REPORTS FOR
LABORATORY ANALYSIS**

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07073 |
| Date of Issue: | 2008/08/04 |
| Date Received: | 2008/08/01 |
| Date Tested: | 2008/08/01 |
| Date Completed: | 2008/08/04 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/01
Number of Sample: 38
Custody No.: MA6030/80801

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 21_R | <2.5 | <2.5 | N/A | 103 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07078 |
| Date of Issue: | 2008/08/05 |
| Date Received: | 2008/08/04 |
| Date Tested: | 2008/08/04 |
| Date Completed: | 2008/08/05 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/04
Number of Sample: 38
Custody No.: MA6030/80804

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 40_I | <2.5 | <2.5 | N/A | 95 |

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07091 |
| Date of Issue: | 2008/08/08 |
| Date Received: | 2008/08/07 |
| Date Tested: | 2008/08/07 |
| Date Completed: | 2008/08/08 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/07
Number of Sample: 38
Custody No.: MA6030/80807

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 23_I | <2.5 | <2.5 | N/A | 110 |

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07105 |
| Date of Issue: | 2008/08/11 |
| Date Received: | 2008/08/08 |
| Date Tested: | 2008/08/08 |
| Date Completed: | 2008/08/11 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/08
Number of Sample: 38
Custody No.: MA6030/80808

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 26_I | <2.5 | <2.5 | N/A | 95 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07112 |
| Date of Issue: | 2008/08/12 |
| Date Received: | 2008/08/11 |
| Date Tested: | 2008/08/11 |
| Date Completed: | 2008/08/12 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/11
Number of Sample: 38
Custody No.: MA6030/80811

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| TCB_R | <2.5 | <2.5 | N/A | 93 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07126 |
| Date of Issue: | 2008/08/14 |
| Date Received: | 2008/08/13 |
| Date Tested: | 2008/08/13 |
| Date Completed: | 2008/08/14 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/13
Number of Sample: 38
Custody No.: MA6030/80813

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 40_I | <2.5 | <2.5 | N/A | 99 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07143 |
| Date of Issue: | 2008/08/18 |
| Date Received: | 2008/08/15 |
| Date Tested: | 2008/08/15 |
| Date Completed: | 2008/08/18 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/15
Number of Sample: 38
Custody No.: MA6030/80815

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 40_I | <2.5 | <2.5 | N/A | 101 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07148 |
| Date of Issue: | 2008/08/19 |
| Date Received: | 2008/08/18 |
| Date Tested: | 2008/08/18 |
| Date Completed: | 2008/08/19 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/18
Number of Sample: 38
Custody No.: MA6030/80818

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 26_I | <2.5 | <2.5 | N/A | 98 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07161 |
| Date of Issue: | 2008/08/21 |
| Date Received: | 2008/08/20 |
| Date Tested: | 2008/08/20 |
| Date Completed: | 2008/08/21 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/20
Number of Sample: 38
Custody No.: MA6030/80820

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 15_R | <2.5 | <2.5 | N/A | 100 |

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07181 |
| Date of Issue: | 2008/08/25 |
| Date Received: | 2008/08/23 |
| Date Tested: | 2008/08/23 |
| Date Completed: | 2008/08/25 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/23
Number of Sample: 38
Custody No.: MA6030/80823

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 40_I | <2.5 | <2.5 | N/A | 96 |

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07181 |
| Date of Issue: | 2008/08/26 |
| Date Received: | 2008/08/25 |
| Date Tested: | 2008/08/25 |
| Date Completed: | 2008/08/26 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/25
Number of Sample: 38
Custody No.: MA6030/80825

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| CSS_I | <2.5 | <2.5 | N/A | 94 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07190 |
| Date of Issue: | 2008/08/28 |
| Date Received: | 2008/08/27 |
| Date Tested: | 2008/08/27 |
| Date Completed: | 2008/08/28 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/27
Number of Sample: 38
Custody No.: MA6030/80827

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 23_I | <2.5 | <2.5 | N/A | 99 |

*****End of Report*****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
Laboratory Manager

TEST REPORT
QC REPORT

APPLICANT: Cinotech Consultants Limited
RM 1710, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

| | |
|-----------------|------------|
| Laboratory No.: | 07207 |
| Date of Issue: | 2008/09/01 |
| Date Received: | 2008/08/29 |
| Date Tested: | 2008/08/29 |
| Date Completed: | 2008/09/01 |

Page: 1 of 1

ATTN: Mr. Henry Leung

Sampling Site: Tung Chung Road
Project No.: MA6030
Sampling Date: 2008/08/29
Number of Sample: 38
Custody No.: MA6030/80829

| Total Suspended Solids | Duplicate Analysis | | | QC Recovery, % |
|------------------------|--------------------|------------------|------------------|----------------|
| Sampling Point | Trial 1, mg/L | Trial 2, mg/L | Difference, % | |
| 26_I | <2.5 | <2.5 | N/A | 94 |

*****End of Report*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

Laboratory Manager

APPENDIX H
SUMMARY OF EXCEEDANCES

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 80805W-80801_TS

Part A – Exceedance Summary Tables**Table 1: Parameter – Turbidity (NTU)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| CSS_I | 2.3 | 7.91 | 2.3 | 10.50 | 2.5 | Action | (1) | N | N |

Table 2: Parameter – Suspended Solids (mg/L)

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

- (1) – No construction activity was observed.
(2) – No pollution discharge from construction activity was observed.
(3) – Natural humus or mosses was observed.
(4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 80808W-80804_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 80811W-80807_S

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

(1) – No construction activity was observed.

(2) – No pollution discharge from construction activity was observed.

(3) – Natural humus or mosses was observed.

(4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report****Report No. 80812W-80808_S****Part A – Exceedance Summary Tables****Table 1: Parameter – Suspended Solids (mg/L)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

(1) – No construction activity was observed.

(2) – No pollution discharge from construction activity was observed.

(3) – Natural humus or mosses was observed.

(4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 80814W-80811_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report****Report No. 80815W-80813_TS****Part A – Exceedance Summary Tables****Table 1: Parameter – Turbidity (NTU)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| CSS_I | 2.2 | 7.91 | 2.2 | 10.50 | 2.3 | Action | (1) | N | N |

Table 2: Parameter – Suspended Solids (mg/L)

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

(1) – No construction activity was observed.

(2) – No pollution discharge from construction activity was observed.

(3) – Natural humus or mosses was observed.

(4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report****Report No. 80819W-80815_S****Part A – Exceedance Summary Tables****Table 1: Parameter – Suspended Solids (mg/L)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

*(1) – No construction activity was observed.**(2) – No pollution discharge from construction activity was observed.**(3) – Natural humus or mosses was observed.**(4) – Reference point value already exceeded either the Action or Limit Levels.*

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report****Report No. 80820W-80818_S****Part A – Exceedance Summary Tables****Table 1: Parameter – Suspended Solids (mg/L)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

(1) – No construction activity was observed.

(2) – No pollution discharge from construction activity was observed.

(3) – Natural humus or mosses was observed.

(4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 80825W-80820_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 80827W-80823_S

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

*(1) – No construction activity was observed.**(2) – No pollution discharge from construction activity was observed.**(3) – Natural humus or mosses was observed.**(4) – Reference point value already exceeded either the Action or Limit Levels.*

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 80827W-80825_S

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

*(1) – No construction activity was observed.**(2) – No pollution discharge from construction activity was observed.**(3) – Natural humus or mosses was observed.**(4) – Reference point value already exceeded either the Action or Limit Levels.*

Contract No. HY/2003/19**Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report**

Report No. 80829W-80827_S

Part A – Exceedance Summary Tables**Table 1: Parameter – Suspended Solids (mg/L)**

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

*Remarks

(1) – No construction activity was observed.

(2) – No pollution discharge from construction activity was observed.

(3) – Natural humus or mosses was observed.

(4) – Reference point value already exceeded either the Action or Limit Levels.

Contract No. HY/2003/19
Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha - Exceedance Report
Report No. 80902W-80829_S

Part A – Exceedance Summary Tables

Table 1: Parameter – Suspended Solids (mg/L)

| Stream Location | Measured Value | Exceedances Criteria | | | | Action / Limit Levels | Justification * | Validity (Y/N) | Action Taken (Y/N) |
|-----------------|----------------|----------------------|---------------------------|-------------|---------------------------|-----------------------|-----------------|----------------|--------------------|
| | | Action value | 120% of Reference value * | Limit Value | 130% of Reference Value * | | | | |
| 27_I | 2.5 | 2.1 | 3.0 | 3.0 | 3.25 | Action | (2) & (4) | N | N |

- *Remarks
- (1) – No construction activity was observed.
 - (2) – No pollution discharge from construction activity was observed.
 - (3) – Natural humus or mosses was observed.
 - (4) – Reference point value already exceeded either the Action or Limit Levels.

**APPENDIX I
SITE AUDIT SUMMARY**

Weekly Site Inspection Record Summary

Inspection Information

| | |
|----------------------------|--------------------------|
| Checklist Reference Number | 80807 |
| Date | 7 August 2008 (Thursday) |
| Time | 14:30 – 18:15 |



| Ref. No. | Non-Compliance | Related Item No. |
|-----------|---|------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | A. Water Quality | |
| 80807-001 | • Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. | B5iii & iv. |
| | B. Air Quality | |
| | • No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | • No environmental deficiency was identified during site inspection. | |
| | D. Waste / Chemical Management | |
| | • No environmental deficiency was identified during site inspection. | |
| | E. Ecology | |
| | • No environmental deficiency was identified during site inspection. | |
| | F. Others | |
| | • All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (80731-O01, O03, R05 – R15 and R17 – R19). Follow-up action is needed for the outstanding items. | |

| | Reminders | Related Item No. |
|-----------|---|------------------|
| | The Contractor was reminded to implement the following preventive measures: | |
| | A. Water Quality | |
| 80807-R02 | • Clear the silt at drainage channel at the entrance of STR7 . | B1 |
| 80807-R03 | • Clear the sediment at the U-Channel at underneath STR7 . | B1 |
| 80807-R04 | • Clear the standing water at STR8 . | B11 |
| 80807-R05 | • Clear discarded plant and sediment at the U-Channel and catchpit at STR8 . | B1 |
| 80807-R10 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 . | B8 |
| 80807-R11 | • Hydroseed/cover the exposed surface at STR14 . | B8 |
| 80807-R12 | • Clear sediment and debris near catchment. | B18 |
| 80807-R13 | • Properly cover the catchment channel near the construction works. | B1 |
| 80807-R15 | • Clear sediment and debris at the paved road along existing TCR. | B18 |
| 80807-R18 | • Keep clear the sediment at the culvert at RW6 . | B18 |
| | B. Air Quality | |
| 80807-R06 | • Properly cover the stockpile at STR7-8 when it is not in works. | C7 |
| 80807-R07 | • Clear the stockpile of cement at STR9A . | C7 |
| 80807-R10 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-13 . | C13 |
| 80807-R11 | • Hydroseed/cover the exposed surface at STR14 . | C13 |
| 80807-R17 | • Hydroseed the exposed surface at STR6 . | C13 |

Weekly Site Inspection Record Summary

| | C. Waste / Chemical Management | |
|-----------|---|-------|
| 80807-R08 | • Clear discarded cement bags (abandon) at STR7. | E4ii. |
| 80807-R09 | • Clear C&D waste near Stream 19(downstream), Stream 28, Stream 29 and Stream 34. | E4ii. |
| 80807-R14 | • Clear discarded plants at underneath STR13. | E4ii. |
| 80807-R16 | • Clear discarded cement bags (abandon) at RW28. | E4ii. |

| Ref. No. | Proposed Completion Date | Completion Date | Remarks |
|-----------|--------------------------|-----------------|--------------------|
| 80731-O02 | 7 August 2008 | 7 August 2008 | Rectified |
| 80731-R04 | | | |
| 80731-R16 | | | |
| 80807-O01 | 12 August 2008 | | Follow Up Required |
| 80807-R02 | | | |
| 80807-R03 | | | |
| 80807-R04 | | | |
| 80807-R05 | | | |
| 80807-R06 | | | |
| 80807-R07 | | | |
| 80807-R08 | | | |
| 80807-R09 | | | |
| 80807-R10 | | | |
| 80807-R11 | | | |
| 80807-R12 | | | |
| 80807-R13 | | | |
| 80807-R14 | | | |
| 80807-R15 | | | |
| 80807-R16 | | | |
| 80807-R17 | | | |
| 80807-R18 | | | |

| | Name | Signature | Date |
|-------------|--------------------|---|---------------|
| Recorded by | Ivy Tam |  | 7 August 2008 |
| Checked by | Dr. Priscilla Choy |  | 7 August 2008 |

Weekly Site Inspection Record Summary

Inspection Information

| | |
|----------------------------|--------------------------|
| Checklist Reference Number | 80812 |
| Date | 12 August 2008 (Tuesday) |
| Time | 9:00 – 13:00 |

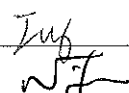
| Ref. No. | Non-Compliance | Related Item No. |
|-----------|--|------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | A. Water Quality | |
| 80812-O01 | • Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. | B5iii & iv. |
| 80812-O02 | • Surface runoff was observed running to the stream directly at existing TCR . The Contractor was reminded to divert it to the U-Channel for discharging. | B15 |
| | B. Air Quality | |
| | • No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | • No environmental deficiency was identified during site inspection. | |
| | D. Waste / Chemical Management | |
| | • No environmental deficiency was identified during site inspection. | |
| | E. Ecology | |
| | • No environmental deficiency was identified during site inspection. | |
| | F. Others | |
| | • All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (80807-O01, O02, R05 – R12, R14 – R15 and R17 – R18). Follow-up action is needed for the outstanding items. | |

| | Reminders | Related Item No. |
|-----------|---|------------------|
| | The Contractor was reminded to implement the following preventive measures: | |
| | A. Water Quality | |
| 80812-R03 | • Clear the silt at drainage channel at the entrance of STR7 . | B1 |
| 80812-R04 | • Clear discarded tree debris and sediment at the U-Channel and catchpit at STR8 . | B1 |
| 80812-R05 | • Clear the sediment in the culvert at between STR8-STR9 . | B1 |
| 80812-R11 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-11 . | B8 |
| 80812-R12 | • Hydroseed/cover the exposed surface at STR14 . | B8 |
| 80812-R14 | • Clear sediment and debris at the paved road along existing TCR . | B18 |
| 80812-R16 | • Keep clear the sediment at the culvert at RW6 . | B18 |
| 80812-R17 | • Clear sediment and debris near catchment. (in-progress) | B18 |
| 80812-R18 | • Hydroseed/cover the exposed soil surface with stones at underneath STR12 . | B8 |
| | B. Air Quality | |
| 80812-R06 | • Properly cover the stockpile at STR7-8 when it is not in works. | C7 |
| 80812-R07 | • Clear the stockpile of cement at STR9A . | C7 |
| 80812-R11 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10-11 . | C13 |
| 80812-R12 | • Hydroseed/cover the exposed surface at STR14 . | C13 |
| 80812-R15 | • Hydroseed the exposed surface at STR6 . | C13 |
| 80812-R18 | • Hydroseed/cover the exposed soil surface with stones at underneath STR12 . | C13 |

Weekly Site Inspection Record Summary

| | <i>C. Waste / Chemical Management</i> | |
|-----------|---|-------|
| 80812-R08 | • Clear discarded cement bags (abandon) at STR7. | E4ii. |
| 80812-R09 | • Clear C&D waste at underneath STR12. | E4ii. |
| 80812-R10 | • Clear C&D waste near Stream 19(downstream), Stream 28, Stream 29 and Stream 34. | E4ii. |
| 80812-R13 | • Clear discarded tree debris at underneath STR13. | E4ii. |

| Ref. No. | Proposed Completion Date | Completion Date | Remarks |
|-----------|--------------------------|-----------------|--------------------|
| 80807-R03 | 12 August 2008 | 12 August 2008 | Rectified |
| 80807-R04 | | | |
| 80807-R13 | | | |
| 80807-R16 | | | |
| 80812-O01 | 21 August 2008 | | Follow Up Required |
| 80812-O02 | | | |
| 80812-R03 | | | |
| 80812-R04 | | | |
| 80812-R05 | | | |
| 80812-R06 | | | |
| 80812-R07 | | | |
| 80812-R08 | | | |
| 80812-R09 | | | |
| 80812-R10 | | | |
| 80812-R11 | | | |
| 80812-R12 | | | |
| 80812-R13 | | | |
| 80812-R14 | | | |
| 80812-R15 | | | |
| 80812-R16 | | | |
| 80812-R17 | | | |
| 80812-R18 | | | |

| | Name | Signature | Date |
|-------------|--------------------|---|----------------|
| Recorded by | Ivy Tam | | 12 August 2008 |
| Checked by | Dr. Priscilla Choy |  | 12 August 2008 |

Weekly Site Inspection Record Summary

Inspection Information

| | |
|----------------------------|---------------------------|
| Checklist Reference Number | 80821 |
| Date | 21 August 2008 (Thursday) |
| Time | 9:00 – 12:30 |



| Ref. No. | Non-Compliance | Related Item No. |
|-----------|---|------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | A. Water Quality | |
| 80821-O01 | • Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. | B5iii & iv. |
| 80821-O02 | • Surface runoff was observed running to the stream directly at existing TCR . The Contractor was reminded to divert it to the U-Channel for discharging. | B15 |
| | B. Air Quality | |
| | • No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | • No environmental deficiency was identified during site inspection. | |
| | D. Waste / Chemical Management | |
| | • No environmental deficiency was identified during site inspection. | |
| | E. Ecology | |
| | • No environmental deficiency was identified during site inspection. | |
| | F. Others | |
| | • All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (80812-O01, O02, R03, R6 – R17). Follow-up action is needed for the outstanding items. | |

| | Reminders | Related Item No. |
|-----------|---|------------------|
| | The Contractor was reminded to implement the following preventive measures: | |
| | A. Water Quality | |
| 80821-R03 | • Clear the silt at drainage channel at the entrance of STR7 . | B1 |
| 80821-R07 | • Clear the debris and sediments at existing TCR (near STR7) . | B18 |
| 80821-R10 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10 . | B8 |
| 80821-R12 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR11 . | B8 |
| 80821-R15 | • Hydroseed/cover the exposed slope with tarpaulin at STR12 . | B8 |
| 80821-R16 | • Hydroseed/cover the exposed surface at STR14 . | B8 |
| 80821-R17 | • Clear sediment and debris near catchment. (in-progress) | B18 |
| 80821-R18 | • Clear sediment and debris at the paved road along existing TCR . | B18 |
| 80821-R19 | • Keep clear the sediment at the culvert at RW6 . | B18 |
| | B. Air Quality | |
| 80821-R05 | • Properly cover the stockpile near Stream 25 . | C7 |
| 80821-R08 | • Properly cover the stockpile at STR7-8 when it is not in works. | C7 |
| 80821-R09 | • Clear the stockpile of cement at STR9A . | C7 |
| 80821-R10 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10 . | C13 |
| 80821-R11 | • Properly cover the stockpile at STR11 after the works. | C7 |
| 80821-R12 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR11 . | C13 |
| 80821-R14 | • Properly cover the stockpile at STR12 after the works. | C7 |

Weekly Site Inspection Record Summary

| | | |
|---------------------------------------|--|-------|
| 80821-R15 | • Hydroseed/cover the exposed slope with tarpaulin at STR12. | C13 |
| 80821-R16 | • Hydroseed/cover the exposed surface at STR14. | C13 |
| 80821-R20 | • Hydroseed the exposed surface at STR6. | C13 |
| C. Waste / Chemical Management | | |
| 80821-R04 | • Clear discarded cement bags (abandon) at STR7. | E4ii. |
| 80821-R06 | • Clear C&D waste at underneath STR7. | E4ii. |
| 80821-R13 | • Clear C&D waste at underneath STR12. | E4ii. |
| 80821-R21 | • Clear C&D waste near Stream 19(downstream). | E4ii. |
| 80821-R22 | • Clear discarded tree debris at underneath STR13. | E4ii. |

| Ref. No. | Proposed Completion Date | Completion Date | Remarks |
|-----------|--------------------------|-----------------|--------------------|
| 80812-R04 | 21 August 2008 | 21 August 2008 | Rectified |
| 80812-R05 | | | |
| 80812-R18 | | | |
| 80821-O01 | 28 August 2008 | | Follow Up Required |
| 80821-O02 | | | |
| 80821-R03 | | | |
| 80821-R04 | | | |
| 80821-R05 | | | |
| 80821-R06 | | | |
| 80821-R07 | | | |
| 80821-R08 | | | |
| 80821-R09 | | | |
| 80821-R10 | | | |
| 80812-R11 | | | |
| 80821-R12 | | | |
| 80821-R13 | | | |
| 80821-R14 | | | |
| 80821-R15 | | | |
| 80821-R16 | | | |
| 80821-R17 | | | |
| 80821-R18 | | | |
| 80821-R19 | | | |
| 80821-R20 | | | |
| 80821-R21 | | | |

| | Name | Signature | Date |
|-------------|--------------------|---|----------------|
| Recorded by | Ivy Tam |  | 21 August 2008 |
| Checked by | Dr. Priscilla Choy |  | 21 August 2008 |

Weekly Site Inspection Record Summary

Inspection Information

| | |
|----------------------------|---------------------------|
| Checklist Reference Number | 80828 |
| Date | 28 August 2008 (Thursday) |
| Time | 9:00 – 12:30 |



| Ref. No. | Non-Compliance | Related Item No. |
|-----------|--|------------------|
| - | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | A. Water Quality | |
| 80828-001 | • Sediment was observed accumulate at the sedimentation tanks at Shan Shek Wan . The Contractor was reminded to clear the silt and sediment to maintain the tank can function properly. (in-progress) | B5iii & iv. |
| | B. Air Quality | |
| | • No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | • No environmental deficiency was identified during site inspection. | |
| | D. Waste / Chemical Management | |
| | • No environmental deficiency was identified during site inspection. | |
| | E. Ecology | |
| | • No environmental deficiency was identified during site inspection. | |
| | F. Others | |
| | • All environmental deficiencies identified in previous audit session were improved/rectified by the Contractor except items (80821-001, R05 – R08, R03, R10 – R11 and R13 – R22). Follow-up action is needed for the outstanding items. | |

| | Reminders | Related Item No. |
|-----------|---|------------------|
| | The Contractor was reminded to implement the following preventive measures: | |
| | A. Water Quality | |
| 80828-R03 | • Clear the sediment on the paved road near the entrance of STR7 . | B18 |
| 80828-R06 | • Clear the debris and sediments at existing TCR (near STR7) . | B18 |
| 80828-R08 | • Clear the standing water in the drip tray at STR8 . | B11 |
| 80828-R09 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10 . | B8 |
| 80828-R15 | • Hydroseed/cover the exposed slope with tarpaulin at STR12 . | B8 |
| 80828-R18 | • Hydroseed/cover the exposed surface at STR14 . | B8 |
| 80828-R19 | • Clear sediment and debris near catchment. (in-progress) | B18 |
| 80828-R20 | • Remove the discarded sedimentation tank that retains the standing water at STR18 . | B11 |
| 80828-R21 | • Clear sediment and debris at the paved road along existing TCR . | B18 |
| 80828-R23 | • Keep clear the sediment at the culvert at RW6 . | B18 |
| | B. Air Quality | |
| 80828-R04 | • Properly cover the stockpile near Stream 25 . | C7 |
| 80828-R07 | • Properly cover the stockpile at STR7-8 when it is not in works. | C7 |
| 80828-R09 | • Hydroseed/cover the exposed slope with tarpaulin at underneath STR10 . | C13 |
| 80828-R11 | • Properly cover the stockpile at STR11 after the works. | C7 |
| 80828-R14 | • Properly cover the stockpile at STR12 after the works. | C7 |
| 80828-R15 | • Hydroseed/cover the exposed slope with tarpaulin at STR12 . | C13 |
| 80828-R16 | • Properly cover the stockpile at STR13 after the works. | C7 |

Weekly Site Inspection Record Summary

| | | |
|-----------|--|-------|
| 80828-R18 | • Hydroseed/cover the exposed surface at STR14. | C13 |
| 80828-R22 | • Hydroseed the exposed surface at STR6. | C13 |
| | C. Waste / Chemical Management | |
| 80828-R02 | • Provide drip tray for the chemical container at the entrance of STR7. | E7ii. |
| 80828-R05 | • Clear C&D waste at underneath STR7. | E4ii. |
| 80828-R10 | • Clear C&D waste at Stream 28, Stream 29, Stream 31 and Stream 19 (downstream). | E4ii. |
| 80828-R12 | • Remove the suspected oil at between STR11 and STR12. | E2ii. |
| 80828-R13 | • Clear C&D waste at underneath STR12. | E4ii. |
| 80828-R17 | • Clear discarded tree debris at underneath STR13. | E4ii. |
| | • | |
| | D. General | |
| 80828-G24 | • Clear the discarded tree debris, sediment, stones and debris in the drainage system (culvert and gullies) after the typhoon. | B1 |

| Ref. No. | Proposed Completion Date | Completion Date | Remarks |
|-----------|--------------------------|-----------------|--------------------|
| 80821-O02 | 28 August 2008 | 28 August 2008 | Rectified |
| 80821-R03 | | | |
| 80821-R04 | | | |
| 80821-R09 | | | |
| 80821-R12 | 10 September 2008 | | Follow Up Required |
| 80828-O01 | | | |
| 80828-R02 | | | |
| 80828-R03 | | | |
| 80828-R04 | | | |
| 80828-R05 | | | |
| 80828-R06 | | | |
| 80828-R07 | | | |
| 80828-R08 | | | |
| 80828-R09 | | | |
| 80828-R10 | | | |
| 80828-R11 | | | |
| 80828-R12 | | | |
| 80828-R13 | | | |
| 80828-R14 | | | |
| 80828-R15 | | | |
| 80828-R16 | | | |
| 80828-R17 | | | |
| 80828-R18 | | | |
| 80828-R19 | | | |
| 80828-R20 | | | |
| 80828-R21 | | | |
| 80828-R22 | | | |
| 80828-R23 | | | |
| 80828-G24 | | | |

| | Name | Signature | Date |
|-------------|--------------------|---|----------------|
| Recorded by | Ivy Tam |  | 28 August 2008 |
| Checked by | Dr. Priscilla Choy |  | 28 August 2008 |

**APPENDIX J
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

Appendix J - Summary of Environmental Mitigation Implementation Schedule

| Types of Impacts | Mitigation Measures | Status |
|---|--|--------|
| <p style="text-align: center;">Construction Dust</p> | <ul style="list-style-type: none"> • A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones. | * |
| | <ul style="list-style-type: none"> • Vehicle washing facilities should be provided at every exit point. | ^ |
| | <ul style="list-style-type: none"> • The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores. | ^ |
| | <ul style="list-style-type: none"> • Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. | N/A |
| | <ul style="list-style-type: none"> • Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet. | ^ |
| | <ul style="list-style-type: none"> • The portion of any road leading only to a construction site that is within 30m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials. | * |
| | <ul style="list-style-type: none"> • Any stockpile of dusty materials should be either covered entirely by impervious sheeting, placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet. | * |
| | <ul style="list-style-type: none"> • During cement debagging or concrete batching operation in an area sheltered on top and 3 sides. | ^ |
| | <ul style="list-style-type: none"> • All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet. | ^ |
| | <ul style="list-style-type: none"> • Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site. | ^ |
| | <ul style="list-style-type: none"> • The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet. | ^ |
| | <ul style="list-style-type: none"> • Proper enclosures and water spraying should be implemented for the main dust-generating activities, such as soil nailing or piling works. | ^ |
| | <ul style="list-style-type: none"> • Proper plant maintenance should be provided to avoid black smoke emission from plants/equipment. | ^ |

| Types of Impacts | Mitigation Measures | Status | |
|---|---|--|---|
| <p align="center">Construction Noise</p> | <ul style="list-style-type: none"> • Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works. • Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. • Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS. • Mobile plant should be sited as far away from NSRs as possible. • Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. • Use quiet plant and Working Method • Reduce the number of plant operating in critical areas close NSRs. • Construct temporary and movable noise barriers | <p align="center">^ ^ ^ ^ ^ ^ ^ N/A</p> | |
| | <p>Water Quality</p> | <p><i>Construction Runoff and Drainage</i></p> | |
| | | <ul style="list-style-type: none"> • Discharges to natural water courses shall only take place when the effluent can be shown to comply with the standards specified in the Technical Memorandum, Standards for Effluents Discharged in to Drainage and Sewerage Systems, Inland and Coastal Waters. Discharges in the water gathering grounds should meet Group A standard for inland waters. | <p align="center">*</p> |
| | | <ul style="list-style-type: none"> • Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow. • Boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilities runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. • All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The temporarily diverted drainage should be reinstated to its original condition when the construction works has finished or the temporary diversion is no longer required • Sand silt in the wash water from the wheel washing facilities, which ensure no earth, mud and debris is deposited on roads, should be settled out the removed before discharging into storm drains. A section of the road between the wheel washing bay and the public road should be paved with backfill to prevent wash water or other site runoff form entering public road drains. • Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oils and grease into the storm water drainage system after accidental spillage. The interceptor should have a bypass to prevent flushing during periods of heavy rain. • Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks. • Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. | <p align="center">^ ^ * ^ N/A ^ *</p> |

| Types of Impacts | Mitigation Measures | Status |
|------------------|--|--|
| | <ul style="list-style-type: none"> Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains. All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains via a petrol interceptor. | <p style="text-align: center;">^</p> <p style="text-align: center;">*</p> |
| | <p><i>Tunnelling Work</i></p> <ul style="list-style-type: none"> Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any washout of construction or excavated materials from the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps. Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to enhance deposition rates and to remove silt. Spend grouts used in diaphragm wall construction should be collected in a separate slurry collection system, reconditioned and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM standards before discharge to the storm drains or disposal to landfill. | <p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p> |
| | <p><i>General Construction Activities</i></p> | |
| | <ul style="list-style-type: none"> Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts. All fuel tanks and storage areas will be provided with locks and be located on sealed areas (within bunds of a capacity equal to 110% of the storage capacity of the largest tank or 20% by volume of the fuel stored in that areas, whichever in the greatest). | <p style="text-align: center;">*</p> <p style="text-align: center;">*</p> |
| | <p><i>Sewage Effluent</i></p> <ul style="list-style-type: none"> Construction work force sewage discharges from fixed toilet facilities on-site should be connected to the nearby existing trunk sewer wherever feasible. However, for areas where existing trunk sewer is not available, it is recommended that appropriate and adequate on site portable chemical toilets should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities. It is considered that sewage discharges could also be treated by on-site septic tanks and soakaway. Minimum clearance away from streams and catchments and other requirements for the proposed septic tank and soakaway should be referred to EPD's Practice Note for Professional Persons, Drainage Plans. | <p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p> |

| Types of Impacts | Mitigation Measures | Status |
|--|--|--------|
| Waste / Chemical | <i>General</i> | |
| | <ul style="list-style-type: none"> • Training and instruction shall be given at a site to construction staff to increase awareness and draw attention to waste management issues and the need to minimise waste generation. The training requirement shall be included in the site waste management plan. | ^ |
| | <i>Storage, Collection and Transportation of Waste</i> | |
| | <ul style="list-style-type: none"> • Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage. | ^ |
| | <ul style="list-style-type: none"> • Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits. | ^ |
| | <ul style="list-style-type: none"> • Waste shall be removed on a daily basis. | ^ |
| | <ul style="list-style-type: none"> • Waste storage area shall be maintained and cleaned on a daily basis. | ^ |
| | <ul style="list-style-type: none"> • Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers. | ^ |
| | <ul style="list-style-type: none"> • Obtain necessary waste disposal permits from the appropriate authorities if they are required. | ^ |
| | <ul style="list-style-type: none"> • Wastes shall be disposed of at licensed waste disposal facilities. | ^ |
| <ul style="list-style-type: none"> • Develop procedure such as ticketing system to facilitate tracking of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur. | ^ | |
| <ul style="list-style-type: none"> • Maintain records of the quantities of wastes generated, recycled and disposed. | ^ | |
| <i>Surplus Excavated Materials</i> | | |
| <ul style="list-style-type: none"> • Due to the high risk of loose material being washed into the existing nullah, stockpile materials should be properly compacted and covered from water erosion and located at least 10m away from the nullah wall. | ^ | |
| <i>Construction and Demolition (C&D) Waste</i> | | |
| <ul style="list-style-type: none"> • Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts. | ^ | |
| <ul style="list-style-type: none"> • The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage. | N/A | |
| <ul style="list-style-type: none"> • Construction and demolition (C&D) material shall be segregated to inert and non-inert parts. The inert portion shall re-used at areas of reclamation or land formation, or to public filling area shall such allocation is deemed necessary. The non-inert portion shall be disposed of to landfill. | * | |
| <i>Chemical Waste</i> | | |
| <ul style="list-style-type: none"> • Chemical waste that is produce during construction shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes. | ^ | |

| Types of Impacts | Mitigation Measures | Status |
|------------------------------------|---|---|
| | <ul style="list-style-type: none"> • Containers used for the storage of chemical wastes should: <ol style="list-style-type: none"> a. Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; b. Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; c. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. • The storage area for chemical wastes should: <ol style="list-style-type: none"> a. Be clearly labelled and used solely for the storage of chemical waste; b. Be enclosed on at least 3 sides; c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest; d. Have adequate ventilation; e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); f. Be arranged so that incompatible materials are adequately separated. • Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a re-user of the waste (under approval from EPD). | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |
| | <i>General Refuse</i> | |
| | <ul style="list-style-type: none"> • General refuse generated on-site shall be stored in enclosed bins or compaction unit separate from C&D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily for every second day basis to minimise odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law. • Reusable rather than disposable dishware shall be used if feasible. | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |
| | <i>Oil and Fuel</i> | |
| | <ul style="list-style-type: none"> • The storage area for chemical wastes should have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container; • No storage of oil or fuel should be stored within the Country Park or the water gathering ground. | <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> |
| Landscape and Visual Impact | <ul style="list-style-type: none"> • Refinement of the route alignment and design of associated structures to minimise loss of woodland and other landscape resources; • Minimising working areas as far as possible; • Protection and retention of existing vegetation where possible; • Transplanting of trees where appropriate • Protection and retention of existing natural rocky outcrops, slope profiles, vegetation, landscape features; • Advance planting and visual screening, where possible; | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |

| Types of Impacts | Mitigation Measures | Status |
|------------------|---|--|
| | <ul style="list-style-type: none"> • Compensatory planting; • Sensitively designed site hoarding, where possible (ie the sensitive design of site hoarding will be disrupted by hoarding panels showing the Highways Department logo, at regular intervals as per the approved engineering design);and • Grassing and woodland planting of soil slopes and disturbed areas | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |
| Ecology | <ul style="list-style-type: none"> • Construction activities in the stream and other disturbances to it should be avoided. | <p style="text-align: center;">^</p> |

Remarks:

- | | | | |
|-----|---|---|---|
| ^ | Compliance of mitigation measure; | X | Non-compliance of mitigation measure; |
| N/A | Not Applicable; | • | Non-compliance but rectified by the contractor; |
| * | Recommendation was made during site audit but improved/rectified by the contractor. | # | Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment; |
-

**APPENDIX K
EVENT ACTION PLANS**

Appendix K – Event Action Plans

Event /Action Plan for Air Quality

| EVENT | ACTION | | | |
|------------------------------|---|---|---|---|
| | ET | IEC | ER | Contractor |
| <i>Action Level</i> | | | | |
| 1. Exceedance for one sample | <ol style="list-style-type: none"> 1. Inform the IEC and the Contractor about the exceedance within 24 hours of identification of exceedance; 2. Identify the source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of the investigation to the Contractor; 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 5. Repeat measurement to confirm finding. 6. If exceedance is indicated due to the Project construction works, increase 24-hour TSP monitoring frequency to 1-hour monitoring with 3 times every six days until no exceedance is recorded. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Confirm the ET assessment regarding the action and/or limit level exceedance during the impact monitoring; 3. Check Contractor's working method. | <ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify EPD and other relevant Government departments within 24 hours of identification of exceedance. | <ol style="list-style-type: none"> 1. Inform IEC and ER within 24 hours of identification of exceedance; 2. Submit proposals for remedial to ER within 3 working days of notification ET if exceedance is due to the Project construction works; 3. Rectify any unacceptable practice; 4. Amend working methods if appropriate and within reasonable time scale if exceedance is due to the Project construction works. |

| EVENT | ACTION | | | |
|---|---|---|--|--|
| | ET | IEC | ER | Contractor |
| <i>Action Level</i> | | | | |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> 1. Inform the IEC and the Contractor about the exceedance within 24 hours of identification of exceedance; 2. Identify the source. 3. Supervise implementation of remedial measures; 4. Report the results of the investigation to the Contractor; 5. Advise the ER on the effectiveness of the proposed remedial measures; 6. Repeat measurements to confirm findings; 7. Increase monitoring frequency to daily; 8. Discuss with the IEC and the Contractor on remedial actions required; 9. If exceedance continues, arrange meeting with the IEC and the ER. 10. If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET; 2. Check the Contractor's working method; 3. Discuss with the ET and the Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance; 3. Ensure remedial measures properly implemented. | <ol style="list-style-type: none"> 1. Inform IEC and ER within 24 hours of identification of exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. |

| EVENT | ACTION | | | |
|------------------------------|---|---|---|--|
| | ET | IEC | ER | Contractor |
| <i>Limit Level</i> | | | | |
| 1. Exceedance for one sample | <ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance; 2. Identify the source, investigate the causes of exceedance and propose remedial measures; 3. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 4. Repeat measurement to confirm finding. 5. If exceedance is indicated due to the Project construction works, increase 24-hour TSP monitoring frequency to 1-hour monitoring with 3 times every six days until no exceedance is recorded; 6. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 3. Discuss with the ET, the Contractor and the ER on possible remedial measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. 5. Supervise implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify EPD and other relevant Government departments within 24 hours of identification of exceedance; 3. Ensure remedial measures are properly implemented. | <ol style="list-style-type: none"> 1. Inform ER and IEC within 24 hours of identification of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER and IEC within 3 working days of notification by ET; 4. Implement the agreed proposals; 5. Report effectiveness of remedial actions to IEC and ER; 6. Amend proposal if appropriate. |

| EVENT | ACTION | | | |
|---|---|---|---|--|
| | ET | IEC | ER | Contractor |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance; 2. Identify the source; 3. Repeat measurements to confirm findings if the exceedance is due to the Project construction works; 4. Increase monitoring frequency to daily; 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with the IEC and the ER to discuss the remedial actions to be taken; 7. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results; 8. If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> 1. Discuss amongst the ER, ET and the Contractor on the potential remedial actions; 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures are properly implemented; 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. | <ol style="list-style-type: none"> 1. Inform ER and IEC within 24 hours of identification of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to IEC within 3 working days of notification by ET; 4. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 5. Implement the agreed proposals; 6. Resubmit proposals if problem still not under control; 7. Report effectiveness of remedial actions to IEC and ER; 8. Stop the relevant activity of works as determined by the ER until the exceedance is abated. |

Note: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Event Action Plan for Construction Noise

| EVENT | ACTION | | | |
|--------------|---|---|--|--|
| | ET | IEC | ER | Contractor |
| Action Level | <ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance. 2. Carry out investigation. 3. Report the results of investigation to the IEC and the Contractor. 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 5. Discuss with the Contractor and formulate remedial measures. 6. Increase monitoring frequency to check mitigation effectiveness. | <ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. | <ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC 2. Implement noise mitigation proposals |

| EVENT | ACTION | | | |
|-------------|--|---|---|--|
| | ET | IEC | ER | Contractor |
| Limit Level | <ol style="list-style-type: none"> 1. Notify the IEC and the Contractor within 24 hours of identification of exceedance. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD within 24 hours of identification of exceedance. 6. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 7. Inform the IEC, the ER and the DEP the causes & actions taken for the exceedances. 8. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results. 9. If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> 1. Discuss amongst the ER, the ET and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of NOE in writing. 2. Notify the EPD and other relevant Government departments within 24 hours of identification of exceedance. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated. |

Note: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Event / Action Plan for Water Quality

| EVENT | ACTION | | | |
|--|--|---|--|---|
| | ET | IEC | ER | Contractor |
| Action Level being exceeded by one sampling day | <ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD with 24 hours of identification of exceedance. 5. Check monitoring data, all plant, equipment and the Contractor's working methods; 6. Discuss mitigation measures with the IEC and the Contractor; 7. Repeat measurement on next day of exceedance. | <ol style="list-style-type: none"> 1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Discuss with the IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented. | <ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET and the IEC and propose mitigation measures to the IEC and the ER; 6. Implement the agreed mitigation measures. |
| Action Level being exceeded by more than one consecutive sampling days | <ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with the IEC and the Contractor; 6. Ensure mitigation measures are implemented; 7. Prepare to increase the monitoring frequency to daily; | <ol style="list-style-type: none"> 1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the | <p>Discuss with IEC on the proposed mitigation measures;</p> <p>Make agreement on the mitigation measures to be implemented;</p> <p>Access the effectiveness of the implemented mitigation measures.</p> | <ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET and the IEC and propose mitigation measures to the IEC and ER within 3 working days; 6. Implement the agreed mitigation measures. |

| EVENT | ACTION | | | |
|--|---|---|--|---|
| | ET | IEC | ER | Contractor |
| | 8. Repeat measurement on next day of exceedance. | effectiveness of the implemented mitigation measures. | | |
| Limit Level being exceeded by one consecutive sampling day | <ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Prepare Notification of Exceedance (NOE) to inform the Contractor, the IEC, the ER and the EPD with 24 hours of identification of exceedance. 5. Check monitoring data, all plant, equipment and the Contractor's working methods; 6. Discuss mitigation measures with the IEC, the ER and the Contractor; 7. Ensure mitigation measures are implemented; 8. Increase the monitoring frequency to daily until no exceedance of Limit Level. | <ol style="list-style-type: none"> 1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request the Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures. |

| EVENT | ACTION | | | |
|---|---|---|---|--|
| | ET | IEC | ER | Contractor |
| Limit Level being exceeded by more than one consecutive sampling days | <ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC, the Contractor and DEP; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with the IEC, the ER and the Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. | <ol style="list-style-type: none"> 1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works until no exceedance of Limit Level. | <ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures; 7. As directed by the ER, slow down or stop all or part of the construction activities. |

**APPENDIX L
COMPLAINT LOGS**

Appendix L - Complaint Log

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|-----------------|--|----------------------|--|--|---------------|
| S63 | Tung Chung Road and Cheung Sha Stream | 14 Sep 06 | The complaint, which was lodged by Green Lantau Association on 13th September 2006, accused the failure of the site drainage system to check the discharge of silt-laden surface water from the site on that day. | ETL is of the view that the complaint is justifiable but the accusation is not substantiated by scientific data in that the rainstorm event was 1 in 25 years. It is therefore beyond the Contractor's terms of contract to design, operate and maintain the carrier pipe and the sedimentation tank to cater for this rainstorm. The Contractor has a defensible case under this increment weather condition. | Closed |
| S65-S69 | Tung Chung Road Southern Section; Cheung Sha Stream; | 19 Sep 06 | Five complaints, which were lodged by Green Lantau Association on 15th September 2006, accused the failure of the drainage system for the Project on 13th September 2006. The subject of complaints are listed as below: (i) Failed Filtration System (ii) Contaminated Stream (iii) Polluted Cheung Sha Stream (iv) Polluted Cheung Sha Stream (v) Site Debris on Road | ETL is of the view that the complaints are justifiable but the accusation is not substantiated by scientific data in that the rainstorm event was 1 in 25 years. It is therefore beyond the Contractor's terms of contract to design, operate and maintain the carrier pipe and the sedimentation tank to cater for this rainstorm. The Contractor has a defensible case under this increment weather condition. | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|-----------------|------------------------------------|----------------------|--|--|---------------|
| S71 | Northern Section, Tung Chung Road | 3 Nov 06 | The complaint, which was referred by Resident Site Staff (RSS) to ET on 3 rd November 2006, was raised by a resident living Lantau Island on 17 th October 2006 concerning the Tung Chung Road condition on 16 th October 2006. | <p>Based on the meteorological data extracted from HKO, the total rainfall between 0:45 and 6:45 hours in Lantau was 196 mm with an average intensity of 32.67 mm/hr on 16th October.</p> <p>Based on the results derived from Table 2 “the Intensity-Duration-Frequency (IDF) for various return periods” and Table 4 “Depth-Duration-Frequency (DDF) for durations of than 4 hours” of the “Stormwater Drainage Manual”, the return period should be less than 1 in 10 years.</p> <p>Therefore, the complaint was considered justifiable since the EIA report has recommended the provision of site drainage system shall be 1 in 10 years. The Contractor has implemented remedial measures and preventive measures.</p> | Closed |
| S72 | Lung Tseng Tau Village, Tung Chung | 3 Nov 06 | The public complaint, which was referred by RSS to ET on 3 rd November 2006, was received by the Integrated Complaint Centre (ICC) on 26 th October 2006 regarding dust nuisance generated from the Project. | <p>Based on the information collected and the monitoring results, the complaint was considered not justifiable due to the following since no exceedance of the air quality monitoring results was recorded in October 2006.</p> <p>During site inspections in the month, dust mitigation measures have been implemented by the Contractor; and no observation was recorded during the site inspections.</p> <p>According to the information provided by the Contractor and the RSS, the Contractor has implemented additional mitigation measures, including increased water spraying on the public road to more than once a day and covered the stockpiling materials.</p> | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|-----------------|---------------------------------|----------------------|---|---|---------------|
| S73 | Southern Section of the Project | 3 Nov 06 | The complaint, which was referred by RSS to ET on 3 rd November 2006, was raised by a resident living at Cheung Sha on 24 th October 2006 concerning noise generated from rock breaking in Southern Section of the Project. | <p>According to the EM&A records, no exceedance of noise level and no non-compliance were recorded in the month.</p> <p>As advised by the Contractor and RSS, silent rock breaking equipment has been used and noise insulation materials have been used to minimize the noise impact generated from the rock breaking activity.</p> <p>Based on the provided information and the monitoring results, the complaints are considered not justifiable. The Contractor has implemented the mitigation measures to minimize the noise generation from construction activities and was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.</p> | Closed |
| S74 | Tung Chung Stream | 24 Nov 06 | Highways Department (HyD) of HKSAR received a complaint for Agriculture, Fisheries and Conservation (AFCD) regarding untreated site runoff discharged to Tung Chung Stream during the site visit on 21 st November 2006. The Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 24 th November 2006. | The investigation revealed that, based on the meteorological data extracted from HKO, the highest rainfall recorded was between 13:45 and 15:45, with a total of 93mm in two hours. With the above rainfall intensities extracted from HKO, together with the Intensity-Duration-Frequency (IDF) for various return periods derived from Table 2 of the "Stormwater Drainage Manual", the return period should be less than 10 years. Therefore, the complaint was considered justifiable and the Contractor has implemented remedial measures and preventive measures. | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|--|---------------|---|---|--------|
| S75 | West of the new Tung Chung Road Southern Section Discharge Point | 21 Nov 06 | Both Environmental Protection Department (EPD) and China Civil Engineering Construction Corporation and China Railway Wuju Joint Venture (the Contractor) received the same public complaint, regarding muddy water discharged to Chueng Sha on 21 st November 2006. The Contractor subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on the same day. | The complainant considered that this stream was muddy and discharging muddy water into the sea. As stated in the above paragraph, the investigation revealed that the return period for the rainfall between 13:45 and 15:45 was 41 years. As the complaint was lodged at 14:58 on 21 st November 2006, it is reasonable to consider the rainfall recorded in the hour between 13:45 to 14:45 which was 57mm. According to "Stormwater Drainage Manual", the return period should be less than 10 years. Therefore, the complaint was considered justifiable and the Contractor has implemented remedial measures and preventive measures. | Closed |
| S76 | Pui O Wan | 27 Nov 06 | China Civil Engineering Construction Corporation and China Railway Wuju Joint Venture (the Contractor) received the same public complaint, regarding muddy water discharged into Pui O Wan on 23 rd November 2006. According to the complainant, muddy water was discharged into Pui O Wan from the new Tung Chung Road Southern Section Discharge Point (near proposed round about on South Lantau Road) in the morning of 23 rd November 2006. The complainant suspected that the muddy water was being pumped off site through failed filtration systems into the sea as there had been no recent rainfall on that day. | The investigation revealed that the complaint was considered not justifiable since (1) no muddy water was generated due to the construction activities in the vicinity of the discharged point; and (2) no surface runoff as no rainfall was recorded on 23 rd November 2006. | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|---|---------------|--|--|--------|
| S77 | Sheung Ling Pei, Ha Ling Pei, Wong Ka Wai & Lung Tseng Tau Villages | 18 Dec 06 | <p>Highways Department (HyD) and the Resident Engineer received a complaint against Water Quality Supply (Muddy Water) at Sheung Ling Pei, Ha Ling Pei, Wong Ka Wai & Lung Tseng Tau Villages via District Office (Islands) on 29th November 2006.</p> <p>The complainants claimed that subject villages were suffering from muddy water supplied from the water main on the past few days before 29th November 2006.</p> | <p>Upon receipt of the complaint, the Contractor inspected all streams (above AFCD entrance) in the Northern Section. Muddy water was observed at Stream 13 which was believed the source of muddy water. However, no water flow was found at the stream. The muddy water was considered probably due to the seepage of underground water mixed with excavated soil to Stream 13. Furthermore, an ad-hoc meeting between DO/WSD/AFCD/MOTT/CCJV/IEC/ET was held on 14 December 2006 to discuss this issue.</p> <p>The complaint was considered due to the construction activities of the Project. Emergency remedial works had been taken by the Contractor to rectify the situation and preventive measures had also been implemented.</p> | Closed |
| S80 | Tung Chung Road near Lung Tseng Tau Village | 3 Jan 07 | <p>The complaint was lodged by a resident at Lung Tseng Tau Village regarding dust nuisance at Tung Chung Road near Lung Tseng Tau Village. According to the complainant, the dust was generated by vehicle movements (about 5 to 7 per day). The complainant noticed that there was only once per day for water spraying on the road. She suggested that the frequency of water spraying should be increased to 1 to 2 per hour. In addition, she requested to provide more water-spraying practice for the concerned area.</p> | <p>According to the Contractor and the RSS, the main dust emission in the vicinity of Lung Tseng Tau Village was due to the vehicle movements on Tung Chung Road.</p> <p>Base on the information collected and the monitoring results, the complaint was considered not justifiable since (1) no exceedance of the air quality monitoring results was recorded in December 2006; (2) dust mitigation measures have been implemented by the Contractor; and (3) no observation was recorded during the site inspections.</p> <p>In response to the complaint, the Contractor had stepped up the dust suppression control immediately. A water truck was mobilized to spray water at Tung Chung Road within particular in the vicinity of the complainant's house from once per day to at least 3 times per day.</p> | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|----------------|---------------|--|---|--------|
| S81 | Lung Tseng Tau | 20 Dec 06 | <p>The Contractor, CCECC and CRWJ Joint Venture (CCJV) and Highways Department (HyD) of HKSAR received a complaint regarding dust control at Lung Tseng Tau from the Office of Islands District Councilor, Wong Fuk-kan on 6th December 2006.</p> <p>According to the complainant, he had received a number of complaints from residents in South Lantau regarding the dust nuisance when their vehicles passing through Tung Chung Road near Lung Tseng Tau. The residents said their vehicles were full of dust whenever they had passed through Tung Chung Road.</p> | <p>Base on the site inspection records and information collected from the RSS and the Contractor, the complaint was considered due to due to the vehicle movements on Tung Chung Road. In response to the complaint, the RSS has conducted site inspection in the afternoon on 18th December 2006. The Contractor had immediately mobilized labors to clear the mud trail on Tung Chung Road between ch.3700-4000 using sweepers. In order to maintain the condition of Tung Chung Road, the Contractor has mobilized more staff to clear the mud deposits on the whole Northern Section of Tung Chung Road on 23rd December 2006.</p> <p>The Contractor has provision wheel washing facilities at each site exit/entrance. In order to maintain Tung Chung Road condition, the Contractor has mobilized a water truck solely for wheel washing purpose at the site entrance near RW37 between ch.3700-4000 since 23rd December 2006. The location is the most busy site exit/entrance for soil removal as wheel washing facilities. Wheels of each vehicle shall be washed before leaving the site. The wastewater after wheel washing at each site exit/entrance shall be collected and treated before discharge at designated location. also mobilized water trucks</p> | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|-------------------------------------|---------------|---|---|--------|
| S82 | The nullah near the Yat Tung Estate | 15 Jan 07 | <p>The complaint was lodged by the Legislative Councillor Hon. Albert W.Y. Chan regarding frequent discharge of muddy water from the Tung Chung Road improvement project on 15th December 2006. According to Mr. Chan's letter, the complainant was a resident living in Tung Chung.</p> <p>The DSD letter pointed out that muddy water was being frequently discharged to the nullah near the Yat Tung Estate, and confirmed that the site of Tung Chung Road improvement project was the source of such discharge.</p> | <p>After investigation, the discharge of muddy water was largely due to the deposited silts caused by previous heavy rainstorms in November.</p> <p>The contractor has responded promptly in deploying a number of actions to remedy the matter. These include de-silting operation at Wong Lung Hang nullah on 23rd December 2006 to remove the accumulated soil and silt materials washed down by the discharges, of which photographs are provided.</p> <p>In addition, several intermediate sedimentation ponds along the temporary drainage system south of Shek Mun Kap to improve de-silting capacity have been installed, and that the site condition will be closely monitored so that advice on any practical measures in improving the quality of water discharge to Wong Lung Hang nullah can be given.</p> <p>In addition, the Contractor is also undergoing continual inspections and monitoring on the conditions of the concerned discharge of the construction site, and is in close liaison with the ET to cap exceeding levels of future discharge.</p> | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|--|---------------|---|--|--------|
| S86 | Slope opposite to the AFCD's Office at Tung Chung Road near mileage M2.5 | 8 Feb 07 | The complaint was lodged by a resident in Lantau Island regarding the construction noise generated from the road works at the slope opposite to the AFCD's Office at Tung Chung Road near mileage M2.5. | <p>The site of concern is most likely at the RW6 of the Project. According to the Contractor, soil nailing works was conducted at RW6 and the first stage of soil nailing works at RW6 has been completed before 8th February 2007.</p> <p>According to the noise monitoring results at monitoring station NM5, Tung Chung Au Country Parks Management Centre, which is located near the AFCD's Office, there was no exceedance recorded from 2nd January to 14th February 2007.</p> <p>As advised by the Contractor, the following mitigation measures will be implemented as far as possible to reduce the noise nuisance to the nearby residents when soil nailing works carry out in the future:</p> <ul style="list-style-type: none"> ● To cover the soil nailing works area with tarpaulin; ● To reduce the number of machines for soil nailing; ● To orientate the machines for soil nailing works so that the major noise generating part will not directly face the Noise Sensitive Receiver; and ● To scatter the plants so that the noise being generated will not be centralized in certain direction. | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|--|---------------|--|---|---|
| S90 | Northern and Southern Section of Tung Chung Road | 20 May 07 | <p>The complaint was lodged by the Green Lantau Association at on 20 May 2007 regarding failed drainage for the Project on that day.</p> | <p>According to the Contractor, the main concern in the Northern Section is that a large amount of seepage from the permanent slope near the Stream 18 and Stream 21 was observed. The permanent hinterland u-channel was not able to collect most of the hinterland water which ultimately collected by the carrier pipe and increased the loading of the treatment facilities at Shek Mun Kap.</p> <p>As advised by the Contractor, the main problem in Southern Section was due to the fact that the silt is too fine to be settled within a short time, i.e. 3 minutes, as stated in the EIA Report. Due to the large catchments of the site, muddy water could not be completely settled or treated before discharged or overflowed. No bigger sedimentation tank can be constructed due to the site constraint to retain all surface water in heavy rainy days.</p> <p>The complaint was considered justifiable. However, it is beyond the Contractor's capability to completely avoid muddy water discharging or overflowing to sea due to the site conditions and constraints under increment weather conditions.</p> | <p>The complaint investigation report was commented</p> |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|-----------------|---------------|--|---|--------|
| S91 | Zone 4 (STR 14) | 1 June 07 | <p>The complaint was lodged by a resident in Butterfly Crest, Lantau Island regarding the construction noise generated from the Project on Sunday, which is likely to be 27th May 2007.</p> | <p>According to the Contractor, construction works were undertaken near STR 14 in the morning of 27th May 2007 and the Powered Mechanical Equipment (PME) used on that day included 2 excavators and 1 dump truck at STR 14. The concerned site was covered under the construction noise permit (CNP) no. GW-RS0281-07.</p> <p>As advised by the Contractor, the 2 excavators and 1 dump truck, which categorized separately as Group A and Group E of the abovementioned CNP, were utilized alternatively during the operation in order to comply with the conditions stipulated in the CNP.</p> <p>Base on the information collected, the complaint was considered not justifiable as the equipment used comply with the CNP conditions.</p> | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|------------------------------|---------------|--|---|---|
| S93 | Western Section of Pui O Bay | 22 May 07 | <p>The complaint was lodged by the Green Lantau Association at on 22 May 2007 regarding muddy water was observed at 50m west of the Tung Chung Road southern section around 11am on 22 May 2007.</p> | <p>As advised by the Contractor, the main problem in Southern Section was due to the fact that the silt is too fine to be settled within a short time, i.e. 3 minutes, as stated in the EIA Report. Due to the large catchments of the site, muddy water could not be completely settled or treated before discharged or overflowed. No bigger sedimentation tank can be constructed due to the site constraint to retain all surface water in heavy rainy days.</p> <p>In the site near Pui O Wan, the Contractor has exhausted their efforts including to pump the water from sedimentation tanks back to the stockpile area. Unfortunately, one of the pumps was out of order in the early days of that rainy period. However, the pump has been rectified on 22 May 2007.</p> <p>The complaint was considered justifiable. However, it is beyond the Contractor's capability to completely avoid muddy water discharging or overflowing to sea due to the site conditions and constraints under increment weather conditions.</p> | <p>The complaint investigation report was commented</p> |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|--------------------------------|---------------|---|---|--------|
| S100 | Stream water behind WSD's weir | 27 July 07 | <p>The complaint was lodged by a resident living at Lung Tseng Tau area during the meeting between RSS and the representatives from the villages at Lung Tseng Tau area on 17th July 2007 regarding turbid water supply from DO main to the village houses at Lung Tseng Tau area.</p> | <p>The RSS and the Contractor had a site investigation with the complainant at his household water supply, the WSD weir and a work area immediately upstream of the weir (STR02 near the Stream 12) on the same day.</p> <p>It was observed that the water directly from the household supply was found with low degree of turbidity when comparing it with portable water supply.</p> <p>According to the visual inspection of the RSS and the Contractor, the stream water behind the WSD's weir, which is the source of water supply to the villagers via a DO main, was found clear and there was no sign of contamination.</p> <p>Inspection of the work site at STR02 upstream of the weir indicated no activities affecting the upstream water quality.</p> <p>By reviewing the water quality monitoring data at Tung Chung Stream during early of July 2007, the turbidity and SS values are considered to be low and the data revealed that the Tung Chung Stream and the WSD weir were not contaminated during the above mentioned period.</p> <p>Nevertheless, In order to minimize the water quality impacts, the Contractor has implemented following mitigation measures:</p> <ul style="list-style-type: none"> • To erect sand bag bund in the vicinity of STR02; • To shotcrete the soil surface near Stream 12. | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|--|---------------|--|---|--------|
| S104 | Tung Chung Road and Tung Chung Au near AFCD's Office | 6 August 07 | <p>The complaint was lodged by Mr. Ho on 6th August 2007 regarding a suspected case of silty runoff and muddy water generated from construction site flowing on public road. Turbid water was observed behind the weir near the AFCD's office at Tung Chung Au.</p> | <p>No non-compliance or environmental deficiency related to or in the vicinity of the concerned area was identified during these site audits.</p> <p>According to Hong Kong Observatory, Hong Kong was under the effect of the tropical storm over the central part of the South China Sea which brought heavy showers with 100.4 millimeters of total rainfall recorded on 6 August. The amber rainstorm warning was hoisted between 15:55pm to 17:30pm.</p> <p>The Contractor has confirmed there was no construction activity in the concerned area on 6th August 2007 due to heavy rainfall. According to the Contractor, muddy water was the silty runoff from nearby work sites due to the heavy rainfall on the day.</p> <p>The Contractor has implemented following mitigation measures:</p> <ul style="list-style-type: none"> • To desilt temporary drainage channels and sedimentation tank. • To clear the silt and mud in the surface of haul road at RW06 ad RW07. • To cover exposed slope with tarpaulin at RW06 and RW07. <p>According to the RSS and the Contractor, no further report of silt and muddy water runoff from concerned area was received after implementation of the aforesaid mitigation measures.</p> | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action | Status |
|----------|------------------------------------|------------------|--|---|--------|
| S113 | Upper and Lower Cheung Sha Village | 12 December 2007 | The complaint was lodged by Mr. Liu on 12 December 2007 regarding dust nuisance at Upper and Lower Cheung Sha Village. | <p>According to the Contractor, the main dust emission in the vicinity of Cheung Sha Village was due to the road works and associated vehicle movements on Tung Chung Road.</p> <p>The Contractor has implemented following mitigation measures:</p> <ul style="list-style-type: none"> • Cleared the silts on the haul road; • Applied watering on the road by water hose at San Shek Wan; • Increased the number of water browsers; and • Covered the exposed slope and stockpiles with tarpaulin sheets. <p>By reviewing the air quality monitoring data, there was no exceedance of air quality monitoring results on 8th and 14th December 2007 and dust mitigation measures have been implemented by the Contractor.</p> <p>According to the RSS and the Contractor, no further complaint regarding dust nuisance from concerned area was received after implementation of the aforesaid mitigation measures.</p> | Closed |

**APPENDIX M
SUMMARY OF WARNING / DIRECTION
ISSUED BY THE EPD AND
PROSECUTION**

Appendix M - Summary of Warnings / Direction Issued by the EPD and Prosecution

Summary of Warnings / Direction Issued by the EPD

| Date of Letter | Warnings/Direction |
|-------------------|---|
| 3 February 2005 | The Contractor was requested to construct catch pits and perimeter channels in advance of site formation and earth works |
| 17 May 2005 | The Contractor was requested to immediately re-provide the on-site wastewater management systems to adequately cater the rainwater runoff and to submit the detail proposal for runoff management and treatment systems. |
| 4 October 2005 | The Contractor was requested to rectify the situation in order to comply with EP Conditions 2.4 & 2.5 regarding the provision of drainage systems, EP Condition 3.16 regarding site runoff mitigation measures and EP Condition 3.6 regarding no works of the Project shall be carried out outside the “limit of works area”. |
| 15 December 2005 | The Contractor was requested to rectify the situation of Zone D where fuel oil was found spilled onto ground of the works area in contravention to Section 7.5.2.1 of the Waste Management Plan (WMP). The Section stipulates provisions against spillage of fuels to prevent contamination of the construction site. |
| 24 March 2006 | The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream. |
| 13 April 2006 | The Contractor was requested to rectify the situation of Zone E where fuel oil was stored within the Country Park in contravention to condition 3.14 of the EP. |
| 29 June 2006 | The Contractor was requested to rectify the situation that site runoff will not be discharged into Tung Chung Stream in order to comply with EP Condition 2.4. |
| 26 September 2006 | The Contractor was requested to rectify the situation that excessive dust emission occurred. Watering programme shall maintain to ensure that all exposed road surfaces and dust sources are wet in order to comply with EP Condition 1.7. |
| 4 October 2006 | <ul style="list-style-type: none"> -The Contractor was requested to rectify the situation that site runoff will not be discharged into Tung Chung Stream in order to comply with EP Condition 2.4. -The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream 28 -.The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream 32. - The Contractor was requested to rectify the situation in order to comply with EP Condition 3.9 regarding the stipulated span of temporary bridges used during construction to cross the stream 33. |
| 13 February 2007 | The Contractor was requested to rectify the situation that site runoff will not be discharged into Tung Chung Stream in order to comply with EP Condition 2.4. |
| 19 February 2008 | The Contractor was requested to take all necessary actions to rectify the situation that surface run-off from the construction site discharged into storm drain without treatment in order to comply with EP Condition 3.16. |
| 14 April 2008 | The Contractor was required to take all necessary actions to rectify the situation |

| Date of Letter | Warnings/Direction |
|----------------|--|
| | that a section of the site near Pak Kung Au was not provided with vehicle washing facilities including high pressure water jet at vehicular exit points so as not to contravene the statutory requirement. |

Summary of Notification of Summons








| Date of Summons | Details of the Summons | Status |
|------------------|---|---|
| 25 January 2007 | Construction works at a slope next to Stream no. 28 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 3.9 concerning works at Stream 28 on 26 July 2006 | Withdrawn by EPD |
| 16 February 2007 | Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 16 August 2006 | The Contractor was fined \$7500 on 4 June 2007. |
| 17 May 2007 | Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 21 November 2006 | The Contractor was fined \$7500 on 4 June 2007. |

Summary of Notification of Successful Prosecution

| Date of Successful Prosecution | Details of the Successful Prosecution | Status |
|--------------------------------|---|--|
| 4 June 2007 | Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 16 August 2006 | The Contractor was fined \$7500 on 4 June 2007 |
| 4 June 2007 | Construction works near Stream no. 8 along Tung Chung Road, Cheung Sha, Lantau Island which contrary to EP Condition 2.4 by discharging runoff during construction into Tung Chung Stream on 21 November 2006 | The Contractor was fined \$7500 on 4 June 2007 |

APPENDIX N
CONSTRUCTION PROGRAMME

| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 | |
|-------------------------------|--|----------|--------|-------------|--------------|--|----|----|----|-----|----|----|----|-----|----|----|----|------|------|------|--|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | 27 | | | |
| Commencement & Key Dates | | | | | | | | | | | | | | | | | | | | | |
| Revised Key Dates | | | | | | | | | | | | | | | | | | | | | |
| ZAKD0000 | Commencement of Contract | 0 | 100 | 28JUN04 A | | Contra | | | | | | | | | | | | | | | |
| ZAKD001 | Complete Works in Section 1 | 0 | 0 | | 30APR09 | ◆ Complete Wor | | | | | | | | | | | | | | | |
| ZAKD002 | Complete Works in section 2 | 0 | 0 | | 31DEC08 | ◆ Complete Works | | | | | | | | | | | | | | | |
| ZAKD003 | Complete Works in Section 1A | 0 | 0 | | 31AUG11 | ◆ C | | | | | | | | | | | | | | | |
| ZAKD0035 | Extended Completion Date of Section 1A(Claim 62) | 0 | 0 | | 08MAR09 * | ◆ Extended Comp | | | | | | | | | | | | | | | |
| ZAKD004 | Complete Works in Section 2A | 0 | 0 | | 31AUG11 | ◆ C | | | | | | | | | | | | | | | |
| ZAKD005 | Complete Works in Section 3 | 0 | 0 | | 01AUG11 | ◆ Co | | | | | | | | | | | | | | | |
| ZAKD006 | Complete Works in Section 3A | 0 | 0 | | 30AUG12 | | | | | | | | | | | | | | | | |
| ZAKD007 | Complete Works in Undefined Section | 0 | 0 | | 21AUG09 | ◆ Complete W | | | | | | | | | | | | | | | |
| ZAKD008 | Complete Establish'nt Works in Undefined Section | 0 | 0 | | 31AUG11 | ◆ C | | | | | | | | | | | | | | | |
| Completion Dates | | | | | | | | | | | | | | | | | | | | | |
| ZAKD0020 | Extended Completion Date of Section 1 (Claim 62) | 0 | 100 | | 09MAR07 A | nded Completion Date of Section 1 (Claim | | | | | | | | | | | | | | | |
| ZAKD0050 | Extended Completion Date of Section 2 (Claim 62) | 0 | 100 | | 06JAN07 A | nded Completion Date of Section 2 (Claim | | | | | | | | | | | | | | | |
| ZAKD0065 | Extended Completion Date of Section 2A(Claim 62) | 0 | 0 | | 05JAN09 * | ◆ Extended Comp | | | | | | | | | | | | | | | |
| ZAKD0080 | Extended Completion Date of Section 3 (Claim 62) | 0 | 100 | | 09JUN07 A | nded Completion Date of Section 3 (Claim | | | | | | | | | | | | | | | |
| ZAKD0100 | Extended Completion Date of Section 3A(Claim 62) | 0 | 0 | | 08JUN09 * | ◆ Extended Con | | | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | | | | | | | | | |
| Monthly Monitoring Submission | | | | | | | | | | | | | | | | | | | | | |
| 0470 | Waste Management Plan | 2323 | 53 | 04NOV04 A | 25APR11 | Was | | | | | | | | | | | | | | | |
| 0480 | Environment Monitoring and Audit | 2323 | 53 | 04NOV04 A | 25APR11 | Envi | | | | | | | | | | | | | | | |

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|---------------------------|-------------|---|------------------------|
| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 1A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |
| © Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

| Date | Revision | Checked | Approved |
|---------|-----------|---------|----------|
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|--------------------------|---|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|---|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| Section 1 | | | | | | | | | | | | | | | | | | | | |
| Zone A (CH. 1000 - 1565) | | | | | | | | | | | | | | | | | | | | |
| Drainage Works | | | | | | | | | | | | | | | | | | | | |
| S1-1500 | Footpath and verge (Additional Work) | 64 | 0 | 16JUN08 A | 01SEP08 | | | | | | | | | | | | | Footpath and verge (Additional Work) | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| S1-1530 | Street Furniture (Additional Works) | 50 | 52 | 01JUL08 A | 30SEP08 | | | | | | | | | | | | | Street Furniture (Additional Works) | | |
| Landscaping | | | | | | | | | | | | | | | | | | | | |
| S1-1545 | Landscape Earth Bund Ch.920-1020 | 22 | 0 | 01APR09 * | 30APR09 | | | | | | | | | | | | | Landscape Ear | | |
| Zone B (CH. 1565 - 2130) | | | | | | | | | | | | | | | | | | | | |
| Slope Works | | | | | | | | | | | | | | | | | | | | |
| S1-2080 | Recompact fill slope remedial works ch1755-1945 | 50 | 0 | 01AUG08 * | 30SEP08 | | | | | | | | | | | | | Recompact fill slope remedial works ch175 | | |
| S1-2084 | Outlet of Culvert @ Ch2021 remedial works | 38 | 0 | 16AUG08 * | 30SEP08 | | | | | | | | | | | | | Outlet of Culvert @ Ch2021 remedial works | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| S1-2337 | Additional drainage Pipe Desilting Works | 115 | 0 | 14AUG08 | 31DEC08 * | | | | | | | | | | | | | Additional draina | | |
| S1-2338 | Footpath and Verge (Remedial Works) | 6 | 0 | 01NOV08 * | 07NOV08 | | | | | | | | | | | | | Footpath and Verge | | |
| S1-2370 | Additional street furnitures | 20 | 0 | 08NOV08 * | 01DEC08 | | | | | | | | | | | | | Additional street f | | |
| Zone C (CH. 2130 - 2725) | | | | | | | | | | | | | | | | | | | | |
| Slope Works | | | | | | | | | | | | | | | | | | | | |
| S1-3194 | Recompact fill slope (VO50 & 83) remedial work | 89 | 0 | 16JUN08 * | 30SEP08 | | | | | | | | | | | | | Recompact fill slope (VO50 & 83) remed | | |
| Retaining Wall RW06 | | | | | | | | | | | | | | | | | | | | |
| S1-2350 | Utilities (Remedial Works) | 119 | 0 | 01AUG08 * | 22DEC08 | | | | | | | | | | | | | Utilities (Remedia | | |
| S1-3890 | RC structure Bay 8 | 25 | 0 | 16OCT08 * | 13NOV08 | | | | | | | | | | | | | RC structure Bay 8 | | |
| S1-3900 | Backfilling | 13 | 0 | 14NOV08 | 28NOV08 | | | | | | | | | | | | | Backfilling | | |
| S1-3910 | Slope drainage | 25 | 0 | 29NOV08 | 30DEC08 | | | | | | | | | | | | | Slope drainage | | |

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| Start date | 28JUN04 | | Early bar |
| Finish date | 30AUG12 | | Progress bar |
| Data date | 01APR08 | | Critical bar |
| Number/Version | Revision 15 | | Summary bar |
| Page number | 2A | | Summary point |
| Project name | R1549 | | Start milestone point |
| | | | Finish milestone point |
| c Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

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| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|---------------------------------|--|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|------|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| S1-3631 | Waterworks remedial works | 6 | 0 | 23DEC08 * | 31DEC08 | | | | | | | | | | | | | | | |
| S1-3632 | HyD remedial works (kerb) | 12 | 0 | 02JAN09 * | 15JAN09 | | | | | | | | | | | | | | | |
| S1-3633 | Additional U channel | 9 | 0 | 02JAN09 * | 12JAN09 | | | | | | | | | | | | | | | |
| S1-3634 | Street furniture remedial works | 16 | 0 | 24JAN09 * | 14FEB09 | | | | | | | | | | | | | | | |
| S1-3635 | Footpath and Verge remedial works | 7 | 0 | 16JAN09 * | 23JAN09 | | | | | | | | | | | | | | | |
| Zone D (CH. 2725 - 3100) | | | | | | | | | | | | | | | | | | | | |
| Slope Works | | | | | | | | | | | | | | | | | | | | |
| S1-4069 | Utility remedial works CH2760-3060 downhill | 50 | 0 | 01SEP08 * | 31OCT08 | | | | | | | | | | | | | | | |
| S1-4080 | Top channel (CH. 2940 - 3060) remedial works | 26 | 0 | 01NOV08 | 01DEC08 | | | | | | | | | | | | | | | |
| S1-4081 | Concrete verge | 12 | 0 | 02DEC08 * | 15DEC08 | | | | | | | | | | | | | | | |
| Retaining Wall RW07 | | | | | | | | | | | | | | | | | | | | |
| S1-4241 | Utility remedial works | 166 | 0 | 01AUG08 * | 21FEB09 | | | | | | | | | | | | | | | |
| S1-4260 | Backfilling (Remaining) | 226 | 0 | 01APR08 * | 31DEC08 | | | | | | | | | | | | | | | |
| S1-4270 | Slope Drainage | 163 | 0 | 17JUN08 * | 31DEC08 | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| Road work | | | | | | | | | | | | | | | | | | | | |
| S1-4416 | Utility remedial works | 166 | 0 | 01AUG08 * | 21FEB09 | | | | | | | | | | | | | | | |
| S1-4417 | Waterworks remedial works | 13 | 0 | 23FEB09 * | 09MAR09 | | | | | | | | | | | | | | | |
| S1-4418 | HyD remedial works (kerb) | 13 | 0 | 10MAR09 * | 24MAR09 | | | | | | | | | | | | | | | |
| S1-4419 | Additional U channel | 11 | 0 | 10MAR09 * | 21MAR09 | | | | | | | | | | | | | | | |
| S1-4421 | Footpath remedial works | 6 | 0 | 25MAR09 * | 31MAR09 | | | | | | | | | | | | | | | |
| S1-4430 | Street Furniture remedial works | 9 | 0 | 01APR09 * | 15APR09 | | | | | | | | | | | | | | | |
| Zone E (CH. 3100 - 4010) | | | | | | | | | | | | | | | | | | | | |
| Slope Works | | | | | | | | | | | | | | | | | | | | |

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|---------------------------|-------------|---|------------------------|
| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 3A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |
| © Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

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| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|---------------------------------|--|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|------|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| S1-5151 | 9SE-D/F9 (Closure of existing TCR) | 38 | 0 | 16SEP08 * | 31OCT08 | | | | | | | | | | | | | | | |
| S1-5152 | TCR/UF/C/10 (Closure of existing TCR) | 25 | 0 | 01AUG08 * | 30AUG08 | | | | | | | | | | | | | | | |
| Retaining Wall RW10 | | | | | | | | | | | | | | | | | | | | |
| S1-5390 | Backfilling | 176 | 0 | 01APR08 * | 31OCT08 | | | | | | | | | | | | | | | |
| Retaining Wall RW11 | | | | | | | | | | | | | | | | | | | | |
| S1-5450 | Backfilling | 48 | 0 | 01DEC08 * | 31JAN09 | | | | | | | | | | | | | | | |
| S1-5463 | U channel | 24 | 0 | 02FEB09 * | 28FEB09 | | | | | | | | | | | | | | | |
| Retaining Wall RW12 | | | | | | | | | | | | | | | | | | | | |
| S1-5500 | Backfilling & Reinstatement of Carriageway | 37 | 0 | 01AUG08 * | 16SEP08 | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| Road work | | | | | | | | | | | | | | | | | | | | |
| S1-5843 | HyD remedial works (kerb) | 23 | 0 | 02JAN09 * | 31JAN09 | | | | | | | | | | | | | | | |
| S1-5844 | Waterworks remedial works | 20 | 0 | 02JAN09 * | 24JAN09 | | | | | | | | | | | | | | | |
| S1-5846 | Additional drainage works | 223 | 0 | 02JUN08 * | 28FEB09 | | | | | | | | | | | | | | | |
| S1-5847 | Footpath and verge additional works | 26 | 0 | 02MAR09 * | 31MAR09 | | | | | | | | | | | | | | | |
| S1-5836 | Utilities remedial works | 113 | 0 | 16AUG08 * | 31DEC08 | | | | | | | | | | | | | | | |
| S1-5838 | Additional street furniture | 22 | 0 | 01APR09 * | 30APR09 | | | | | | | | | | | | | | | |
| Zone F (CH. 4010 - 4686) | | | | | | | | | | | | | | | | | | | | |
| Slope Works | | | | | | | | | | | | | | | | | | | | |
| S1-6111 | 9SE-D/C20 (Closure of existing TCR) | 126 | 0 | 01APR08 * | 30AUG08 | | | | | | | | | | | | | | | |
| S1-6113 | TCR/UF/C/12 (Closure of existing TCR) | 25 | 0 | 01AUG08 * | 30AUG08 | | | | | | | | | | | | | | | |
| S1-6114 | 9SE-D/C35 (Closure of existing TCR) | 40 | 0 | 02JAN09 | 20FEB09 | | | | | | | | | | | | | | | |
| Retaining Wall RW14 | | | | | | | | | | | | | | | | | | | | |

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|----------------|-------------|--|------------------------|
| Start date | 28JUN04 | | Early bar |
| Finish date | 30AUG12 | | Progress bar |
| Data date | 01APR08 | | Critical bar |
| Number/Version | Revision 15 | | Summary bar |
| Page number | 4A | | Summary point |
| Project name | R1549 | | Start milestone point |
| | | | Finish milestone point |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

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| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | | 2009 | 2010 | 2011 |
|---|---|----------|--------|-------------|--------------|---------------------------------------|----|----|----|-----|----|----|----|-----|----|----|----|----|------|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | 27 | | | |
| S1-6231 | Additional drainage works | 35 | 0 | 21JUL08 * | 30AUG08 | Additional drainage works | | | | | | | | | | | | | | | |
| S1-6232 | Backfilling | 25 | 0 | 01SEP08 * | 30SEP08 | Backfilling | | | | | | | | | | | | | | | |
| Retaining Wall RW15 | | | | | | | | | | | | | | | | | | | | | |
| S1-6285 | Additional base slab & wall (V.O.115) | 22 | 0 | 02JAN09 | 30JAN09 | | | | | | | | | | | | | | | | |
| Retaining Wall RW16 | | | | | | | | | | | | | | | | | | | | | |
| S1-6365 | Proposed utilities installation | 60 | 0 | 02JAN09 | 16MAR09 | | | | | | | | | | | | | | | | |
| Retaining Wall RW39 | | | | | | | | | | | | | | | | | | | | | |
| S1-6530 | Backfilling remedial works | 50 | 0 | 01SEP08 * | 31OCT08 | Backfilling remedial works | | | | | | | | | | | | | | | |
| Culvert at CH. 4631 | | | | | | | | | | | | | | | | | | | | | |
| S1-6615 | 1050mm dia. pipeline under existing TCR | 30 | 0 | 02JAN09 | 09FEB09 | 1050mm dia. pip | | | | | | | | | | | | | | | |
| Water Works | | | | | | | | | | | | | | | | | | | | | |
| S1-6618 | Watermain water seepage around STR007 | 34 | 0 | 07JUL08 * | 15AUG08 | Watermain water seepage around STR007 | | | | | | | | | | | | | | | |
| Drainage Works | | | | | | | | | | | | | | | | | | | | | |
| S1-6750 | Additional drainage works | 64 | 0 | 07JUL08 * | 20SEP08 | Additional drainage works | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | | |
| S1-6722 | Utilities remedial works | 58 | 0 | 23JUN08 * | 30AUG08 | Utilities remedial works | | | | | | | | | | | | | | | |
| S1-6723 | Buttress wall near STR007 | 134 | 0 | 07APR08 * | 16SEP08 | Buttress wall near STR007 | | | | | | | | | | | | | | | |
| S1-6724 | Additional footpath & verge | 33 | 0 | 22SEP08 * | 31OCT08 | Additional footpath | | | | | | | | | | | | | | | |
| S1-6725 | Additional street furnitures | 25 | 0 | 01NOV08 * | 29NOV08 | Additional street f | | | | | | | | | | | | | | | |
| Pump House for Fire Hydrant @ CH. 4398 | | | | | | | | | | | | | | | | | | | | | |
| S1-6891 | E&M works | 126 | 0 | 01APR08 * | 30AUG08 | E&M works | | | | | | | | | | | | | | | |
| S1-6922 | Testing & commisioning | 25 | 0 | 01SEP08 * | 30SEP08 | Testing & commisioning | | | | | | | | | | | | | | | |

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| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 5A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |
| c Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

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| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 | |
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| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | 27 | | | |
| S1-6923 | Fencing & ground level works | 75 | 0 | 01SEP08 * | 29NOV08 | | | | | | | | | | | | | Fencing & ground | | | |
| Transformer Room at CH. 4660 | | | | | | | | | | | | | | | | | | | | | |
| S1-6903 | Fencing & ground level works | 151 | 0 | 02JUN08 * | 29NOV08 | | | | | | | | | | | | | Fencing & ground | | | |
| Section 1A | | | | | | | | | | | | | | | | | | | | | |
| Maintenance Access Track | | | | | | | | | | | | | | | | | | | | | |
| S1-1570 | Landscape softworks Ch.0-260 | 422 | 0 | 01APR08 * | 31AUG09 | | | | | | | | | | | | | Landscape sc | | | |
| Zone A (CH. 1000 - 1565) | | | | | | | | | | | | | | | | | | | | | |
| S1-1550 | Landscape softworks | 422 | 0 | 01APR08 * | 31AUG09 | | | | | | | | | | | | | Landscape sc | | | |
| Zone B (CH. 1565 - 2130) | | | | | | | | | | | | | | | | | | | | | |
| S1-2660 | Landscape Softworks | 422 | 0 | 01APR08 * | 31AUG09 | | | | | | | | | | | | | Landscape Sc | | | |
| Zone C (CH. 2130 - 2725) | | | | | | | | | | | | | | | | | | | | | |
| Landscaping | | | | | | | | | | | | | | | | | | | | | |
| S1-3850 | Landscape softworks | 123 | 0 | 01APR09 * | 31AUG09 | | | | | | | | | | | | | ○ Landscape sc | | | |
| Zone D (CH. 2725 - 3100) | | | | | | | | | | | | | | | | | | | | | |
| S1-4600 | Landscape Softworks | 114 | 0 | 16APR09 * | 31AUG09 | | | | | | | | | | | | | ○ Landscape Sc | | | |
| Zone E (CH. 3100 - 4010) | | | | | | | | | | | | | | | | | | | | | |
| S1-5915 | Landscape Softworks | 123 | 0 | 01APR09 * | 31AUG09 | | | | | | | | | | | | | ○ Landscape Sc | | | |
| Zone F (CH. 4010 - 4686) | | | | | | | | | | | | | | | | | | | | | |
| Landscaping | | | | | | | | | | | | | | | | | | | | | |

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| Start date | 28JUN04 | | Early bar |
| Finish date | 30AUG12 | | Progress bar |
| Data date | 01APR08 | | Critical bar |
| Number/Version | Revision 15 | | Summary bar |
| Page number | 6A | | Summary point |
| Project name | R1549 | | Start milestone point |
| | | | Finish milestone point |
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Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

| Date | Revision | Checked | Approved |
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| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|------------------------------------|--|----------|--------|-------------|--------------|--|----|----|----|-----|----|----|----|-----|----|----|----------------|------|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| S1-6910 | Landscape Softworks | 123 | 0 | 01APR09 * | 31AUG09 | | | | | | | | | | | | ○ Landscape Sc | | | |
| Establishment works | | | | | | | | | | | | | | | | | | | | |
| S1-6920 | Establishment Works for Section 1A(claim no.084) | 710 | 0 | 01SEP09 * | 31AUG11 | | | | | | | | | | | | ○ Es | | | |
| Section 2 | | | | | | | | | | | | | | | | | | | | |
| Zone 1 (CH. 7013 - Outfall) | | | | | | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| S2-1265 | Additional toe wall & F/P near YWCA(Claim no141) | 164 | 16 | 01MAR08 A | 16SEP08 | Additional toe wall & F/P near YWCA(Claim no141) | | | | | | | | | | | | | | |
| S2-1266 | Additional works on footpath and verge | 50 | 0 | 01AUG08 * | 30SEP08 | Additional works on footpath and verge | | | | | | | | | | | | | | |
| S2-1280 | CCTV and related slope | 50 | 0 | 01AUG08 * | 30SEP08 | CCTV and related slope | | | | | | | | | | | | | | |
| S2-1290 | Street Furnitures & road marking (additional) | 50 | 0 | 02OCT08 * | 29NOV08 | Street Furnitures | | | | | | | | | | | | | | |
| Zone 2 (CH. 6595 - 7013) | | | | | | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| Road work | | | | | | | | | | | | | | | | | | | | |
| S2-2395 | Additional works on footpath & Verge | 64 | 0 | 16JUL08 A | 30SEP08 | Additional works on footpath & Verge | | | | | | | | | | | | | | |
| S2-2400 | Street Furnitures & Road Marking (Additional) | 50 | 0 | 02OCT08 * | 29NOV08 | Street Furnitures | | | | | | | | | | | | | | |
| Zone 3 (CH. 6240 - 6595) | | | | | | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| Road work | | | | | | | | | | | | | | | | | | | | |
| S2-3736 | Additional works on footpath & verge | 50 | 0 | 01AUG08 * | 30SEP08 | Additional works on footpath & verge | | | | | | | | | | | | | | |
| S2-3740 | Street furnitures & Road Marking (Additional) | 50 | 0 | 02OCT08 * | 29NOV08 | Street furnitures & | | | | | | | | | | | | | | |
| Zone 4 (CH. 5625 - 6240) | | | | | | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| Road work | | | | | | | | | | | | | | | | | | | | |
| S2-4904 | Reinstatement around bridge structures | 89 | 0 | 16JUL08 A | 31OCT08 | Reinstatement around | | | | | | | | | | | | | | |
| S2-4905 | Additional works on footpath & verge | 25 | 0 | 01NOV08 | 29NOV08 | Additional works on | | | | | | | | | | | | | | |
| S2-4910 | Street Furnitures & Road Marking (Additional) | 24 | 0 | 02DEC08 * | 31DEC08 | Street Furnitures | | | | | | | | | | | | | | |

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| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 7A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |
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Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

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| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | | | |
|---|--|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|---|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | 2009 | 2010 | 2011 |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | 27 | | |
| Rockfall Protection System at CH.6100 (RPS7) | | | | | | | | | | | | | | | | | | | | |
| S2-4930 | Delivery of material | 183 | 0 | 01APR08 * | 30SEP08 | | | | | | | | | | | | | Delivery of material | | |
| S2-4940 | Erect fence | 39 | 0 | 02OCT08 | 17NOV08 | | | | | | | | | | | | | Erect fence | | |
| S2-4945 | Maintenance stairway (Remedial Work) | 36 | 0 | 18NOV08 | 31DEC08 | | | | | | | | | | | | | Maintenance stairway | | |
| Zone 5 (CH. 4922 - 5625) | | | | | | | | | | | | | | | | | | | | |
| Bridge STR09A | | | | | | | | | | | | | | | | | | | | |
| S2-5261 | Remove dangerous boulder (SI-36) remaining works | 37 | 0 | 03NOV08 * | 15DEC08 | | | | | | | | | | | | | Remove dangerous boulder | | |
| Water Works | | | | | | | | | | | | | | | | | | | | |
| S2-5705 | Construct Break Pressure Tank (E&M/finish) | 112 | 0 | 16AUG08 * | 30DEC08 | | | | | | | | | | | | | Construct Break Pressure Tank | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| Road work | | | | | | | | | | | | | | | | | | | | |
| S2-5854 | Reinstate't around bridge structures | 89 | 0 | 16JUL08 A | 31OCT08 | | | | | | | | | | | | | Reinstate't around bridge structures | | |
| S2-5855 | Additional works on footpath & verge | 25 | 0 | 01NOV08 | 29NOV08 | | | | | | | | | | | | | Additional works on footpath & verge | | |
| S2-5860 | Street Furnitures and Road Marking (Additional) | 24 | 0 | 02DEC08 | 31DEC08 | | | | | | | | | | | | | Street Furnitures and Road Marking (Additional) | | |
| Zone 6 (CH. 4686 - 4922) | | | | | | | | | | | | | | | | | | | | |
| Roadworks | | | | | | | | | | | | | | | | | | | | |
| Road work | | | | | | | | | | | | | | | | | | | | |
| S2-6709 | Reinstaement around structures | 100 | 0 | 16JUN08 A | 15OCT08 | | | | | | | | | | | | | Reinstaement around structures | | |
| S2-6710 | Additional works on footpath & verge | 39 | 0 | 16OCT08 * | 29NOV08 | | | | | | | | | | | | | Additional works on footpath & verge | | |
| S2-6720 | Street Furnitures & Raod Marking (Additional) | 25 | 0 | 01DEC08 * | 31DEC08 | | | | | | | | | | | | | Street Furnitures & Raod Marking (Additional) | | |
| Section 2A | | | | | | | | | | | | | | | | | | | | |
| Zone 1-6 | | | | | | | | | | | | | | | | | | | | |
| Landscaping | | | | | | | | | | | | | | | | | | | | |
| S2-6730 | Landscape Softworks | 196 | 0 | 01APR08 A | 31AUG09 | | | | | | | | | | | | | Landscape Softworks | | |
| S2-6735 | Haul road reinstatement | 73 | 0 | 01APR08 A | 31MAR09 | | | | | | | | | | | | | Haul road reinstatement | | |

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|---------------------------|-------------|--|------------------------|
| Start date | 28JUN04 | | Early bar |
| Finish date | 30AUG12 | | Progress bar |
| Data date | 01APR08 | | Critical bar |
| Number/Version | Revision 15 | | Summary bar |
| Page number | 8A | | Summary point |
| Project name | R1549 | | Start milestone point |
| | | | Finish milestone point |
| c Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

| Date | Revision | Checked | Approved |
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| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 | |
|--------------------------------|--|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|------------------------|------|------|--|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | 27 | | | |
| Establishment works | | | | | | | | | | | | | | | | | | | | | |
| S2-6740 | Establishment Works for Section 2A(claim no.084) | 710 | 0 | 01SEP09 * | 31AUG11 | | | | | | | | | | | | | | | | |
| Section 3 | | | | | | | | | | | | | | | | | | | | | |
| Feature No. TCR/UF/C/15 | | | | | | | | | | | | | | | | | | | | | |
| S3-3000 | Cut and Trim Slope Surface | 7 | 0 | 02JAN09 * | 12JAN09 | | | | | | | | | | | | | Cut and Trim Slo | | | |
| S3-3010 | 300mm u channel at crest | 10 | 0 | 14JAN09 | 31JAN09 | | | | | | | | | | | | | I 300mm u channe | | | |
| S3-3020 | Slope Surface Protection | 14 | 0 | 31JAN09 | 17FEB09 | | | | | | | | | | | | | I Slope Surface P | | | |
| Feature No. 13NE-B/C65 | | | | | | | | | | | | | | | | | | | | | |
| S3-3030 | Install soil nail (199 nos.) | 28 | 0 | 31JAN09 | 05MAR09 | | | | | | | | | | | | | I Install soil nail (1 | | | |
| S3-3040 | Slope surface protection | 14 | 0 | 05MAR09 | 21MAR09 | | | | | | | | | | | | | I Slope surface p | | | |
| Feature No. 13NE-B/C64 | | | | | | | | | | | | | | | | | | | | | |
| S3-3050 | Install soil nail (127 nos.) | 20 | 0 | 05MAR09 | 28MAR09 | | | | | | | | | | | | | I Install soil nail (1 | | | |
| S3-3060 | Pull out tests (4 nos.) | 8 | 0 | 28MAR09 | 08APR09 | | | | | | | | | | | | | I Pull out tests (4 | | | |
| S3-3065 | 300mm u-channel at crest & toe | 20 | 0 | 08APR09 | 07MAY09 | | | | | | | | | | | | | I 300mm u-chan | | | |
| S3-3070 | Slope surface protection | 14 | 0 | 07MAY09 | 23MAY09 | | | | | | | | | | | | | I Slope surface p | | | |
| Feature No. 13NE-B/C63 | | | | | | | | | | | | | | | | | | | | | |
| S3-3080 | Install soil nail (111 nos.) | 19 | 0 | 07MAY09 | 30MAY09 | | | | | | | | | | | | | I Install soil nail | | | |
| S3-3090 | Pull out test (5 nos.) | 8 | 0 | 30MAY09 | 09JUN09 | | | | | | | | | | | | | I Pull out test (5 | | | |
| S3-3100 | 300mm stepped & u-channel | 20 | 0 | 09JUN09 | 03JUL09 | | | | | | | | | | | | | I 300mm steppe | | | |
| S3-3110 | Slope surface protection | 14 | 0 | 03JUL09 | 20JUL09 | | | | | | | | | | | | | I Slope surface | | | |
| Feature No. 13NE-B/C62 | | | | | | | | | | | | | | | | | | | | | |
| S3-3120 | Install soil nail (144 nos.) | 22 | 0 | 03JUL09 | 29JUL09 | | | | | | | | | | | | | I Install soil nail | | | |
| S3-3130 | Pull out tests (5 nos.) | 8 | 0 | 29JUL09 | 07AUG09 | | | | | | | | | | | | | I Pull out tests (| | | |
| Start date | 28JUN04 | | | | | | | | | | | | | | | | | | | | |
| Finish date | 30AUG12 | | | | | | | | | | | | | | | | | | | | |
| Data date | 01APR08 | | | | | | | | | | | | | | | | | | | | |
| Number/Version | Revision 15 | | | | | | | | | | | | | | | | | | | | |
| Page number | 9A | | | | | | | | | | | | | | | | | | | | |
| Project name | R1549 | | | | | | | | | | | | | | | | | | | | |
| c Primavera Systems, Inc. | | | | | | | | | | | | | | | | | | | | | |

Contract No. HY/2003/19
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3M Rolling Programme 01.09.08 to 30.11.08

| Date | Revision | Checked | Approved |
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| 01AUG08 | 3M update | | |
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- Early bar
- Progress bar
- Critical bar
- Summary bar
- Summary point
- Start milestone point
- Finish milestone point








| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|--------------------------------|--|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|------------------|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| S3-3140 | 300mm stepped & u channel | 20 | 0 | 07AUG09 | 31AUG09 | | | | | | | | | | | | | I 300mm stepp | | |
| S3-3150 | Slope surface protection | 14 | 0 | 31AUG09 | 16SEP09 | | | | | | | | | | | | | I Slope surface | | |
| Feature No. 13NE-B/F64 | | | | | | | | | | | | | | | | | | | | |
| S3-3160 | Recompact slope | 14 | 0 | 31AUG09 | 16SEP09 | | | | | | | | | | | | | I Recompact s | | |
| S3-3170 | Reconstruct 750mm stepped channel & stairway | 20 | 0 | 16SEP09 | 10OCT09 | | | | | | | | | | | | | I Reconstruct | | |
| S3-3180 | 300mm u channel | 14 | 0 | 10OCT09 | 28OCT09 | | | | | | | | | | | | | I 300mm u ch | | |
| Feature No. 13NE-B/C80 | | | | | | | | | | | | | | | | | | | | |
| S3-3190 | Install soil nail (42 nos.) | 12 | 0 | 10OCT09 | 24OCT09 | | | | | | | | | | | | | Install soil na | | |
| S3-3200 | Pull out test (1 nos.) | 8 | 0 | 24OCT09 | 04NOV09 | | | | | | | | | | | | | I Pull out test | | |
| S3-3210 | 300mm u channel | 14 | 0 | 04NOV09 | 20NOV09 | | | | | | | | | | | | | I 300mm u ch | | |
| S3-3220 | Slope surface protection | 14 | 0 | 20NOV09 | 07DEC09 | | | | | | | | | | | | | I Slope surfac | | |
| Feature No. 13NE-B/C233 | | | | | | | | | | | | | | | | | | | | |
| S3-3230 | Install soil nail (44 nos.) | 12 | 0 | 20NOV09 | 04DEC09 | | | | | | | | | | | | | I Install soil n | | |
| S3-3240 | Pull out tests (2 nos.) | 8 | 0 | 04DEC09 | 14DEC09 | | | | | | | | | | | | | Pull out test | | |
| S3-3250 | Reconstruct 300mm u channel | 14 | 0 | 14DEC09 | 02JAN10 | | | | | | | | | | | | | I Reconstruct | | |
| S3-3260 | Slope surface protection | 20 | 0 | 02JAN10 | 26JAN10 | | | | | | | | | | | | | I Slope surfa | | |
| Feature No. 13NE-B/CR72 | | | | | | | | | | | | | | | | | | | | |
| S3-3270 | Install soil nail (113 nos.) | 20 | 0 | 02JAN10 | 26JAN10 | | | | | | | | | | | | | I Install soil n | | |
| S3-3280 | Pull out tests (3 nos.) | 8 | 0 | 26JAN10 | 04FEB10 | | | | | | | | | | | | | I Pull out tes | | |
| S3-3290 | 300mm u channel | 14 | 0 | 04FEB10 | 23FEB10 | | | | | | | | | | | | | I 300mm u c | | |
| S3-3300 | Slope surface protection | 20 | 0 | 23FEB10 | 18MAR10 | | | | | | | | | | | | | I Slope surfa | | |
| Feature No. 13NE-B/FR68 | | | | | | | | | | | | | | | | | | | | |
| S3-3310 | Remove existing rubble wall | 10 | 0 | 23FEB10 | 06MAR10 | | | | | | | | | | | | | Remove ex | | |

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| Start date | 28JUN04 |  Early bar |
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| Number/Version | Revision 15 |  Summary bar |
| Page number | 10A |  Summary point |
| Project name | R1549 |  Start milestone point |
| | |  Finish milestone point |
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Contract No. HY/2003/19
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| Date | Revision | Checked | Approved |
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| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|--------------------------------|--|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|------------------------|------|------|
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| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| S3-3320 | Recompact slope | 14 | 0 | 06MAR10 | 23MAR10 | | | | | | | | | | | | | I Recompac | | |
| S3-3330 | 300mm u channel at toe | 14 | 0 | 23MAR10 | 12APR10 | | | | | | | | | | | | | I 300mm u | | |
| Feature No. 13NE-B/C115 | | | | | | | | | | | | | | | | | | | | |
| S3-3340 | Install soil nail (136 nos.) | 20 | 0 | 02JAN09 | 24JAN09 | | | | | | | | | | | | | I Install soil nail (1 | | |
| S3-3350 | Pull out tests (5 nos.) | 8 | 0 | 29JAN09 | 06FEB09 | | | | | | | | | | | | | Pull out tests (5 r | | |
| S3-3360 | 300mm u channel at toe | 14 | 0 | 07FEB09 | 23FEB09 | | | | | | | | | | | | | I 300mm u chann | | |
| S3-3370 | Slope surface protection | 14 | 0 | 24FEB09 | 11MAR09 | | | | | | | | | | | | | I Slope surface pr | | |
| Feature No. 13NE-B/C116 | | | | | | | | | | | | | | | | | | | | |
| S3-3380 | Install soil nail (75 nos.) | 14 | 0 | 02APR09 | 22APR09 | | | | | | | | | | | | | I Install soil nail (| | |
| S3-3390 | Pull out tests (4 nos.) | 8 | 0 | 23APR09 | 04MAY09 | | | | | | | | | | | | | I Pull out tests (4 | | |
| S3-3400 | 300mm u channel at toe | 14 | 0 | 05MAY09 | 20MAY09 | | | | | | | | | | | | | I 300mm u chan | | |
| S3-3410 | Slope surface protection | 20 | 0 | 21MAY09 | 13JUN09 | | | | | | | | | | | | | I Slope surface p | | |
| Feature No. TCR/JF/F/22 | | | | | | | | | | | | | | | | | | | | |
| S3-3420 | Recompact slope | 20 | 0 | 21MAY09 | 13JUN09 | | | | | | | | | | | | | I Recompact slo | | |
| S3-3430 | 300mm stepped & u channel at crest & toe | 20 | 0 | 15JUN09 | 08JUL09 | | | | | | | | | | | | | I 300mm stepp | | |
| Feature No. 13NE-B/FR90 | | | | | | | | | | | | | | | | | | | | |
| S3-3440 | Recompact slope | 20 | 0 | 09JUL09 | 31JUL09 | | | | | | | | | | | | | I Recompact sl | | |
| S3-3450 | 300mm stepped & u channel at crest & toe | 20 | 0 | 01AUG09 | 24AUG09 | | | | | | | | | | | | | I 300mm stepp | | |
| Feature No. 13NE-B/C117 | | | | | | | | | | | | | | | | | | | | |
| S3-3460 | Install soil nail (33 nos.) | 10 | 0 | 25AUG09 | 04SEP09 | | | | | | | | | | | | | I Install soil na | | |
| S3-3470 | Pull out tests (2 nos.) | 8 | 0 | 05SEP09 | 14SEP09 | | | | | | | | | | | | | Pull out tests | | |
| S3-3480 | 300mm u channel | 14 | 0 | 15SEP09 | 30SEP09 | | | | | | | | | | | | | I 300mm u cha | | |
| S3-3490 | Slope surface protection | 20 | 0 | 02OCT09 | 24OCT09 | | | | | | | | | | | | | I Slope surfac | | |
| Feature No. 13NE-B/C244 | | | | | | | | | | | | | | | | | | | | |

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| Start date | 28JUN04 |  Early bar |
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| | |  Finish milestone point |
| c Primavera Systems, Inc. | | |

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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
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| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| S3-3500 | Install soil nail (89 nos.) | 17 | 0 | 02OCT09 | 21OCT09 | | | | | | | | | | | | | Install soil na | | |
| S3-3510 | Pull out tests (3 nos.) | 8 | 0 | 22OCT09 | 31OCT09 | | | | | | | | | | | | | Pull out tests | | |
| S3-3520 | 300mm stepped & u channel at crest | 20 | 0 | 02NOV09 | 24NOV09 | | | | | | | | | | | | | 300mm step | | |
| S3-3530 | Slope surface protection | 20 | 0 | 25NOV09 | 17DEC09 | | | | | | | | | | | | | Slope surfac | | |
| Feature No. 13NE-B/FR85 | | | | | | | | | | | | | | | | | | | | |
| S3-3540 | Remove existing concrete wall | 7 | 0 | 25NOV09 | 02DEC09 | | | | | | | | | | | | | Remove exis | | |
| S3-3550 | Recompact slope | 20 | 0 | 03DEC09 | 28DEC09 | | | | | | | | | | | | | Recompact | | |
| S3-3560 | 300mm stepped & u channel at toe | 20 | 0 | 29DEC09 | 21JAN10 | | | | | | | | | | | | | 300mm ste | | |
| Feature No. 13 NE-B/C114 | | | | | | | | | | | | | | | | | | | | |
| S3-3570 | Install soil nail (136 nos.) | 20 | 0 | 22JAN10 | 13FEB10 | | | | | | | | | | | | | Install soil r | | |
| S3-3580 | Pull out tests (4 nos.) | 8 | 0 | 17FEB10 | 25FEB10 | | | | | | | | | | | | | Pull out tes | | |
| S3-3590 | Slope surface protection | 20 | 0 | 26FEB10 | 20MAR10 | | | | | | | | | | | | | Slope surfa | | |
| Feature No. 13NE-B/C113 | | | | | | | | | | | | | | | | | | | | |
| S3-3600 | Install soil nail (29 nos.) | 11 | 0 | 26FEB10 | 10MAR10 | | | | | | | | | | | | | Install soil | | |
| S3-3610 | Pull out tests (2 nos.) | 8 | 0 | 11MAR10 | 19MAR10 | | | | | | | | | | | | | Pull out tes | | |
| S3-3620 | Reconstruct 300mm u channel | 14 | 0 | 20MAR10 | 08APR10 | | | | | | | | | | | | | Reconstru | | |
| S3-3630 | Slope surface protection | 20 | 0 | 09APR10 | 03MAY10 | | | | | | | | | | | | | Slope sur | | |
| Feature No. TCR/UF/C/27 | | | | | | | | | | | | | | | | | | | | |
| S3-3640 | Install soil nail (55 nos.) | 12 | 0 | 09APR10 | 22APR10 | | | | | | | | | | | | | Install soil | | |
| S3-3650 | Pull out tests (2 nos.) | 8 | 0 | 23APR10 | 03MAY10 | | | | | | | | | | | | | Pull out te | | |
| S3-3660 | Slope surface protection | 20 | 0 | 04MAY10 | 27MAY10 | | | | | | | | | | | | | Slope sur | | |
| Feature No. 13NE-B/C243 | | | | | | | | | | | | | | | | | | | | |
| S3-3670 | Install soil nail (16 nos.) | 10 | 0 | 24FEB09 | 06MAR09 | | | | | | | | | | | | | Install soil nail (1 | | |

| | | | |
|----------------|-------------|---|------------------------|
| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 12A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |

**Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08**

| | | | |
|---------|-----------|---------|----------|
| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
| | | | |
| | | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 | |
|--|--|----------|--------|-------------|--------------|------------------|----|----|----|-----|----|----|----|-----|----|----|----|------|------|--|----|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | | 27 |
| S3-3680 | Pull out test (1 nos.) | 8 | 0 | 07MAR09 | 16MAR09 | | | | | | | | | | | | | | | ▮ Pull out test (1 nos.) | |
| S3-3690 | 300mm u channel at toe | 14 | 0 | 17MAR09 | 01APR09 | | | | | | | | | | | | | | | ▮ 300mm u channel | |
| S3-3700 | Slope surface protection | 20 | 0 | 02APR09 | 29APR09 | | | | | | | | | | | | | | | ▮ Slope surface protection | |
| Utilities | | | | | | | | | | | | | | | | | | | | | |
| S3-3800 | Utilities installation | 540 | 0 | 22JAN10 | 31JUL11 | | | | | | | | | | | | | | | ▮ Utilities installation | |
| Section 3A | | | | | | | | | | | | | | | | | | | | | |
| Landscaping | | | | | | | | | | | | | | | | | | | | | |
| S3-3805 | Landscape softworks | 124 | 0 | 01APR10 * | 31AUG10 | | | | | | | | | | | | | | | ▮ Landscaping | |
| Establishment works | | | | | | | | | | | | | | | | | | | | | |
| S3-3810 | Establishment Works for Section 3A(claim no.084) | 719 | 0 | 01SEP10 * | 30AUG12 | | | | | | | | | | | | | | | ▮ Establishment Works for Section 3A(claim no.084) | |
| Undefined Section of Works | | | | | | | | | | | | | | | | | | | | | |
| Zone B (CH. 1565 - 2130) | | | | | | | | | | | | | | | | | | | | | |
| Straining & Deflection Structure SD 2-5 | | | | | | | | | | | | | | | | | | | | | |
| S1-2402 | Claim 91 | 183 | 0 | 01APR08 A | 30SEP08 | ▬ Claim 91 | | | | | | | | | | | | | | | |
| S1-2420 | Superstructure | 75 | 0 | 02OCT08 | 31DEC08 | ▬ Superstructure | | | | | | | | | | | | | | | |
| Straining & Deflection Structure SD 3-6 | | | | | | | | | | | | | | | | | | | | | |
| S1-2450 | Claim 91 | 183 | 0 | 01APR08 A | 30SEP08 | ▬ Claim 91 | | | | | | | | | | | | | | | |
| S1-2460 | Superstructure | 25 | 0 | 02OCT08 | 31OCT08 | ▬ Superstructure | | | | | | | | | | | | | | | |
| Straining & Deflection Structure SD 4-7 | | | | | | | | | | | | | | | | | | | | | |
| S1-2492 | Claim 91 | 183 | 0 | 01APR08 A | 30SEP08 | ▬ Claim 91 | | | | | | | | | | | | | | | |
| S1-2500 | Superstructure | 75 | 0 | 02OCT08 | 31DEC08 | ▬ Superstructure | | | | | | | | | | | | | | | |
| Flexible Debris Barrier at CH. 1700 (OFB1) | | | | | | | | | | | | | | | | | | | | | |
| S1-2580 | Boulder mitigation stream 5-6 | 25 | 0 | 02FEB09 * | 02MAR09 | | | | | | | | | | | | | | | ▮ Boulder mitigation stream 5-6 | |

| | | | |
|---------------------------|-------------|---|------------------------|
| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 13A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |
| © Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

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|---------|-----------|---------|----------|
| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|---|---|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|---|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| Flexible Debris Barrier at CH. 1800 (OFB2) | | | | | | | | | | | | | | | | | | | | |
| S1-2631 | Remaining Post (affected by SD4-7) | 8 | 0 | 02JAN09 | 10JAN09 | | | | | | | | | | | | | Remaining Post (| | |
| S1-2641 | Remaining Barrier | 8 | 0 | 12JAN09 | 20JAN09 | | | | | | | | | | | | | Remaining Barrie | | |
| S1-2651 | Maintenance Stairway (Remaining) | 10 | 0 | 21JAN09 | 04FEB09 | | | | | | | | | | | | | Maintenance Sta | | |
| Zone C (CH. 2130 - 2725) | | | | | | | | | | | | | | | | | | | | |
| Permanent Soil Nails | | | | | | | | | | | | | | | | | | | | |
| S1-3785 | Remaining Soil nails at RW006 | 60 | 0 | 01SEP08 | 12NOV08 | | | | | | | | | | | | | Remaining Soil na | | |
| Straining & Deflection Structure SD 5-11 | | | | | | | | | | | | | | | | | | | | |
| S1-3708 | Claim 91 | 183 | 0 | 01APR08 A | 30SEP08 | | | | | | | | | | | | | Claim 91 | | |
| S1-3710 | Superstructure | 50 | 0 | 02OCT08 | 29NOV08 | | | | | | | | | | | | | Superstructure | | |
| Flexible Debris Barrier at CH. 2700 (OFB3) | | | | | | | | | | | | | | | | | | | | |
| S1-3770 | Barrier Installation | 51 | 0 | 02JUN08 A | 31JUL08 | | | | | | | | | | | | | Barrier Installation | | |
| S1-3780 | Maintenance Stairway (Remedial Work) | 25 | 0 | 01AUG08 | 30AUG08 | | | | | | | | | | | | | Maintenance Stairway (Remedial Work) | | |
| Zone D (CH. 2725 - 3100) | | | | | | | | | | | | | | | | | | | | |
| Straining & Deflection Structure SD 6-12 | | | | | | | | | | | | | | | | | | | | |
| S1-4462 | Claim 91 | 183 | 0 | 01APR08 A | 30SEP08 | | | | | | | | | | | | | Claim 91 | | |
| S1-4470 | Superstructure | 50 | 0 | 02OCT08 | 29NOV08 | | | | | | | | | | | | | Superstructure | | |
| Straining & Deflection Structure SD 7-13 | | | | | | | | | | | | | | | | | | | | |
| S1-4502 | Claim 91 | 183 | 0 | 01APR08 A | 30SEP08 | | | | | | | | | | | | | Claim 91 | | |
| S1-4510 | Superstructure (Outstanding Works) | 50 | 0 | 02OCT08 | 29NOV08 | | | | | | | | | | | | | Superstructure (O | | |
| S1-4520 | Boulder mitigation | 96 | 0 | 01DEC08 | 28MAR09 | | | | | | | | | | | | | Boulder mitigati | | |
| Flexible Debris Barrier at CH. 2800 (OFB4) | | | | | | | | | | | | | | | | | | | | |
| S1-4560 | Delivery of material (lost during heavy rain) | 101 | 0 | 01JUL08 A | 31JUL08 | | | | | | | | | | | | | Delivery of material (lost during heavy rain) | | |

| | | | |
|---------------------------|-------------|---|------------------------|
| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 14A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |
| © Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

| Date | Revision | Checked | Approved |
|---------|-----------|---------|----------|
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | 2009 | 2010 | 2011 |
|---|--|----------|--------|-------------|--------------|--|----|----|----|-----|----|----|----|-----|----|----|----|------|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | | | |
| S1-4580 | Barrier Installation (outstanding part) | 25 | 0 | 01AUG08 | 30AUG08 | Barrier Installation (outstanding part) | | | | | | | | | | | | | | |
| S1-4590 | Maintenance Stairway (Remedial Works) | 25 | 0 | 01SEP08 | 30SEP08 | Maintenance Stairway (Remedial Works) | | | | | | | | | | | | | | |
| Zone E (CH. 3100 - 4010) | | | | | | | | | | | | | | | | | | | | |
| Straining & Deflection Structure SD 10-19 | | | | | | | | | | | | | | | | | | | | |
| S1-5902 | Claim 91 | 183 | 0 | 01APR08 A | 30SEP08 | Claim 91 | | | | | | | | | | | | | | |
| S1-5905 | Superstructure | 50 | 0 | 02OCT08 | 29NOV08 | Superstructure | | | | | | | | | | | | | | |
| Zone F (CH. 4010 - 4686) | | | | | | | | | | | | | | | | | | | | |
| Permanent Soil Nails | | | | | | | | | | | | | | | | | | | | |
| S1-6625 | Soil Nail at RW038 | 93 | 0 | 04MAY09 | 21AUG09 | Soil Nail at RW038 | | | | | | | | | | | | | | |
| Flexible Debris Barrier at CH. 4600 (OFB5) | | | | | | | | | | | | | | | | | | | | |
| S1-6870 | Erect fence (outstanding part) | 51 | 0 | 02JUL08 A | 01SEP08 | Erect fence (outstanding part) | | | | | | | | | | | | | | |
| S1-6880 | Maintenance access path (Remedial Works) | 23 | 0 | 02SEP08 | 30SEP08 | Maintenance access path (Remedial Works) | | | | | | | | | | | | | | |
| Rockfall Protection System at CH. 4400 (RPS2) | | | | | | | | | | | | | | | | | | | | |
| S1-6886 | Erect Fence | 24 | 0 | 01SEP08 | 30SEP08 | Erect Fence | | | | | | | | | | | | | | |
| S1-6887 | Maintenance Stairway (Remedial Works) | 24 | 0 | 02OCT08 | 31OCT08 | Maintenance Stairway (Remedial Works) | | | | | | | | | | | | | | |
| Zone 5 (CH. 4922 - 5625) | | | | | | | | | | | | | | | | | | | | |
| Straining & Deflection Structure SD 12-30 | | | | | | | | | | | | | | | | | | | | |
| S2-5870 | Claim 91 | 151 | 0 | 01APR08 A | 30SEP08 | Claim 91 | | | | | | | | | | | | | | |
| S2-5875 | Soil Nail | 25 | 0 | 02OCT08 | 31OCT08 | Soil Nail | | | | | | | | | | | | | | |
| S2-5880 | Superstructure | 50 | 0 | 01NOV08 | 31DEC08 | Superstructure | | | | | | | | | | | | | | |
| Rockfall Protection System at CH. 5320 (RPS3) | | | | | | | | | | | | | | | | | | | | |
| S2-5900 | Delivery of material (lost after heavy rain) | 183 | 0 | 16JUL08 A | 30SEP08 | Delivery of material (lost after heavy rain) | | | | | | | | | | | | | | |
| S2-5910 | Erect fence | 50 | 0 | 02OCT08 | 29NOV08 | Erect fence | | | | | | | | | | | | | | |
| S2-5915 | Maintenance stairway (Remedial Works) | 25 | 0 | 01DEC08 | 31DEC08 | Maintenance stairway (Remedial Works) | | | | | | | | | | | | | | |








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|---------------------------|-------------|---|------------------------|
| Start date | 28JUN04 |  | Early bar |
| Finish date | 30AUG12 |  | Progress bar |
| Data date | 01APR08 |  | Critical bar |
| Number/Version | Revision 15 |  | Summary bar |
| Page number | 15A |  | Summary point |
| Project name | R1549 |  | Start milestone point |
| | |  | Finish milestone point |
| c Primavera Systems, Inc. | | | |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

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|---------|-----------|---------|----------|
| Date | Revision | Checked | Approved |
| 01AUG08 | 3M update | | |
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| Act ID | Description | Orig Dur | % Comp | Early Start | Early Finish | 2008 | | | | | | | | | | | | | | |
|--------------------------------------|---|----------|--------|-------------|--------------|------|----|----|----|-----|----|----|----|-----|----|----|----|----|------|------|
| | | | | | | AUG | | | | SEP | | | | OCT | | | | | | |
| | | | | | | 04 | 11 | 18 | 25 | 01 | 08 | 15 | 22 | 29 | 06 | 13 | 20 | 27 | 2009 | 2010 |
| Landscape Works in Undefined Section | | | | | | | | | | | | | | | | | | | | |
| S2-8000 | Landscape Softworks in Undefined Section | 145 | 0 | 01APR09 * | 31AUG09 | | | | | | | | | | | | | | | |
| S2-8010 | Establishment Works for Undefined Section | 710 | 0 | 01SEP09 * | 31AUG11 | | | | | | | | | | | | | | | |

○ Landscape S
 Es

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|----------------|-------------|--|
| Start date | 28JUN04 |  Early bar |
| Finish date | 30AUG12 |  Progress bar |
| Data date | 01APR08 |  Critical bar |
| Number/Version | Revision 15 |  Summary bar |
| Page number | 16A |  Summary point |
| Project name | R1549 |  Start milestone point |
| | |  Finish milestone point |

Contract No. HY/2003/19
Improvement to Tung Chung Road
3M Rolling Programme 01.09.08 to 30.11.08

| Date | Revision | Checked | Approved |
|---------|-----------|---------|----------|
| 01AUG08 | 3M update | | |
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APPENDIX O
WASTE GENERATED QUANTITY

Contract No. HY/2003/19 – Improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha

Name of Department: Highways Department
Project Commencement Date: June 2004
Construction Completion Date: December 2009
Approved Project Cost: \$688.5 Million

Monthly Summary Waste Flow Table for Year 2008

| Year | Actual Quantities of inert C&D Materials (in 10 ³ m ³) | | | | | Actual Quantities of C&D Wastes (in 10 ³ Kg) | | | | | | | | | |
|------------------|---|--------------------------------|------------------------|--------------------------|-------------------------|---|-------------|---------------------------|-------------|------------------------|-------------|----------------|-------------------------------------|--|--------------|
| | Total Quantity Generated | Broken Concrete ⁽¹⁾ | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Metals | | Paper/cardboard packaging | | Plastic ⁽²⁾ | | Chemical Waste | Site clearance waste ⁽³⁾ | Others, e.g. general refuse (in 10 ³ m ³) | |
| | | | | | | Disposal | Recycle | Disposal | Recycle | Disposal | Recycle | Disposal | Disposal | Disposal | Timber Waste |
| (a) | (b) | (c) | (d) | (e) | | | | | | | | | | | |
| Jan | 1.230 | 0 | 1.128 | 0 | 0.102 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 73.61 | 1.235 | 0.065 |
| Feb | 1.875 | 0 | 0.762 | 0 | 1.113 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 34.21 | 1.425 | 0.075 |
| Mar | 1.064 | 0 | 0.858 | 0 | 0.206 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 56.82 | 1.520 | 0.080 |
| Apr | 0.994 | 0 | 0.765 | 0 | 0.229 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 84.54 | 1.900 | 0.100 |
| May | 1.335 | 0 | 1.020 | 0 | 0.315 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 78.21 | 1.752 | 0.095 |
| Jun | 0.755 | 0 | 0.467 | 0 | 0.288 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 86.76 | 1.895 | 0.124 |
| Sub-Total | 7.253 | 0 | 4.997 | 0 | 2.253 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 414.15 | 9.727 | 0.539 |
| July | 0.953 | 0 | 0.685 | 0 | 0.268 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 96.88 | 2.036 | 0.098 |
| Aug | 2.875 | 0 | 5.978 | 0 | 0.758 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 89.33 | 2.189 | 0.127 |
| Sept | | | | | | | | | | | | | | | |
| Oct | | | | | | | | | | | | | | | |
| Nov | | | | | | | | | | | | | | | |
| Dec | | | | | | | | | | | | | | | |
| Total | 11.08 | 0 | 11.66 | 0 | 3.27 | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 0 | 600.36 | 13.95 | 0.76 |

Note: * Very small quantity of aluminum can, cardboard package and plastic bottle generated from site office were collected by the local resident.

(1) Broken concrete for recycling into aggregates

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from package material.

(3) Site clearance waste refers to vegetation and construction debris.

(4) Please note that the total quality generated is not equivalent to the summation of the items in column (b) to (e) as part of the quality of the reused material (column c) had been counted already.