

東業德勤測試顧問有限公司

ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong

Tel : 2695 8318

E-mail : etl@ets-testconsult.com

Fax : 2695 3944

Web site : www.ets-testconsult.com

TEST REPORT

China Harbour – China State Joint Venture

**CONTRACT NO. CV/2009/02
HANDLING OF SURPLUS PUBLIC FILL**

TUEN MUN 38 FILL BANK

**QUARTERLY EM&A SUMMARY REPORT
NO.8**

(SEPTEMBER TO NOVEMBER 2011)

Prepared by:

LAW, Sau Yee

Senior Environmental Officer

Checked by:

LAU, Chi Leung

Environmental Team Leader

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9 January 2012

ETS-Testconsult Limited
8/F, Block B
Veristrong Industrial Centre
34-36 Au Pui Wan Street
Fo Tan, Hong Kong

By E-mail and Fax No.: 2695 3944

Attention: Mr. C. L. Lau

Dear Mr. Lau,

**Re: Contract No. CV/2009/02
Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank
Quarterly EM&A Summary Report No. 8 (September to November 2011)**

Reference is made to your submission of the draft Quarterly EM&A Summary Report for September to November 2011 for the captioned by E-mail on 6 January 2012.

We are pleased to inform you that we have no comment on the quarterly report.

Thank you very much for your attention and please do not hesitate to contact our Simon Lam or the undersigned should you have any queries.

Yours faithfully,



Tony Cheng
Independent Environmental Checker

c.c. CEDD
CHCSJV

Attn: Mr. Thomas Wong
Attn: Mr. Dennis Tang

Fax No.: 2714 0113
Fax No.: 2247 4108

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EXECUTIVE SUMMARY

This is the eighth Quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by ETS-Testconsult Ltd (ET) for the "Contract No. CV/2009/02 Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank" (The Project).

This report documents the findings of EM&A Works conducted during the operation phase of Fill Bank at Tuen Mun Area 38 from September to November 2011.

Site Activities

As informed by the Contractor, the site activities in this reporting quarter were as below:

- Removal & delivery of public fill stockpiled material to Mainland
- Operation of the road water lorries and the road sweeper
- Maintenance of haul road within fill bank area
- Operation of the Tipping Halls (B1, B2 & B3)

Environmental Monitoring Works

Air Monitoring

No exceedances of Action and Limit levels were recorded for 1-hr and 24-hr TSP monitoring in this quarter.

Marine Water Quality Monitoring

According to the summary of marine water monitoring results, no exceedances of Action and Limit Level were recorded in this quarter.

Noise Monitoring

No exceedances of Action and Limit levels for noise monitoring were recorded in this quarter.

Environmental Complaints, Notification of summons and successful prosecutions

No complaint, no notification of summons and prosecutions with respect to environmental issues were received in this quarter.

1.0 INTRODUCTION

China Harbour – China State Joint Venture (CHCSJV) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the “Contract No: CV/2009/02 –Handling of Surplus Public Fill – Tuen Mun Area 38 Fill Bank” (The Project).

In accordance with the Condition 5 of Part C of Environmental Permit (No.: EP-210/2005/A) (the EP), an EM&A programme as set out in the Project Profile should be implemented. The EM&A programme requires environmental monitoring for air quality, water quality and environmental site inspections for air quality, water quality, landscape and visual, and waste management.

Baseline monitoring was completed in May 2003 by Stanger Asia Ltd. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This quarterly report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tuen Mun Area 38 from September to November 2011.

2.0 PROJECT INFORMATION

2.1 Project Activities in this Reporting Quarter

Details of project activities are shown in Appendix G.

2.2 Project Organization and Management Structure

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

2.3 Contact Details of Key Personnel

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

Table 2.1 Contact Details of Key Personnel

| Organization | Name of Key Staff | Project Role | Tel. No. | Fax No. |
|---------------------|---|---------------------------|-----------|-----------|
| CEDD | Mr. Lawrence NG Mr. CHU Tun Hon Mr. Wong Wa Kei Mr. LIU Chi Yuen | Engineer's Representative | 2760 5835 | 2714 0113 |
| IEC (Materialab) * | Mr Joseph POON | IEC | 2450 8238 | 2450 6138 |
| IEC (Environ) * | Mr Tony Cheng | IEC | 3743 0722 | 3548 6988 |
| Contractor (CHCSJV) | Mr. Wah Fung Lok | Contractor's Agent | 9772 7055 | 2243 4089 |
| ET (ETL) | Mr C. L. Lau | ET Leader | 2946 7791 | 2695 3944 |

Remark (*): Materialab was being as IEC of this Project until 31 January 2010 and was replaced by Environ from 01 February 2010.

3.0 SUMMARY OF EM&A REQUIREMENTS

3.1 EM&A Programme

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

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

The advice on implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 5 of the Report.

3.2 Monitoring Stations and Parameters

The EM&A Manual designates several locations to monitor environmental impacts in terms of air quality, noise and water quality due to the Project. The description and detailed locations of monitoring stations for air quality, noise and marine water quality are shown in Figures 1, 2 and 3 and relevant sections of this Report.

3.3 Monitoring Methodology and Calibration Details

All monitoring works were conducted and monitoring equipment was calibrated in according with the EM&A Manual.

3.4 Environmental Quality Performance Limits (Action/Limit Levels)

The environmental quality performance limits, i.e. Action/Limit Levels (AL Levels) were derived from the baseline monitoring results. If the measured environmental quality parameters exceed the AL Levels, the respective action plan will be implemented. The AL Levels for each monitoring parameter are given in Appendix E. The event action plan is given in Appendix F.

3.5 Environmental Mitigation Measures

Relevant mitigation measures were recommended in the EM&A Manual for the Contractor to implement. A list of mitigation measures is given in Appendix H.

4.0 MONITORING RESULTS

4.1 Air Quality

In accordance with the EM&A Manual, 1-hr and 24-hr TSP air quality monitoring are to be conducted three times and one time per six days correspondingly. In the reporting quarter, no exceedances of Action and Limit levels were recorded for 1-hr and 24-hr TSP monitoring. The monitoring trend of air quality during the reporting quarter are given in Appendix B.

Major dust sources in the Fill Bank were dump truck traffic and hauling activities.

Table 4.1 presents the number of exceedances recorded in each month of the reporting quarter. The number of monitoring event included regular monitoring events and additional ones.

Table 4.1 Summary of Number of Exceedances for 1-hr and 24-hr TSP Monitoring

| Monitoring Parameter | Level of Exceedance | September 2011 | October 2011 | November 2011 |
|----------------------|-------------------------|----------------|--------------|---------------|
| 24-hr TSP | No of monitoring events | 5 | 5 | 5 |
| | Action Level | 0 | 0 | 0 |
| | Limit Level | 0 | 0 | 0 |
| 1-hr TSP | No of monitoring events | 16 | 14 | 15 |
| | Action Level | 0 | 0 | 0 |
| | Limit Level | 0 | 0 | 0 |

4.2 Noise

Since Lands Dept did not approve to carry out noise monitoring at their own area where the noise monitoring stations TM-N1 and TM-N2 located due to the security, noise monitoring carried out at two noise monitoring stations TM-RN1 and TM-RN2 (refer to the figure attached) temporarily from 18 December 2007 and before Lands Department's approval.

No exceedances were recorded in this reporting quarter.

4.3 Marine Water Quality

In accordance with the Project Profile, impact marine water quality monitoring was conducted at two control monitoring stations (TM-FC1 and TM-FC2) and two impact monitoring stations (TM-FM1 and TM-FM2) in this quarter.

Impact marine water quality monitoring was conducted three days per week. Measurements were taken at both mid-ebb and mid-flood tides at three depths (i.e. 1m below surface, mid depth and 1m above seabed). The AL Levels are included in Appendix E.

Marine water quality monitoring scheduled on 29 September 2011 was cancelled due to Typhoon No.8.

No exceedances of all marine water quality monitoring parameters were recorded in this quarter.

Table 4.2 presents the total number of marine water quality exceedances in the reporting quarter. The trend of marine water quality in the past three months is depicted in Appendix D.

Table 4.2 Total Number of Marine Water Quality Exceedances in this quarter

| Parameter | Exceedance Level | September 2011 | October 2011 | November 2011 |
|----------------------------|------------------|----------------|--------------|---------------|
| Number of monitoring days | | 11 | 12 | 13 |
| Dissolved Oxygen, DO (S&M) | Action | 0 | 0 | 0 |
| | Limit | 0 | 0 | 0 |
| Dissolved Oxygen, DO (B) | Action | 0 | 0 | 0 |
| | Limit | 0 | 0 | 0 |
| Turbidity | Action | 0 | 0 | 0 |
| | Limit | 0 | 0 | 0 |
| Suspended Solids, SS | Action | 0 | 0 | 0 |
| | Limit | 0 | 0 | 0 |

A comparison between the quarterly mean/median of SS and the 1.3 times of the baseline mean was made for each tide at each station. The statistical analysis results are given in Appendix I. Monitoring stations with significant difference ($p < 0.05$) is summarized in Table 4.3.

Table 4.3 Summary of Statistically Significant Results of SS

| Monitoring Station | | Significant difference? | |
|-------------------------------|-----|-------------------------|---------|
| | | Mid-flood | Mid-ebb |
| Designated Control Station | FC1 | X | X |
| | FC2 | X | X |
| Designated Monitoring Station | FM1 | X | X |
| | FM2 | X | X |

5.0 INSPECTION RESULTS

5.1 Implementation Status of Environmental Mitigation Measures

ET conducted weekly site inspections to monitor the Contractor's implementation of environmental mitigation measures.

Air quality was the major environmental issue in the reporting quarter. The Contractor generally implemented most of the environmental mitigation measures in the reporting quarter. Dump truck traffic was the major dust source in the Fill Bank. Generally, the Contractor implemented adequate dust mitigation measures in the reporting quarter including dampening of haul roads, water spraying on the truckloads, during loading and unloading of material and for crushing plant, operation of automatic wheel washing facilities, dampening of fill material prior to handling or stockpiling, etc.

The major noise source was dump truck traffic in the Fill Bank. All site equipment and machinery were well maintained and no noise nuisance was observed during operating.

Drainage channels and wastewater treatment facilities were found maintained in good condition for merit function. The Contractor arranged site workers to clean up the silt and mud regularly.

Although there were a few observations regarding improper handling of oil drums and chemical containers, such as lack of drip tray and accumulated of stagnant water in the drip tray, the Contractor rectified most of these problems. Besides, the Contractor should provide tarpaulin sheets before repairing and maintenance works and also carry out proper cleaning activities immediately after such works.

Overall site area was found tidy and clean. The Contractor was reminded to collect and dispose of the general refuse and other C&D waste in a timely manner.

5.2 Status of Environmental Licensing and Permitting

The status of licences and permits is summarized in Table 5.1.

Table 5.1 Summary of environmental licensing and permit status

| Description | Permit No. | Valid Period | | Section |
|------------------------------|-------------------|--------------|----------|---|
| | | From | To | |
| Amended Environmental Permit | EP-210/2005/A | 15/12/08 | --- | (Valid) |
| Chemical Waste Producer | 5296-421-C3577-03 | 18/12/09 | --- | Spent Lubricating Oil, Spent Flammable Liquid, Spent Battery and Surplus Paint |
| Effluent Discharge License | WT00005978-2010 | 10/05/10 | 31/05/15 | Discharge of Industrial Trade Effluent arising from public fill reception facilities, screen and sedimentation tank |
| Marine Dumping Permit | EP/MD/12-034 | 08/07/11 | 30/09/11 | Approval for dumping 3,000,000 tons (approximately equal to 1,666,667 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank, Tuen Mun Area 38 Fill Bank, Barging Point at Former Kai Tak Airport and MTR XRL Contracts 803A to D to designated dumping area at Guanghaiwan of Taishan |
| Marine Dumping Permit | EP/MD/12-064 | 01/10/11 | 31/12/11 | Approval for dumping 3,000,000 tons (approximately equal to 1,666,666 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank, Tuen Mun Area 38 Fill Bank, Barging Point at Former Kai Tak Airport and MTR XRL Contracts 803A to D to designated dumping area at Guanghaiwan of Taishan |

5.3 Advice on Solids and Liquid Waste Management Status

Table 5.2 summarizes data on offsite waste disposal in the quarter.

Table 5.2 Estimated Offsite Waste Disposal in the Reporting Quarter

| Waste Type | Examples | September 2011 | October 2011 | November 2011 |
|----------------|--|----------------|--------------|---------------|
| C&D Waste | Domestic waste (site) collected in garbage bins and general refuse (m ³) | 0 | 0 | 0 |
| Chemical Waste | Waste oil (L) / Chemical Waste (kg) | 0 | 0 | 0 |

6.0 NON-COMPLIANCE OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

6.1 Summary of Non-compliance

In this reporting quarter, no exceedances of Action and Limit Level of marine water quality, noise, 1-hr and 24-hr TSP monitoring results were recorded.

6.2 Review of the Reasons for and the Implications of Non-compliance

Since there were no exceedances recorded in this monitoring quarter, the review of the reasons for the non-compliance was not required.

6.3 Summary of Actions Taken

Since there were no exceedances recorded in this monitoring quarter, no further actions were required.

6.4 Summary of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

No complaints, notifications of summons and successful prosecutions were received in this quarter.

A summary of environmental complaints and prosecutions was given in Table 6.1.

Table 6.1 Summary of Environmental Complaints and Prosecutions

| Period | Complaints logged | Summon served | Successful Prosecution |
|----------------|-------------------|---------------|------------------------|
| September 2011 | 0 | 0 | 0 |
| October 2011 | 0 | 0 | 0 |
| November 2011 | 0 | 0 | 0 |
| Cumulative | 0 | 0 | 0 |

7.0 COMMENTS, CONCLUSIONS AND RECOMMENDATION

Major activity in the Fill Bank was the import and dumping of fill materials in this quarter. Air quality was the major environmental issue in the Fill Bank. Generally, the Contractor implemented most of the mitigation measures to minimize the dust impact.

No exceedances of Action and Limit Level of 1-hr and 24-hr TSP, noise and marine water quality monitoring were recorded in this reporting quarter.

The noise level measured at the monitoring station complied with the Limit Level. No complaint was received regarding noise issue in this quarter.

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

According to the ET weekly site inspection and IEC site audits carried out in this quarter, it was indicated that site practices of the Contractor were generally undertaken in an environmentally acceptable manner and the overall site environmental performance was up to standard.

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

Air Quality

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

Noise

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

Water Quality

- Maintain the drainage system regularly;
- Operate the cleaning vessel regularly; and
- Remove the stagnant water or provide pesticide for the stagnant water in the permanent desilting chambers, if any.

Chemical and Waste Management

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

Landscape and Visual

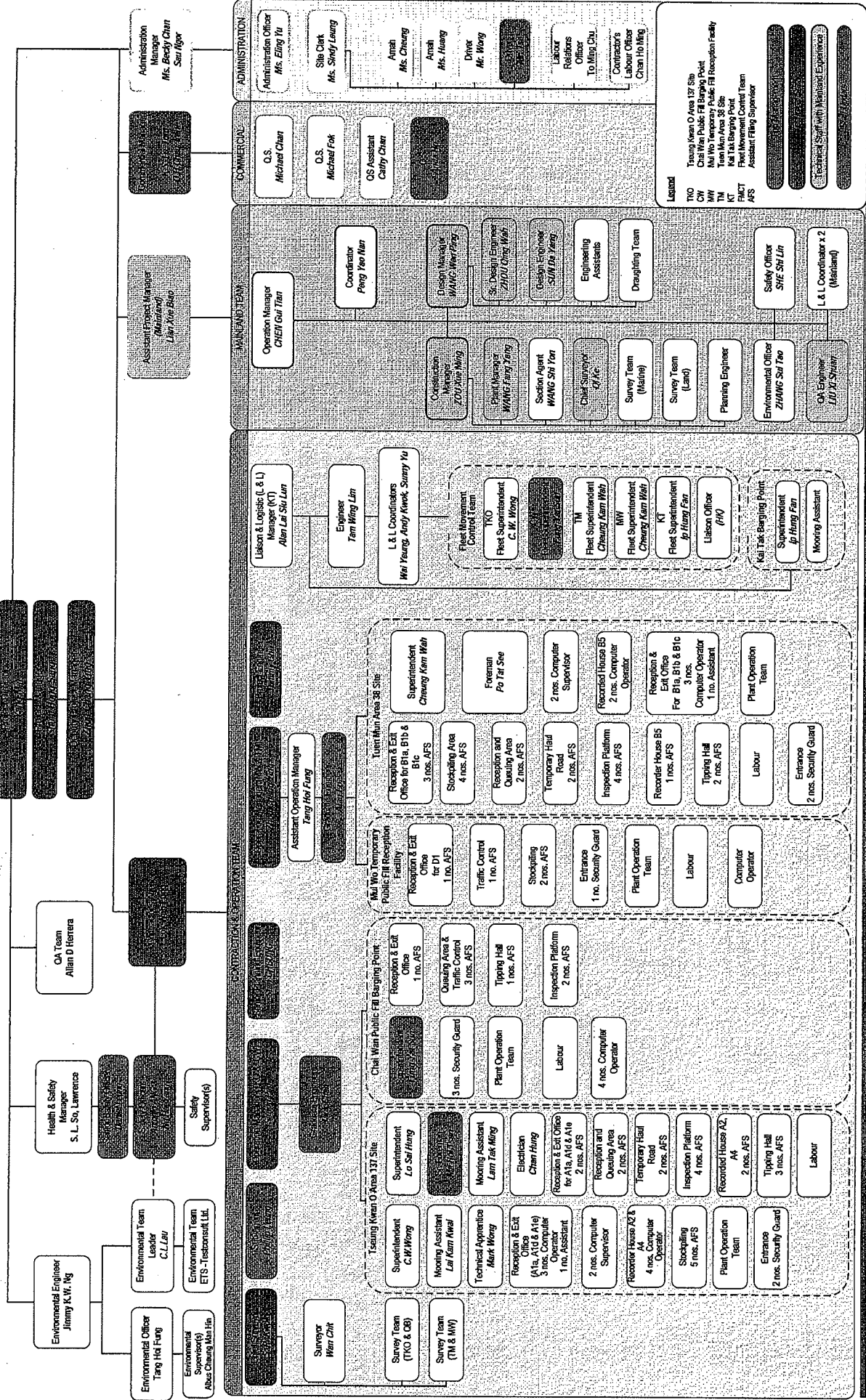
- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location; and
- Maintain the hydroseeding slopes in accordance with the Landscape Plan.

- END OF REPORT -

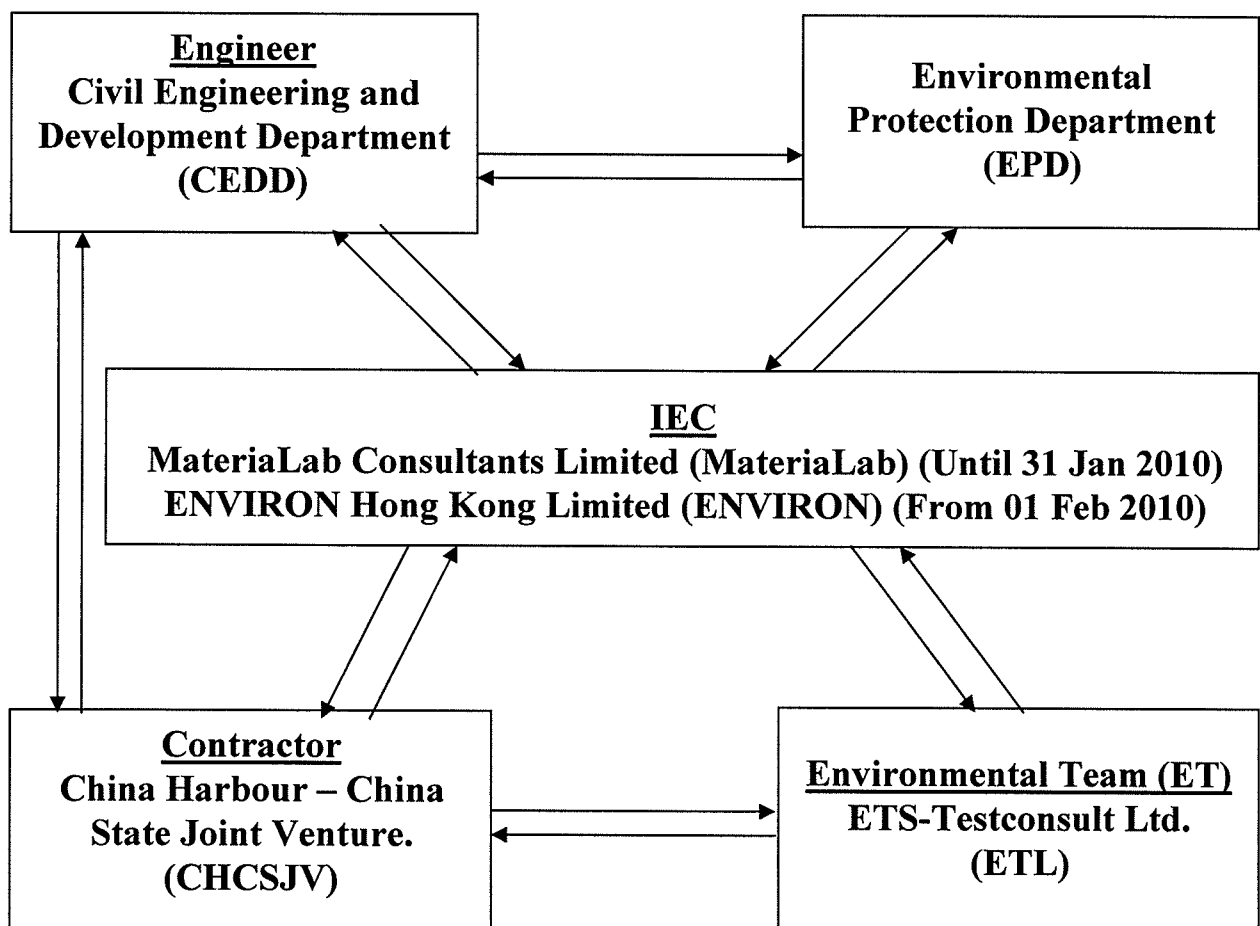
Appendix A

Organization Chart and Lines of Communication

CHINA STATE JOINT VENTURE CHINA STATE JOINT VENTURE



Lines of Communication

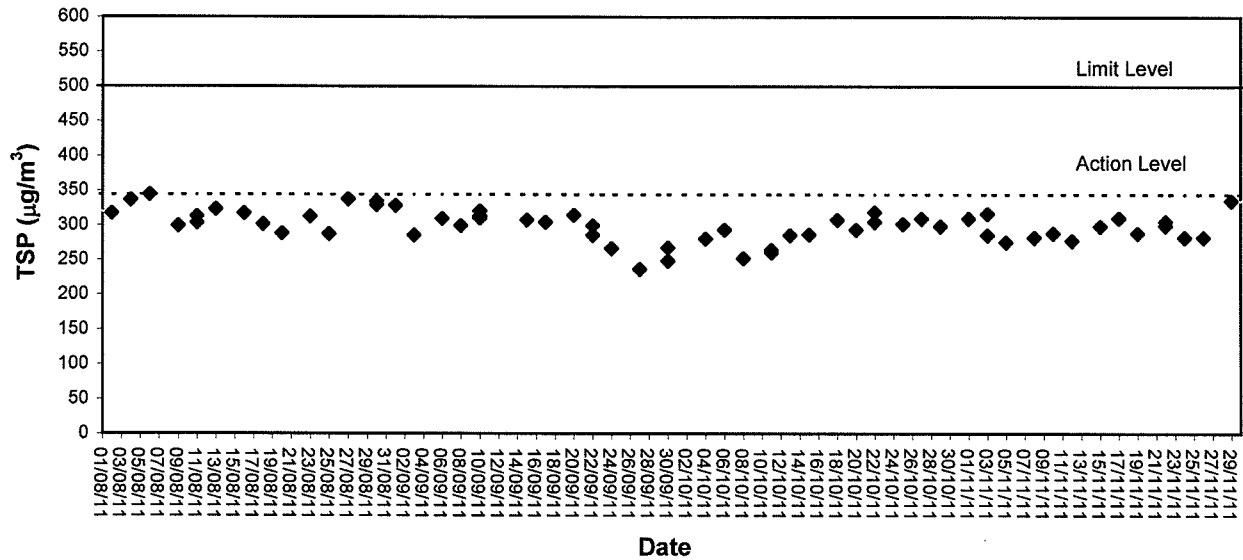


Appendix B

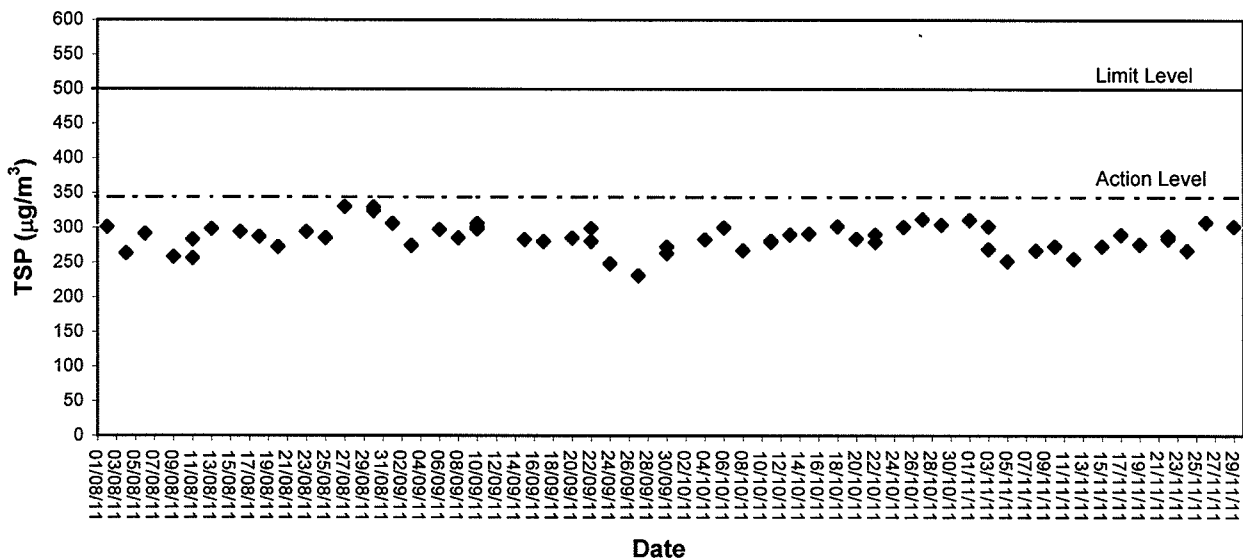
Graphical Plots of Air Quality Monitoring Data



1-hour TSP level at TM-A1

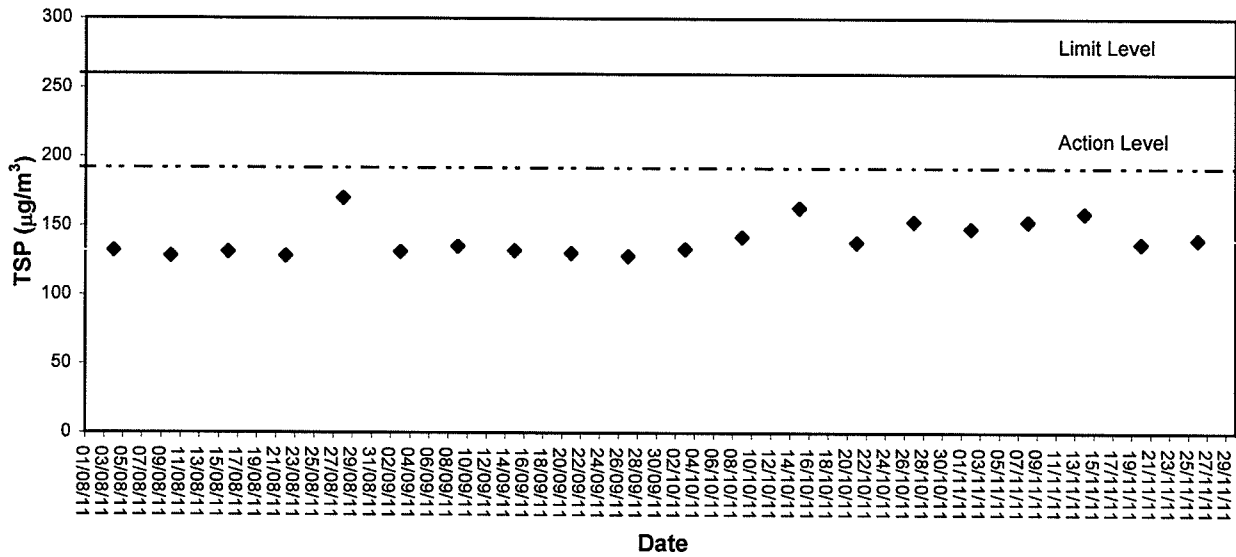


1-hour TSP level at TM-RA2

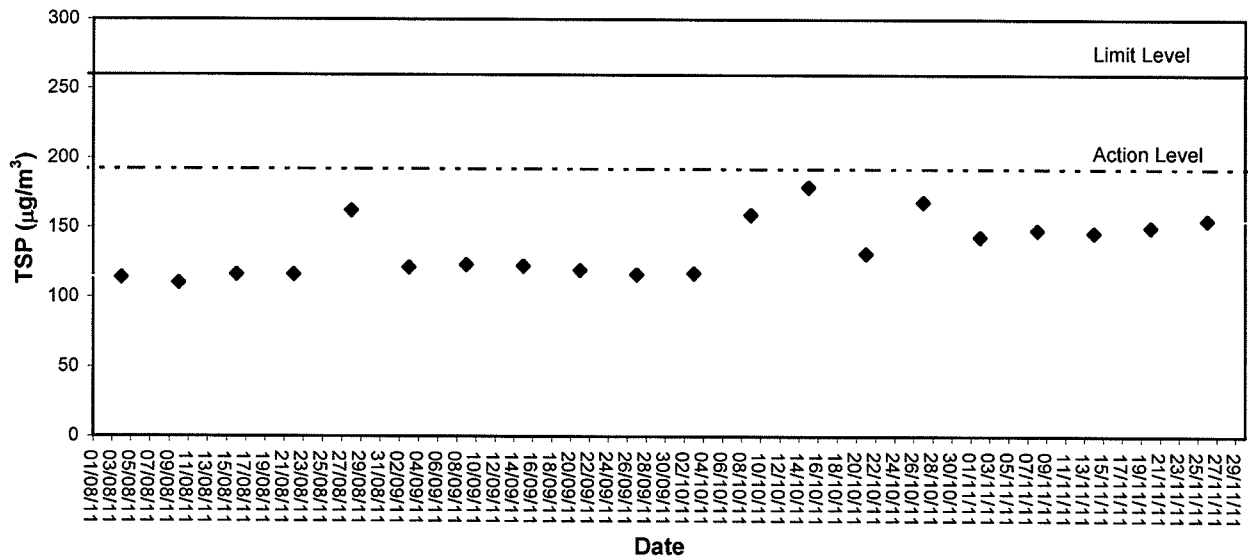




24-hour TSP level at TM-A1



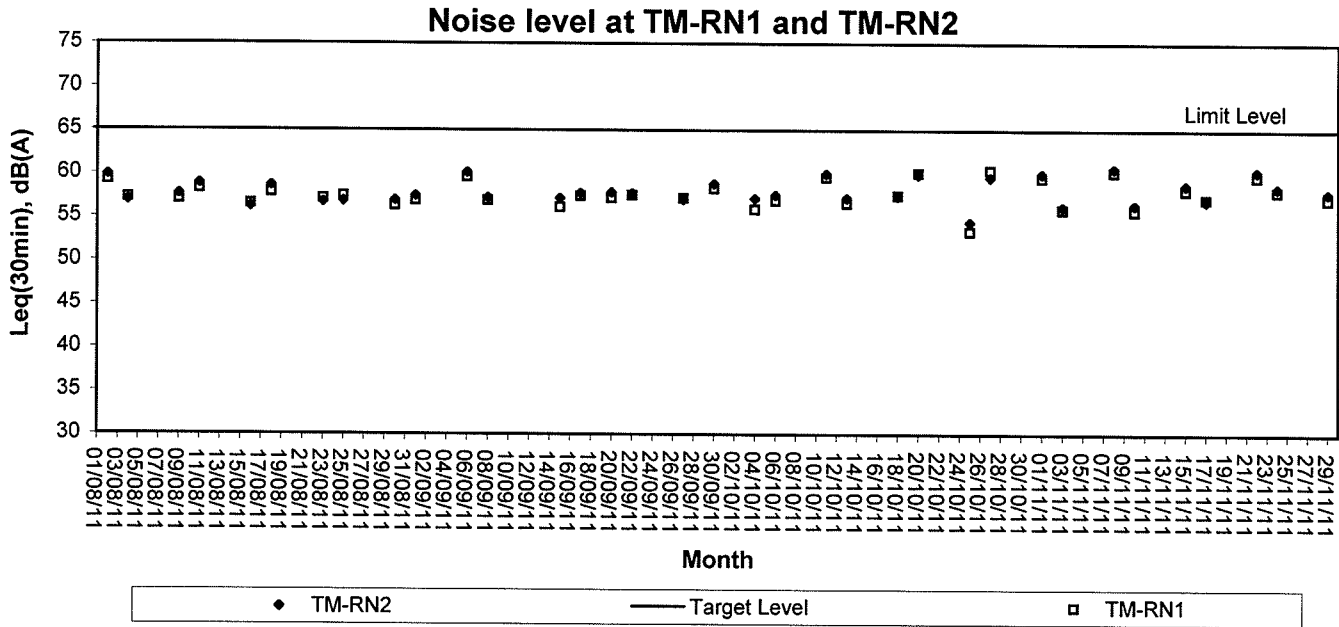
24-hour TSP level at TM-RA2



Appendix C

Graphical Plots of Impact Noise Monitoring Data

Noise Monitoring (Day-time)

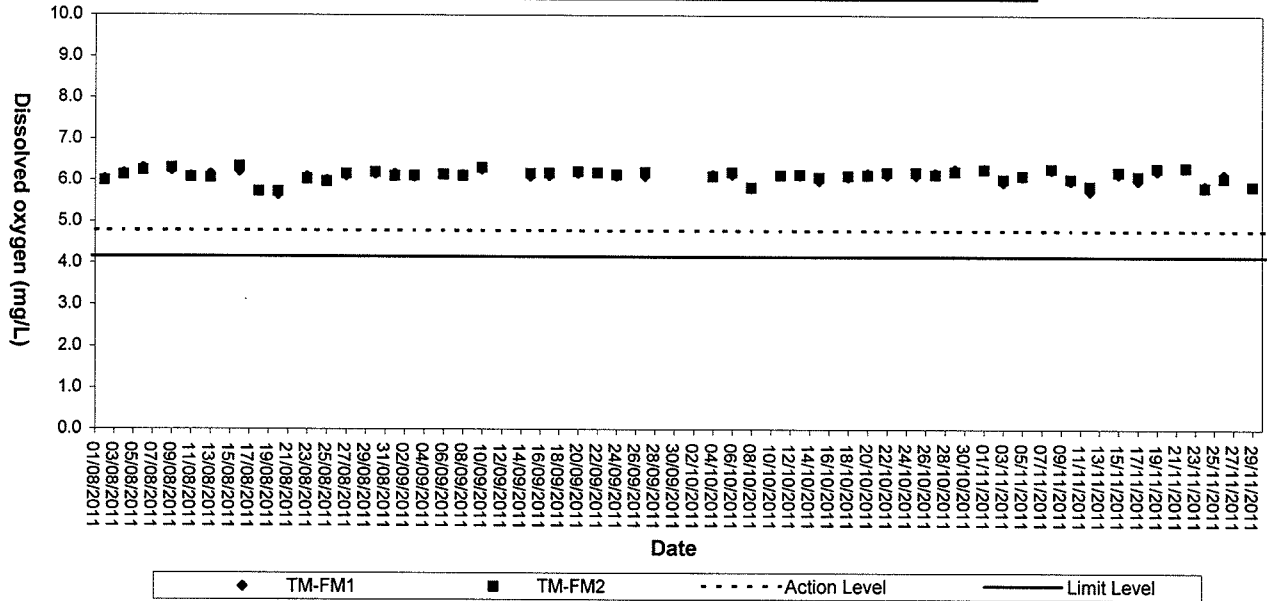


Appendix D

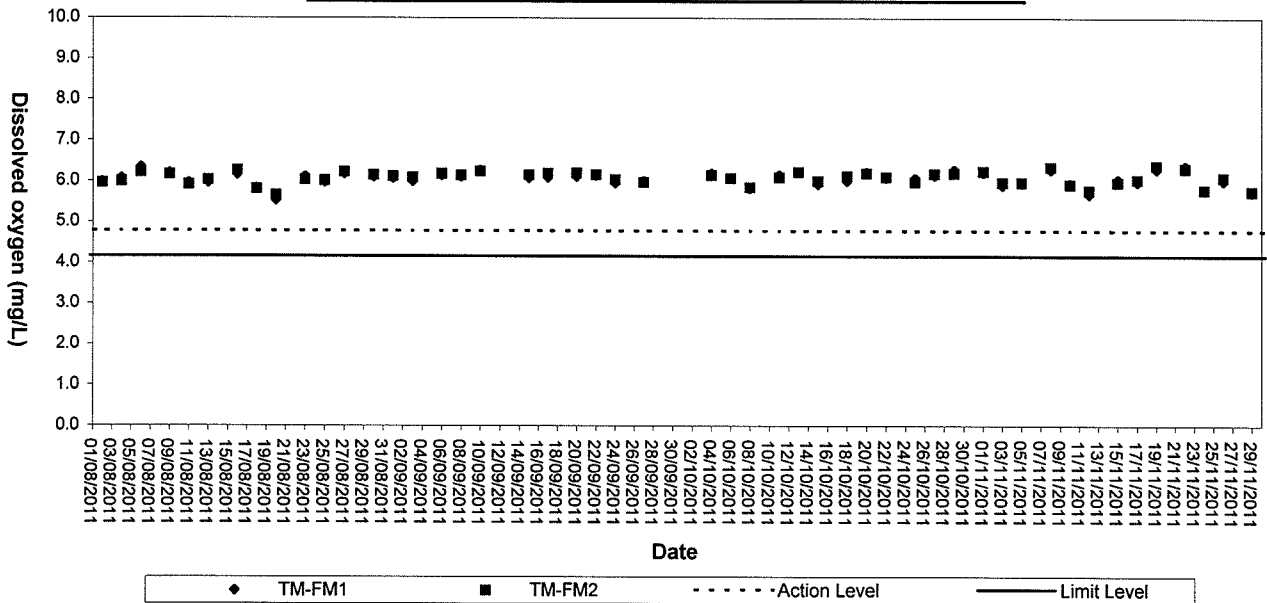
Graphical Plots of Impact Marine Water Quality Monitoring Data



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

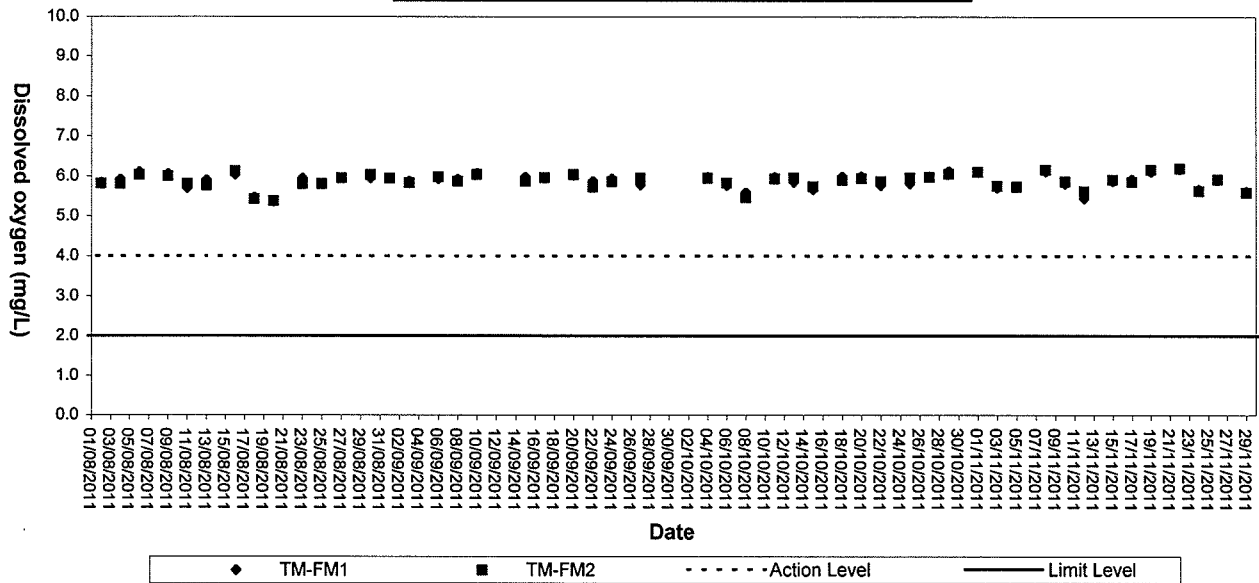


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

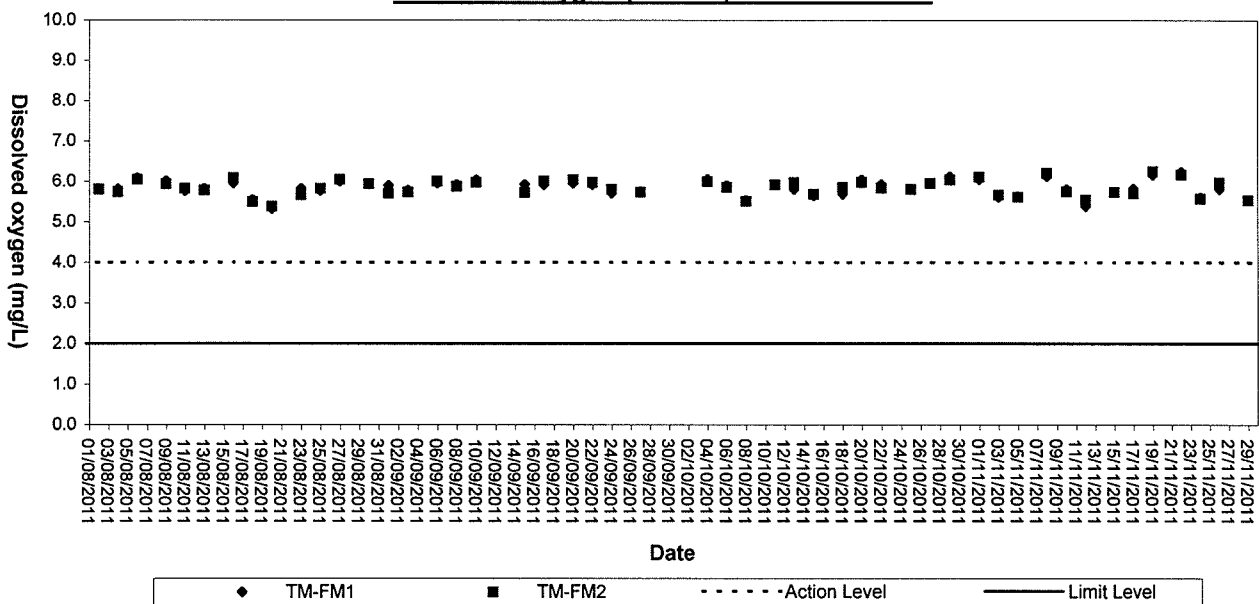




Dissolved Oxygen (Bottom) at Mid-Flood Tide

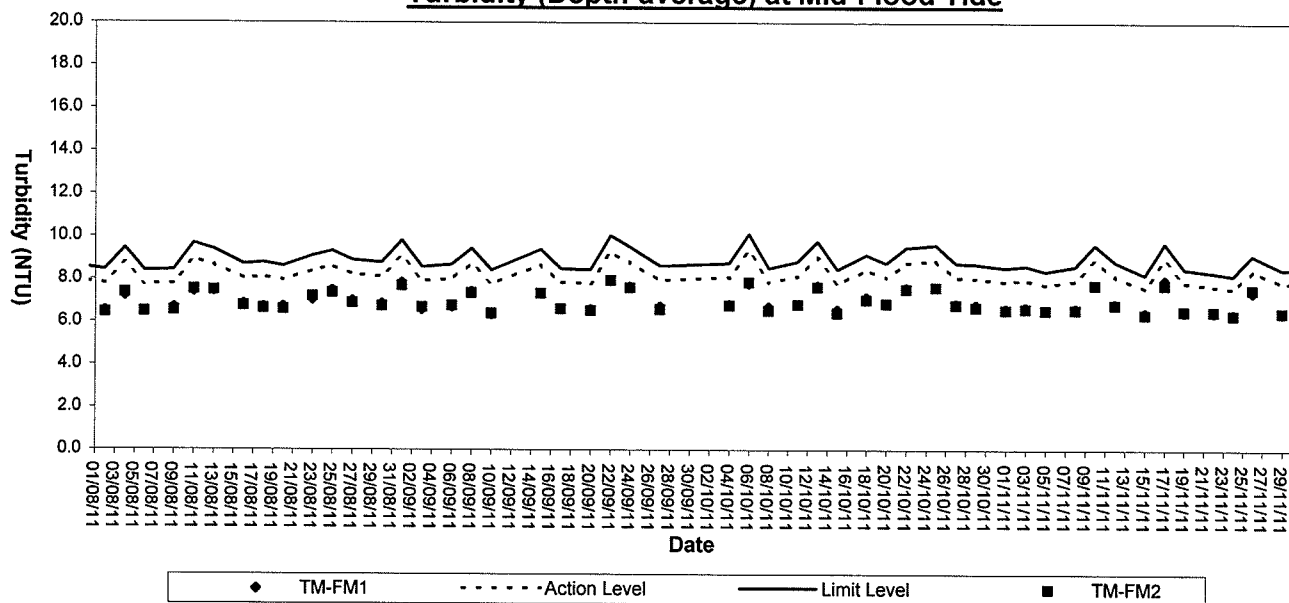


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

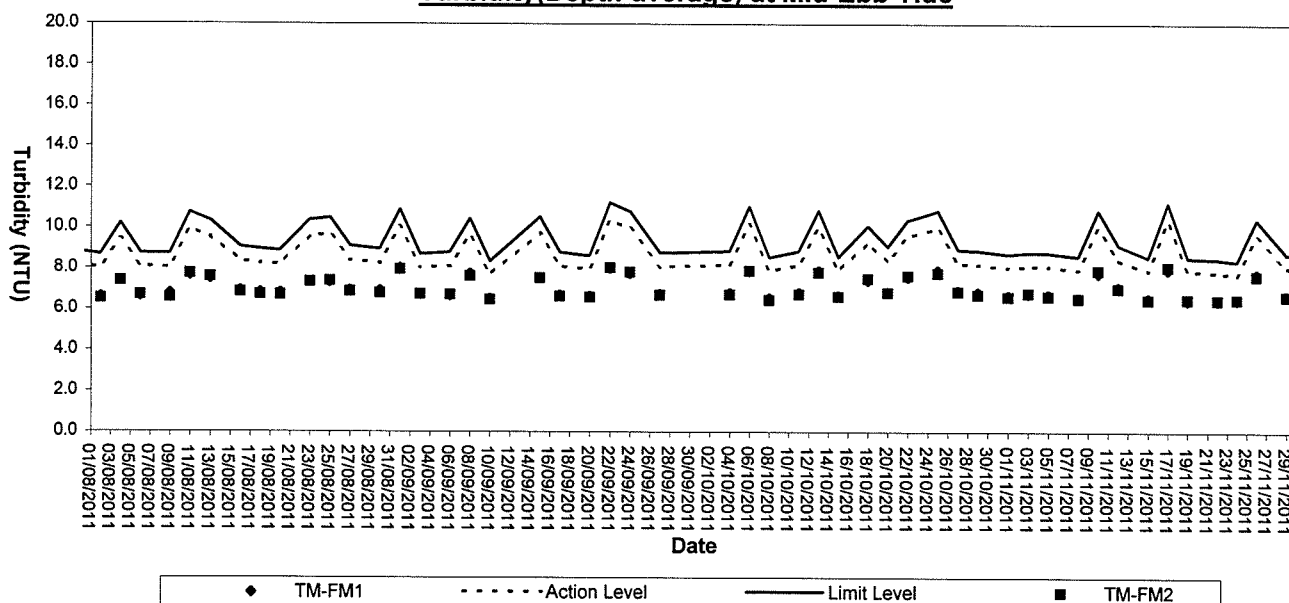




Turbidity (Depth-average) at Mid-Flood Tide

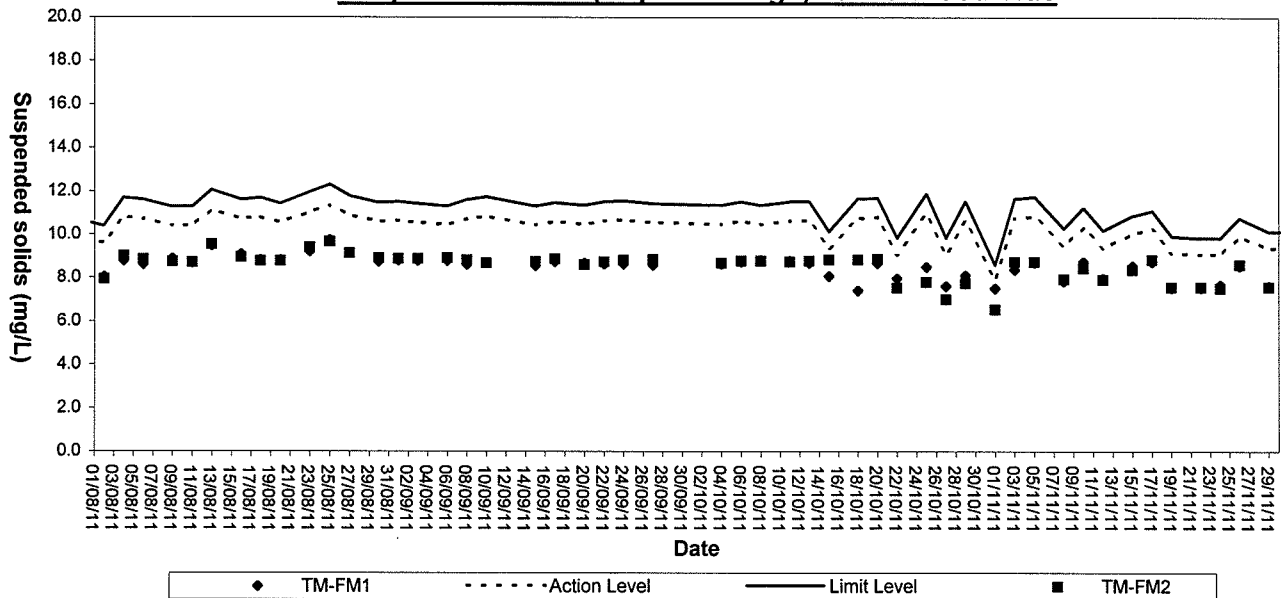


Turbidity (Depth-average) at Mid-Ebb Tide

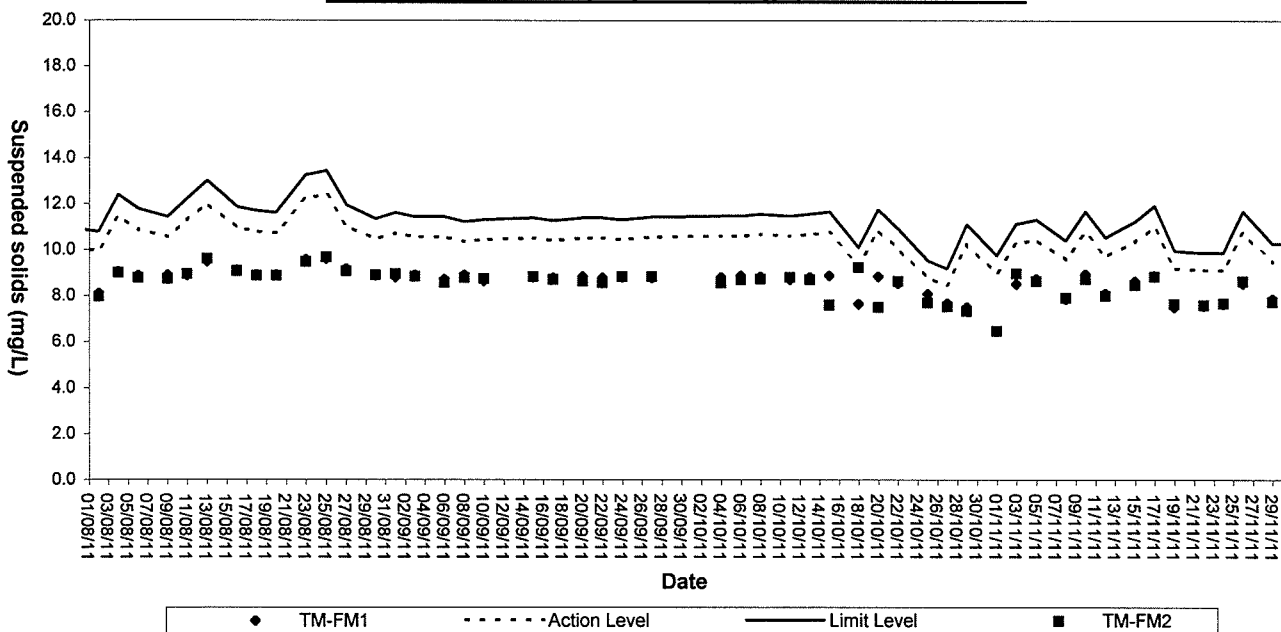




Suspended solids (Depth-average) at Mid-Flood Tide



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



Appendix E

Environmental Quality Performance (Action / Limit Levels)

Action and Limit Levels for 1-hour TSP and 24-hour TSP Monitoring

| Monitoring Location | 24-hr TSP ($\mu\text{g}/\text{m}^3$) | | 1-hr TSP ($\mu\text{g}/\text{m}^3$) | |
|---------------------|--|-------------|---------------------------------------|-------------|
| | Action Level | Limit Level | Action Level | Limit Level |
| TM-A1 | 192 | 260 | 344 | 500 |
| TM-A2 | 192 | 260 | 344 | 500 |

Action and Limit Levels for Marine Water Quality Monitoring

| Parameter | Action Level | Limit Level |
|-------------------------------------|--|---|
| DO (mg/L) | <u>Surface & Middle</u> <4.78 mg/L (5%-ile of baseline data) <u>Bottom</u> <4.16 mg/L (5%-ile of baseline data) | <u>Surface & Middle</u> <4.00 mg/L (1%-ile of baseline data) <u>Bottom</u> <2.00 mg/L |
| SS (mg/L) (Depth-averaged) | >120% of the upstream control station's SS at the same tide on the same day | >130% of the upstream control station's SS at the same tide on the same day |
| Turbidity (NTU) (Depth-averaged) | >120% of the upstream control station's turbidity at the same tide on the same day | >130% of the upstream control station's turbidity at the same tide on the same day |

Action and Limit Levels for Noise Monitoring

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

Remark (*): The Action and Limit Levels refer to the Table 26.2 – Action and Limit Levels for Noise in the Particular Specification of Contract No.CV/2005/01.



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Appendix F

Event-Action Plans

| EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE | | | | | |
|---|---|--|--|---|------------|
| EVENT | ACTION | | | | |
| | ET Leader | | IC(E) | ER | Contractor |
| | ACTION LEVEL | | | | |
| 1. Exceedance for one sample | 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform ER, IC(E) and Contractor 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily | 1. Check monitoring data submitted by the ET 2. Check contractor's working method | 1. Notify Contractor | 1. Rectify any unacceptable practise 2. Amend working methods if appropriate | |
| 2. Exceedance for two or more consecutive samples | 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform IC(E) and Contractor 3. Repeat measurements to confirm finding 4. Increase monitoring frequency to daily 5. Discuss with IC(E) and Contractor on remedial actions 6. If exceedance continues, arrange meeting with IC(E) and ER. 7. If exceedance stops, cease additional monitoring | 1. Check monitoring data submitted by the ET 2. Check the Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures | 1. Confirm receipt of notification of failure in writing 2. Notify the Contractor 3. Ensure remedial measures properly implemented | 1. Submit proposals for remedial actions to IC(E) within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate | |
| 1. Exceedance for one sample | LIMIT LEVEL | | | | |
| | 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform ER, Contractor and EPD 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results | 1. Check monitoring data submitted by the ET 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures | 1. Confirm receipt of notification of failure in writing 2. Notify the Contractor 3. Ensure remedial measures properly implemented | 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate. | |

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

| EVENT | ACTION | | | |
|---|---|--|--|--|
| | ET Leader | IC(E) | ER | Contractor |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Notify IC(E), ER, EPD and Contractor 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results 8. If exceedance stops, cease additional monitoring | <ol style="list-style-type: none"> 1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review 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 Contractor 3. In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented 4. Ensure remedial measures are properly implemented 5. If exceedances continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedances 2. Submit proposals for remedial actions to IC(E) 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 |

| EVENT/ACTION PLAN FOR NOISE EXCEEDANCE | | | | |
|--|---|--|---|--|
| EVENT | ACTION | | | |
| | ET Leader | IC(E) | ER | Contractor |
| Action Level | <ol style="list-style-type: none"> 1. Notify the IC(E) and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IC(E) and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. 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 notification of failure in writing. 2. Notify the Contractor. 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 IC(E). 2. Implement noise mitigation proposals. |
| Limit Level | <ol style="list-style-type: none"> 1. Notify the IC(E), the ER, the EPD and the Contractor. 2. Identify source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IC(E), the ER and the EPD the causes & actions taken for the exceedances. 7. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results 8. If exceedance due to the construction works stops, cease additional monitoring | <ol style="list-style-type: none"> 1. Discuss amongst the ER, the ET Leader 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 Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedances continue, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedances is abated. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) 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 exceedances is abated. |

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

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

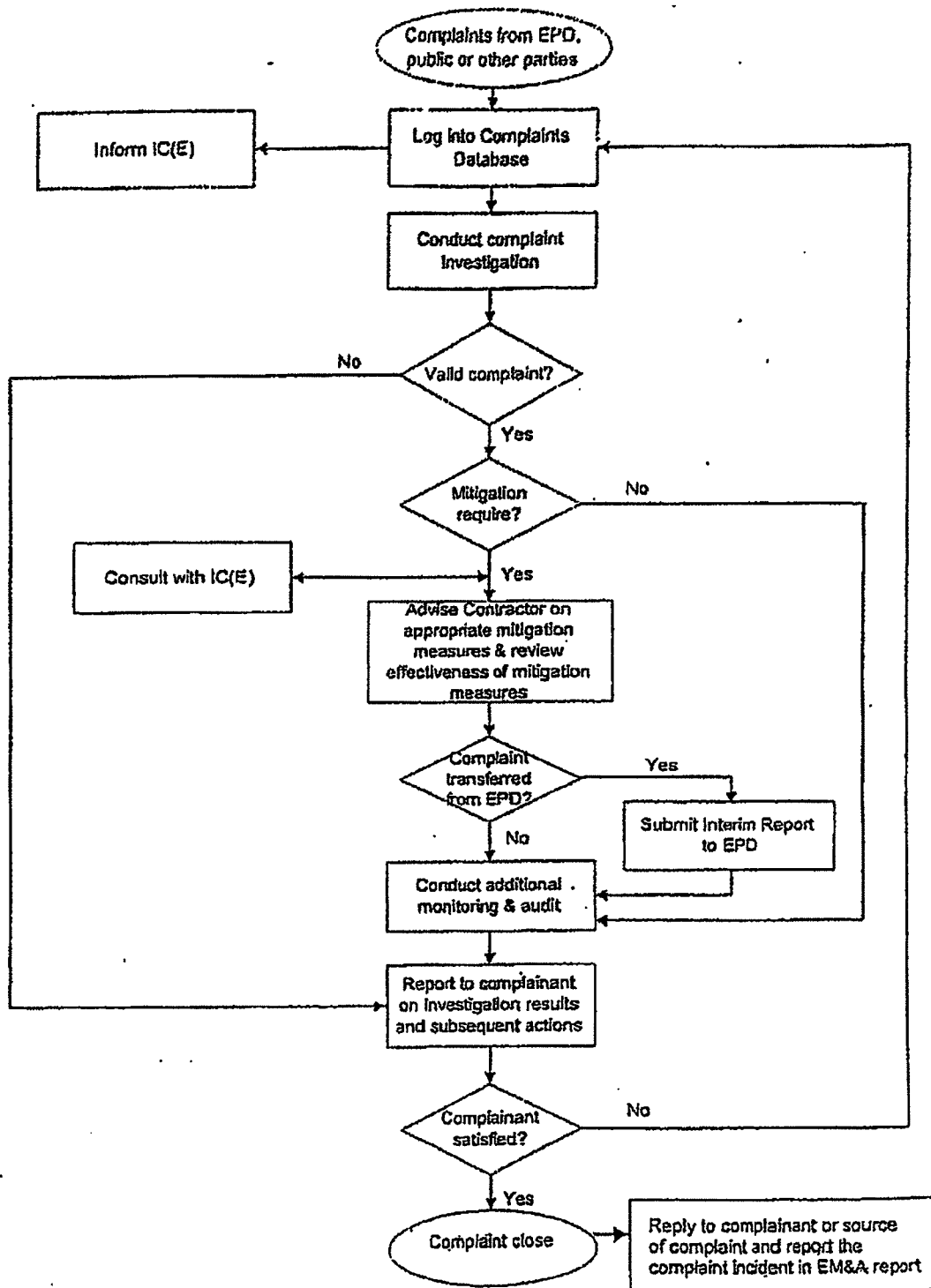
EVENT AND ACTION PLAN FOR WATER QUALITY

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

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

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

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



Contract No. CV/2009/02
Handling of Surplus Public Fill

Figure 4
Environmental Complaint Handling Procedure –
Tuen Mun Area 38 Fill Bank



東業德勘測試顧問有限公司
ETS-TESTCONSULT LIMITED

Appendix G

Project Activities

Master Programme of Contract No. CV/2009/02 - Handling of Surplus Public Fill

Site Location : Tuen Mun Area 38 Fill Bank

| ID | Activity | Original Duration | Start | Finish |
|---------|---|-------------------|------------|------------|
| S201000 | Takeing Over the Existing Facilities | 0 | 19/01/2010 | |
| S202000 | Operation | 1096 | 19/01/2010 | 18/01/2013 |
| S203000 | Operation and Maintenance Tipping Halls | 1096 | 19/01/2010 | 18/01/2013 |
| S204000 | Handing Over the Facilities to the Employer | 0 | | 18/01/2013 |

Appendix H

Implementation Schedule of Environmental Mitigation Measures (EMIS)

Environmental Mitigation Implementation Schedule

| Environmental Protection Measures | Location | Implementation Status | | |
|--|----------------|-----------------------|-----------------------|-----------------|
| | | Implemented | Partially implemented | Not implemented |
| Air Quality | | | | |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance. | All areas | ✓ | | |
| ▪ Water sprays shall be provided and used to dampen materials. | All areas | ✓ | | |
| ▪ All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition. | All areas | | ✓ | |
| ▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. | All areas | ✓ | | |
| ▪ Unpaved areas should be watered regularly to avoid dust generation. | Site Egress | ✓ | | |
| ▪ The designated site main haul road shall be paved or regular watering. | All haul roads | ✓ | | |
| ▪ The public road around the site entrance should be kept clean and free from dust. | All areas | ✓ | | |
| ▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. | Site Egress | ✓ | | |
| ▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. | Site Egress | ✓ | | |
| ▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. | All areas | ✓ | | |
| ▪ Vehicle and equipment should be switched off while not in use. | All areas | ✓ | | |
| ▪ All plant and equipment should be well maintained e.g. without black smoke emission. | All areas | ✓ | | |
| ▪ Open burning should be prohibited. | All areas | ✓ | | |
| Noise Impact | | | | |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. | All areas | ✓ | | |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the site works. | All areas | ✓ | | |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. | All areas | ✓ | | |
| ▪ Air compressors and hand held breakers should have noise labels. | All areas | ✓ | | |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. | All areas | ✓ | | |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs. | All areas | ✓ | | |

Remark: ✓ = Implemented, ∇ = Partially Implemented X = Not Implemented N/A = Not Applicable

| Environmental Protection Measures | | Location | Implementation Status | | |
|---|--|----------|-----------------------|-----------------------|-----------------|
| Water Quality | | | Implemented | Partially implemented | Not implemented |
| <ul style="list-style-type: none"> The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained. Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels. The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. The material shall be properly covered to prevent washed away especially before rainstorm. Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. A waste collection vessel shall be deployed to remove floating debris. | | | | | |
| Landscape and Visual | | | | | |
| <ul style="list-style-type: none"> The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. Surface of outer slopes of the Fill Bank shall preferably be hydroseeded. Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable. Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level. Lighting shall be set to minimise night-time glare. | | | | | |
| Waste Management | | | | | |
| Construction Waste Management | | | | | |
| <ul style="list-style-type: none"> Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. | | | | | |

Remark: ✓ = Implemented, ∇ = Partially Implemented X = Not Implemented N/A = Not Applicable

| Environmental Protection Measures | | Location | Implementation Status | | |
|---|--|--------------------|-----------------------|-----------------------|-----------------|
| | | | Implemented | Partially implemented | Not implemented |
| • | Mud and debris should be removed from waterworks access roads and associated drainage systems. | All areas | | ✓ | |
| • | Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. | All areas | ✓ | | |
| • | Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill. | All areas | ✓ | | |
| • | In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. | All areas | ✓ | | |
| ▪ | Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. | All areas | ✓ | | |
| Chemical Waste Management | | | | | |
| • | It is required to register as a chemical waste producer if chemical wastes would be produced from the site activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. | Waste Storage Area | ✓ | | |
| • | After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. | Waste Storage Area | ✓ | | |
| • | Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. | Waste Storage Area | ✓ | | |
| • | Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. | Waste Storage Area | ✓ | | |
| • | Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. | Waste Storage Area | ✓ | | |
| • | The designated chemical waste storage area should only be used for storing chemical wastes. | Waste Storage Area | ✓ | | |
| The set-up of chemical waste storage area should | | | | | |
| • | Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. | Waste Storage Area | ✓ | | |
| • | Be enclosed on at least 3 sides and securely closed. | Waste Storage Area | ✓ | | |
| • | 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 that area, whichever is the greatest. | Waste Storage Area | ✓ | | |
| • | Have adequate ventilation. | Waste Storage Area | ✓ | | |
| • | Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). | Waste Storage Area | ✓ | | |
| • | Be arranged so that incompatible materials are adequately separated. | Waste Storage Area | ✓ | | |
| • | Warning panels should be displayed at the waste storage area. | Waste Storage Area | ✓ | | |
| • | Waste storage area should be cleaned and maintained regularly. | Waste Storage Area | ✓ | | |

Remark: ✓ = Implemented, ∇ = Partially Implemented X = Not Implemented N/A = Not Applicable

| Environmental Protection Measures | Location | Implementation Status | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------|----------------|
| | | Implemented | Partially implemented | Not implemented | Not Applicable |
| • Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste. | All areas | √ | | | |
| • All generators, fuel and oil storage should be within bundle areas. | All areas | √ | | | |
| • Oil leakage from machinery, vehicle and plant should be prevented. | All areas | | √ | | |
| • In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. | All areas | √ | | | |
| • The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. | All areas | √ | | | |
| Good Site Practices | | | | | |
| 2.2 Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. | All areas | √ | | | |
| 2.3 Training of site personnel in proper waste management and chemical handling procedures should be provided. | All areas | √ | | | |
| 2.4 Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. | All areas | √ | | | |
| 2.5 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. | All areas | √ | | | |
| 2.6 The Environmental Permit should be displaced conspicuously on site. | Site Entrance | √ | | | |
| 2.7 Construction noise permits should be posted at site entrance or available for site inspection. | Site Entrance | | | | √ |
| 2.8 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. | All areas | √ | | | |
| 2.9 Chemical storage area provided with lock and located on sealed areas. | Chemical Storage Area | √ | | | |
| 2.10 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). | Chemical Storage Area | √ | | | |
| 2.11 Any unused chemicals or those with remaining functional capacity should be recycled. | All areas | √ | | | |
| 2.12 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. | All areas | √ | | | |
| • To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. | All areas | √ | | | |
| • A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. | All areas | √ | | | |
| • A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be banded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system. | All areas | | √ | | |
| • Remove wastes in a timely manner. | All areas | | √ | | |

Appendix I

Statistical Analysis of the Trend of Suspended Solids in the Quarter

Statistical Analysis of the Trend of Suspended Solids

For Mid-Flood Tide

Station: TM-FM1

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 5.9733 | 1.3518 | 0.3902 |
| Quarterly Mean | 36 | 0 | 8.3481 | 0.4717 | 0.0786 |

Result:

Probability that two variances are equal (f-test) = 0

Difference between means = 2.3748 (Std Dev = 1.3735 and SE = 0.3981)
(95% CI : 1.5946 < Diff < 3.155)

t-value of difference = 5.966 (11 degrees of freedom)
P = 0.99997 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Station: TM-FM2

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 6.0267 | 1.1748 | 0.3391 |
| Quarterly Mean | 36 | 0 | 8.3676 | 0.6256 | 0.1043 |

Result:

Probability that two variances are equal (f-test) = 0.99786

Difference between means = 2.3409 (Std Dev = 1.2862 and SE = 0.3548)
(95% CI : 1.6455 < Diff < 3.0363)

t-value of difference = 6.598 (13 degrees of freedom)
P = 0.99999 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Statistical Analysis of the Trend of Suspended Solids

For Mid-Flood Tide

Station: TM-FC1

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 6.6942 | 1.8839 | 0.5438 |
| Quarterly Mean | 36 | 0 | 8.3222 | 0.5769 | 0.0962 |

Result:

Probability that two variances are equal (f-test) = 0

Difference between means = 1.628 (Std Dev = 1.8886 and SE = 0.5523)
(95% CI : 0.5456 < Diff < 2.7104)

t-value of difference = 2.948 (11 degrees of freedom)
P = 0.99432 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Station: TM-FC2

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 6.3067 | 1.8674 | 0.5391 |
| Quarterly Mean | 36 | 0 | 8.4676 | 0.6101 | 0.1017 |

Result:

Probability that two variances are equal (f-test) = 0

Difference between means = 2.1609 (Std Dev = 1.0857 and SE = 0.5486)
(95% CI : 1.0857 < Diff < 3.2361)

t-value of difference = 3.939 (11 degrees of freedom)
P = 0.99908 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Statistical Analysis of the Trend of Suspended Solids

For Mid-Ebb Tide

Station: TM-FM1

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 7.0008 | 1.6394 | 0.4733 |
| Quarterly Mean | 36 | 0 | 8.4157 | 0.5898 | 0.0983 |

Result:

Probability that two variances are equal (f-test) = 0

Difference between means = 1.4149 (Std Dev = 1.6718 and SE = 0.4834)
(95% CI : 0.4675 < Diff < 2.3623)

t-value of difference = 2.927 (12 degrees of freedom)
P = 0.99372 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Station: TM-FM2

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 7.2758 | 1.5293 | 0.4415 |
| Quarterly Mean | 36 | 0 | 8.3481 | 0.6218 | 0.1036 |

Result:

Probability that two variances are equal (f-test) = 0

Difference between means = 1.0723 (Std Dev = 1.5861 and SE = 0.4535)
(95% CI : 0.1835 < Diff < 1.9611)

t-value of difference = 2.365 (12 degrees of freedom)
P = 0.98137 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Statistical Analysis of the Trend of Suspended Solids

For Mid-Ebb Tide

Station: TM-FC1

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 7.6392 | 1.5074 | 0.4351 |
| Quarterly Mean | 36 | 0 | 8.4750 | 0.5586 | 0.0931 |

Result:

Probability that two variances are equal (f-test) = 0

Difference between means = 0.8358 (Std Dev = 1.5429 and SE = 0.445)
(95% CI : -0.0364 < Diff < 1.708)

t-value of difference = 1.878 (12 degrees of freedom)
P = 0.95744 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Station: TM-FC2

t-test

| Group Name | N | Missing | Mean | Std Dev | SE |
|--------------------|----|---------|--------|---------|--------|
| 130% Baseline Mean | 12 | 0 | 6.6950 | 1.9561 | 0.5647 |
| Quarterly Mean | 36 | 0 | 8.4227 | 0.6230 | 0.1038 |

Result:

Probability that two variances are equal (f-test) = 0

Difference between means = 1.7277 (Std Dev = 1.9683 and SE = 0.5741)
(95% CI : 0.6024 < Diff < 2.853)

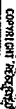
t-value of difference = 3.009 (11 degrees of freedom)
P = 0.99487 (>0.05)

Conclusion:

There is no statistically significant difference between the groups.

Appendix J

Site General Layout plan



SELECTION CRITERIA

Abstract

1

1990

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1

17

1. ALL GOVERNMENT BILLS TO INCREASE DOMESTIC SALES TAXES ARE IN EFFECT.
2. ALL LEGAL BILLS TO INCREASE DOMESTIC SALES TAXES ARE IN EFFECT.
3. ALL GOVERNMENTS ARE IN EFFECT.

Appendix K

Weather Condition

Extract of Meteorological Observations for Tuen Mun Automatic Weather Station, September 2011

| Date | Mean Pressure at M.S.L. (hPa) | Air Temperature | | | Mean Dew Point Temperature (deg C) | Relative Humidity | | |
|---------|-------------------------------------|-----------------|-----------------|-----------------|--|-------------------|-------------|-------------|
| | | Max. (deg C) | Mean (deg C) | Min. (deg C) | | Max. (%) | Mean (%) | Min. (%) |
| Sep 1 | ***** | 29.9 | 28.3 | 27.1 | 22.0 | 77 | 69 | 60 |
| Sep 2 | ***** | 32.1 | 28.8 | 26.7 | 23.2 | 82 | 72 | 57 |
| Sep 3 | ***** | 30.3 | 27.5 | 25.0 | 23.7 | 89 | 80 | 67 |
| Sep 4 | ***** | 32.7 | 28.5 | 26.4 | 24.0 | 86 | 77 | 57 |
| Sep 5 | ***** | 32.3 | 29.0 | 26.7 | 23.9 | 86 | 75 | 60 |
| Sep 6 | ***** | 33.2 | 29.3 | 26.7 | 23.1 | 82 | 70 | 54 |
| Sep 7 | ***** | 31.8 | 29.3 | 27.4 | 22.7 | 79 | 68 | 53 |
| Sep 8 | ***** | 33.0 | 29.3 | 26.7 | 23.1 | 81 | 70 | 53 |
| Sep 9 | ***** | 34.2 | 30.0 | 26.9 | 21.6 | 75 | 62 | 41 |
| Sep 10 | ***** | 33.4 | 29.9 | 26.7 | 21.5 | 82 | 62 | 41 |
| Sep 11 | ***** | 34.0 | 29.5 | 25.8 | 21.8 | 84 | 64 | 47 |
| Sep 12 | ***** | 33.6 | 29.0 | 25.4 | 22.3 | 85 | 68 | 47 |
| Sep 13 | ***** | 32.4 | 28.9 | 26.6 | 21.8 | 79 | 66 | 46 |
| Sep 14 | ***** | 32.6 | 29.1 | 26.2 | 21.6 | 78 | 65 | 48 |
| Sep 15 | ***** | 33.4 | 29.1 | 25.0 | 22.1 | 84 | 66 | 47 |
| Sep 16 | ***** | 31.6 | 28.8 | 26.9 | 22.7 | 78 | 70 | 56 |
| Sep 17 | ***** | 32.2 | 29.4 | 26.5 | 22.6 | 81 | 68 | 55 |
| Sep 18 | ***** | 31.6 | 29.2 | 27.6 | 21.8 | 77 | 65 | 51 |
| Sep 19 | ***** | 31.9 | 27.9 | 24.6 | 22.3 | 87 | 72 | 56 |
| Sep 20 | ***** | 26.2 | 25.2 | 23.2 | 18.9 | 80 | 68 | 61 |
| Sep 21 | ***** | 28.7 | 25.7 | 22.1 | 16.5 | 67 | 57 | 46 |
| Sep 22 | ***** | 28.0 | 25.5 | 22.5 | 16.6 | 69 | 58 | 48 |
| Sep 23 | ***** | 27.2 | 25.4 | 24.1 | 17.5 | 71 | 62 | 53 |
| Sep 24 | ***** | 27.1 | 25.1 | 23.6 | 18.1 | 71 | 65 | 56 |
| Sep 25 | ***** | 25.6 | 24.3 | 22.6 | 19.4 | 87 | 75 | 62 |
| Sep 26 | ***** | 31.6 | 27.0 | 24.0 | 21.0 | 82 | 70 | 52 |
| Sep 27 | ***** | 31.4 | 27.9 | 25.5 | 21.9 | 82 | 71 | 56 |
| Sep 28 | ***** | 32.8 | 29.2 | 25.6 | 21.1 | 85 | 63 | 46 |
| Sep 29 | ***** | 29.4 | 27.7 | 24.4 | 22.5 | 90 | 74 | 61 |
| Sep 30 | ***** | 30.0 | 27.9 | 26.1 | 23.3 | 87 | 76 | 65 |
| Mean | ***** | 31.1 | 28.1 | 25.5 | 21.5 | 81 | 68 | 53 |
| Maximum | ***** | 34.2 | 30.0 | 27.6 | 24.0 | 90 | 80 | 67 |
| Minimum | ***** | 25.6 | 24.3 | 22.1 | 16.5 | 67 | 57 | 41 |

Extract of Meteorological Observations for Tuen Mun Automatic Weather Station, September 2011

| Date | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|---------|------------------------|---|------------------------------|
| Sep 1 | 0.0 | *** | ***** |
| Sep 2 | 0.0 | *** | ***** |
| Sep 3 | 19.5 | *** | ***** |
| Sep 4 | 2.0 | *** | ***** |
| Sep 5 | 0.0 | *** | ***** |
| Sep 6 | 0.0 | *** | ***** |
| Sep 7 | 0.0 | *** | ***** |
| Sep 8 | 0.0 | *** | ***** |
| Sep 9 | 0.0 | *** | ***** |
| Sep 10 | 0.5 | *** | ***** |
| Sep 11 | 2.0 | *** | ***** |
| Sep 12 | 0.0 | *** | ***** |
| Sep 13 | 0.0 | *** | ***** |
| Sep 14 | 0.0 | *** | ***** |
| Sep 15 | 0.5 | *** | ***** |
| Sep 16 | 0.0 | *** | ***** |
| Sep 17 | 0.0 | *** | ***** |
| Sep 18 | 0.0 | *** | ***** |
| Sep 19 | 12.0 | *** | ***** |
| Sep 20 | 0.5 | *** | ***** |
| Sep 21 | 0.0 | *** | ***** |
| Sep 22 | 0.0 | *** | ***** |
| Sep 23 | 0.0 | *** | ***** |
| Sep 24 | 0.0 | *** | ***** |
| Sep 25 | 5.5 | *** | ***** |
| Sep 26 | 0.0 | *** | ***** |
| Sep 27 | 0.0 | *** | ***** |
| Sep 28 | 7.0 | *** | ***** |
| Sep 29 | 50.0 | *** | ***** |
| Sep 30 | 3.5 | *** | ***** |
| Mean | ----- | *** | ***** |
| Total | 103.0 | --- | ----- |
| Maximum | 50.0 | --- | ***** |
| Minimum | 0.0 | --- | ***** |

*** unavailable

missing (less than 24 hourly observations a day)

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Extract of Meteorological Observations for Tuen Mun Weather Station, October 2011

| Date | Mean Pressure at M.S.L. (hPa) | Air Temperature | | | Mean Dew Point Temperature (deg C) | Relative Humidity | | |
|---------|-------------------------------------|-----------------|-----------------|-----------------|--|-------------------|-------------|-------------|
| | | Max. (deg C) | Mean (deg C) | Min. (deg C) | | Max. (%) | Mean (%) | Min. (%) |
| Oct 1 | ***** | 29.2 | 26.9 | 25.1 | 21.4 | 88 | 72 | 62 |
| Oct 2 | ***** | 28.2 | 25.2 | 23.8 | 20.2 | 87 | 74 | 58 |
| Oct 3 | ***** | 24.9 | 22.4 | 20.5 | 16.9 | 83 | 71 | 59 |
| Oct 4 | ***** | 24.8 | 22.5 | 19.7 | 17.4 | 81 | 73 | 63 |
| Oct 5 | ***** | 26.1 | 23.7 | 21.6 | 17.7 | 75 | 69 | 62 |
| Oct 6 | ***** | 27.4 | 24.5 | 21.9 | 18.8 | 85 | 71 | 56 |
| Oct 7 | ***** | 28.3 | 25.3 | 23.3 | 20.0 | 84 | 73 | 57 |
| Oct 8 | ***** | 28.3 | 25.8 | 23.8 | 19.8 | 78 | 69 | 57 |
| Oct 9 | ***** | 31.4 | 26.8 | 23.6 | 20.0 | 82 | 68 | 46 |
| Oct 10 | ***** | 30.4 | 26.3 | 24.2 | 21.2 | 90 | 74 | 56 |
| Oct 11 | ***** | 26.9 | 25.3 | 24.0 | 21.8 | 88 | 81 | 72 |
| Oct 12 | ***** | 27.0 | 25.1 | 23.7 | 22.2 | 90 | 84 | 76 |
| Oct 13 | ***** | 28.6 | 25.9 | 24.6 | 22.0 | 88 | 79 | 67 |
| Oct 14 | ***** | 29.1 | 25.7 | 24.1 | 21.5 | 88 | 77 | 61 |
| Oct 15 | ***** | 28.5 | 24.6 | 22.5 | 16.9 | 79 | 63 | 46 |
| Oct 16 | ***** | 29.4 | 24.9 | 22.4 | 14.7 | 70 | 54 | 39 |
| Oct 17 | ***** | 29.7 | 25.0 | 21.1 | 15.1 | 81 | 57 | 29 |
| Oct 18 | ***** | 29.0 | 24.5 | 21.4 | 15.8 | 84 | 60 | 38 |
| Oct 19 | ***** | 27.0 | 23.8 | 21.4 | 16.4 | 76 | 64 | 48 |
| Oct 20 | ***** | 27.9 | 23.7 | 20.6 | 17.0 | 79 | 67 | 47 |
| Oct 21 | ***** | 29.4 | 24.5 | 20.4 | 17.4 | 83 | 66 | 43 |
| Oct 22 | ***** | 28.7 | 24.7 | 21.7 | 18.8 | 85 | 70 | 54 |
| Oct 23 | ***** | 27.8 | 24.9 | 23.1 | 19.0 | 78 | 70 | 58 |
| Oct 24 | ***** | 29.8 | 25.4 | 21.1 | 19.3 | 86 | 70 | 49 |
| Oct 25 | ***** | 27.4 | 24.7 | 22.7 | 18.5 | 83 | 69 | 58 |
| Oct 26 | ***** | 26.9 | 23.4 | 21.3 | 16.5 | 72 | 65 | 51 |
| Oct 27 | ***** | 25.8 | 23.5 | 21.9 | 17.2 | 77 | 68 | 58 |
| Oct 28 | ***** | 27.1 | 23.8 | 21.1 | 16.3 | 78 | 63 | 49 |
| Oct 29 | ***** | 28.2 | 24.1 | 20.8 | 16.0 | 72 | 61 | 46 |
| Oct 30 | ***** | 27.9 | 24.0 | 21.1 | 16.7 | 73 | 64 | 49 |
| Oct 31 | ***** | 28.8 | 24.6 | 22.2 | 17.0 | 79 | 64 | 42 |
| Mean | ***** | 28.1 | 24.7 | 22.3 | 18.4 | 81 | 69 | 53 |
| Maximum | ***** | 31.4 | 26.9 | 25.1 | 22.2 | 90 | 84 | 76 |
| Minimum | ***** | 24.8 | 22.4 | 19.7 | 14.7 | 70 | 54 | 29 |

Extract of Meteorological Observations for Tuen Mun Weather Station, October 2011

| Date | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|----------------|------------------------|--|---------------------------|
| Oct 1 | 8.5 | *** | ***** |
| Oct 2 | 3.5 | *** | ***** |
| Oct 3 | 1.0 | *** | ***** |
| Oct 4 | 1.0 | *** | ***** |
| Oct 5 | 0.0 | *** | ***** |
| Oct 6 | 0.5 | *** | ***** |
| Oct 7 | 0.0 | *** | ***** |
| Oct 8 | 0.0 | *** | ***** |
| Oct 9 | 0.0 | *** | ***** |
| Oct 10 | 16.0 | *** | ***** |
| Oct 11 | 1.5 | *** | ***** |
| Oct 12 | 30.0 | *** | ***** |
| Oct 13 | 0.5 | *** | ***** |
| Oct 14 | 3.5 | *** | ***** |
| Oct 15 | 0.0 | *** | ***** |
| Oct 16 | 0.0 | *** | ***** |
| Oct 17 | 0.0 | *** | ***** |
| Oct 18 | 0.0 | *** | ***** |
| Oct 19 | 0.0 | *** | ***** |
| Oct 20 | 0.0 | *** | ***** |
| Oct 21 | 0.0 | *** | ***** |
| Oct 22 | 0.0 | *** | ***** |
| Oct 23 | 0.0 | *** | ***** |
| Oct 24 | 0.0 | *** | ***** |
| Oct 25 | 0.0 | *** | ***** |
| Oct 26 | 0.0 | *** | ***** |
| Oct 27 | 0.0 | *** | ***** |
| Oct 28 | 0.0 | *** | ***** |
| Oct 29 | 0.0 | *** | ***** |
| Oct 30 | 0.0 | *** | ***** |
| Oct 31 | 0.0 | *** | ***** |
| Mean | ----- | *** | ***** |
| Total | 66.0 | --- | ----- |
| Maximum | 30.0 | --- | ***** |
| Minimum | 0.0 | --- | ***** |

*** unavailable

missing (less than 24 hourly observations a day)

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Extract of Meteorological Observations for Tuen Mun Automatic Weather Station, November 2011

| Date | Mean Pressure at M.S.L. (hPa) | Air Temperature | | | Mean Dew Point Temperature (deg C) | Relative Humidity | | |
|---------|-------------------------------|-----------------|--------------|--------------|------------------------------------|-------------------|----------|----------|
| | | Max. (deg C) | Mean (deg C) | Min. (deg C) | | Max. (%) | Mean (%) | Min. (%) |
| Nov 1 | ***** | 28.3 | 24.4 | 20.9 | 17.2 | 79 | 65 | 45 |
| Nov 2 | ***** | 29.3 | 25.2 | 22.0 | 18.0 | 82 | 65 | 43 |
| Nov 3 | ***** | 29.6 | 25.9 | 22.7 | 19.6 | 82 | 69 | 50 |
| Nov 4 | ***** | 29.5 | 26.6 | 24.4 | 19.6 | 77 | 66 | 52 |
| Nov 5 | ***** | 30.4 | 26.6 | 23.7 | 20.7 | 80 | 70 | 53 |
| Nov 6 | ***** | 29.5 | 27.0 | 25.5 | 20.5 | 77 | 68 | 55 |
| Nov 7 | ***** | 29.4 | 25.9 | 24.5 | 19.2 | 76 | 67 | 52 |
| Nov 8 | ***** | 24.8 | 22.1 | 21.2 | 19.7 | 90 | 86 | 65 |
| Nov 9 | ***** | 21.2 | 19.1 | 17.8 | 17.1 | 91 | 88 | 79 |
| Nov 10 | ***** | 20.4 | 18.7 | 16.3 | 13.5 | 88 | 72 | 64 |
| Nov 11 | ***** | 21.4 | 19.4 | 16.0 | 13.0 | 78 | 67 | 58 |
| Nov 12 | ***** | 26.7 | 21.5 | 18.0 | 14.6 | 80 | 66 | 46 |
| Nov 13 | ***** | 28.3 | 22.9 | 18.6 | 16.6 | 86 | 69 | 43 |
| Nov 14 | ***** | 26.7 | 23.5 | 21.8 | 17.9 | 83 | 71 | 56 |
| Nov 15 | ***** | 28.8 | 24.0 | 21.7 | 17.2 | 75 | 66 | 47 |
| Nov 16 | ***** | 26.3 | 23.5 | 21.0 | 17.9 | 81 | 71 | 56 |
| Nov 17 | ***** | 24.7 | 23.3 | 22.4 | 19.3 | 90 | 79 | 70 |
| Nov 18 | ***** | 27.2 | 24.3 | 22.6 | 21.6 | 90 | 85 | 71 |
| Nov 19 | ***** | 27.3 | 24.9 | 23.3 | 20.1 | 90 | 76 | 57 |
| Nov 20 | ***** | 25.6 | 23.1 | 20.7 | 15.4 | 72 | 62 | 51 |
| Nov 21 | ***** | 23.5 | 21.8 | 20.5 | 13.9 | 72 | 62 | 42 |
| Nov 22 | ***** | 24.1 | 21.6 | 19.7 | 14.3 | 73 | 63 | 52 |
| Nov 23 | ***** | 25.5 | 22.0 | 20.5 | 11.5 | 66 | 52 | 37 |
| Nov 24 | ***** | 24.4 | 21.0 | 18.4 | 10.6 | 69 | 52 | 35 |
| Nov 25 | ***** | 22.5 | 20.6 | 18.7 | 13.2 | 75 | 63 | 49 |
| Nov 26 | ***** | 23.6 | 21.0 | 19.4 | 13.3 | 78 | 62 | 46 |
| Nov 27 | ***** | 27.0 | 21.7 | 17.9 | 14.6 | 80 | 65 | 42 |
| Nov 28 | ***** | 26.1 | 21.9 | 18.1 | 16.0 | 84 | 70 | 51 |
| Nov 29 | ***** | 26.1 | 22.7 | 19.5 | 16.6 | 83 | 69 | 51 |
| Nov 30 | ***** | 27.6 | 23.2 | 20.2 | 17.4 | 84 | 71 | 49 |
| Mean | ***** | 26.2 | 23.0 | 20.6 | 16.7 | 80 | 69 | 52 |
| Maximum | ***** | 30.4 | 27.0 | 25.5 | 21.6 | 91 | 88 | 79 |
| Minimum | ***** | 20.4 | 18.7 | 16.0 | 10.6 | 66 | 52 | 35 |

Extract of Meteorological Observations for Tuen Mun Automatic Weather Station, November 2011

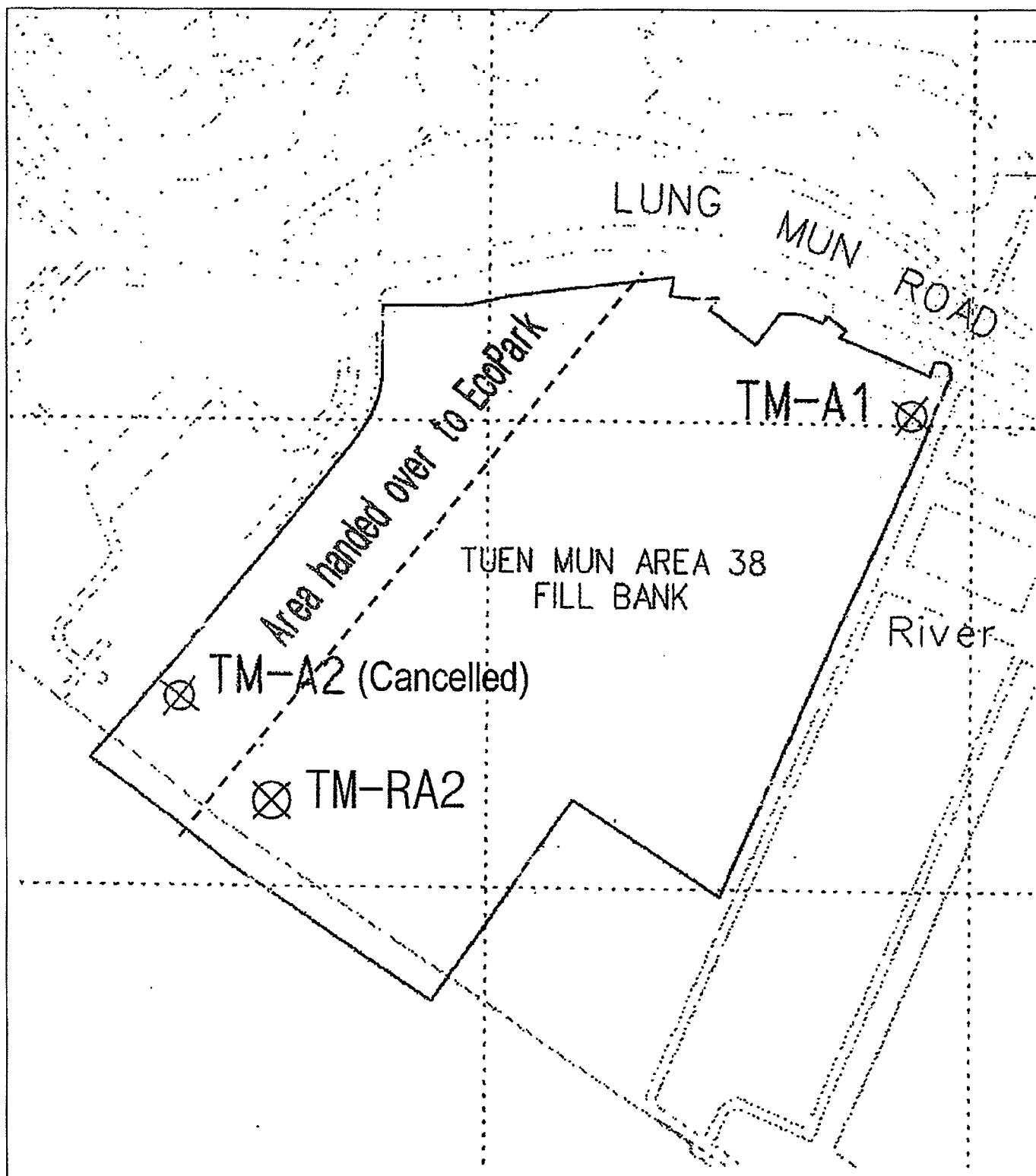
| Date | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|---------|---------------------|-------------------------------------|------------------------|
| Nov 1 | 0.0 | *** | ***** |
| Nov 2 | 0.0 | *** | ***** |
| Nov 3 | 0.0 | *** | ***** |
| Nov 4 | 0.0 | *** | ***** |
| Nov 5 | 0.0 | *** | ***** |
| Nov 6 | 0.0 | *** | ***** |
| Nov 7 | 0.0 | *** | ***** |
| Nov 8 | 18.0 | *** | ***** |
| Nov 9 | 55.0 | *** | ***** |
| Nov 10 | 0.0 | *** | ***** |
| Nov 11 | 0.0 | *** | ***** |
| Nov 12 | 0.0 | *** | ***** |
| Nov 13 | 0.0 | *** | ***** |
| Nov 14 | 0.0 | *** | ***** |
| Nov 15 | 0.0 | *** | ***** |
| Nov 16 | 0.0 | *** | ***** |
| Nov 17 | 9.0 | *** | ***** |
| Nov 18 | 3.5 | *** | ***** |
| Nov 19 | 1.5 | *** | ***** |
| Nov 20 | 0.0 | *** | ***** |
| Nov 21 | 0.0 | *** | ***** |
| Nov 22 | 0.0 | *** | ***** |
| Nov 23 | 0.0 | *** | ***** |
| Nov 24 | 0.0 | *** | ***** |
| Nov 25 | 0.0 | *** | ***** |
| Nov 26 | 0.0 | *** | ***** |
| Nov 27 | 0.0 | *** | ***** |
| Nov 28 | 0.0 | *** | ***** |
| Nov 29 | 0.0 | *** | ***** |
| Nov 30 | 0.0 | *** | ***** |
| Mean | ----- | *** | ***** |
| Total | 87.0 | --- | ----- |
| Maximum | 55.0 | --- | ***** |
| Minimum | 0.0 | --- | ***** |

*** unavailable

missing (less than 24 hourly observations a day)

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Figures

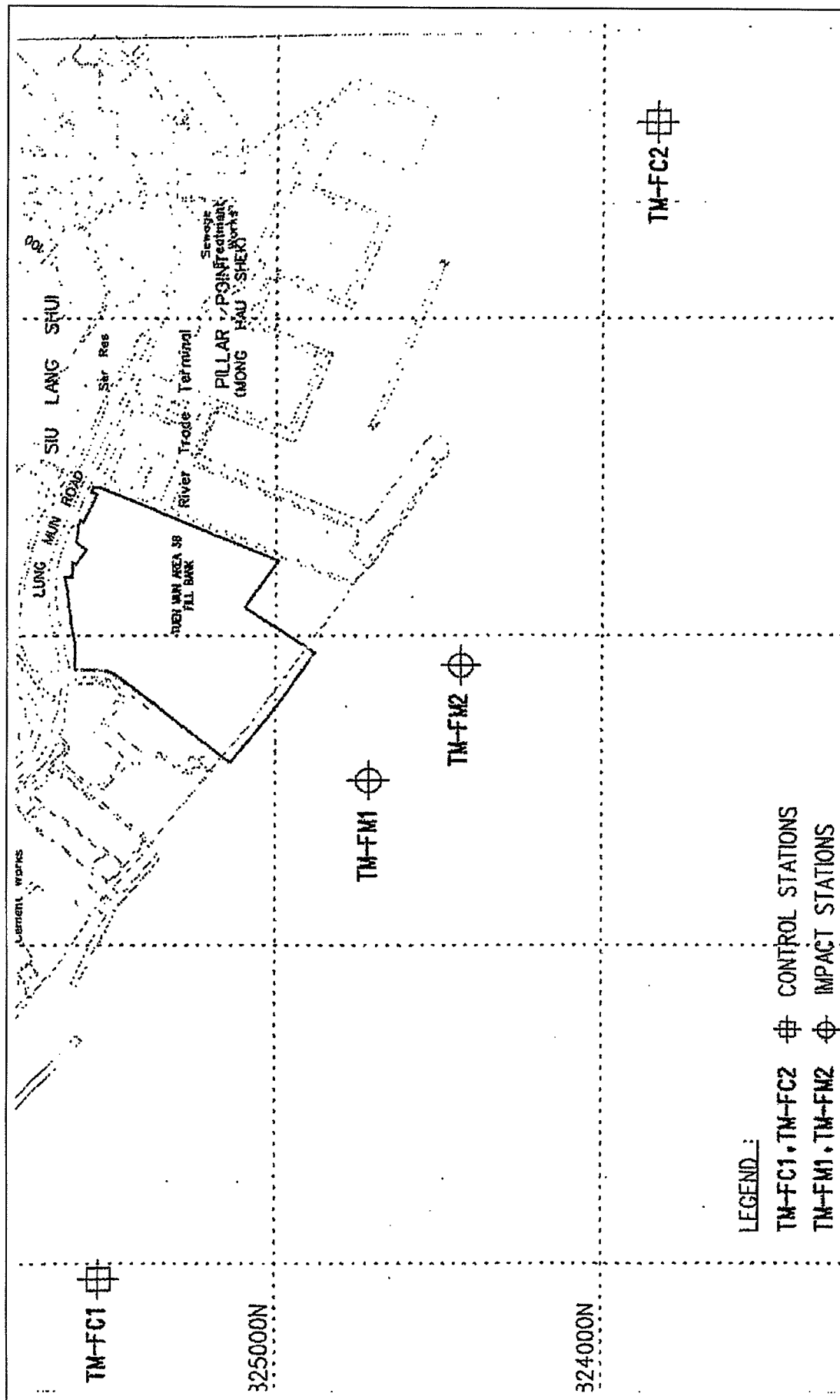


Contract No. CV/2009/02
Handling of Surplus Public Fill

Figure 1
Locations of Air Quality Monitoring Stations –
Tuen Mun Area 38 Fill Bank



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED



Contract No. CV/2009/02

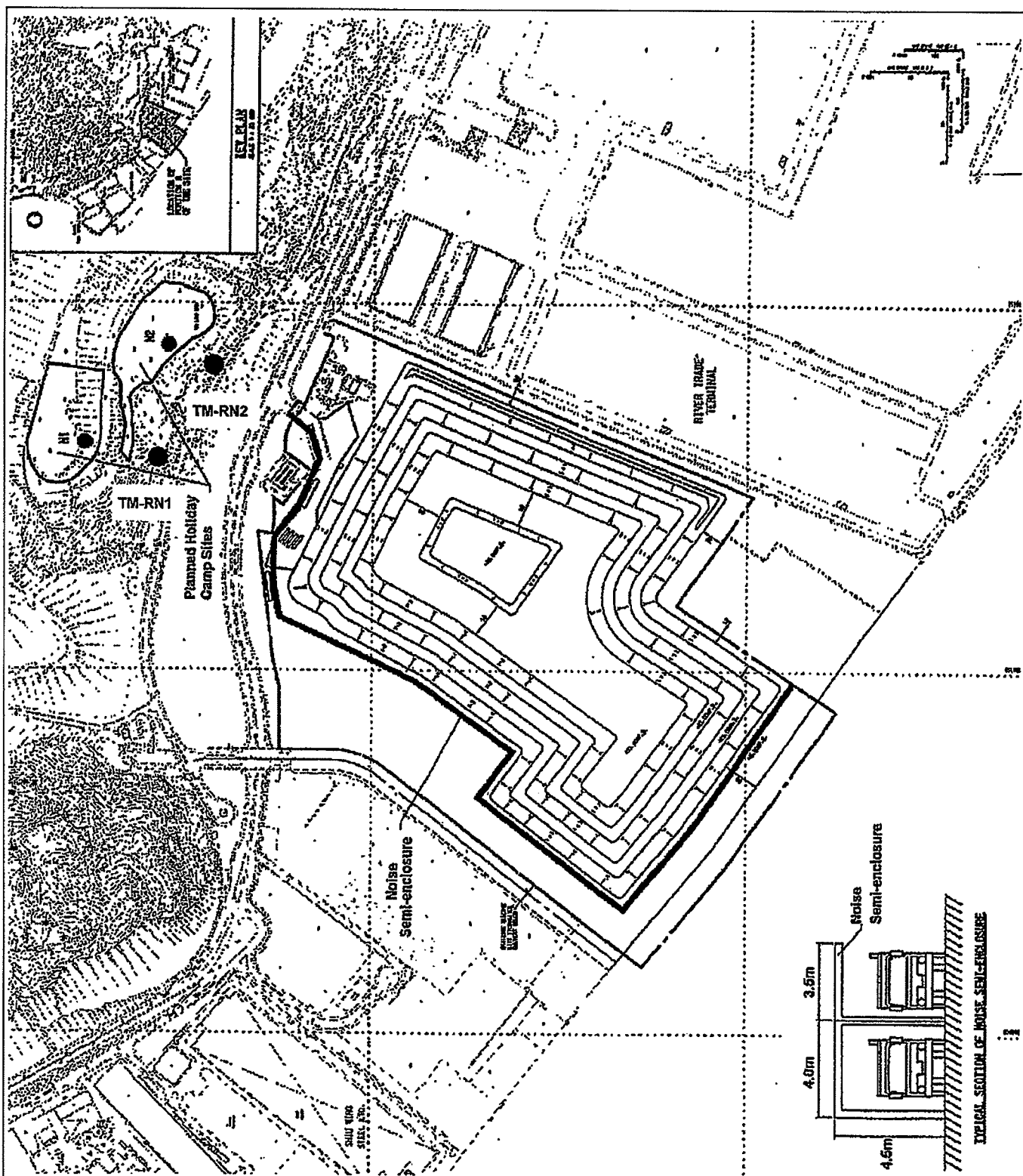
Handling of Surplus Public Fill

Figure 2

Locations of Water Quality Monitoring Station –
Tuén Mun Area 38 Fill Bank



東業德測試顧問有限公司
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Contract No. CV/2009/02
Handling of Surplus Public Fill

Figure 3
Locations of Noise Quality Monitoring Stations –
Tuen Mun Area 38 Fill Bank



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