



CONTRACT NO: HK/2011/07

WANCHAI DEVELOPMENT PHASE II AND CENTRAL  
WANCHAI BYPASS  
SAMPLING, FIELD MEASUREMENT AND TESTING WORK  
(STAGE 2)

ENVIRONMENTAL PERMIT NO. EP-356/2009,  
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-01/356/2009,  
FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009  
AND FEP-05/356/2009

QUARTERLY ENVIRONMENTAL MONITORING  
AND AUDIT REPORT

- MARCH 2012 TO MAY 2012 -

**CLIENTS:**

Civil Engineering and Development  
Department

and

Highways Department

**PREPARED BY:**

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**CHECKED BY:**

Raymond Dai  
Environmental Team Leader

**DATE:**

20 June 2012

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Hong Kong

By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

**Re: Wan Chai Development Phase II and Central-Wan Chai Bypass  
Quarterly Environmental Monitoring and Audit Report (March to May 2012)  
for EP-356/2009, FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-  
04/356/2009 and FEP-05/356/2009**

Reference is made to the Environmental Team's submission of the Quarterly Environmental Monitoring and Audit (EM&A) Report for March to May 2012 dated 20 June 2012.

Please be informed that we have no adverse comment on the captioned submission and thereby write to verify the captioned submission.

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

Yours sincerely,



David Yeung  
Independent Environmental Checker

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	CEDD	Mr. Patrick Keung	by fax: 2577 5040
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**EXECUTIVE SUMMARY**

- i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – **March 2012 to May 2012** prepared for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009. This report presents the environmental monitoring and audit findings and information during the period from **March 2012 to May 2012**. The cut-off date of reporting is at 27<sup>th</sup> of each reporting period.

Construction Activities for the Reported Period

- ii. During this reporting period, the principle work activities for Contract no. HY/2009/11 are summarized as below:

**Table I Principle Work Activities for Contract no. HY/2009/11**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 and the FEP-01/356/2009 was under application of surrender in this reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>• The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 and the FEP-01/356/2009 was under application of surrender in this reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>• Rectifications of rock armour at Portion III.</li> <li>• The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 and the FEP-01/356/2009 was under application of surrender in this reporting period.</li> </ul>

- iii. During this reporting period, the principle work activities for Contract no. HK/2009/01 are summarized as below:

**Table II Principle Work Activities for Contract no. HK/2009/01**

March 2012	April 2012	May 2012
<p><b>Marine Works</b></p> <ul style="list-style-type: none"> <li>• Dredging works within HKCEC water Channel from CH190 to Ch260 for Type 2 sediment</li> <li>• Dredging works within HKCEC Water Channel from CH190 to CH260 for Type 3 sediment</li> <li>• Installation of sheet pile for cooling water intake at Dome Promenade between CH120 and CH170</li> <li>• Seawall reinstatement and retaining wall construction at Wan Chai Lanfill in Zone B1-3</li> </ul>	<p><b>Marine Works</b></p> <ul style="list-style-type: none"> <li>• Dredging works within HKCEC Water Channel from CH190 to CH250 for Type 2 sediment</li> <li>• Installation of sheet pile water channel for cooling water intake at Dome Promenade between CH170 and CH260</li> <li>• Rockfilling for rock bund at HKCEC Water Channel from CH220 to Ch230</li> <li>• Reclamation of HKCEC3W within HKCEC Water Channel</li> <li>• Seawall reinstatement at Wan Chai Landfall in Zone B1-3</li> <li>• Preparation works for demolition of existing seawall</li> </ul>	<p><b>Marine Works</b></p> <ul style="list-style-type: none"> <li>• Installation of sheet pile water channel for cooling water intake at Dome Promenade between CH170 and CH240</li> <li>• Rockfilling for rock bund at HKCEC Water Channel from Ch220 to Ch230</li> <li>• Reclamation of HKCEC3W within HKCEC Water Channel was resumed.</li> <li>• Rock armour protection to the seawall at Wan Chai Landfall in Zone B1-3 was currently in progress.</li> <li>• Dredging from CH290 to CH410 (Stage 3) near Expo</li> </ul>

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>Preparation works for demolition of existing seawall at Expo Drive East including removal of planter and tree transplantation in the vicinity</li> </ul> <p>Cross-harbour  Watermains Installation</p> <ul style="list-style-type: none"> <li>Installation of cross-harbour watermains nos. A16/B16</li> <li>Rockfilling and rock protection for cross-harbour watermains</li> <li>Grouting works at TST seafront along the pipe pile wall</li> <li>Trench excavation and installation of shoring system along the pipe pile wall at TST seafront</li> <li>Dredging works in confined water by 9 in 1 barge</li> </ul> <p>Fresh Watermains, Cooling  Watermains and Salt  Watermains (On Land)</p> <ul style="list-style-type: none"> <li>Mainlaying works at Zone B1-3, B1-6, B4-4, B5-3, A1-1, A2-3C1, A3-3, A3-4B, A3-5B and A4-2A</li> <li>Mainlaying works and subsequent carriageway reinstatement in Zone A2-2 and A1-5A</li> <li>Mainlaying at Zone A3-4B</li> <li>Diversion of underground cables at footpath of Fenwick Pier Street at Aone A3-3 Mainlaying works at Heading No. 5 and Zone A1-4A and subsequent road reinstatement works</li> <li>Mainlaying Works at Zone A2-3C1 and subsequent road reinstatement work</li> <li>Cable ducting works along Convention Avenue footpath</li> <li>Cable ducting works along Fleming Road footpath</li> <li>Cable ducting works along Harbour Road footpath</li> <li>Heading No. H7 and H8 (mainlaying works by trenchless method)</li> <li>Mainlaying and chamber</li> </ul>	<p>at Expo Drive East including removal of planter and tree transplantation in the vicinity</p> <p>Cross-Harbour  Watermains Installation (CHA &amp; CHB) and Marine Works (at TST)</p> <ul style="list-style-type: none"> <li>Installation of cross-harbour watermains nos. A17/B17</li> <li>Rockfilling and rock protection to cross-harbour watermains</li> <li>Trench excavation, installation of shoring system and trimming obstructions (mini-piles) for a 1000 dia. Cross Harbour Watermains (CHB) along the pipe pile wall at TST seashore</li> <li>Trench excavation and installation of shoring system for a 1000 dia. Cross Harbour Watermains (CHA) along the pipe pile wall at TST seashore</li> </ul> <p>Fresh Watermains,  Cooling Watermains and Salt  Watermains (On Land)</p> <ul style="list-style-type: none"> <li>Mainlaying works at Zone B1-6, B4-3, B4-4, B5-1B, B5-3, A1-1, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A</li> <li>Mainlaying works and subsequent reinstatement in Zone B1-3</li> <li>Mainlaying works at Zone B4-3 and Zone A2-2</li> <li>Road modification works (set back road kerb of central divider) at Expo Drive</li> <li>Mainlaying works and subsequent carriageway reinstatement in Zone A2-3C1 and A1-4A</li> <li>Diversion of underground cables at footpath of Fenwick Pier Street at Zone A3-3</li> <li>Cable ducting works along Convention Avenue, Fleming Road, Harbour Road and Fenwick Street</li> <li>Heading No. H7 (Mainlaying works by trenchless method)</li> <li>Mainlaying Works at Heading No. 8 and Zone A1-5A1</li> <li>Mainlaying and chamber construction works at the</li> </ul>	<p>Drive East Bridge was substantially completed.</p> <ul style="list-style-type: none"> <li>Preparation works for demolition of existing seawall at Expo Drive East including removal of existing staircase in the vicinity was commenced.</li> </ul> <p>Cross-Harbour  Watermains Installation (CHA &amp; CHB)</p> <ul style="list-style-type: none"> <li>Concrete coating at flange joint of cross-harbour watermains nos. A13B13/A14B14, A14B14/A15B15 and A15B15/A16B16</li> <li>Rockfilling and rock protection to cross-harbour watermains.</li> <li>Trench excavation, installation of shoring system and trimming obstructions (mini-piles) for a 1000 dia. cross harbour watermains (CHB) along the pipe pile wall at TST seashore</li> <li>Trench excavation and installation of shoring system for a 1000 dia. Cross Harbour Watermains (CHA) along the pipe pile wall at TST seashore</li> <li>Removal of existing seawall at TST seashore for installation of cross harbour watermains (CHA)</li> </ul> <p>Fresh Watermains,  Cooling Watermains and Salt  Watermains (On Land)</p> <ul style="list-style-type: none"> <li>Mainlaying works at Zone B1-5A, B2-1, B4-3, B4-4, B5-1A, A1-1, A1-3, A1-3A, A1-3B, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A</li> <li>Mainlaying works and subsequent carriageway reinstatement in Zone B1-6 and Zone A1-5A1</li> <li>Mainlaying works at Zone B1-5A and B2-1</li> <li>Mainlaying works at Zone A1-3 and excavation for jacking pit at Zone A1-3B</li> <li>Trench excavation for cable &amp;</li> </ul>

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street</li> <li>Trench excavation, pipe laying works and chamber construction for a 1000 dia. watermains (CHF) at Salisbury Garden</li> <li>Trench excavation, pipe laying works and chamber construction for a 1000 dia. watermains (CHE) at Salisbury Garden</li> <li>Pipe installation by trenchless method across the EVA near Salisbury Garden</li> </ul>	<ul style="list-style-type: none"> <li>traffic island near junction of Convention Avenue and Fenwick Pier Street</li> <li>Pipe installation of a 1000 dia. Watermains (CHF) by trenchless method across the EVA near Salisbury Garden</li> <li>EVA near Salisbury Garden was commenced. Excavation of a 7m tunnel across the EVA</li> <li>Pipe installation of a 1000 dia. Watermains (CHE) by trenchless method across the EVA near Salisbury Garden</li> </ul>	<ul style="list-style-type: none"> <li>G.I. Ducting works at Zone B5-1A</li> <li>Gate valves connection works for intake and discharge cooling mains of APA at Zone A2-2</li> <li>Gate valves connection works for intake cooling mains of Government's Offices at Zone A4-1</li> <li>Diversion of underground cables at footpath of Fenwick Pier Street at Zone A3-3</li> <li>Heading No. H7 (Mainlaying works by trenchless method).</li> <li>Excavation for jacking pit for pipe laying works by heading method along Convention Avenue at Zone A1-3A.</li> <li>Heading No. H6A</li> <li>Heading No. 8</li> <li>Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street</li> <li>Cable ducting works along Convention Avenue</li> <li>Cable ducting works along Harbour Road</li> <li>Cable ducting works at Fenwick Street</li> <li>Trench excavation, pipe laying works and chamber construction for a 1000 dia. Watermains (CHF) at Salisbury Garden</li> <li>Trench excavation, pipe laying works and chamber construction for a 1000 dia. Watermains (CHE) at Salisbury Garden</li> <li>Pipe installation of a 1000 dia. Watermains (CHE) by trenchless method across the EVA near Salisbury Garden</li> </ul>

iv. During this reporting period, the principle work activities for Contract no. HK/2009/02 are summarized as below:

**Table III Principle Work Activities for Contract no. HK/2009/02**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>300mm thick topping slab at southern portion and helipad</li> </ul>	<ul style="list-style-type: none"> <li>300mm thick topping slab</li> <li>T&amp;C of Foam system at</li> </ul>	<ul style="list-style-type: none"> <li>Remaining works along EVA</li> <li>E&amp;M installation works of P7,</li> </ul>



March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>slab</li> <li>• Lighting installation at Helipad</li> <li>• Panel of Safety Net at Helipad</li> <li>• Hydraulics pipe and hydraulics pump installation</li> <li>• ABWFs and E&amp;M works of Passenger Terminal Building (PTB)</li> <li>• Installation of glass wall at PTB</li> <li>• Drilling hole of holding down bolt on existing pier deck at Noise Barrier NB2</li> <li>• Concreting the footing of Noise Barrier NB1</li> <li>• Concreting the drain pipe (150mm dia.) from manhole N7.3 to N1.2 and manhole N7.3 wall stem and top slab of EVA at Expo Drive East</li> <li>• Breaking up the cover walkway footing of EVA at Expo Drive East</li> <li>• E&amp;M works of P7, P8 &amp; P9</li> <li>• -0.85mPD steel platform of P7, P8 &amp; P9 installation</li> <li>• +1.35mPD and -0.85mPD steel platform substantially completed at P7, P8 &amp; P9 and handover to E &amp; M Team for next stage of work.</li> <li>• Wet Well penstock installation substantially was ongoing at P7, P8 &amp; P9 and commences to install the traveling band screen.</li> <li>• 36 concrete pipes of DSD pipe jacking drive in TBM</li> <li>• Annulus chemical grout surrounding the steel sleeve</li> <li>• Excavation and lateral support of the Jacking pit at ex-pet garden for the cooling mains construction across HHR.</li> <li>• Approximate 60m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.</li> <li>• Approximate 15m cable duct was laid at Harbour Road and Tonnochy Road.</li> <li>• Casting of slab above HEC room @ +9.17mPD for the</li> </ul>	<ul style="list-style-type: none"> <li>Helipad</li> <li>• T&amp;C of Safety net panel installation at Helipad</li> <li>• ABWF and E&amp;M final fixing of Passenger Terminal Building (PTB)</li> <li>• Lighting system at Helipad</li> <li>• Louvers and touch up works of steel columns of Noise Barrier 1 &amp; Noise Barrier 2</li> <li>• Placing of paving block along EVA</li> <li>• GFS handover and Fire services inspection</li> <li>• E&amp;M installation works of P7, P8 &amp; P9</li> <li>• Respectively as of 20 April 2012. Self-testing of the individual systems</li> <li>• -0.85mPD steel platform of P7 and the installation at P8 &amp; P9</li> <li>• Wet Well penstock installation at P7, P8 &amp; P9 and install the traveling band screen</li> <li>• The TBM retrieval of the DSD 2nd drive</li> <li>• Approximate 65m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.</li> <li>• Combined chamber for SHK at ex-pet garden</li> <li>• Approximate 8m cable duct was laid at Harbour Road and Tonnochy Road.</li> <li>• Heading construction at ex-pet garden was completed for the cooling mains installation across Convention Avenue.</li> <li>• ABWFs and E&amp;M installation at the TX room of the WSD Salt Water Pumping Station</li> <li>• Installation and welding for 3rd layer of walings and struts for construction of intake culvert Bay 19B at Wan Shing Street</li> <li>• Sand backfilling works and dewatering at Wan Shing Street Bay 24</li> <li>• ELS of 3rd layer (-1.5mPD) struts &amp; walings of salt water intake landside cofferdam</li> <li>• ELS of 2nd layer (+0.5mPD)</li> </ul>	<ul style="list-style-type: none"> <li>P8 &amp; P9</li> <li>• Concreting of thrust blocks in P8 dry well</li> <li>• Install the motor of the band screen at wet well of P8 was ongoing and P9</li> <li>• The TBM breaking-in of the WSD 2nd drive</li> <li>• Approximate 35m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.</li> <li>• Combined chamber for SHK at ex-pet garden</li> <li>• Approximate 10m cable duct was laid at Harbour Road and Tonnochy Road.</li> <li>• Casting of final slab at +15.71 mPD for the WSD Salt Water Pumping Station.</li> <li>• HEC Switch Room of the WSD Salt Water Pumping Station</li> <li>• ABWFs and E&amp;M installation at the TX room of the WSD Salt Water Pumping Station</li> <li>• Installation and welding for 4th layer of walings and struts for construction of intake culvert Bay 19B at Wan Shing Street</li> <li>• Dewatering at Wan Shing Street Bay 24 for opening in sheetpile cofferdam</li> <li>• ELS of 3rd layer (-1.5mPD) struts &amp; walings of salt water intake landside cofferdam</li> <li>• ELS of 2nd layer (+0.5mPD) struts &amp; walings of salt water intake seaside cofferdam</li> <li>• Remedial works of hole drilling for grouting to avoid seepage outside the salt water intake seaside cofferdam</li> <li>• ELS of 3rd layer (-2.0mPD) struts &amp; walings of Submarine Outfall Seaside Cofferdam</li> <li>• Removal of formwork for slab and beam high portion 1A</li> <li>• Concreting of pile cap low portion 2A1, sloping tie beam, tie beam between 2A1 to 2A2 and 2A1 to 1A</li> <li>• Concreting of slab and beam</li> </ul>

March 2012	April 2012	May 2012
<p>WSD Salt Water Pumping Station.</p> <ul style="list-style-type: none"> <li>Excavation for installation of 3rd layer (-1.5mPD) struts &amp; wailings for shoring system of 610 pipe pile wall landside cofferdam of salt water intake culvert.</li> <li>Excavation for installation of 2nd layer (+0.5mPD) struts &amp; wailings for shoring system of salt water intake culvert Seaside Cofferdam.</li> <li>Dismantle of temporary water tank at Portion 1A was in progress. Installation of temporary water tank for construction of pile caps &amp; beams at Portion 1A.</li> <li>Fabrication of temporary water tank at Portion 2A &amp; 2B formwork and re-bars fixing for lower portion caps and beams at Portion 1A of New Ferry Pier.</li> <li>Installation of temporary water tank for construction of pile caps &amp; beams at Portion 2B.</li> <li>Welding of steel supports at Portion 2C of the New Ferry Pier.</li> <li>Backfilling on the HDPE pipelines at diffuser section between CH0 &amp; CH150</li> <li>Excavation for installation of 3rd layer (-2.0mPD) struts &amp; wailings for shoring system of Submarine Outfall Seaside Cofferdam</li> <li>Installation of Temporary Decking Platform "C"</li> </ul>	<p>struts &amp; walings of salt water intake seaside cofferdam</p> <ul style="list-style-type: none"> <li>ELS of 3rd layer (-2.0mPD) struts &amp; walings of Submarine Outfall Seaside Cofferdam was in progress.</li> <li>Portion 1A – upper caps &amp; beams construction</li> <li>Portion 2A – 2A3 &amp; 2A2 upper caps and beams formwork</li> <li>Portion 2B – 2B3 &amp; 2B2 upper caps and beams formwork</li> <li>Portion 2C</li> <li>Portion 3C – 3C1 &amp; 3C2 water tank installed sealing and 3C3 is under fabrication</li> <li>Backfilling on the HDPE pipelines at diffuser section between CH0 &amp; CH150</li> <li>Approximate 8m DN800 MS pipe installation near Gate 1 at ex-pet garden</li> <li>Trial dredging works of WCR2</li> <li>Piping diversion at WCR2</li> <li>Pre-bored H-piles construction at Box Culvert O and divert HHR traffic to small pet garden</li> <li>Installation of precast beam, central beam and excavation works at Box Culvert O</li> </ul>	<p>high portion 2A3, 2B1 and 2B2 (+3.15mPD to +3.75mPD) at Ferry Pier</p> <ul style="list-style-type: none"> <li>Removal of formwork of slab and beam high portion 2B1, 2B2 and 2B3 (+4.15mPD)</li> <li>Erection of formwork for pile cap low portion 3B at Ferry Pier</li> <li>Dewatering and fixing of steel water tank for construction of pile cap at portion 3A and 3C2 at Ferry Pier</li> <li>Approximate 5m DN800 MS pipe installation near Gate 1 at ex-pet garden</li> <li>Piping diversion at WCR2</li> <li>Excavation works and utilities diversion at Box Culvert O</li> <li>Permanent precast beam and central beam for Box Culvert O diversion</li> </ul>

- v. Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principle work activities for Contract no. HY/2009/15 are summarized as below:

**Table IV Principle Work Activities for Contract no. HY/2009/15**

March 2012	April 2012	May 2012
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March 2012	April 2012	May 2012
<ul style="list-style-type: none"><li>• Reclamation works at TS4/ME4</li><li>• Diaphragm wall construction preparation works at TS4</li><li>• Marine SI at TS2</li><li>• ELS works at TS1 and TPCWAE</li><li>• Night time protection works at CHT</li><li>• Cut off wall preparation works at Hung Hing Road and POC</li></ul>	<ul style="list-style-type: none"><li>• Dredging for seawall foundation at TS2</li></ul>	<ul style="list-style-type: none"><li>• Dredging for seawall foundation at TS2</li></ul>

- vi. Contract no. HK/2010/06 was commenced on 22 March 2011. During this reporting period, the principle work activities for Contract no. HK/2010/06 are summarized as below:

**Table V Principle Work Activities for Contract no. HK/2010/06**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• Excavation of bored piles</li> <li>• Concreting of bored piles</li> <li>• Coring Works</li> <li>• Sheet Piles</li> <li>• Construction of Pre-cast Unit in China</li> </ul>	<ul style="list-style-type: none"> <li>• Excavation of bored piles</li> <li>• Concreting of bored piles</li> <li>• Coring Works</li> <li>• Sheet Piles</li> <li>• Construction of Pre-cast Unit in China</li> </ul>	<ul style="list-style-type: none"> <li>• Excavation of bored piles</li> <li>• Concreting of bored piles</li> <li>• Coring Works</li> <li>• Sheet Piles</li> <li>• Construction of Pre-cast Unit in China</li> </ul>

- vii. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principle work activities for Contract no. HY/2009/19 are summarized as below:

**Table VI Principle Work Activities for Contract no. HY/2009/19**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• Marine bored piling</li> </ul>	<ul style="list-style-type: none"> <li>• Marine bored piling</li> </ul>	<ul style="list-style-type: none"> <li>• Marine bored piling</li> </ul>

Noise Monitoring

- viii. Noise monitoring during day time and evening time were conducted at the M1a, M2b, M3a, M4b and M5b on a weekly basis in the reporting period. The Action and Limit level exceedances recorded in the reporting period are listed below. Investigation found that exceedances were not related to the Project. Investigation found that exceedances were not related to the Project.
- ix. Due to adverse weather condition, the noise monitoring at the following stations were rescheduled:  
M4b: From 17 Apr 2012 to 20 Apr 2012  
M5b: From 17 Apr 2012 to 20 Apr 2012  
M6: From 17 Apr 2012 to 20 Apr 2012
- x. Six limit level exceedances were recorded at M6 on 28 February 2012, 13, 27 March 2012, 2, 30 April 2012 and 16 May 2012 during this reporting month.
- xi. One Action Level exceedance was recorded due to the receipt of noise complaint on 5 April 2012.

Real-time Noise Monitoring

- xii. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre have been commenced on 5 October 2010 for the filling works of Contract no. HY/2009/11. No project-related exceedance was recorded in the reporting period.

Air Quality Monitoring

- xiii. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b – Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.

- xiv. Due to lack of electric supply, the 24-hr TSP monitoring at the following stations were rescheduled as below:
- CMA1b: from 13 Mar 2012 to 14 Mar 2012  
from 8 May 2012 to 9 May 2012
  - CMA3a: from 24 Mar 2012 to 26 Mar 2012  
from 16 and 20 Apr 2012 to 17 and 24 Apr 2012
  - CMA5a: from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012
  - CMA6a: from 20 Apr 2012 to 21 Apr 2012  
from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012
- xv. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5a and CMA6a in the reporting period. No exceedance was recorded during the reporting period.
- xvi. The odour patrol along the odour route with 8 sniffing locations was conducted by a qualified odour patrol member. There was no odour patrol in this reporting period.

#### Water Quality Monitoring

- xvii. Water quality monitoring was conducted at 16 monitoring stations namely WSD7, WSD9, WSD17, WSD19, WSD20, WSD 21, C1, C2, C3, C4e, C4w, C5e, C5w, C7, C8 and C9 during the reporting period.
- xviii. Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water monitoring on 16, 20 and 27 April 2012 were cancelled.
- xix. Total 14 turbidity exceedances and 15 SS exceedances were recorded during mid-flood while 1 DO exceedance, 7 turbidity exceedances and 6 SS exceedances were recorded during mid-ebb in the reporting period. Investigations were found that all exceedances were not related to the Project works. The details of the recorded exceedances can be referred to the Section 5.4.
- xx. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. There were 1 DO exceedance during mid-flood and 3 DO exceedances during mid-ebb recorded in this reporting period.
- xxi. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- xxii. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and was completed on 6 Feb 2012 water quality monitoring.
- xxiii. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;

- xxiv. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- xxv. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- xxvi. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- xxvii. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- xxviii. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.

#### Complaints, Notifications of Summons and Successful Prosecutions

- xxix. [There was one environmental complaint recorded in the reporting period.](#)

## 1. INTRODUCTION

### 1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).

1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.4 of EM&A Manual and “*Environmental Monitoring and Audit Requirements*” under Particular Specification Section 27.

1.1.3. This report documents the finding of EM&A works during the period from [March 2012 to May 2012](#)

### 1.2 Structure of the Report

**Section 1**      ***Introduction*** – details the scope and structure of the report.

**Section 2**      ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

**Section 3**      ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring locations, monitoring frequency, duration and action plan.

**Section 4**      ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.

**Section 5**      ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.

**Section 6**      ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution

**Section 7**      ***Cumulative Construction Impact due to the Concurrent Projects*** – summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

**Section 8**      ***Conclusion***

## 2. PROJECT BACKGROUND

### 2.1 Background

- 2.1.1. “Wan Chai Development phase II and Central-Wan Chai Bypass” and “Central-Wan Chai Bypass and Island Eastern Corridor Link” (hereafter called “the Project”) are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

### 2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in **Figure 2.1**.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
- Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
  - Re-provisioning / protection of the existing facilities and structures affected by the land formation works mentioned above



- Extension, modification, re-provisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above
- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.

2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. **Table 2.1** summarises the five individual DPs under this Project. **Figure 2.1** shows the locations of these Schedule 2 DPs.

**Table 2.1 Schedule 2 Designated Projects under this Project**

Item	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross-harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

### 2.3 Division of the Project Responsibility

2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.

2.3.2. The details of individual contracts are summarized in **Table 2.2**.

**Table 2.2 Details of Individual Contracts under the Project**

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010 (Under application of surrender)
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011

## 2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in **Figure 2.2**. Key personnel and contact particulars are summarized in **Table 2.3**:

**Table 2.3 Contact Details of Key Personnel**

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829



Party	Role	Post	Name	Contact No.	Contact Fax
China Harbour-CRBC Joint Venture	Contractor under Contract no. HY/2009/11	Project Director	Mr. Cho Yu Fun	3157 1086	3157 1085
		Project Manager	Mr. Gregory Wong	3157 1086	
		Site Agent	Mr. Daniel Cheung	3157 1086	
		Environmental Officer	Mr. C. M. Wong	3157 1086	
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Director	Mr. PL Yue	9124 2471	2634 1626
		Site Agent	Mr. Paul Yu	9456 9819	
		Operation Manager	Mr. Lau Yee Ching	9466 3918	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Jack Chu	9775 3008	
		Construction Manager	Mr. KK Yuen Mr. Andy Yu	9498 1213 96484896	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Site Agent	Mr. Chan Sing Cho	3658 3002	2827 9996
		Quality & Environmental Manager	Mr. C.P. Ho	3658 3000	
		Environmental Officer	Ms. Flora Ng	3658 3064	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Chan Wai Hung	2823 7813	2865 5229
		Site Manager	P J Fan	3557 6368	2566 2192
		Contractor's Representative	Mr. David Lau	3557 6368	2566 2192
		Head of Construction Manager	Roger Cheung	3557 6371	2566 2192
		Senior Construction Manager	Gene Cheung	3557 6395	2566 2192
		Environmental Officer	Mr. Daniel Sin	3557 6215	
Gammon	Contractor under	Project	Mr. Paul Lui	9095 7922	2529 2880

Party	Role	Post	Name	Contact No.	Contact Fax
-Leader JV Chun Wo - CRGL - MBEC Joint Venture	Contract no. HK/2010/06	Manager			2570 8013
		Site Agent	Mr. Keith Tse	2529 2068	
	Contractor under Contract no. HY/2009/19	Environmental Officer	Mr. Lee Wai Man	9481 6024	
		Project Manager	Mr. Rayland Lee	3758 8879	
		Site Agent	Mr. Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Mr. Simon Wong	9281 4346	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Construction Manager (Marine)	William Luk	9610 1101	
		Construction Manager (Land)	Patrick Cheung	9643 3012	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

## 2.5 Principle Work and Activities

2.5.1. During this reporting period, the principle work activities for Contract no. HY/2009/11 are summarized in **Table 2.4**.

**Table 2.4 Principle Work Activities for Contract no. HY/2009/11**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 and the FEP-01/356/2009 was under application of surrender in this reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 and the FEP-01/356/2009 was under application of surrender in this reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>Rectifications of rock armour at Portion III</li> <li>The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 and the FEP-01/356/2009 was under application of surrender in this reporting period.</li> </ul>

2.5.2. During this reporting period, the principle work activities for Contract no. HK/2009/01 are summarized in **Table 2.5**.

**Table 2.5 Principle Work Activities for Contract no. HK/2009/01**

March 2012	April 2012	May 2012
<p>Marine Works</p> <ul style="list-style-type: none"> <li>Dredging works within HKCEC water Channel from CH190 to Ch260 for Type 2 sediment</li> <li>Dredging works within HKCEC Water Channel from CH190 to CH260 for Type 3 sediment</li> <li>Installation of sheet pile for cooling water intake at Dome Promenade between CH120 and CH170</li> <li>Seawall reinstatement and retaining wall construction at Wan Chai Lanfill in Zone B1-3</li> <li>Preparation works for demolition of existing seawall at Expo Drive East including removal of planter and tree transplantation in the vicinity</li> </ul> <p>Cross-harbour</p> <p>Watermains Installation</p> <ul style="list-style-type: none"> <li>Installation of cross-harbour watermains nos. A16/B16</li> <li>Rockfilling and rock protection for cross-harbour watermains</li> <li>Grouting works at TST seafront along the pipe pile wall</li> <li>Trench excavation and installation of shoring system along the pipe pile wall at TST seafront</li> <li>Dredging works in confined water by 9 in 1 barge</li> </ul> <p>Fresh Watermains, Cooling</p> <p>Watermains and Salt</p> <p>Watermains (On Land)</p> <ul style="list-style-type: none"> <li>Mainlaying works at Zone B1-3, B1-6, B4-4, B5-3, A1-1, A2-3C1, A3-3, A3-4B, A3-5B and A4-2A</li> <li>Mainlaying works and subsequent carriageway reinstatement in Zone A2-2 and A1-5A</li> </ul>	<p>Marine Works</p> <ul style="list-style-type: none"> <li>Dredging works within HKCEC Water Channel from CH190 to CH250 for Type 2 sediment</li> <li>Installation of sheet pile water channel for cooling water intake at Dome Promenade between CH170 and CH260</li> <li>Rockfilling for rock bund at HKCEC Water Channel from CH220 to Ch230</li> <li>Reclamation of HKCEC3W within HKCEC Water Channel</li> <li>Seawall reinstatement at Wan Chai Landfall in Zone B1-3</li> <li>Preparation works for demolition of existing seawall at Expo Drive East including removal of planter and tree transplantation in the vicinity</li> </ul> <p>Cross-Harbour</p> <p>Watermains Installation (CHA &amp; CHB) and Marine Works (at TST)</p> <ul style="list-style-type: none"> <li>Installation of cross-harbour watermains nos. A17/B17</li> <li>Rockfilling and rock protection to cross-harbour watermains</li> <li>Trench excavation, installation of shoring system and trimming obstructions (mini-piles) for a 1000 dia. Cross Harbour Watermains (CHB) along the pipe pile wall at TST seashore</li> <li>Trench excavation and installation of shoring system for a 1000 dia. Cross Harbour Watermains (CHA) along the pipe pile wall at TST seashore</li> </ul> <p>Fresh Watermains, Cooling</p> <p>Watermains and Salt</p> <p>Watermains (On Land)</p> <ul style="list-style-type: none"> <li>Mainlaying works at Zone B1-6, B4-3, B4-4, B5-1B, B5-3, A1-1, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A</li> <li>Mainlaying works and subsequent reinstatement in Zone B1-3</li> </ul>	<p>Marine Works</p> <ul style="list-style-type: none"> <li>Installation of sheet pile water channel for cooling water intake at Dome Promenade between CH170 and CH240</li> <li>Rockfilling for rock bund at HKCEC Water Channel from Ch220 to Ch230</li> <li>Reclamation of HKCEC3W within HKCEC Water Channel</li> <li>Rock armour protection to the seawall at Wan Chai Landfall in Zone B1-3</li> <li>Dredging from CH290 to CH410 (Stage 3) near Expo Drive East Bridge</li> <li>Preparation works for demolition of existing seawall at Expo Drive East including removal of existing staircase in the vicinity</li> </ul> <p>Cross-Harbour</p> <p>Watermains Installation (CHA &amp; CHB)</p> <ul style="list-style-type: none"> <li>Concrete coating at flange joint of cross-harbour watermains nos. A13B13/A14B14, A14B14/A15B15 and A15B15/A16B16</li> <li>Rockfilling and rock protection to cross-harbour watermains</li> <li>Trench excavation, installation of shoring system and trimming obstructions (mini-piles) for a 1000 dia. cross harbour watermains (CHB) along the pipe pile wall at TST seashore</li> <li>Trench excavation and installation of shoring system for a 1000 dia. Cross Harbour Watermains (CHA) along the pipe pile wall at TST seashore</li> <li>Removal of existing seawall at TST seashore for installation of cross harbour watermains (CHA)</li> </ul> <p>Fresh Watermains, Cooling</p> <p>Watermains and Salt</p>

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• Mainlaying at Zone A3-4B</li> <li>• Diversion of unferground cables at footpath of Fenwick Pier Street at Aone A3-3 Mainlaying works at Heading No. 5 and Zone A1-4A and subsequent road reinstatement works</li> <li>• Mainlaying Works at Zone A2-3C1 and subsequent road reinstatement work</li> <li>• Cable ducting works along Convention Avenue footpath</li> <li>• Cable ducting works along Fleming Road foopath</li> <li>• Cable ducting works along Harbour Road footpath</li> <li>• Heading No. H7 and H8 (mainlaying woks by trenchless method)</li> <li>• Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street</li> <li>• Trench excavation, pipe layig works and chamber construction for a 1000 dia. watermains (CHF) at Salisbury Garden</li> <li>• Trench excavation, pipe laying works and chamber construction for a 1000 dia. watermains (CHE) at Salisbury Garden</li> <li>• Pipe installation by trenchless method across the EVA near Salisbury Garden</li> </ul>	<ul style="list-style-type: none"> <li>• Mainlaying works at Zone B4-3 and Zone A2-2</li> <li>• Road modification works (set back road kerb of central divider) at Expo Drive</li> <li>• Mainlaying works and subsequent carriageway reinstatement in Zone A2-3C1 and A1- 4A</li> <li>• Diversion of underground cables at footpath of Fenwick Pier Street at Zone A3-3</li> <li>• Cable ducting works along Convention Avenue, Fleming Road, Harbour Road and Fenwick Street</li> <li>• Heading No. H7 (Mainlaying works by trenchless method)</li> <li>• Mainlaying Works at Heading No. 8 and Zone A1-5A1</li> <li>• Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street</li> <li>• Pipe installation of a 1000 dia. Watermains (CHF) by trenchless method across the EVA near Salisbury Garden</li> <li>• EVA near Salisbury Garden was commenced. Excavation of a 7m tunnel across the EVA</li> <li>• Pipe installation of a 1000 dia. Watermains (CHE) by trenchless method across the EVA near Salisbury Garden</li> </ul>	<p>Watermains (On Land)</p> <ul style="list-style-type: none"> <li>• Mainlaying works at Zone B1-5A, B2-1, B4-3, B4-4, B5-1A, A1-1, A1-3, A1-3A, A1-3B, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A</li> <li>• Mainlaying works and subsequent carriageway reinstatement in Zone B1-6 and Zone A1-5A1</li> <li>• Mainlaying works at Zone B1-5A and B2-1</li> <li>• Mainlaying works at Zone A1-3 and excavation for jacking pit at Zone A1-3B</li> <li>• Trench excavation for cable &amp; G.I. Ducting works at Zone B5-1A</li> <li>• Gate valves connection works for intake and discharge cooling mains of APA at Zone A2-2</li> <li>• Gate valves connection works for intake cooling mains of Government<sup>o</sup> s Offices at Zone A4-1</li> <li>• Diversion of underground cables at footpath of Fenwick Pier Street at Zone A3-3</li> <li>• Heading No. H7 (Mainlaying works by trenchless method)</li> <li>• Excavation for jacking pit for pipe laying works by heading method along Convention Avenue at Zone A1-3A</li> <li>• Heading No. H6A and No. 8</li> <li>• Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street</li> <li>• Cable ducting works along Convention Avenue</li> <li>• Cable ducting works along Harbour Road</li> <li>• Cable ducting works at Fenwick Street</li> <li>• Trench excavation, pipe laying works and chamber construction for a 1000 dia. Watermains (CHF) at Salisbury Garden</li> <li>• Trench excavation, pipe laying woks and chamber construction for a 1000 dia. Watermains (CHE) at Salisbury Garden</li> </ul>

March 2012	April 2012	May 2012
		<ul style="list-style-type: none"> <li>• Pipe installation of a 1000 dia. Watermains (CHE) by trenchless method across the EVA near Salisbury Garden</li> </ul>

2.5.3. During this reporting period, the principle work activities for Contract no. HK/2009/02 are summarized in **Table 2.6**.

**Table 2.6 Principle Work Activities for Contract no. HK/2009/02**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• 300mm thick topping slab at southern portion and helipad slab</li> <li>• Lighting installation at Helipad</li> <li>• Panel of Safety Net at Helipad</li> <li>• Hydraulics pipe and hydraulics pump installation</li> <li>• ABWFs and E&amp;M works of Passenger Terminal Building (PTB)</li> <li>• Installation of glass wall at PTB</li> <li>• Drilling hole of holding down bolt on existing pier deck at Noise Barrier NB2</li> <li>• Concreting the footing of Noise Barrier NB1</li> <li>• Concreting the drain pipe (150mm dia.) from manhole N7.3 to N1.2 and manhole N7.3 wall stem and top slab of EVA at Expo Drive East</li> <li>• Breaking up the cover walkway footing of EVA at Expo Drive East</li> <li>• E&amp;M works of P7, P8 &amp; P9</li> <li>• -0.85mPD steel platform of P7, P8 &amp; P9 installation</li> <li>• +1.35mPD and -0.85mPD steel platform substantially completed at P7, P8 &amp; P9 and handover to E &amp; M Team for next stage of work.</li> <li>• Wet Well penstock installation substantially was ongoing at P7, P8 &amp; P9 and commences to install the traveling band screen.</li> <li>• 36 concrete pipes of DSD pipe jacking drive in TBM</li> <li>• Annulus chemical grout</li> </ul>	<ul style="list-style-type: none"> <li>• 300mm thick topping slab</li> <li>• T&amp;C of Foam system at Helipad</li> <li>• T&amp;C of Safety net panel installation at Helipad</li> <li>• ABWF and E&amp;M final fixing of Passenger Terminal Building (PTB)</li> <li>• Lighting system at Helipad</li> <li>• Louvers and touch up works of steel columns of Noise Barrier 1 &amp; Noise Barrier 2</li> <li>• Placing of paving block along EVA</li> <li>• GFS handover and Fire services inspection</li> <li>• E&amp;M installation works of P7, P8 &amp; P9</li> <li>• Respectively as of 20 April 2012. Self-testing of the individual systems</li> <li>• -0.85mPD steel platform of P7 and the installation at P8 &amp; P9</li> <li>• Wet Well penstock installation at P7, P8 &amp; P9 and install the traveling band screen</li> <li>• The TBM retrieval of the DSD 2nd drive</li> <li>• Approximate 65m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.</li> <li>• Combined chamber for SHK at ex-pet garden</li> <li>• Approximate 8m cable duct was laid at Harbour Road and Tonnochy Road.</li> <li>• Heading construction at ex-pet garden was completed for the cooling mains installation</li> </ul>	<ul style="list-style-type: none"> <li>• Remaining works along EVA</li> <li>• E&amp;M installation works of P7, P8 &amp; P9</li> <li>• Concreting of thrust blocks in P8 dry well</li> <li>• Install the motor of the band screen at wet well of P8 was ongoing and P9</li> <li>• The TBM breaking-in of the WSD 2nd drive</li> <li>• Approximate 35m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.</li> <li>• Combined chamber for SHK at ex-pet garden</li> <li>• Approximate 10m cable duct was laid at Harbour Road and Tonnochy Road.</li> <li>• Casting of final slab at +15.71 mPD for the WSD Salt Water Pumping Station.</li> <li>• HEC Switch Room of the WSD Salt Water Pumping Station</li> <li>• ABWFs and E&amp;M installation at the TX room of the WSD Salt Water Pumping Station</li> <li>• Installation and welding for 4th layer of wallings and struts for construction of intake culvert Bay 19B at Wan Shing Street</li> <li>• Dewatering at Wan Shing Street Bay 24 for opening in sheetpile cofferdam</li> <li>• ELS of 3rd layer (-1.5mPD) struts &amp; wallings of salt water intake landside cofferdam</li> <li>• ELS of 2nd layer (+0.5mPD) struts &amp; wallings of salt water intake seaside cofferdam</li> </ul>

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• surrounding the steel sleeve</li> <li>• Excavation and lateral support of the Jacking pit at ex-pet garden for the cooling mains construction across HHR.</li> <li>• Approximate 60m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.</li> <li>• Approximate 15m cable duct was laid at Harbour Road and Tonnochy Road.</li> <li>• Casting of slab above HEC room @ +9.17mPD for the WSD Salt Water Pumping Station.</li> <li>• Excavation for installation of 3rd layer (-1.5mPD) struts &amp; walings for shoring system of 610 pipe pile wall landside cofferdam of salt water intake culvert.</li> <li>• Excavation for installation of 2nd layer (+0.5mPD) struts &amp; walings for shoring system of salt water intake culvert Seaside Cofferdam.</li> <li>• Dismantle of temporary water tank at Portion 1A was in progress. Installation of temporary water tank for construction of pile caps &amp; beams at Portion 1A.</li> <li>• Fabrication of temporary water tank at Portion 2A &amp; 2B formwork and re-bars fixing for lower portion caps and beams at Portion 1A of New Ferry Pier.</li> <li>• Installation of temporary water tank for construction of pile caps &amp; beams at Portion 2B.</li> <li>• Welding of steel supports at Portion 2C of the New Ferry Pier.</li> <li>• Backfilling on the HDPE pipelines at diffuser section between CH0 &amp; CH150</li> <li>• Excavation for installation of 3rd layer (-2.0mPD) struts &amp; walings for shoring system of Submarine Outfall Seaside Cofferdam</li> <li>• Installation of Temporary</li> </ul>	<ul style="list-style-type: none"> <li>across Convention Avenue.</li> <li>• ABWFs and E&amp;M installation at the TX room of the WSD Salt Water Pumping Station</li> <li>• Installation and welding for 3rd layer of walings and struts for construction of intake culvert Bay 19B at Wan Shing Street</li> <li>• Sand backfilling works and dewatering at Wan Shing Street Bay 24</li> <li>• ELS of 3rd layer (-1.5mPD) struts &amp; walings of salt water intake landside cofferdam</li> <li>• ELS of 2nd layer (+0.5mPD) struts &amp; walings of salt water intake seaside cofferdam</li> <li>• ELS of 3rd layer (-2.0mPD) struts &amp; walings of Submarine Outfall Seaside Cofferdam was in progress.</li> <li>• Portion 1A – upper caps &amp; beams construction</li> <li>• Portion 2A – 2A3 &amp; 2A2 upper caps and beams formwork</li> <li>• Portion 2B – 2B3 &amp; 2B2 upper caps and beams formwork</li> <li>• Portion 2C</li> <li>• Portion 3C – 3C1 &amp; 3C2 water tank installed sealing and 3C3 is under fabrication</li> <li>• Backfilling on the HDPE pipelines at diffuser section between CH0 &amp; CH150</li> <li>• Approximate 8m DN800 MS pipe installation near Gate 1 at ex-pet garden</li> <li>• Trial dredging works of WCR2</li> <li>• Piping diversion at WCR2</li> <li>• Pre-bored H-piles construction at Box Culvert O and divert HHR traffic to small pet garden</li> <li>• Installation of precast beam, central beam and excavation works at Box Culvert O</li> </ul>	<ul style="list-style-type: none"> <li>• Remedial works of hole drilling for grouting to avoid seepage outside the salt water intake seaside cofferdam</li> <li>• ELS of 3rd layer (-2.0mPD) struts &amp; walings of Submarine Outfall Seaside Cofferdam</li> <li>• Removal of formwork for slab and beam high portion 1A</li> <li>• Concreting of pile cap low portion 2A1, sloping tie beam, tie beam between 2A1 to 2A2 and 2A1 to 1A</li> <li>• Concreting of slab and beam high portion 2A3, 2B1 and 2B2 (+3.15mPD to +3.75mPD) at Ferry Pier</li> <li>• Removal of formwork of slab and beam high portion 2B1, 2B2 and 2B3 (+4.15mPD)</li> <li>• Erection of formwork for pile cap low portion 3B at Ferry Pier</li> <li>• Dewatering and fixing of steel water tank for construction of pile cap at portion 3A and 3C2 at Ferry Pier</li> <li>• Approximate 5m DN800 MS pipe installation near Gate 1 at ex-pet garden</li> <li>• Piping diversion at WCR2</li> <li>• Excavation works and utilities diversion at Box Culvert O</li> <li>• Permanent precast beam and central beam for Box Culvert O diversion</li> </ul>



March 2012	April 2012	May 2012
Decking Platform "C"		

2.5.4. Major construction activities for Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principle work activities for Contract no. HY/2009/15 are summarized as below:

**Table 2.7 Principle Work Activities for Contract no. HY/2009/15**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• Reclamation works at TS4/ME4</li> <li>• Diaphragm wall construction preparation works at TS4</li> <li>• Marine SI at TS2</li> <li>• ELS works at TS1 and TPCWAE</li> <li>• Night time protection works at CHT</li> <li>• Cut off wall preparation works at Hung Hing Road and POC</li> </ul>	<ul style="list-style-type: none"> <li>• Dredging for seawall foundation at TS2</li> </ul>	<ul style="list-style-type: none"> <li>• Dredging for seawall foundation at TS2</li> </ul>

2.5.5. Contract no. HK/2010/06 was commenced on 22 March 2011. During this reporting period, the principle work activities for Contract no. HK/2010/06 are summarized as below:

**Table 2.8 Principle Work Activities for Contract no. HK/2010/06**

March 2012	April 2012	May 2012
<ul style="list-style-type: none"> <li>• Excavation of bored piles</li> <li>• Concreting of bored piles</li> <li>• Coring Works</li> <li>• Sheet Piles</li> <li>• Construction of Pre-cast Unit in China</li> </ul>	<ul style="list-style-type: none"> <li>• Excavation of bored piles</li> <li>• Concreting of bored piles</li> <li>• Coring Works</li> <li>• Sheet Piles</li> <li>• Construction of Pre-cast Unit in China</li> </ul>	<ul style="list-style-type: none"> <li>• Excavation of bored piles</li> <li>• Concreting of bored piles</li> <li>• Coring Works</li> <li>• Sheet Piles</li> <li>• Construction of Pre-cast Unit in China</li> </ul>

2.5.6. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principle work activities for Contract no. HY/2009/19 are summarized as below:

**Table 2.9 Principle Work Activities for Contract no. HY/2009/19**

March 2012	April 2012	May 2012
• Marine bored piling	• Marine bored piling	• Marine bored piling

2.5.7. Implementation status of the recommended mitigation measures during this reporting period is presented in **Appendix 2.1**.

### 3. MONITORING REQUIREMENTS

#### 3.1. Noise Monitoring

##### NOISE MONITORING STATIONS

- 3.1.1. The noise monitoring stations for the Project are listed and shown in **Table 3.1** and **Figure 3.1**. **Appendix 3.1** shows the established Action/Limit Levels for the monitoring works.

**Table 3.1 Noise Monitoring Stations**

Station	Description
M1a	Harbour Road Sports Centre
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

##### REAL TIME NOISE MONITORING STATIONS

- 3.1.1. The real-noise monitoring stations for the Project are listed and shown in **Table 3.2** and **Figure 3.1**. **Appendix 3.1** shows the established Action/Limit Levels for the monitoring works.

**Table 3.2 Real Time Noise Monitoring Station**

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitefield Depot
North Point	RTN2	Oil Street Community Liaison Centre

##### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq(30\text{ minutes})}$  shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods,  $L_{eq(5\text{ minutes})}$  shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 3.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
- one set of measurements between 0700 and 1900 hours on normal weekdays.

- 3.1.4. If construction works are extended to include works during the hours of 1900 – 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.
- 3.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
  - One set of measurements between 0700 and 1900 hours on normal weekdays.
  - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
  - One set of measurements between 2300 and 0700 hours on next day on everyday.
- 3.1.6. Noise baseline level review was commenced in this reporting period. Detailed review report showed in **Appendix 3.2**.
- 3.1.7. Real time noise baseline level review at night time period (2300 to 0700) was commenced in this reporting period. Detailed review report showed in **Appendix 3.3**.

**MONITORING EQUIPMENT**

- 3.1.8. As referred to in the Technical Memorandum <sup>TM</sup> issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 3.1.9. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

**3.2. Air Monitoring**

**AIR QUALITY MONITORING STATIONS**

- 3.2.1. The air monitoring stations for the Project are listed and shown in **Table 3.3** and **Figure 3.1**. **Appendix 3.1** shows the established Action/Limit Levels for the monitoring works.

**Table 3.3 Air Monitoring Stations**

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay

Station ID	Monitoring Location	Description
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

\* Remarks: As per the ENPC meeting in January 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade and CMA6a - Future AECOM site office at Work Area were renamed as remark.

**AIR MONITORING PARAMETERS, FREQUENCY AND DURATION**

- 3.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 3.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 3.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

**SAMPLING PROCEDURE AND MONITORING EQUIPMENT**

- 3.2.5 High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
  - 0.6 - 1.7 m3 per minute adjustable flow range;
  - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
  - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
  - capable of providing a minimum exposed area of 406 cm<sup>2</sup>;
  - flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
  - equipped with a shelter to protect the filter and sampler;
  - incorporated with an electronic mass flow rate controller or other equivalent devices;
  - equipped with a flow recorder for continuous monitoring;
  - provided with a peaked roof inlet;
  - incorporated with a manometer;
  - able to hold and seal the filter paper to the sampler housing at horizontal position;
  - easily changeable filter; and
  - capable of operating continuously for a 24-hour period.

- 3.2.6 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

#### LABORATORY MEASUREMENT / ANALYSIS

- 3.2.7 A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 3.2.8 An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 3.2.9 Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 3.2.10 After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 3.2.11 All the collected samples shall be kept in a good condition for 6 months before disposal.

#### IMPACT MONITORING FOR ODOUR PATROL

- 3.2.12 Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
- be at least 16 years of age;
  - be free from any respiratory illnesses; and
  - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min before and during odour patrol
- 3.2.13 Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in **Figure 3.1** to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).

- 3.2.14 The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 3.2.15 The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
- 0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
  - 1 - Slight Identifiable odour, and slight chance to have odour nuisance;
  - 2 - Moderate Identifiable odour, and moderate chance to have odour nuisance;
  - 3 - Strong Identifiable, likely to have odour nuisance;
  - 4 - Extreme Severe odour, and unacceptable odour level.
- 3.2.16 The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in **Appendix 3.1**.

### 3.3 Water Quality Monitoring

- 3.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.
- 3.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April – September) will be effected and applied to the water quality monitoring data from 30 April 2011.

#### Water Quality Monitoring Stations

- 3.3.3. It is proposed to monitor the water quality at 9 WSD salt water intakes and 14 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in **Table 3.4** and **Figure 3.1**. **Appendix 3.1** shows the established Action/Limit Levels for the monitoring works.

**Table 3.4 Marine Water Quality Stations for Water Quality Monitoring**

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
WSD7	Kowloon South	834150.0	818300.3
WSD9	Tai Wan	837921.0	818330.0
WSD10	Cha Kwo Ling	841900.9	817700.1

Station Ref.	Location	Easting	Northing
WSD15	Sai Wan Ho	841110.4	816450.1
WSD17	Quarry Bay	839790.3	817032.2
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
WSD21	Wan Chai	836220.8	815940.1
RW1	Wan Chai (Reprovision)	836188.8	815911.1
<b>Cooling Water Intake</b>			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2
C4w	Wan Chai Tower and Great Eagle Centre (Western)	835629.8	815889.2
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2
C6	World Trade Centre	837009.6	815999.3
C7	Windsor House	837193.7	816150.0
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6
RC1	Proposed HKAPA Extension	835487.7	815987.7
RC5	Sun Hung Kai Centre (Reprovision)	836291.4	816029.7
RC7	Windsor House (Temporary Dilution)	837245.2	816156.6

- Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
  - 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
  - C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
  - WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.

#### WATER QUALITY PARAMETERS AND FREQUENCY

- 3.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ while SS is determined in laboratory.
- 3.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

3.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. **Table 3.5** shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

**Table 3.5 Marine Water Quality Monitoring Frequency and Parameters**

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
During the 4-week baseline monitoring period	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

Notes:

1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

#### DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

3.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:

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

3.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

3.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

#### TURBIDITY MEASUREMENT INSTRUMENT

3.3.10 The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

#### SAMPLER



- 3.3.11 Water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

#### SAMPLE CONTAINER AND STORAGE

- 3.3.12 Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

#### WATER DEPTH DETECTOR

- 3.3.13 A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

#### SALINITY

- 3.3.14 A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

#### MONITORING POSITION EQUIPMENT

- 3.3.15 A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

#### CALIBRATION OF IN-SITU INSTRUMENTS

- 3.3.16 All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.

- 3.3.17 For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.

- 3.3.18 Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

#### LABORATORY MEASUREMENT / ANALYSIS

- 3.3.19 Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER

- 3.3.10. The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 3.3.11. Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in **Table 3.6** and **Figure 3.1**.

**Table 3.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring**

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

- 3.3.12. The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 3.3.13. During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 3.3.14. The 24 hours monitoring of turbidity at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data shall be downloaded daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

ADDITIONAL DISSOLVED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

3.3.15 In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.

3.3.16 The proposed DO monitoring stations of the Project are shown in Table 3.7

**Table 3.7 Marine Water Quality Stations for Additional DO Monitoring**

Station	Easting	Northing
A	835468	815857
B	835572	815961
C	835659	816271

3.3.17 The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

#### 4. MONITORING RESULTS

- 4.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in **Figure 2.1** and **Figure 3.1**. The monitoring results are presented in according to the Individual Contract(s).
- 4.0.2 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The FEP surrender application was submitted to EPD by contractor on 16 Jan 2012 that they would surrender the permit on 1 Jan 2012. Moreover, the construction site was handed over to contractor HY/2009/19 on 4 January 2012. However, the surrender of the FEP for HY/2009/11 withdrew by contractor on 14 February 2012 due to some outstanding works was confirmed by RSS on 10 Feb 2012. Therefore, the noise, air and water quality monitoring were keeping in view for the commencement of the works under this contract. No construction activity was conducted by HY/2009/11 up to 4 January 2012.
- 4.0.3 According to EP-364/2009/A Part B, "Scale and Scope of Designated Project", Remarks (c),"The permanent and temporary reclamation and associated dredging works related to the CWB construction are separately covered by environmental permit No. EP-356/2009 issued to Civil Engineering and Development Department", and marine piling works to be conducted by the Contractor of Contract no. HY/2009/19 from 28 January 2012 was considered to be governed under EP-356/2009. As the construction site area of Contract no. HY/2009/11 had already been handed over to Contract no. HY/2009/19, the designated noise, water and air quality monitoring stations for Contract no. HY/2009/11 would be shared with Contract no. HY/2009/19 from 28 January 2012.

##### 4.1. Noise Monitoring Results

- 4.1.1 Due to adverse weather condition, the noise monitoring at the following stations were rescheduled:

M4b: From 17 Apr 2012 to 20 Apr 2012

M5b: From 17 Apr 2012 to 20 Apr 2012

M6: From 17 Apr 2012 to 20 Apr 2012

##### Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

- 4.1.1. The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was under application of surrender in this reporting period. The monitoring was temporary suspended since 5 January 2012.
- 4.1.2. The proposed division of noise monitoring stations for Contract no. HY/2009/11 are summarized in **Table 4.1** below:

**Table 4.1 Noise Monitoring Stations for Contract no. HY/2009/11**

Station	Description
M4b	Victoria Centre
M5b	City Garden

- 4.1.3. There was no exceedance recorded in reporting period. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in **Appendix 4.1**.

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC and Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East and Contract no. HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line

- 4.1.4. The proposed division of noise monitoring stations are summarized in **Table 4.2** below.

**Table 4.2 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02 and HK/2010/06**

Station	Description
M1a	Harbour Road Sports Centre

- 4.1.5. There was no exceedance recorded in reporting period. Details of noise monitoring results and graphical presentation can be referred in **Appendix 4.1**.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

- 4.1.6. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in **Table 4.3** below.

**Table 4.3 Noise Monitoring Station for Contract nos. HY/2009/15**

Station	Description
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station

- 4.1.7. One action level exceedance and no limit level exceedance were recorded in this reporting period. The noise complaint was recorded on 5 April 2012. Details of noise monitoring results and graphical presentation can be referred in **Appendix 4.1**

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.1.8. Noise quality monitoring at M4b and M5b have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 2012.

4.1.9. The proposed division of noise monitoring stations for Contract no. HY/2009/19 are summarized in **Table 4.4** below:

**Table 4.4 Noise Monitoring Stations for Contract no. HY/2009/19**

Station	Description
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

4.1.10. Six limit level exceedances were recorded at M6 on 28 February 2012, 13, 27 March 2012, 2, 30 April 2012 and 16 May 2012 during this reporting quarter. Major traffic jam and no major work activities were observed during monitoring, the exceedances were considered as non-project related. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in **Appendix 4.1**.

**4.2. Real Time Noise Monitoring Results**

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation and

5.2.1. The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was under application of surrender in this reporting period. The monitoring was temporary suspended since 5 January 2012.

**Table 4.5 Real Time Noise Monitoring Station for Contract no. HY/2009/11**

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitefield Depot
North Point	RTN2	Oil Street Community Liaison Centre

4.2.1 Real time noise monitoring results were reviewed and no project-related Action and Limit level exceedance were recorded in the reporting period. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 4.2**

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

4.2.2 The proposed division of real time noise monitoring stations are summarized in **Table 4.6** below. Real time noise monitoring for the marine bored piling works under contract no. HY/2009/19 was commenced on 28 January 2012.

**Table 4.6 Real Time Noise Monitoring Station for Contract no. HY/2009/19**

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitefield Depot
North Point	RTN2	Oil Street Community Liaison Centre

4.2.3 Real time noise monitoring results were reviewed and no project-related Action and Limit level exceedance were recorded in the reporting period. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 4.2**

**4.3. Air Monitoring Results**

4.3.1. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b – Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.

4.3.2. Due to lack of electricity supply, the 24 TSP monitoring at the following stations were rescheduled

- CMA1b: from 13 Mar 2012 to 14 Mar 2012  
from 8 May 2012 to 9 May 2012
- CMA3a: from 24 Mar 2012 to 26 Mar 2012  
from 16 and 20 Apr 2012 to 17 and 24 Apr 2012
- CMA5a: from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012
- CMA6a: from 20 Apr 2012 to 21 Apr 2012  
from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

4.3.3. The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 and the FEP-01/356/2009 was under application of surrender in this reporting period. The monitoring for the contract was temporary suspended on 6 January 2012.

4.3.4. The proposed division of air monitoring stations is summarized in **Table 4.7** below.

**Table 4.7 Air Monitoring Stations for Contract no. HY/2009/11**

Station	Description
CMA1b	Oil Street Community Liaison Centre
CMA2a	Causeway Bay Community Centre

4.3.5. No exceedance was recorded in the reporting period. Details of air monitoring results and graphical presentation can be referred in **Appendix 4.2**.

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

4.3.6. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in **Table 4.8** below. No exceedance was recorded in the reporting period.

**Table 4.8 Air Monitoring Stations for Contract no. HK/2009/01**

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza
CMA6a	WDII PRE Site Office *

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.3.7. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations is summarized in **Table 4.9** below. No exceedance was recorded in the reporting period.

**Table 4.9 Air Monitoring Station for Contract no. HK/2009/02**

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

4.3.8. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in **Table 4.10** below. No exceedance was recorded in the reporting period.

**Table 4.10 Air Monitoring Station for Contract no. HY/2009/15**

Station	Description
CMA3a	CWB site office at Wanchai Waterfront Promenade

Contract no. HY/2009/19 –Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

4.3.9. Air monitoring at CMA1b and CMA2a have been implemented with respect to HY/2009/19 since the marine bore piling works started on 28 Jan 12. No exceedance was recorded in the reporting period.

4.3.10. The proposed division of air monitoring stations is summarized in **Table 4.11** below.

**Table 4.11 Air Monitoring Stations for Contract no. HY/2009/19**

Station	Description
CMA1b	Oil Street Community Liaison Centre
CMA2a	Causeway Bay Community Centre





4.3.11. The odour patrol along the odour route with 8 sniffing locations is conducted by a qualified odour patrol member. There is no odour patrol in this reporting period.

#### 4.4 Water Monitoring Results

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

4.4.1. The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was valid in this reporting period.

4.4.2. Water quality monitoring for Contract no. HY/2009/11 was commenced on 19 March 2010. The proposed division of water monitoring stations for Contract no. HY/2009/11 is summarized in **Table 4.12** below:

**Table 4.12 Water Monitoring Stations for Contract no. HY/2009/11**

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
WSD9	Tai Wan	837921.0	818330.0
WSD10	Cha Kwo Ling	841900.9	817700.1
WSD15	Sai Wan Ho	841110.4	816450.1
WSD17	Quarry Bay	839790.3	817032.2
<b>Cooling Water Intake</b>			
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6

Remarks: WSD9, WSD10, WSD15, WSD17. C8 and C9 water monitoring finished on 6 Feb 2012.

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

4.4.3. Water quality monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations is summarized in **Table 4.13** below.

**Table 4.13 Water Monitoring Stations for Contract no. HK/2009/01**

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
WSD7	Kowloon South	834150.0	818300.3
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
<b>Cooling Water Intake</b>			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2
C4w	Wan Chai Tower and Great	835629.8	815889.2

Station Ref.	Location	Easting	Northing
	Eagle Centre (Western)		

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations have not been carried out by others.
- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.

Contract no. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

- 4.4.4. Water quality monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations is summarized in **Table 4.14** below.

**Table 4.14 Water Monitoring Stations for Contract no. HK/2009/02**

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
WSD21	Wan Chai	836220.8	815940.1
WSD9	Sheung Wan	833415.0	816771.0
WSD17	Kennedy Town	830750.6	816030.3
<b>Cooling Water Intake</b>			
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8 Feb 2012.

Contract no. HK/2010/06 - Wan Chai Development Phase II – Central –Wanchai Bypass over MTR Tsuen Wan Line

- 4.4.5. Water monitoring for Contract no. HK/2010/06 was commenced on 8 March 2011. The proposed division of water monitoring stations are summarized in **Table 4.15** below.

**Table 4.15 Water Monitoring Stations for Contract no. HK/2010/06**

Station Ref.	Location	Easting	Northing
<b>Cooling Water Intake</b>			
C2	Telecom House	835647.9	815864.4

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

- 4.4.6. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations is summarized in **Table 4.16** below.

**Table 4.16 Water Monitoring Stations for Contract no. HY/2009/15**

Station Ref.	Location	Easting	Northing
<b>Cooling Water Intake</b>			
C6	Excelsior Hotel	837009.6	815999.3
C7	Windsor House	837193.7	816150

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.4.7. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012. The proposed division of water monitoring stations are summarized in **Table 4.17** below.

**Table 4.17 Water Monitoring Stations for Contract no. HY/2009/19**

Station Ref.	Location	Easting	Northing
<b>Cooling Water Intake</b>			
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6

Remarks: C8 and C9 water monitoring commenced on 28 Jan 2012.

- 4.4.8. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- 4.4.9. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- 4.4.10. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- 4.4.11. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 4.4.12. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to

- the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 4.4.13. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 4.4.14. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.
- 4.4.15. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake - C6 was terminated effective from 26 May 2011.
- 4.4.16. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.
- 4.4.17. The enhanced water quality monitoring at C6, C7, Ex-WPCWA-SW and Ex-WPCWA-SE was commenced on 13 January 2011. No project-related exceedances was recorded in the daily SS monitoring and 24 hours turbidity monitoring.
- 4.4.18. Water monitoring results measured in this reporting period are reviewed and summarized in **Table 4.18**. Details of water quality monitoring results and graphical presentation can be referred in **Appendix 4.3**.

**Table 4.18 Summary of Water Quality Monitoring Exceedances in Reporting period**

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11 Monitoring finished on 6 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	0	0	0	0	0	0	0	0	0	0
	C9	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	1	0	0	0	0	0	2

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
	WSD20	0	0	0	0	1	0	0	0	0	1	0	0
	WSD7	0	0	1	0	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	1	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	0	0	1	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	0	0	0	1	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	1	3	0	0	0	0	0	0	1
	C5w	0	0	0	1	2	0	0	0	0	0	0	0
	WSD21	0	0	2	2	1	2	0	0	2	1	1	1
Monitoring started on 8 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on 8 Feb 2012	WSD17	0	0	0	0	0	1	0	0	0	1	0	1
HY/2009/15	C7	0	0	0	1	0	0	0	0	0	1	0	0
HY/2009/19 Monitoring started from 28 Jan 2012	C8	0	0	1	1	0	0	0	0	1	0	0	0
	C9	0	0	0	3	3	0	0	0	0	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>4</b>	<b>10</b>	<b>11</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>5</b>

- Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
  - 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
  - C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
  - WSD7 and WSD20 were temporarily suspended from 27 Apr 2012

4.4.19. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in **Table 4.18a**.

4.4.20. Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide Enhanced DO water monitoring on 16, 20 and 27 April 2012 were cancelled.

**Table 4.18a Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting period**

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	1	0

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
	C7	1	0	0	0
	Ex-WPCWA SW	0	0	0	0
	Ex-WPCWA SE	0	0	2	0
	<b>Total</b>	1	0	3	0

4.4.21. There was no exceedance in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in [Appendix 4.3](#).

#### 4.5 Waste Monitoring Results

[Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation](#)

4.5.1. The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. Therefore, no C&D waste was generated.

**Table 4.19 Details of Waste Disposal for Contract no. HY/2009/11**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	NIL	N/A
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	692.255	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Chemical waste disposed, kg	N/A	N/A	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	0 (Bulk Volume)	89,500 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	0 (Bulk Volume)	129,200 (Bulk Volume)	East of Sha Chau

4.5.2. There was no marine sediment disposed and no dredging work undertaken in the reporting period. Contractor submitted a letter dated 20 July 2011 to confirm that the dredging works and dumping operation were completed.

[Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC](#)

4.5.3. Inert and non-inert C&D waste was disposed of for the site preparation works in this reporting period. Details of the waste flow table are summarized in **Table 4.20**.

**Table 4.20 Details of Waste Disposal for Contract no. HK/2009/01**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	5535.48	22069.64	TKO137, TM38
Inert C&D materials recycled, m <sup>3</sup>	0	389.96	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	138.2	752.4	SENT Landfill
Non-inert C&D materials recycled, kg	4130	139884	N/A
Chemical waste disposed, kg	670	6330	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m <sup>3</sup>	7682	91164.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	19632	43018 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	1696	5613 (Bulk Volume)	East of Cha Chau

Remarks: Contractor clarified and updated waste flow table for the reporting month of May

4.5.4. There were marine sediments Type 1 – Open Sea Disposal, Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal and Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers disposed in the reporting period. The maximum dredging rate of in cross harbour water main are 975 m<sup>3</sup> per day respectively, which was complied with the recommended maximum dredging rate per day listed in Table 2 of FEP-02/356/2009.

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.5.5. Inert and non-inert C&D waste was disposed of for the site preparation works in this reporting period. Details of the waste flow table are summarized in **Table 4.21**.

**Table 4.21 Details of Waste Disposal for Contract no. HK/2009/02**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials	56,065	140,130	TKO137/ TM 38



Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
disposed, m <sup>3</sup>			
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	103	452	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Chemical waste disposed, kg	NIL	4,186	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	NIL	154,827 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	3832	114,464 (Bulk Volume)	East of Sha Chau

- 4.5.6. There were marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal. The maximum dredging rate in submarine sewage pipelines is 450 m<sup>3</sup> per day, which was complied with the recommended maximum dredging rate per day in sub-marine pipeline work zone listed in Table 2 of FEP-03/356/2009.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

- 4.5.7. Inert and non-inert C&D waste was disposed of for the site preparation works in this reporting period. Details of the waste flow table are summarized in **Table 4.22**.

**Table 4.22 Details of Waste Disposal for Contract no. HY/2009/15**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	23434	141579.2	Tuen Mun Area 38
	64264.8	65216	TKO137 FB
Inert C&D materials recycled, m <sup>3</sup>	0	184.0	To Contract HY/2009/11
	0	304	Ex-PCWA
	2.9	111.9	TS4
Non-inert C&D materials disposed, m <sup>3</sup>	61.6	252.2	SENT Landfill
Non-inert C&D materials recycled, kg	285396.5	299361.5	N/A
Chemical waste disposed, kg	200	8,200	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	25,021	58448 (Bulk Volume)	South of Cheung Chau

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	27,530	186,342 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	0	7,050 (Bulk Volume)	East of Sha Chau

4.5.8. There was no marine sediment disposed of in this reporting period.

Contract no. HK/2010/06 - Wan Chai Development Phase II – Central –Wanchai Bypass over MTR Tsuen Wan Line

4.5.9. Inert C&D waste was disposed of for the site preparation works in this reporting period. Details of the waste flow table are summarized in **Table 4.23**.

**Table 4.23 Details of Waste Disposal for Contract no. HK/2010/06**

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	1998	11027.83	Tuen Mun Area 38
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	547	1008.5	N/A
Chemical waste disposed, L	0	600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	397 (Bulk Volume)	3,694 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	0 (Bulk Volume)	12,297 (Bulk Volume)	East Sha Chau



4.5.10. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal dredging from bore-piling casing in the reporting period.

Contract no. HY/2009/19 – Central- WanChai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

4.5.11. There was no project-related waste disposal in the reporting period.

**5. COMPLIANCE AUDIT**

5.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in **Appendix 5.1**.

**5.1. Noise Monitoring**

5.1.1 Six limit level exceedances at M6 on 28 February, 13, 27 March and 2, 30 April 2012 and 16 May 2012 were recorded in this reporting period. Investigation found that major traffic noise was contributed in the noise monitoring and not related to the Project.

5.1.2 One Action Level exceedance was recorded due to the receipt of noise complaint on 5 April 2012 in relation to HY/2009/15. Details of noise monitoring results and graphical presentation can be referred in **Appendix 4.1**

**5.2. Real-time Noise Monitoring**

5.2.1 Reviewing real-time noise result from December 2011 to May 2012 reporting period, there was no exceedance related to Project works.

5.2.2 No project-related exceedance was recorded in the real-time noise results in reporting period.

**5.3. Air Monitoring**

5.3.1. Reviewing air monitoring result from December 2011 to May 2012 reporting period, there was no exceedance related to Project works.

5.3.2. No exceedance was recorded in the reporting period.

**5.4. Water Quality Monitoring**

5.4.1. The summary of water quality exceedances recorded in reporting period is presented in the **Table 5.1** and **Table 5.1a**.

**Table 5.1 Summary of Water Quality Monitoring Exceedances in Reporting period**

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11 Monitoring finished on 6 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	0	0	0	0	0	0	0	0	0	0
	C9	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	1	0	0	0	0	0	2

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
	WSD20	0	0	0	0	1	0	0	0	0	1	0	0
	WSD7	0	0	1	0	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	1	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	0	0	1	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	0	0	0	1	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	1	3	0	0	0	0	0	0	1
	C5w	0	0	0	1	2	0	0	0	0	0	0	0
	WSD21	0	0	2	2	1	2	0	0	2	1	1	1
Monitoring started on 8 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on 8 Feb 2012	WSD17	0	0	0	0	0	1	0	0	0	1	0	1
HY/2009/15	C7	0	0	0	1	0	0	0	0	0	1	0	0
HY/2009/19 Monitoring started from 28 Jan 2012	C8	0	0	1	1	0	0	0	0	1	0	0	0
	C9	0	0	0	3	3	0	0	0	0	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>4</b>	<b>10</b>	<b>11</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>5</b>

- Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
  - 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
  - C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
  - WSD7 and WSD20 were temporary suspended since 27 April 2012

5.4.2. Reviewing water monitoring result from December 2011 to May 2012, there was no exceedance related to the Project works.

5.4.3. All exceedances in Table 5.1 have been investigated and there was no project-related exceedance.

**Table 5.1a Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting period**

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	1	0
	C7	1	0	0	0
	Ex-WPCWA SW	0	0	0	0

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
	Ex-WPCWA SE	0	0	2	0
<b>Total</b>		<b>1</b>	<b>0</b>	<b>3</b>	<b>0</b>

5.4.4. All exceedances in Table 5.1a have been investigated and were considered unlikely to be related to project works. The low DO levels were possible in relation to the low flow and recorded low water depth. In view that no odour nuisance was detected during monitoring, the DO exceedances were considered not related to the Project. These DO exceedances were considered as the natural variation and not related to the Project works.

5.4.5. Reviewing the enhanced dissolved oxygen monitoring result from December 2011 to May 2012, there was no exceedance related to Project works.

**5.5. Site Audit**

5.5.1. There was no non-compliance from the site audits in the reporting period. During environmental site inspections conducted during the reporting period, minor deficiencies were noted.

**5.6. Review of the Reasons for and the Implications of Non-compliance**

5.6.1 There was no non-compliance from the site audits in the reporting period.

**5.7. Summary of action taken in the event of and follow-up on non-compliance**

5.7.1 There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

**6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

- 6.0.1. There was one noise complaint received in this reporting period.
- 6.0.2. The details of cumulative complaint log and summary of complaints are presented in **Appendix 6.1**.
- 6.0.3. No notification of summons or prosecution was received in the reporting period. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 6.1** and **Table 6.2** respectively.

**Table 6.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting period	25
Mar 2012- May 2012	1
<b>Project-to-Date</b>	<b>26</b>

**Table 6.2 Cumulative Statistics on Successful Prosecutions**

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this quarter (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
<b>Total</b>	<b>-</b>	<b>0</b>	<b>0</b>

## **7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS**

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Monthly EM&A report (April 2012) of Central Reclamation Phase III (CRIII), filling works, building construction works and pipe works were performed in the April 2012 reporting month. The water quality monitoring was completed in October 2011 and no exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities at Reclamation Shoreline Sub-zones under Wan Chai Development Phase II were the dredging and filling at HKCEC3w, dredging at submarine sewage pipelines, reinstatement of seawall block construction at TCBR1W and marine bored piling at MTR Tunnel Crossing in the reporting month. The major environmental impact was water quality impact at North Point, Causeway Bay and Wan Chai.
- 7.0.4. The major environmental impacts generated from the reclamation work at Central Reclamation Phase III were only located along the coastline of Central and Admiralty. As no project related exceedance was recorded in the Project, it was considered no adverse environmental impact caused by the Project works. Thus, it is evaluated the cumulative construction impact was insignificant.



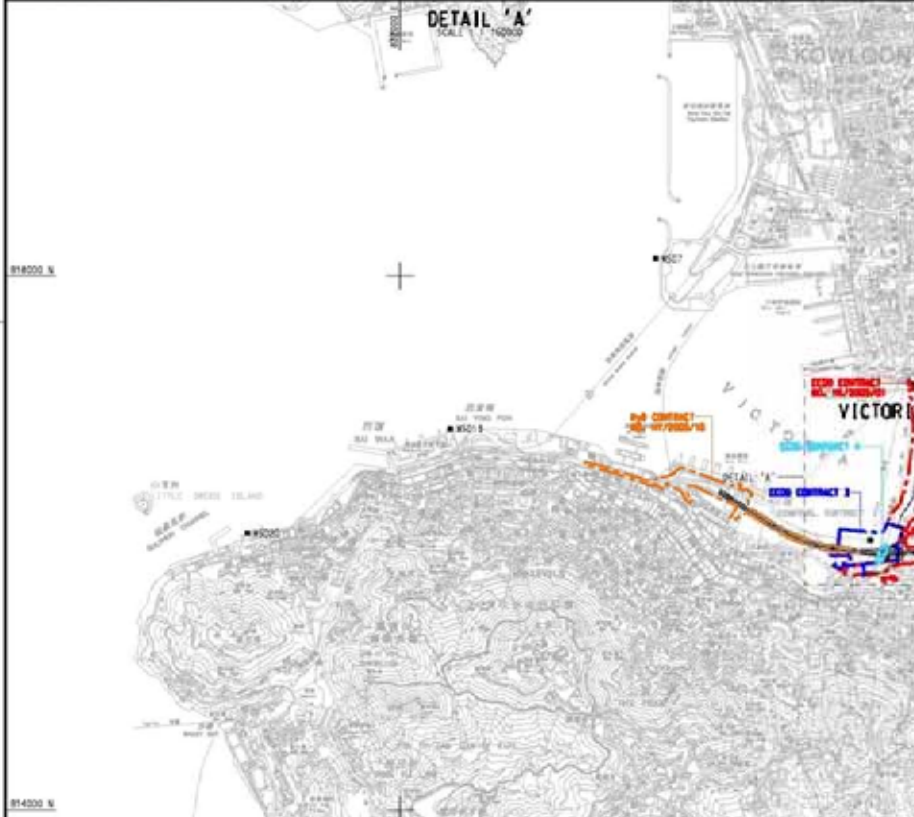
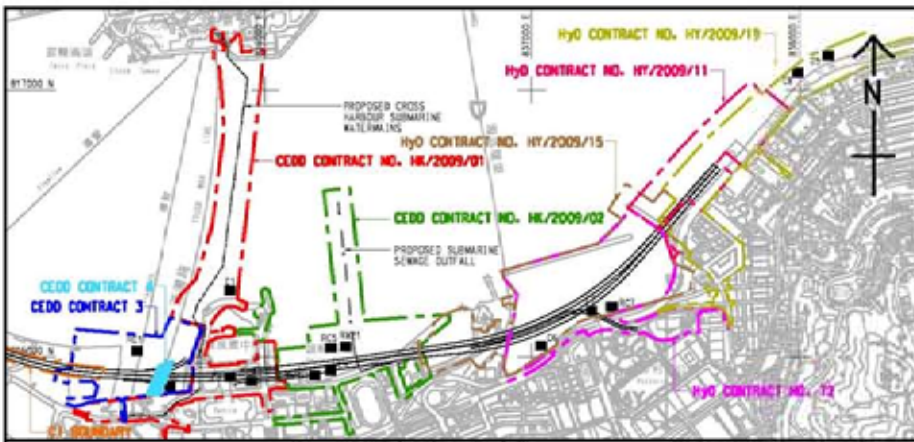
## 8. CONCLUSION

- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. No non-compliances were noted and no prosecutions were received during the reporting period.
- 8.0.3. The construction programmes of individual contracts are provided in **Appendix 7.1**.



***Figure 2.1***

***Project Layout***



**LEGEND:**

- WATER QUALITY MONITORING STATIONS
- COOLING WATER INTAKES**
- D1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
  - D2 TELECOM HONG KONG ACADEMY FOR PERFORMING ARTS / SUIT ON CENTRE
  - D3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE 1
  - D4 WAN CHAI TOWER AND GREAT EXHIBITION CENTRE
  - D5 SUN HANG KAI CENTRE
  - D6 PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
  - D7 WINDSOR HOUSE
  - D8 CITY GREEN
  - D9 PREVIENT CENTRE
  - D10 PROPOSED HERFA EXTENSION
  - D11 SUN HANG KAI CENTRE (REPROVISION)
  - D12 WINDSOR HOUSE (TEMPORARY REPROVISION)

**MSD SALT WATER INTAKE**

- W521 WAN CHAI
- W401 WAN CHAI (REPROVISION)
- W501 GEMUNION ISLAND
- W525 TAI BAA
- W5210 CHA KWO LING
- W5215 SAU BAI HO
- W5217 SCARRY BAY
- W5219 SHEUNG WAN
- W5220 KENNEDY TOWN

DESIGNATED PROJECTS (DP)

DP1	- CENTRAL WAN CHAI BYPASS (CNB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS
DP2	- ROAD P2 AND OTHER ROADS (PRIMARY / DISTRICT DISTRIBUTOR ROADS)
DP3	- PERMANENT AND TEMPORARY REDUPLICATION WORKS INCLUDING ASSOCIATED DREDGING WORKS IN WAN CHAI DEVELOPMENT PHASE 1 (WCH1) AREA
DP4	- TEMPORARY-EMERSON-SHELTER (DP4 NOT TO BE IMPLEMENTED)
DP5	- WAN CHAI EAST SEWAGE OUTFALL
DP6	- DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 314/2008  
 DP2 IS COVERED BY EP - 316/2008  
 DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2005

WORKS CONTRACT	DESIGNATED PROJECT INVOLVED	CONSTRUCTION COMMENCEMENT
CDDO CONTRACT NO. HK/2009/01	DP1, DP2, DP6	APRIL 2010
CDDO CONTRACT NO. HK/2009/02	DP1, DP2, DP6	APRIL 2010
CDDO CONTRACT 3	DP1, DP3	END 2011
CDDO CONTRACT 4	DP1, DP3	END 2012
CDDO CONTRACT 5	DP3	2015
HyO CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyO CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2010
HyO CONTRACT NO. HY/2009/16	DP1	OCTOBER 2010
HyO CONTRACT NO. HY/2009/16	DP1	NOVEMBER 2010
HyO CONTRACT 12	DP1, DP3	MID 2012



**WAN CHAI DEVELOPMENT PHASE II**  
 WAN CHAI DEVELOPMENT PHASE II, PWD CENTRAL - WAN CHAI BYPASS - CANAL, P2/C2, DREDGING AND TESTING WORKS (STAGE 1)

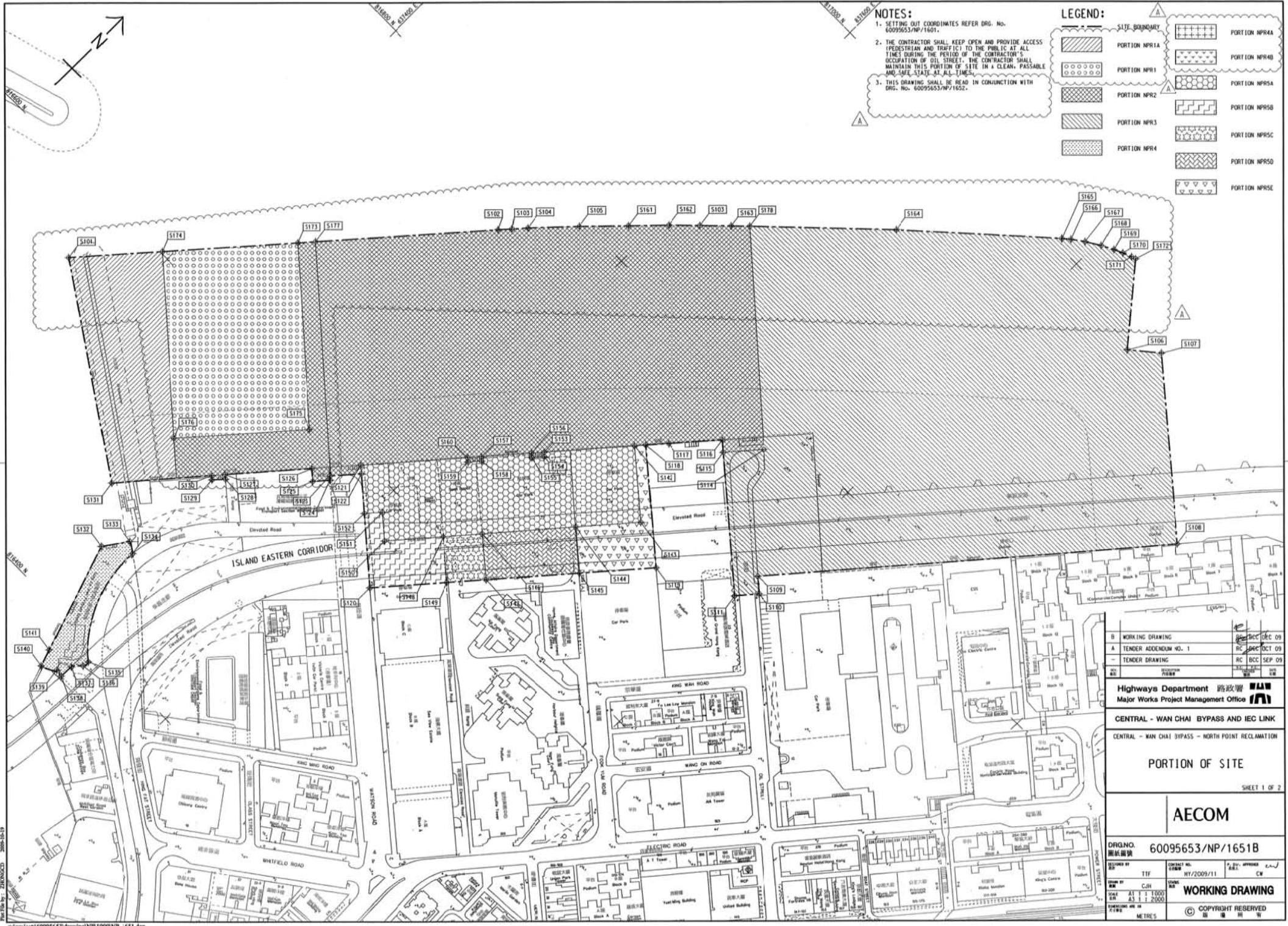
**LOCATIONS OF WATER QUALITY MONITORING STATIONS**



PROJECT NO.	60041297/C5/SK001		
DATE	REV	BY	CHK
17/01/2010	1	ACC	ACC
17/01/2010	1	ACC	ACC
17/01/2010	1	ACC	ACC

SCALE: 1:10000  
 UNIT: METRES

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**NOTES:**  
 1. SETTING OUT COORDINATES REFER DRG. No. 60095653/NP/1601.  
 2. THE CONTRACTOR SHALL KEEP OPEN AND PROVIDE ACCESS (PEDESTRIAN AND TRAFFIC) TO THE PUBLIC AT ALL TIMES DURING THE PERIOD OF THE CONTRACTOR'S OCCUPATION OF OIL STREET. THE CONTRACTOR SHALL MAINTAIN THIS PORTION OF SITE IN A CLEAN, PASSABLE AND SAFE STATE AT ALL TIMES.  
 3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. No. 60095653/NP/1652.

**LEGEND:**

[Dotted pattern]	PORTION NPR1	[Cross-hatch pattern]	PORTION NPR4
[Diagonal lines /]	PORTION NPR1A	[Diagonal lines \]	PORTION NPR4A
[Diagonal lines /]	PORTION NPR2	[Diagonal lines \]	PORTION NPR5A
[Diagonal lines /]	PORTION NPR3	[Diagonal lines \]	PORTION NPR5B
[Diagonal lines /]	PORTION NPR4	[Diagonal lines \]	PORTION NPR5C
[Diagonal lines /]		[Diagonal lines \]	PORTION NPR5D
[Diagonal lines /]		[Diagonal lines \]	PORTION NPR5E

B	WORKING DRAWING	REV	DEC 09
A	TENDER ADDENDUM NO. 1	RC	OCT 09
-	TENDER DRAWING	RC	SEP 09

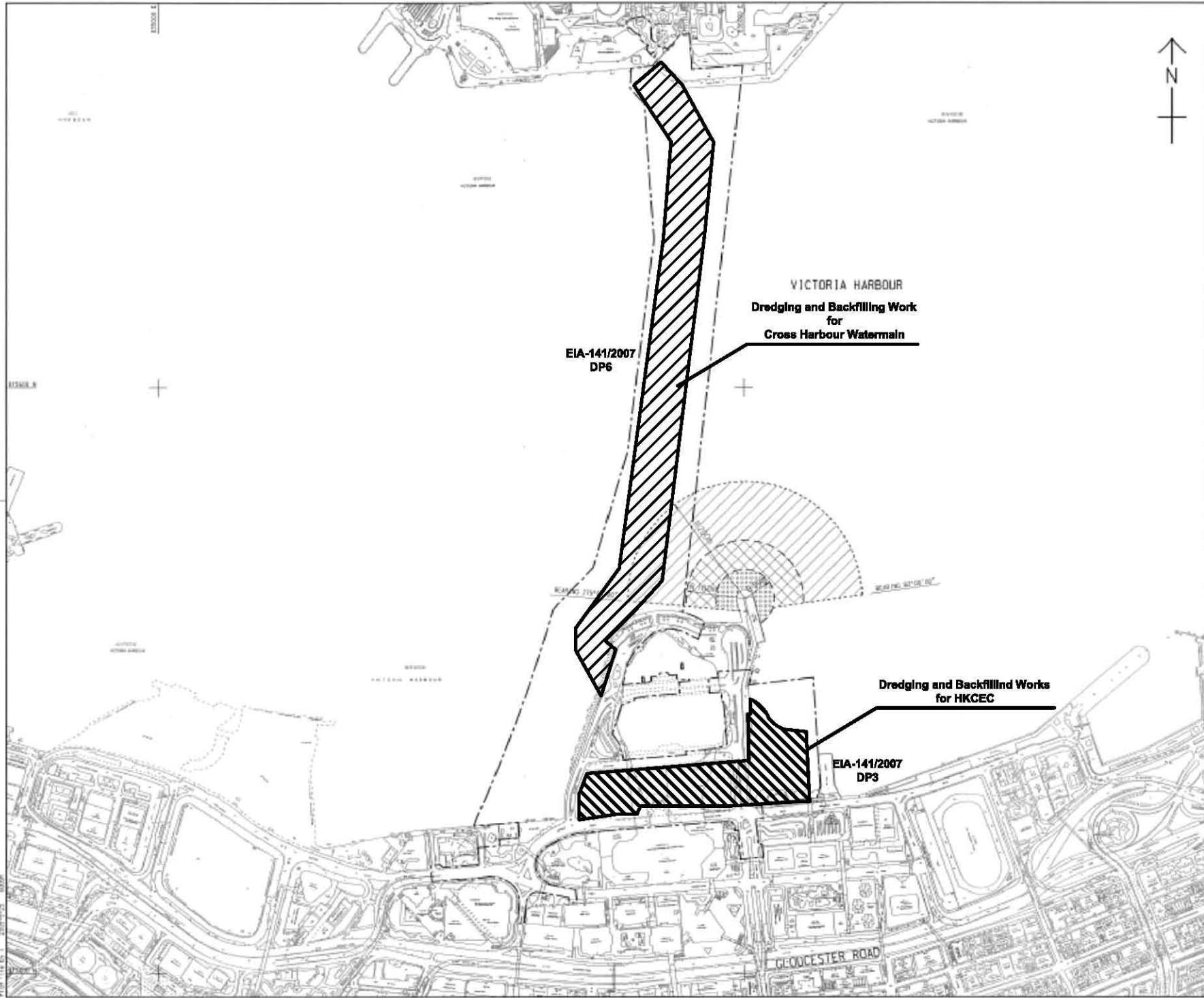
Highways Department 路政署  
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK  
 CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION

PORTION OF SITE  
 SHEET 1 OF 2

**AECOM**

DRGNO. 圖紙編號	60095653/NP/1651B
DESIGNED BY 設計人	TTF
CHECKED BY 校核人	CJH
DATE 日期	AT 17 1000 ON 13 2009
SCALE 比例	1:1000
UNIT 單位	METRES
ISSUED BY 發出人	HW/2009/11
APPROVED BY 核准人	CW
<b>WORKING DRAWING</b>	
COPYRIGHT RESERVED 版權所有	



LOCATION PLAN  
SCALE 1 : 5000

- NOTES:**
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
  2. THE RESTRICTION ZONE IS THIS DRAWING WILL COME INTO EFFECT AFTER THE OPERATION OF THE GOVERNMENT HOLIDAY AT EPOCH DATE LAST.

- LEGEND:**
- CONTRACT BOUNDARY
  - [Hatched Box] WORKING RESTRICTION ZONE
  - [Cross-hatched Box] NAVIGATION AND WORKING RESTRICTION ZONE
  - [Dotted Box] WORKING BARGE, NAVIGATION AND WORKING RESTRICTION ZONE

VICTORIA HARBOUR  
Dredging and Backfilling Work  
for  
Cross Harbour Watermain

EIA-141/2007  
DP6

Dredging and Backfilling Works  
for HKCEC

EIA-141/2007  
DP3

TENDER ADDENDUM NO. 4	SEP 25, 2009
TENDER ADDENDUM NO. 1	SEP 25, 2009
TENDER DRAWING	SEP 25, 2009

CEDD 土木工程發展署  
Civil Engineering and  
Development Department

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II -  
CONCRETE - P&I (PART 02) (SI)  
KONG KONG CONVENTION AND EXHIBITION CENTRE  
**RESTRICTED ZONE FOR  
CONSTRUCTION VESSELS**  
(Contract no: HK/2009/01)

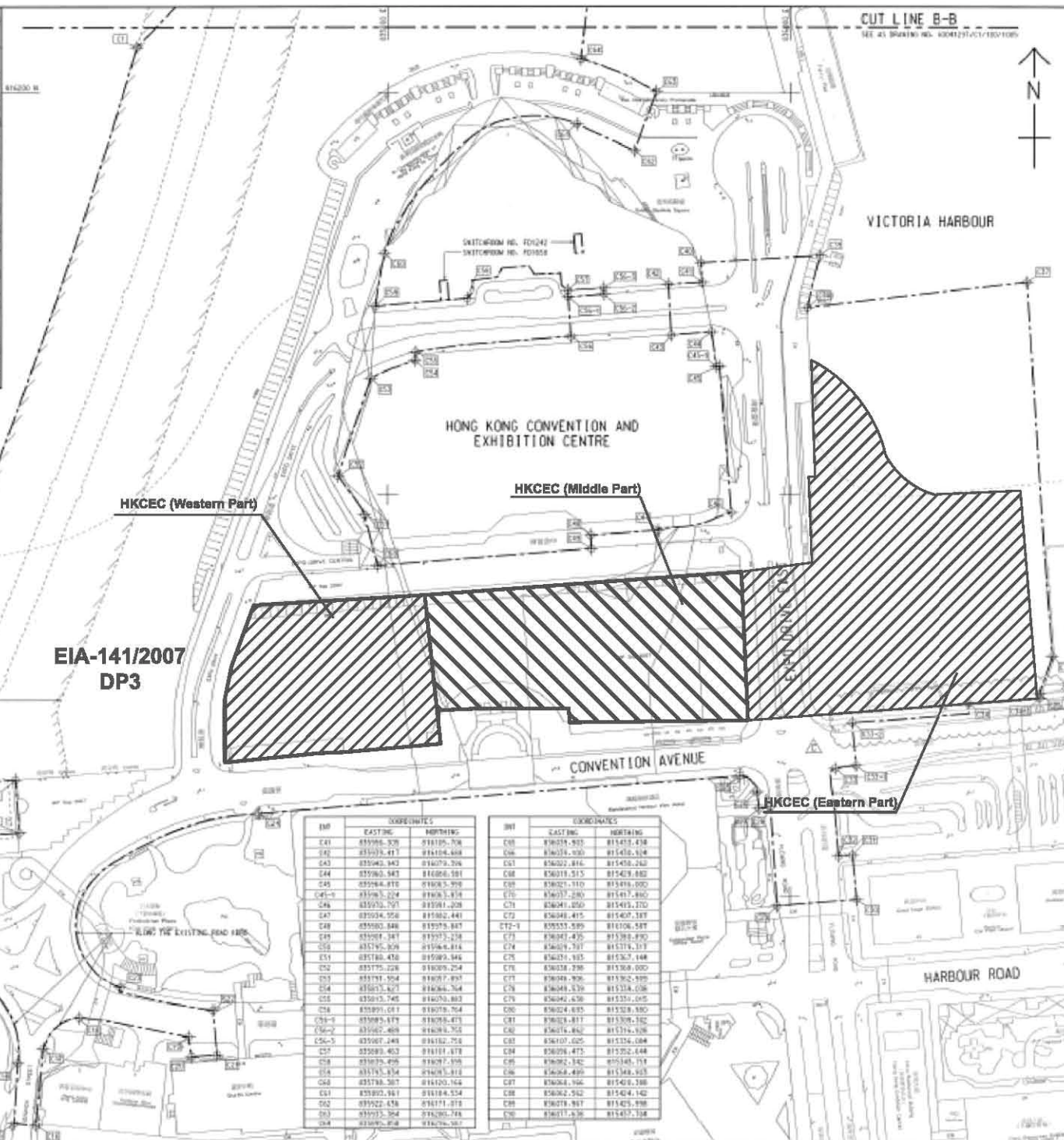
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DRGNO. 圖號	60041297/C1/100/10108
DATE 日期	16/2009/01
SCALE 比例	AS 1:8000
COPYRIGHT RESERVED	



INSET 'A'  
SCALE 1:1000

CENTRAL DISTRICT



EIA-141/2007  
DP3

INT	COORDINATES	
	EASTING	NORTHING
C41	835986.528	818105.708
C42	835979.417	818104.408
C43	835963.943	818079.706
C44	835963.543	818086.581
C45	835964.818	818085.528
C46	835965.504	818085.514
C46	835955.757	818081.208
C47	835954.956	818082.441
C48	835950.846	818075.887
C49	835951.347	818073.238
C50	835950.828	818066.814
C51	835948.478	818080.846
C52	835975.226	818089.224
C53	835971.504	818077.897
C54	835973.627	818084.764
C55	835973.745	818079.883
C56	835991.071	818078.764
C56-1	835995.679	818078.873
C56-2	835982.468	818078.765
C56-3	835987.248	818182.758
C57	835983.403	818181.878
C58	835978.498	818087.198
C59	835978.574	818083.818
C60	835978.507	818120.164
C61	835990.881	818184.524
C62	835923.434	818171.812
C63	835923.504	818280.788
C64	835923.818	818276.307

INT	COORDINATES	
	EASTING	NORTHING
C65	836028.903	818410.438
C66	836034.000	818410.614
C67	836022.816	818410.240
C68	836019.515	818403.882
C69	836021.110	818404.000
C70	836027.289	818411.880
C71	836041.050	818410.270
C72	836048.415	818407.187
C72-1	835555.589	818106.587
C73	836047.435	818385.890
C74	836049.797	818374.107
C75	836024.185	818382.148
C76	836038.298	818388.000
C77	836048.906	818382.898
C78	836048.439	818374.038
C79	836042.630	818351.015
C80	836024.635	818328.880
C81	836028.417	818308.182
C82	836028.882	818378.148
C83	836107.025	818326.084
C84	836098.473	818322.444
C85	836082.342	818340.714
C86	836084.499	818348.925
C87	836084.196	818340.388
C88	836082.512	818340.142
C89	836078.987	818345.898
C90	836077.630	818337.198

CUT LINE B-B  
SEE AT DRAWING NO. A00025/C1/100/1006



KEY PLAN  
SCALE 1:10000

NOTE:  
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. A00025/C1/100/1006.

INT	COORDINATES	
	EASTING	NORTHING
C1	836875.205	818222.559
C2	836875.207	818222.559
C3	836874.561	818224.825
C4	836871.020	818251.014
C5	836882.492	818229.522
C6	836881.584	818218.612
C7	836886.585	818215.197
C8	836886.199	818217.147
C9	836886.433	818232.247
C10	836891.082	818207.050
C11	836885.389	818208.075
C12	836877.486	818208.107
C13	836925.468	818204.817
C14	836886.433	818217.122
C15	836874.289	818208.500
C16	836875.195	818205.525
C17	836888.138	818204.441
C18	836846.085	818208.816
C19	836871.421	818205.587
C20	836902.537	818220.881
C21	836915.295	818217.484
C22	836913.183	818242.543
C23	836827.086	818209.074
C24	836926.984	818243.670
C25	836915.288	818240.251
C26	836881.647	818212.286
C27	836904.025	818243.896
C28	836906.218	818244.445
C29	836911.525	818230.180
C30	836883.781	818208.487
C31	836831.216	818228.470
C32	836824.142	818225.117
C33	836821.081	818210.482
C34	836826.290	818204.700
C35	836827.428	818210.256
C36	836808.187	818210.280
C37	836824.812	818208.093
C38	836824.747	818210.285
C39	836828.850	818219.194
C40	836819.190	818208.037
C41	836828.810	818217.295
C42	836816.906	818219.080
C43	836825.682	818215.512

C	TENDER ADDENDUM NO.4	SHEN JYL DEP C8
B	TENDER ADDENDUM NO.2	SHEN JYL DEP C8
A	TENDER ADDENDUM NO.1	SHEN JYL DEP C8
-	TENDER DRAWING	SHEN JYL DEP C8
20	2009	SEP 08

土木工程師事務所  
Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II -  
CONTRACT NO. HK/2009/01 -  
HONG KONG CONVENTION AND EXHIBITION CENTRE

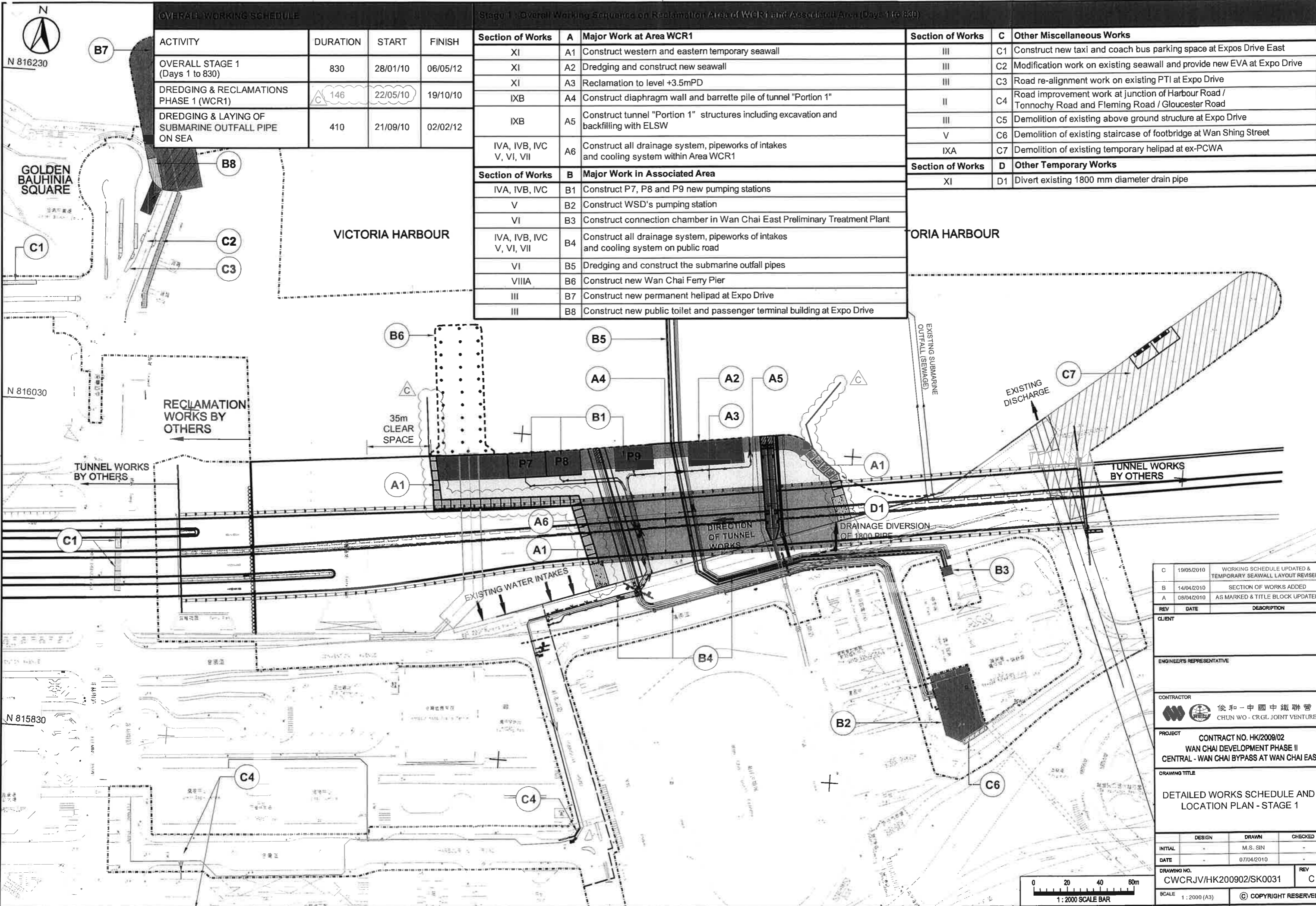
SITE BOUNDARY  
SETTING OUT PLAN  
(Contract no. Hk/2009/01)

**AECOM**

DRGNO. 60041297/C1/100/1006C

SCALE	AS SHOWN	DATE	28/2009/01	BY	PMC
DESIGNED BY	HSY	CHECKED BY	HSY	DATE	28/2009/01
DRAWN BY	HSY	DATE	28/2009/01	PROJECT	PMC
SCALE	AS SHOWN	DATE	28/2009/01	BY	PMC
SCALE	AS SHOWN	DATE	28/2009/01	BY	PMC

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**OVERALL WORKING SCHEDULE**

ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 1 (Days 1 to 830)	830	28/01/10	06/05/12
DREDGING & RECLAMATIONS PHASE 1 (WCR1)	146	22/05/10	19/10/10
DREDGING & LAYING OF SUBMARINE OUTFALL PIPE ON SEA	410	21/09/10	02/02/12

**Stage 1: Overall Working Sequence on Reclamation Area of WCR1 and Associated Area (Days 1 to 830)**

Section of Works	A	Major Work at Area WCR1	Section of Works	C	Other Miscellaneous Works
XI	A1	Construct western and eastern temporary seawall	III	C1	Construct new taxi and coach bus parking space at Expos Drive East
XI	A2	Dredging and construct new seawall	III	C2	Modification work on existing seawall and provide new EVA at Expo Drive
XI	A3	Reclamation to level +3.5mPD	III	C3	Road re-alignment work on existing PTI at Expo Drive
IXB	A4	Construct diaphragm wall and barrette pile of tunnel "Portion 1"	II	C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
IXB	A5	Construct tunnel "Portion 1" structures including excavation and backfilling with ELSW	III	C5	Demolition of existing above ground structure at Expo Drive
IVA, IVB, IVC, V, VI, VII	A6	Construct all drainage system, pipeworks of intakes and cooling system within Area WCR1	V	C6	Demolition of existing staircase of footbridge at Wan Shing Street
			IXA	C7	Demolition of existing temporary helipad at ex-PCWA
Section of Works	B	Major Work in Associated Area	Section of Works	D	Other Temporary Works
IVA, IVB, IVC	B1	Construct P7, P8 and P9 new pumping stations	XI	D1	Divert existing 1800 mm diameter drain pipe
V	B2	Construct WSD's pumping station			
VI	B3	Construct connection chamber in Wan Chai East Preliminary Treatment Plant			
IVA, IVB, IVC, V, VI, VII	B4	Construct all drainage system, pipeworks of intakes and cooling system on public road			
VI	B5	Dredging and construct the submarine outfall pipes			
VIIIA	B6	Construct new Wan Chai Ferry Pier			
III	B7	Construct new permanent helipad at Expo Drive			
III	B8	Construct new public toilet and passenger terminal building at Expo Drive			

REV	DATE	DESCRIPTION
C	19/05/2010	WORKING SCHEDULE UPDATED & TEMPORARY SEAWALL LAYOUT REVISED
B	14/04/2010	SECTION OF WORKS ADDED
A	08/04/2010	AS MARKED & TITLE BLOCK UPDATED

CLIENT: \_\_\_\_\_

ENGINEER'S REPRESENTATIVE: \_\_\_\_\_

CONTRACTOR: 俊和-中國中鐵聯營  
CHUN WO - CRGL JOINT VENTURE

PROJECT: CONTRACT NO. HK/2009/02  
WAN CHAI DEVELOPMENT PHASE II  
CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST

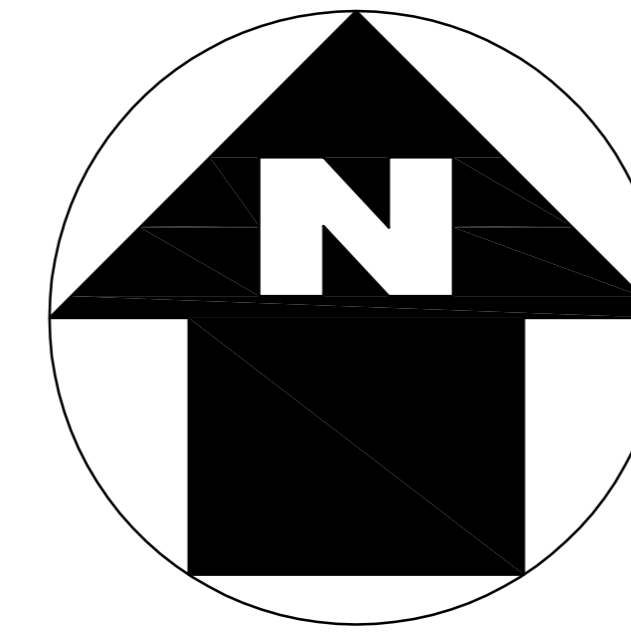
DRAWING TITLE: DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

DESIGN	DRAWN	CHECKED
INITIAL: -	M.S. SIN	-
DATE: -	07/04/2010	-

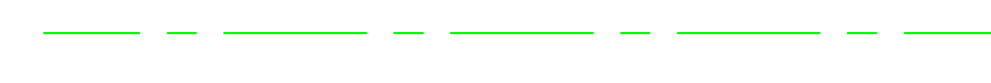
DRAWING NO. CWCRJV/HK200902/SK0031 REV C

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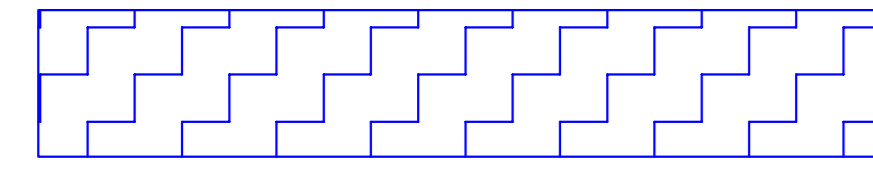
港口  
HARBOUR



LEGEND:



WORKS AREA



DREDGING AREA FOR  
MITIGATION OF ODOUR(DP3)



SITE BOUNDARY

TCBR1E

TCBR2  
AND  
TCBR3

TCBR4

TCBR1W

TPCWAW

TPCWAE

DP3

銅鑼灣避風塘

CAUSEWAY BAY TYPHOON SHELTER

吉列島

KELLETT ISLAND

貨物裝卸灣

Cargo Handling Basin

中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGR. (HONG KONG) LTD.

Highways Department  
CONTRACT NO. HY/2009/15  
CENTRAL-WAN CHAI BYPASS -TUNNEL  
(CAUSEWAY BAY TYPHOON  
SHELTER SECTION)

TITLE  
LOCATION PLAN OF WORKS AREA

DRG. NO.  
CWBT/EPD/001B

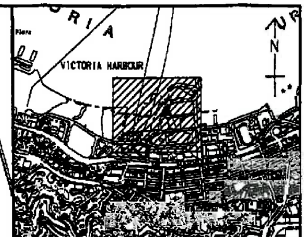
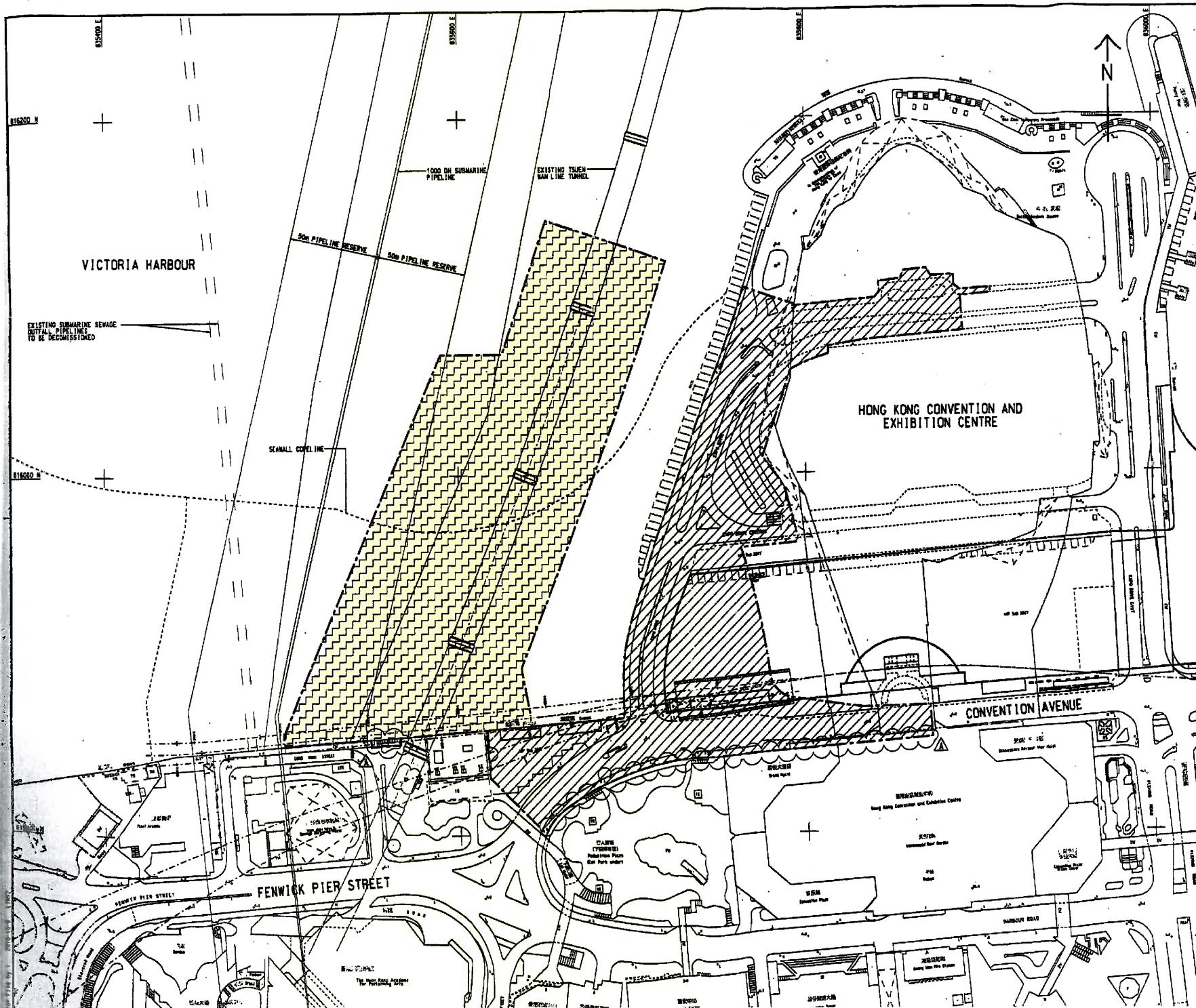
SCALE  
1:1000 @ A0

STATUS  
DIMENSIONS ARE IN  
MILLIMETERS

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維多利亞公園  
Victoria Park





**KEY PLAN**  
SCALE 1 : 20000

- NOTES:**
- COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.
  - LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (1985) UNLESS OTHERWISE NOTED.
  - DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
  - SETTING OUT DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRICALLY FROM THE DRAWINGS OR FILES.
  - SITE BOUNDARY SETTING OUT POINTS SHALL REFER TO DRAWING NO. 60041297/C4/100/1201.

**LEGEND:**

- SITE BOUNDARY
- PORTION 1
- PORTION 2 (DELAY POSSESSION)

TENDER ADDENDUM NO.1	SHW JYL OCT 10
TENDER DRAWING	SHW JYL SEP 10

土木工務發展局  
Civil Engineering and  
Development Department

**WAN CHAI DEVELOPMENT PHASE II**

WAN CHAI DEVELOPMENT PHASE II -  
CENTRAL-WAN CHAI BYPASS OVER MTR TSUEN WAN LINE

**PORTIONS OF THE SITE**  
(Contract HK/2010/06)

**AECOM**

DRAWING NO. 60041297/C4/100/1301A

DESIGNED BY SHW	CHECKED BY TRR
DRAWN BY ADC	DATE 16/2010/06
SCALE 1:11000	

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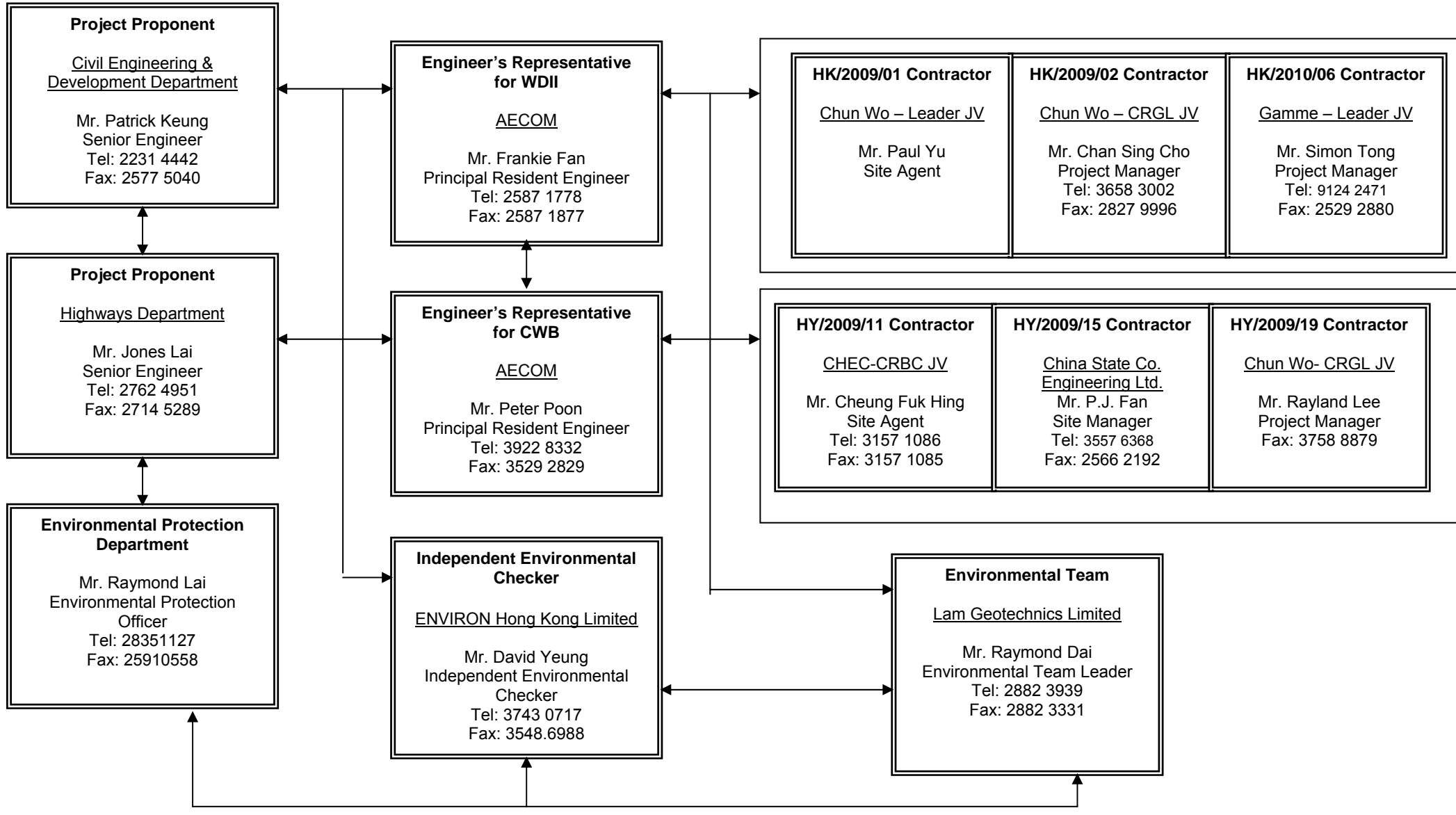


***Figure 2.2***

***Project Organization Chart***



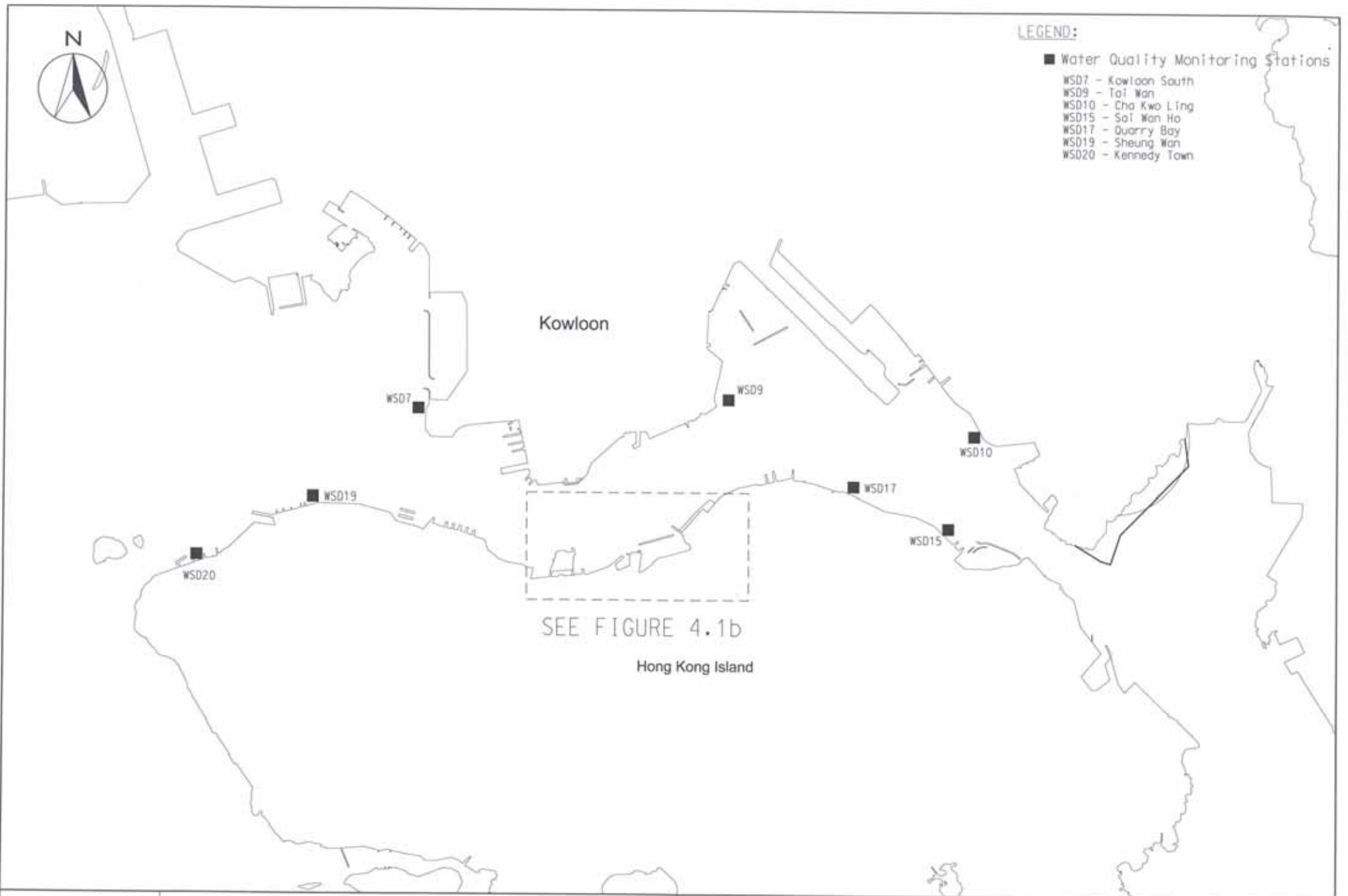
**Project Organization Chart**





***Figure 3.1***

***Locations of Monitoring Stations***

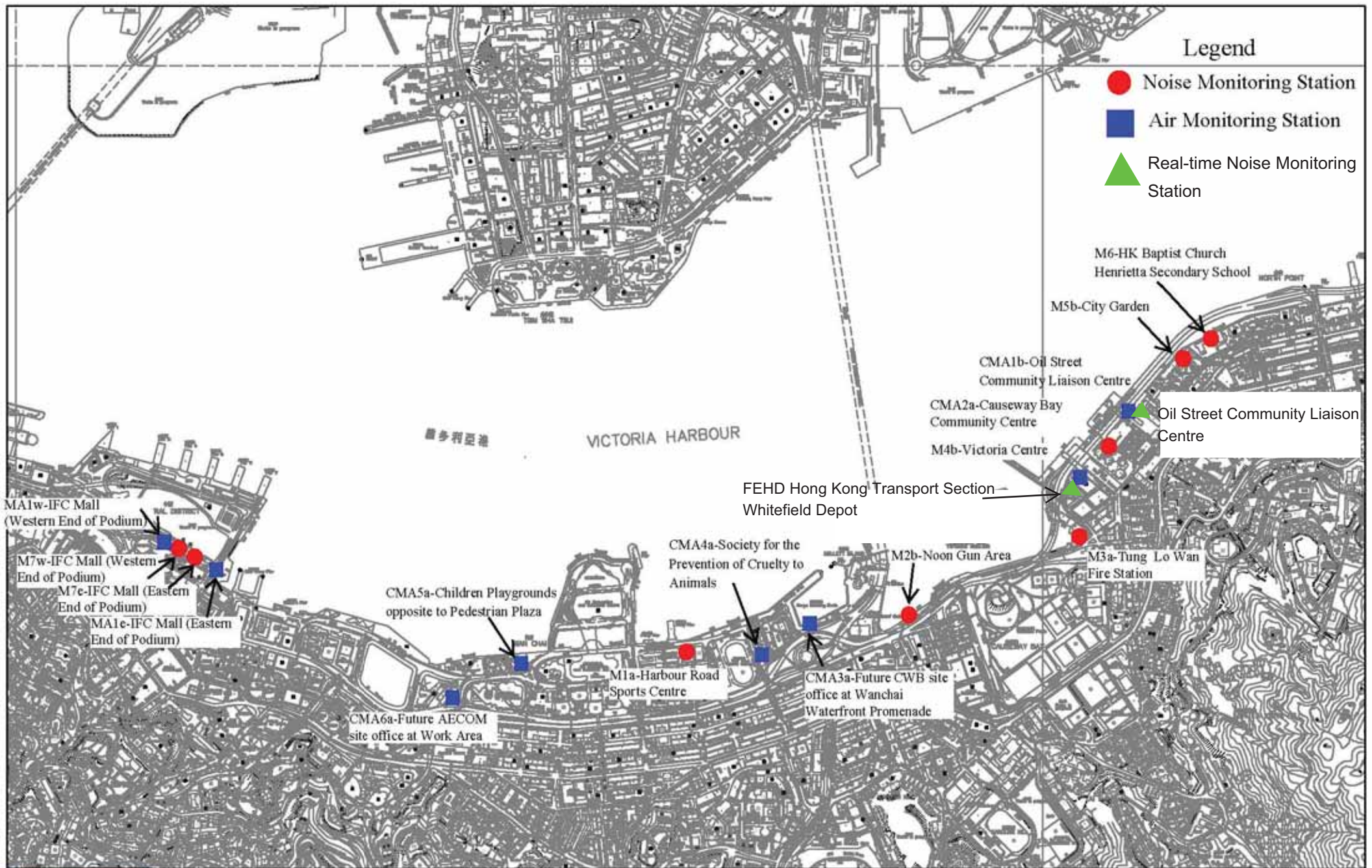


**LEGEND:**

**WATER QUALITY MONITORING STATIONS**

- C1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
- C2 TELECOM HOUSE/HK ACADEMY FOR PERFORMING/ SHUI ON CENTRE
- C3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE I
- C4 WAN CHAI TOWER AND GREAT EAGLE CENTRE
- C5 SUN HUNG KAI CENTRE
- C6 PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
- C7 WINDSOR HOUSE
- C8 CITY GARDEN
- C9 PROVIDENT CENTRE
- RC1 PROPOSED HKAPA EXTENSION
- RC5 SUN HUNG KAI CENTRE (REPROVISION)
- RC7 WINDSOR HOUSE (TEMPORARY REPROVISION)
- WSD21 WAN CHAI
- RW1 WAN CHAI (REPROVISION)

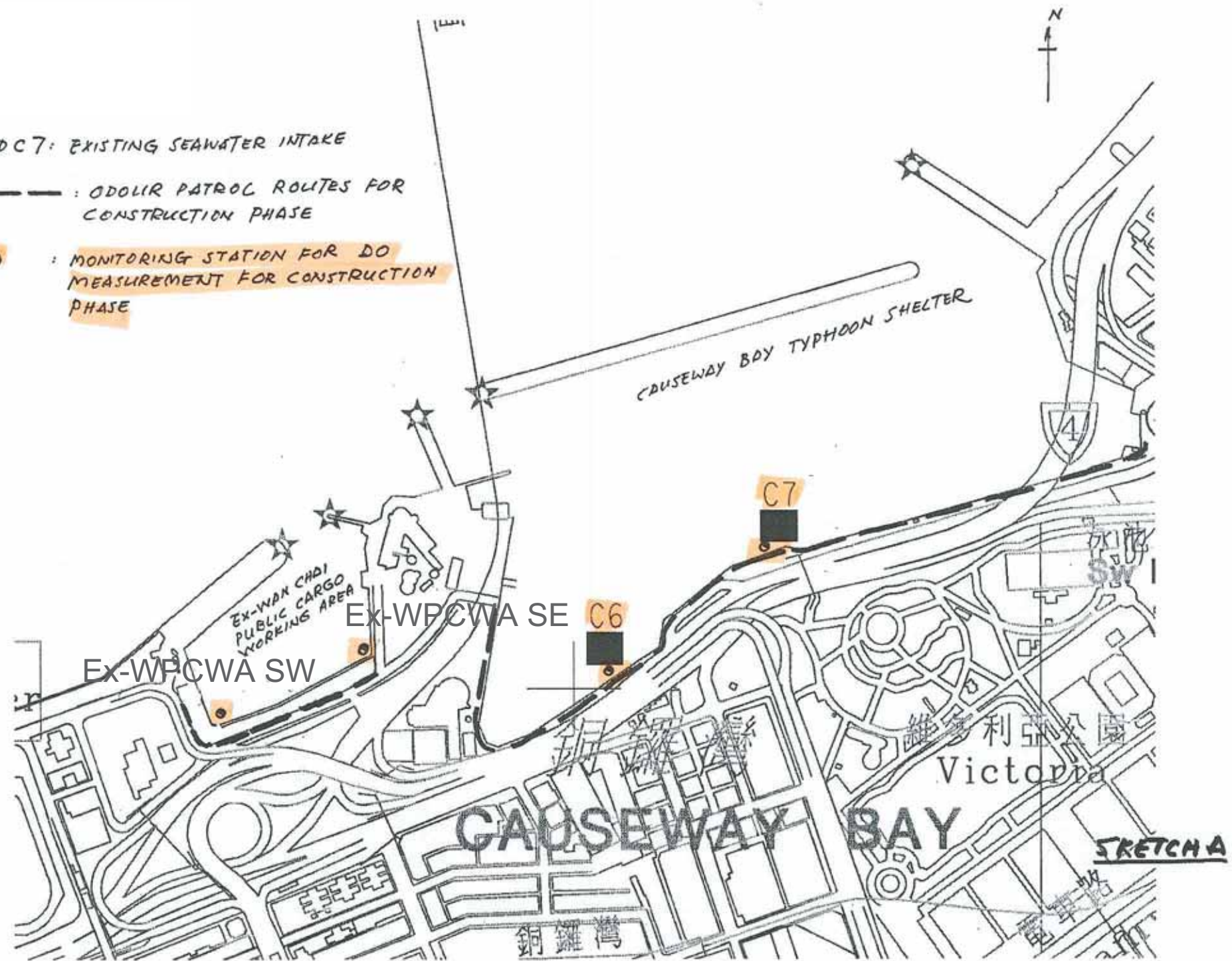




C6 AND C7: EXISTING SEAWATER INTAKE


----- : ODOR PATROL ROUTES FOR CONSTRUCTION PHASE

● : MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE



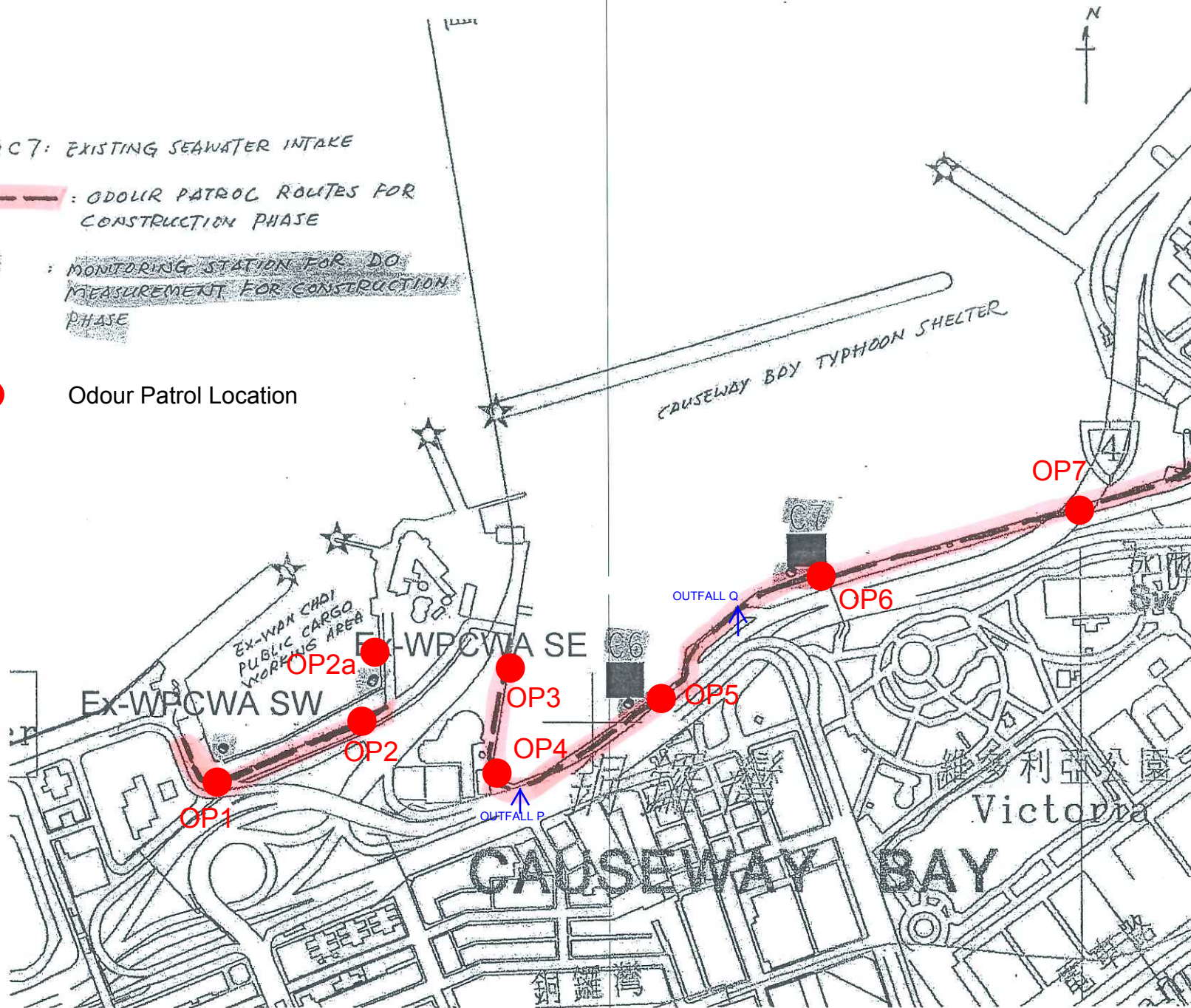


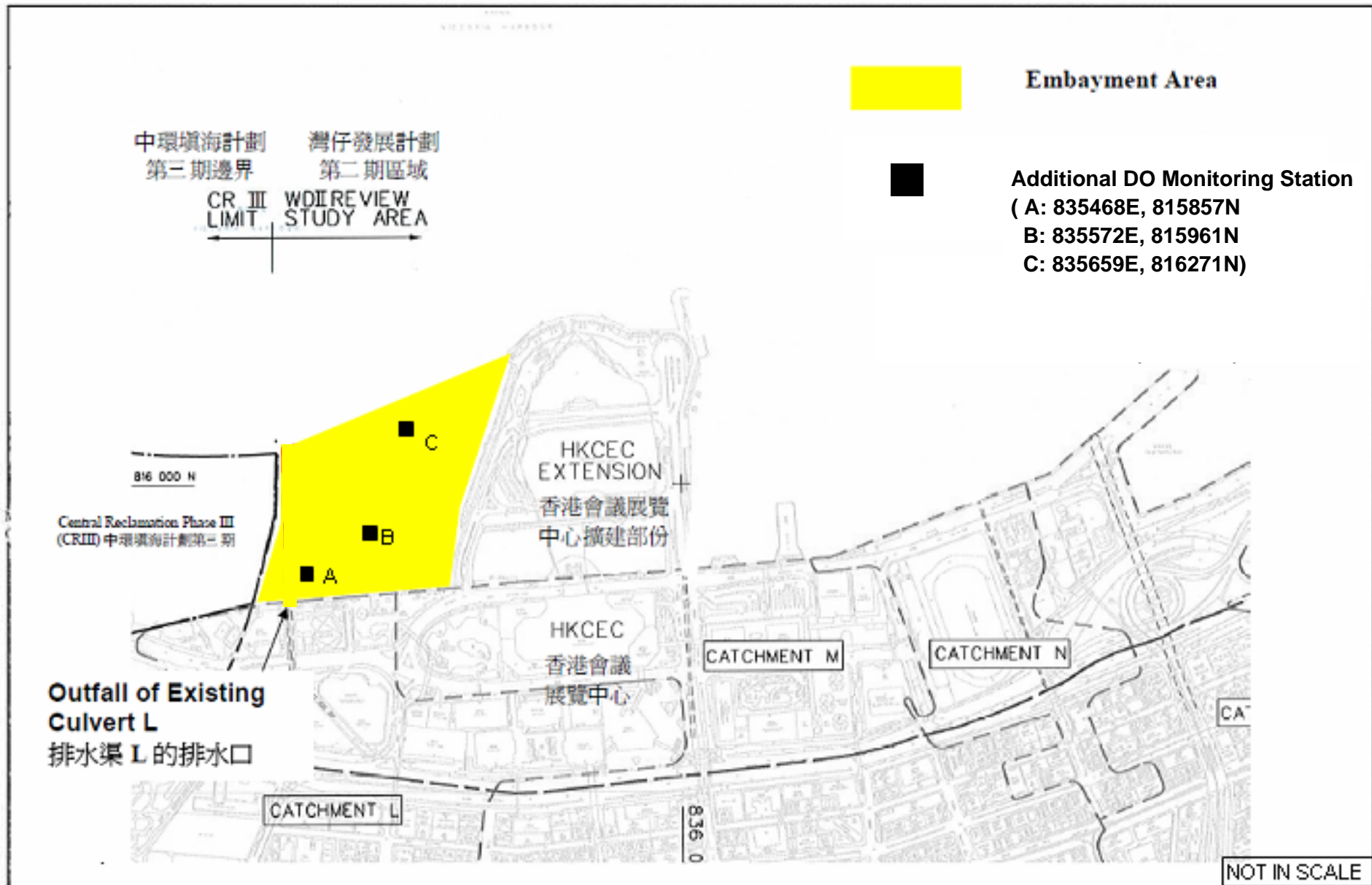
C6 AND C7: EXISTING SEAWATER INTAKE

 : ODOR PATROL ROUTES FOR CONSTRUCTION PHASE

 : MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE

 Odour Patrol Location





Location Plan of Additional Dissolved Oxygen Monitoring Stations for Culvert L Water Discharge Flow



***Appendix 2.1***

***Environmental Mitigation Implementation Schedule***

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. <ul style="list-style-type: none"> <li>Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition;</li> <li>Watering during excavation and material handling;</li> <li>Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> </ul>	Work site / during construction	Contractor		√			

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <sup>1</sup>		√			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD <sup>2</sup>		√			EIAO-TM
<b>Operation Phase</b>								
<i>For the Whole Project</i>								

<sup>1</sup> CEDD will identify an implementation agent.

<sup>2</sup> CEDD will identify an implementation agent.

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on-going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD <sup>1</sup>			√		EIAO-TM
<b>For DPI – CWB (Within the Project Boundary)</b>								
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			√		
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			√		EIAO-TM

- Des - Design, C - Construction, O – Operation, and Dec – Decommissioning

Appendix 2.1

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<b>For the Whole Project</b>								

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.9.4	<p>Good Site Practice:</p> <ul style="list-style-type: none"> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum.</li> <li>Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<i>For DP1 – CWB (Within the Project Boundary)</i>								

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.3 – S4.8.5	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> <li>Slip road 8 tunnel</li> <li>Construction of diaphragm wall and substructures of the tunnel approach ramp</li> <li>Excavation</li> <li>Construction of slabs</li> <li>Backfill</li> <li>Demolition and construction of substructures for the IEC</li> <li>Demolition works of existing piers and crossheads of the marine section of the existing IEC</li> </ul> <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<i>For DP2 – WDII Major Roads (Road P2)</i>								
S4.8.3 – S4.8.4	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> <li>Temporary road diversion</li> <li>Resurfacing</li> <li>At-grade roadwork</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<i>For DP3 – Reclamation Works</i>								
S4.8.3 – S4.8.4	<p>Use of quiet powered mechanical equipment for the following task:</p> <ul style="list-style-type: none"> <li>Filling behind seawall</li> <li>Seawall construction</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>For DP5 – Wan Chai East Sewage Outfall</b>								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: <ul style="list-style-type: none"> <li>Submarine pipelines (marine section)</li> </ul> Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: <ul style="list-style-type: none"> <li>Installation of a new pipeline (land section)</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<b>For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui</b>								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: <ul style="list-style-type: none"> <li>Submarine pipelines (marine section)</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Operation Phase</b>								
<b>For DP1 – CWB (Within the Project Boundary)</b>								

Appendix 2.1





**Table A13.3 Implementation Schedule for Water Quality Control**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For DP3 – Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui), DP1 – CWB (within the Project Boundary)</i>								
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	Dredging shall be carried out by closed grab dredger for the following works: <ul style="list-style-type: none"> <li>Seawall construction in all the reclamation areas;</li> <li>Construction of the CWB Tunnel</li> <li>Construction of the proposed WSD water mains; and</li> <li>Construction of the proposed Wan Chai East sewage outfall pipelines.</li> </ul>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: <ul style="list-style-type: none"> <li>Dredging along the proposed cross-harbour water mains;</li> <li>Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).</li> </ul>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines																								
				Des	C	O	Dec																									
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																								
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CR111 and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																								
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Reclamation Area</th> <th colspan="2">Maximum Dredging Rate</th> <th rowspan="2">Maximum Dredging Rate (m<sup>3</sup> per week)</th> </tr> <tr> <th>m<sup>3</sup> per day</th> <th>m<sup>3</sup> per hour (for 16 hrs per day)</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Dredging along seawall or breakwater</b></td> </tr> <tr> <td>North Point Shoreline Zone (NPR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>Causeway Bay</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Shoreline Zone</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>PCWA Zone</td> <td>5,000</td> <td>313</td> <td>35,000</td> </tr> </tbody> </table>		Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m <sup>3</sup> per week)	m <sup>3</sup> per day	m <sup>3</sup> per hour (for 16 hrs per day)	<b>Dredging along seawall or breakwater</b>				North Point Shoreline Zone (NPR)	6,000	375	42,000	Causeway Bay	1,500	94	10,500	Shoreline Zone	6,000	375	42,000	PCWA Zone	5,000	313	35,000					
Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m <sup>3</sup> per week)																													
	m <sup>3</sup> per day	m <sup>3</sup> per hour (for 16 hrs per day)																														
<b>Dredging along seawall or breakwater</b>																																
North Point Shoreline Zone (NPR)	6,000	375	42,000																													
Causeway Bay	1,500	94	10,500																													
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Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures				Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines																			
							Des	C	O	Dec																				
	<table border="1"> <tr> <td>Wan Chai Shoreline Zone (WCR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>HKCEC Shoreline Zone (HKCEC)</td> <td colspan="2">HKCEC Stage 1 &amp; 3</td> <td>10,500</td> </tr> <tr> <td></td> <td colspan="2">HKCEC Stage 2</td> <td>42,000</td> </tr> <tr> <td>Cross Harbour Water Mains</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Wan Chai East Submarine Sewage Pipeline</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> </table> <p>Note: 1,500 m<sup>3</sup> per day shall be applied for construction of the western seawall of WCR1.</p>				Wan Chai Shoreline Zone (WCR)	6,000	375	42,000	HKCEC Shoreline Zone (HKCEC)	HKCEC Stage 1 & 3		10,500		HKCEC Stage 2		42,000	Cross Harbour Water Mains	1,500	94	10,500	Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500						
Wan Chai Shoreline Zone (WCR)	6,000	375	42,000																											
HKCEC Shoreline Zone (HKCEC)	HKCEC Stage 1 & 3		10,500																											
	HKCEC Stage 2		42,000																											
Cross Harbour Water Mains	1,500	94	10,500																											
Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500																											
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m <sup>3</sup> per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.				Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																			
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.				Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																			
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.				Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																			
S5.8, Figure 5.3	<p>Silt screens shall be applied to seawater intakes at interim construction stages as stated below:</p> <table border="1"> <thead> <tr> <th>Interim Construction Stage</th> <th>Location of Applications</th> </tr> </thead> <tbody> <tr> <td>Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,</td> <td>WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong</td> </tr> </tbody> </table>				Interim Construction Stage	Location of Applications	Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,	WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO															
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Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines					
					Des	C	O	Dec						
	<table border="1"> <tr> <td>TBW, NP and Water Mains Zone</td> <td>Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre</td> </tr> <tr> <td>Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.</td> <td>WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.</td> </tr> <tr> <td>Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.</td> <td>WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel &amp; World Trade Centre and reprovisioned Windsor House.</td> </tr> </table>		TBW, NP and Water Mains Zone	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre	Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.						
TBW, NP and Water Mains Zone	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre													
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Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.													
S5.8	<p>Other mitigation measures include:</p> <ul style="list-style-type: none"> <li>mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used;</li> <li>all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;</li> <li>loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and</li> </ul>		Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)					

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> <li>before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.</li> </ul>							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging rate shall be reduced as much as practicable. Site audit and water quality monitoring shall be carried out at the seawater intakes during the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Implementation of harbour-front enhancement.	CEDD <sup>3</sup>		√			WPCO

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	
				Des	C	O	Dec		
<b>For the Whole Project</b>									
S5.8	<ul style="list-style-type: none"> <li>Construction Runoff and Drainage</li> <li>use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow;</li> <li>Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;</li> <li>a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal;</li> <li>oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain;</li> <li>precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events;</li> <li>on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge;</li> <li>All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer</li> </ul>	<ul style="list-style-type: none"> <li>Work site / During the construction period</li> </ul>	Contractor		√				ProPECC PN 1/94; WPCO (TM-DSS)

<sup>3</sup> CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>required.</p> <ul style="list-style-type: none"> <li>All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity.</li> </ul>							
	<ul style="list-style-type: none"> <li>Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.</li> </ul>							
S5.8	<p><i>Sewage from Construction Work Force</i></p> <p>Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.</p>	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<p><i>Floating Debris and Refuse</i></p> <p>Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.</p>	Work site and adjacent water / During the construction period.	Contractor		√			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	<p><i>Storm Water Discharges</i></p> <p>Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.</p>	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
<b>Operation Phase</b>								
<i>DPI – CWB (within the Project Boundary)</i>								
S5.8	<p>For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO:</p> <ul style="list-style-type: none"> <li>The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes.</li> <li>Petrol interceptors shall be regularly cleaned and maintained in good working condition.</li> <li>Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.</li> <li>Sewage arising from ancillary facilities of CWB (for examples, car park,</li> </ul>	CWB/During design and operational period	HyD/TD <sup>3</sup>	√		√		WPCO

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities.</p> <ul style="list-style-type: none"> <li>Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff.</li> <li>The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.</li> </ul>							

\* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

<sup>3</sup> if employ Management, Operation and Maintenance (MOM) Contract

Appendix 2.1

**Table A13.4 Implementation Schedule for Waste Management**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For DP3 – Reclamation Works</i>								
S6.7.2	<p><b>Marine Sediments</b></p> <p>The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 34/2002
S6.7.3	<p>Based on the biological screening results, the Category H (&gt;10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm<sup>3</sup>. A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.</p>							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.5	<p>It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered</p>							
S6.7.6	<p>During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality:</p> <ul style="list-style-type: none"> <li>Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.</li> </ul>							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> <li>Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.</li> <li>Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.</li> </ul>							
S6.6.12	<p><b>Floating Refuse</b></p> <p>During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.</p>	Work site / During the construction period	Contractor		√			
<i>For the Whole Project</i>								

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.7	<p><b>Good Site Practices</b></p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> <li>nomination of an approved person, such as a 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;</li> <li>training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>provision of sufficient waste disposal points and regular collection for disposal;</li> <li>appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and</li> <li>a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	Work site / During the construction period	Contractor		√			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.8	<p><i>Waste Reduction Measures</i></p> <p>Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> <li>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;</li> <li>to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force;</li> <li>any unused chemicals or those with remaining functional capacity shall be recycled;</li> <li>use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&amp;D material.</li> <li>prior to disposal of C&amp;D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;</li> <li>proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> <li>plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	Work site / During planning and design stage, and construction stage	Contractor	√	√			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.10	<p><i>General Refuse</i></p> <p>General refuse shall be stored in enclosed bins or compaction units separate from C&amp;D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&amp;D material.</p> <p>A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	<p><i>Chemical Wastes</i></p> <p>After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</p>	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation  Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	<p><i>Construction and Demolition Material</i></p> <p>C&amp;D material shall be sorted on-site into inert C&amp;D material (that is, public fill) and C&amp;D waste. All the suitable inert C&amp;D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&amp;D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		√			ETWB TCW No. 31/2004
S6.7.14	<i>Bentonite Slurry</i> The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: <ul style="list-style-type: none"> <li>If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.</li> <li>If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.</li> <li>If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.</li> </ul>	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

\* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
S.12.6	<ul style="list-style-type: none"> <li>The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.</li> </ul>	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re-provisioned Tin Hau Temple	√				<i>"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops"</i> published by EPD, HKSAR  EPD ProPECC Note No. 3/94
S7.10	During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: <ul style="list-style-type: none"> <li>Excavation profiles must be properly designed and executed;</li> <li>In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;</li> <li>Quantities of soil to be excavated must be estimated;</li> <li>It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination.</li> <li>Temporary storage of soil at intermediate depot or on-site</li> </ul>	A King Marine / During soil remediation works	Contractor	√				Air Pollution Control Ordinance Noise Control Ordinance  Waste Disposal Ordinance  Waste Disposal (Chemical Waste) (General) Regulation

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	<ul style="list-style-type: none"> <li>Supply of suitable clean backfill materials is needed after excavation.</li> <li>Care must be taken of existing buildings and utilities.</li> <li>Precautions must be taken to control of ground settlement</li> <li>Speed controls for vehicles shall be imposed on dusty site areas.</li> <li>Vehicle wheel and body washing facilities at the site's exit points shall be established and used.</li> </ul> <p>The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities:</p>							Water Pollution Control Ordinance

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Air Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system.</li> <li>The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations.</li> <li>All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement.</li> <li>Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.</li> </ul>							
	<p><u>Noise Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers.</li> <li>Simultaneous operation of mixing facilities and other equipment shall be avoided.</li> <li>Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers.</li> <li>Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).</li> </ul>							

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Water Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following the requirements of WPCO.</li> </ul> <p><u>Waste Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment.</li> <li>Stabilized soils shall be broken into suitable size for backfilling or reuse on site.</li> <li>A high standard of housekeeping shall be maintained within the mixing plant area.</li> <li>If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials.</li> </ul>							

\* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 2.1

**Table A13.6 Implementation Schedule for Marine Ecology**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project - Schedule 3 DP</i>								
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
<i>For DP3 - Reclamation Works</i>								
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.4	<p>During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following:</p> <ul style="list-style-type: none"> <li>• Installation of silt curtains during dredging activities</li> <li>• Use of tightly-closed grab dredger</li> <li>• Reduction of dredging rate</li> <li>• Control of grab descending speed</li> <li>• Construction of leading edges of seawall in the early stages of the reclamation works</li> </ul>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	<ul style="list-style-type: none"> <li>• Adoption of multiple-phase construction schedule</li> </ul>							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.6	<p>To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended:</p> <ul style="list-style-type: none"> <li>• Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible.</li> <li>• Adoption of multiple-phase construction schedule.</li> <li>• General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented.</li> </ul>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	<p>Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.</p>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	<p>Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.</p>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

\*Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 2.1

**Table A13.7 Implementation Schedule for Landscape and Visual**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
<i>For DP1 – CWB (Within the Project Boundary)</i>								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
<i>For DP2 – WDII Major Roads (Road P2)</i>								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
<i>For DP3 – Reclamation Works</i>								
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
<i>For DP5 – Wan Chai East Sewage Outfall</i>								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui</b>								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>Operation Phase</b>								
<b>For the Whole Project - Schedule 3 DP</b>								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD/	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD <sup>4</sup>	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
<b>For DP1 – CWB (Within the Project Boundary)</b>								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
<b>For DP2 – WDII Major Roads (Road P2)</b>								

<sup>4</sup> CEDD will identify an implementation agent

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
<b>For DP3 – Reclamation Works</b>								
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD <sup>5</sup>	√	√	√		ETWB TCW 2/2004

\*Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

<sup>5</sup> CEDD will identify an implementation agent



***Appendix 3.1***

***Action and Limit Level***



### Action and Limit Level

#### Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A) <sup>Note 1</sup>

Note 1:

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

#### Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b <sup>Note 2</sup>	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a <sup>Note 2</sup>	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5a <sup>Note 2</sup>	332.0	500	181.0	260
CMA6a <sup>Note 2</sup>	300.1	500	187.3	260

Note 2:

- As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.
- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations.

#### Action and Limit Level for Water Monitoring

Parameters	Dry Season		Wet Season	
	Action	Limit	Action	Limit
<b>WSD Salt Water Intake</b>				
SS in $\text{mg L}^{-1}$	13.00	14.43	16.26	19.74
Turbidity in NTU	8.04	9.49	10.01	11.54
DO in mg/L	3.66	3.28	3.17	2.63
<b>Cooling Water Intake</b>				
SS in $\text{mg L}^{-1}$	15.00	22.13	18.42	27.54
Turbidity in NTU	9.10	10.25	11.35	12.71
DO in mg/L	3.36	2.73	3.02	2.44

Remarks:

- Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.

#### Action and Limit Levels for Odour Patrol

Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	<ul style="list-style-type: none"> <li>• When two documented complaint are received; or</li> <li>• Odour Intensity of 2 is measured from odour intensity analysis.</li> </ul>	<ul style="list-style-type: none"> <li>• Five or more consecutive genuine documented complaints within a week; or</li> <li>• Odour Intensity of 3 or above is measured from odour intensity analysis.</li> </ul>



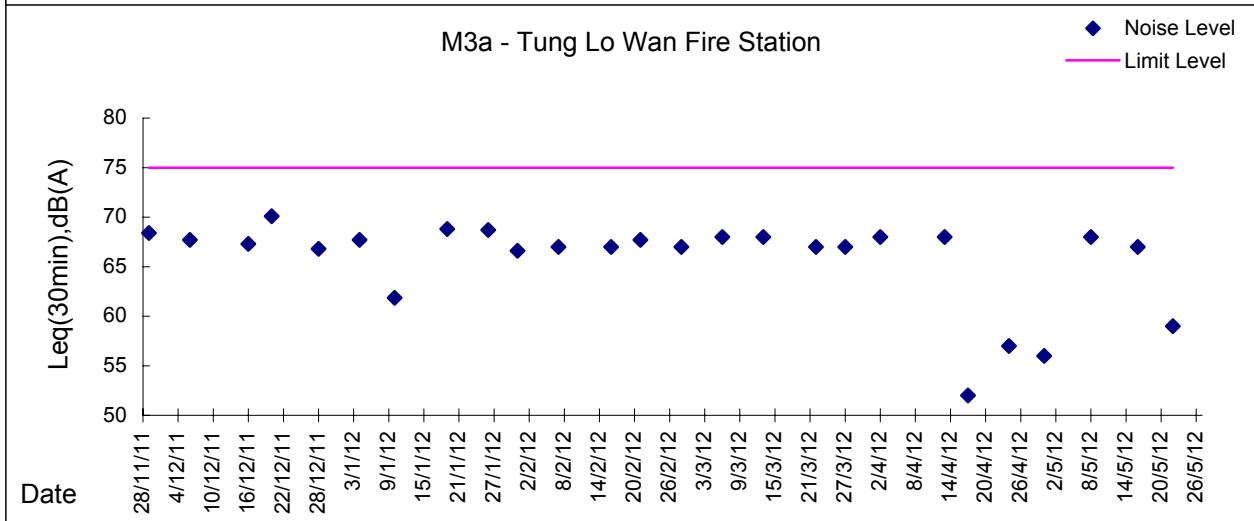
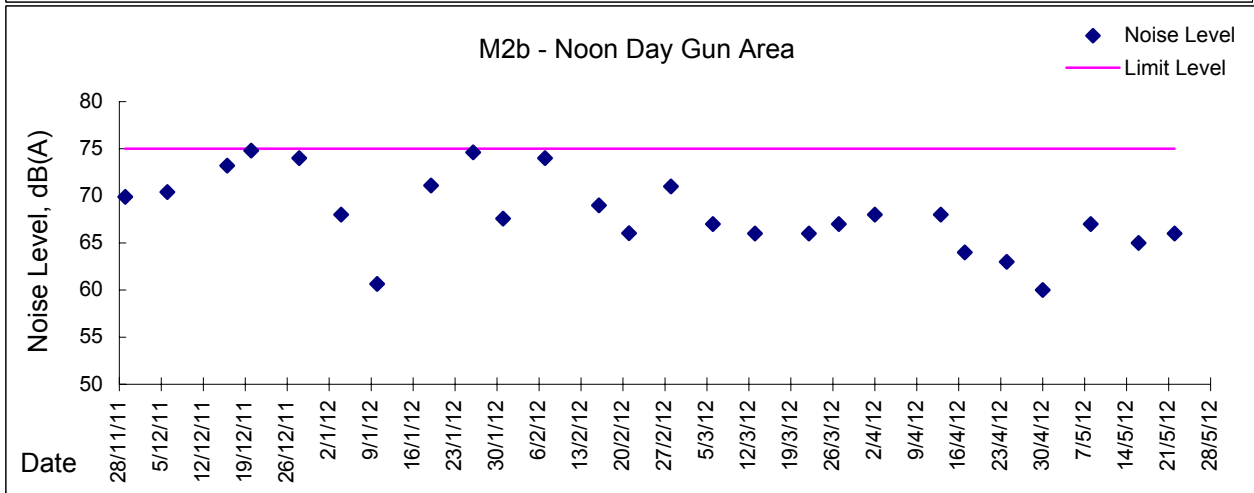
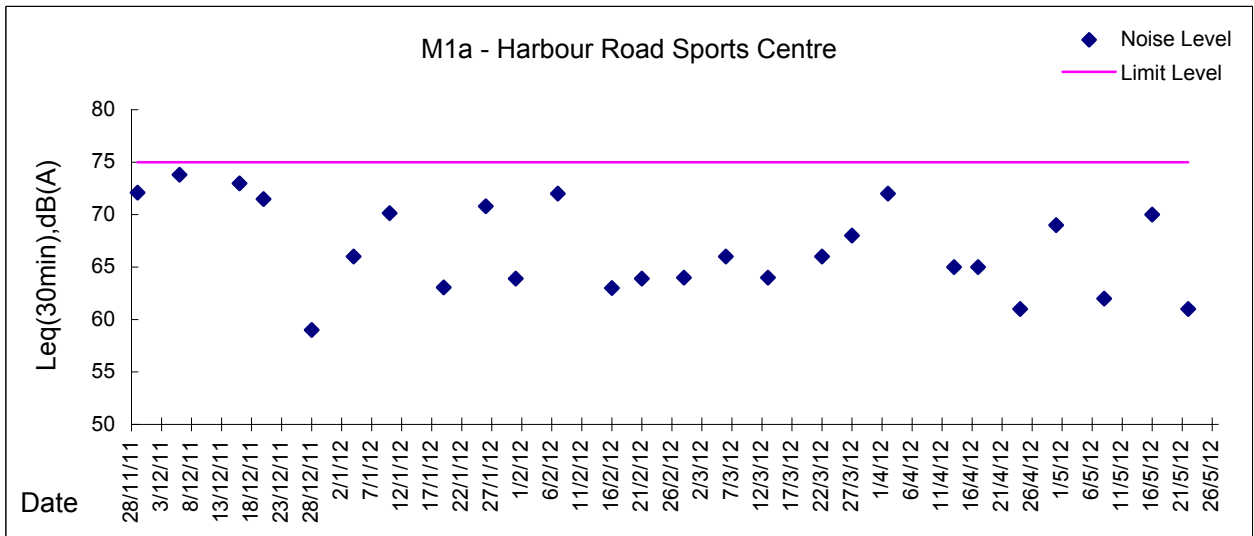
***Appendix 4.1***

***Noise Monitoring Graphical Presentations***



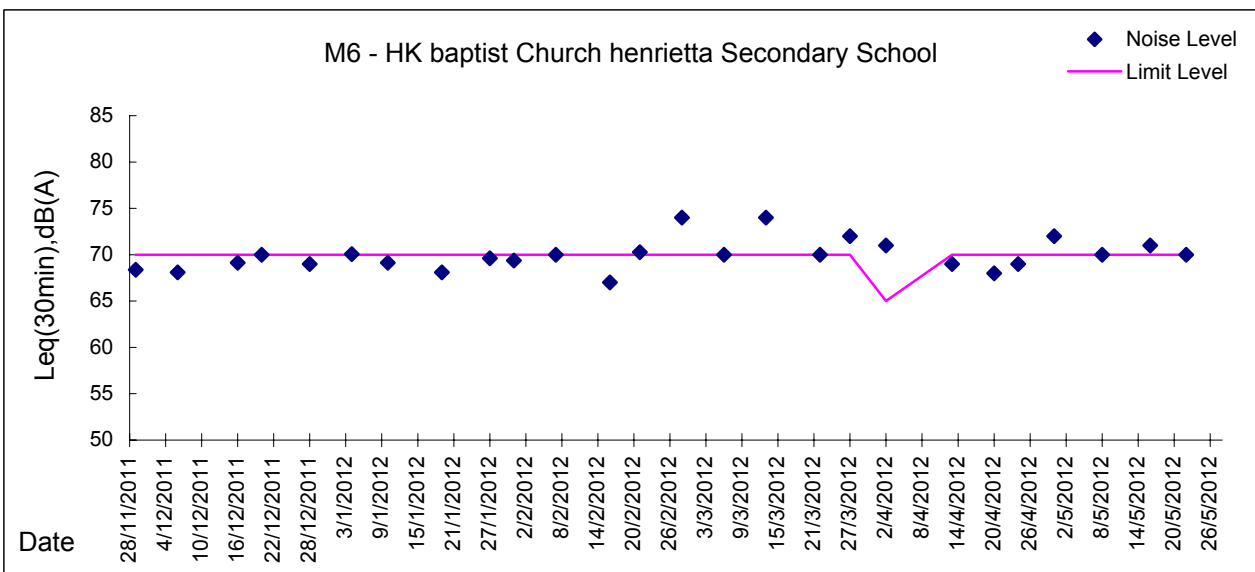
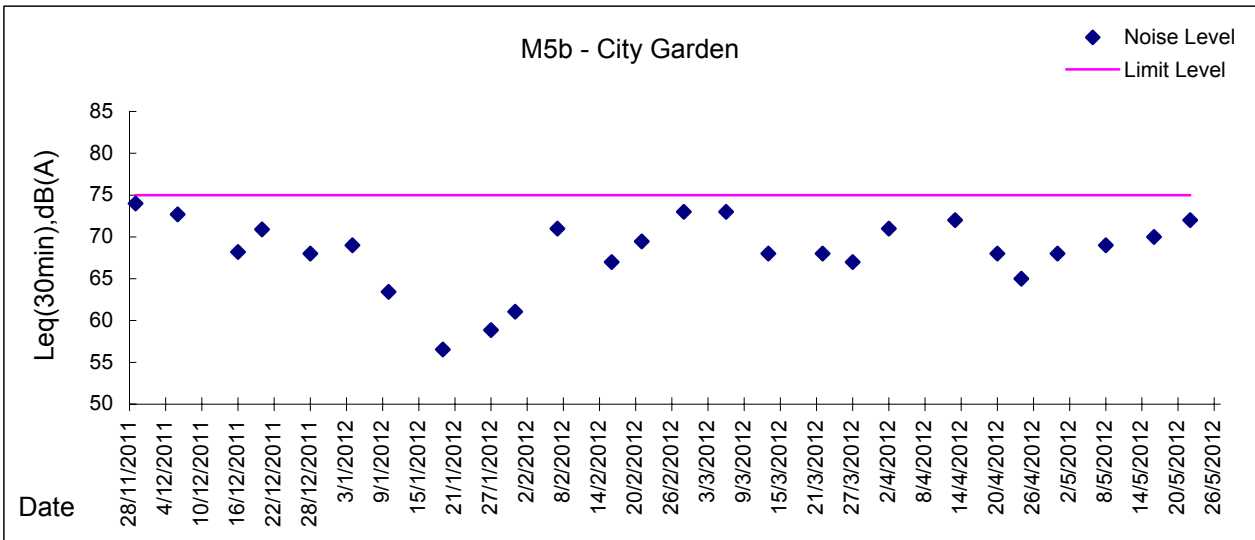
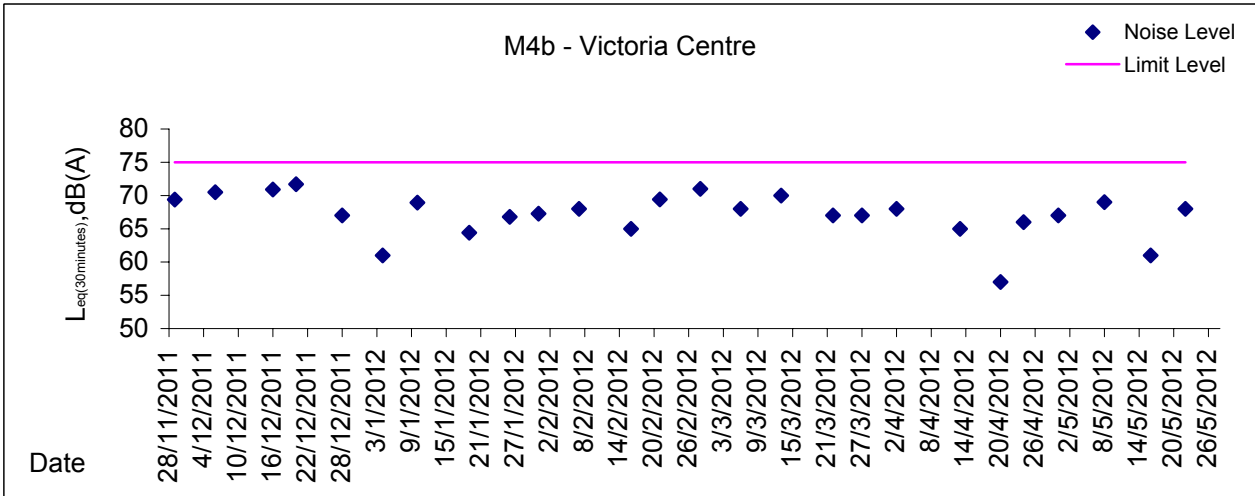
Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)





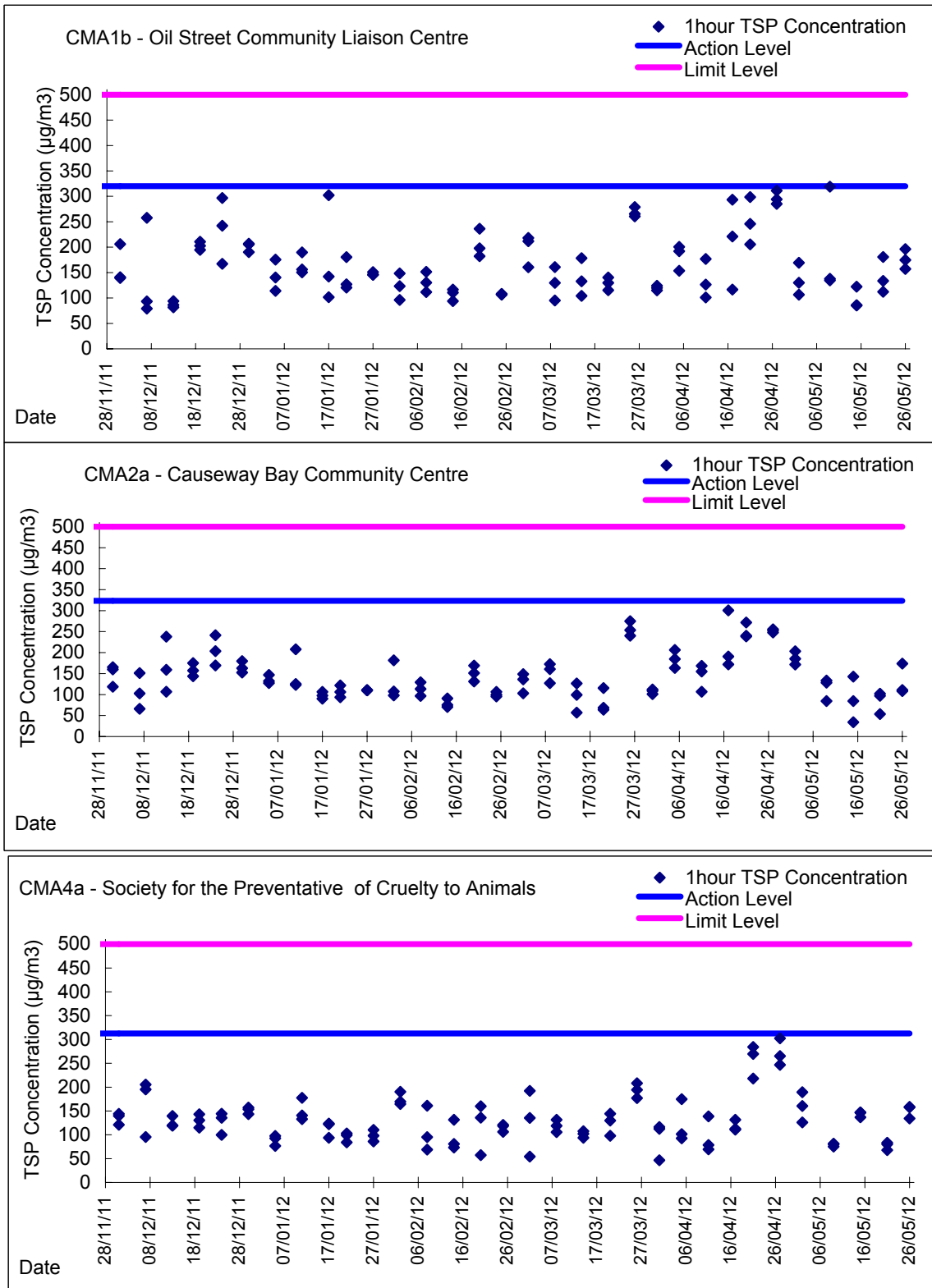
**Graphic Presentation of Noise Monitoring Result**  
**Day Time (0700 - 1900hrs on normal weekdays)**



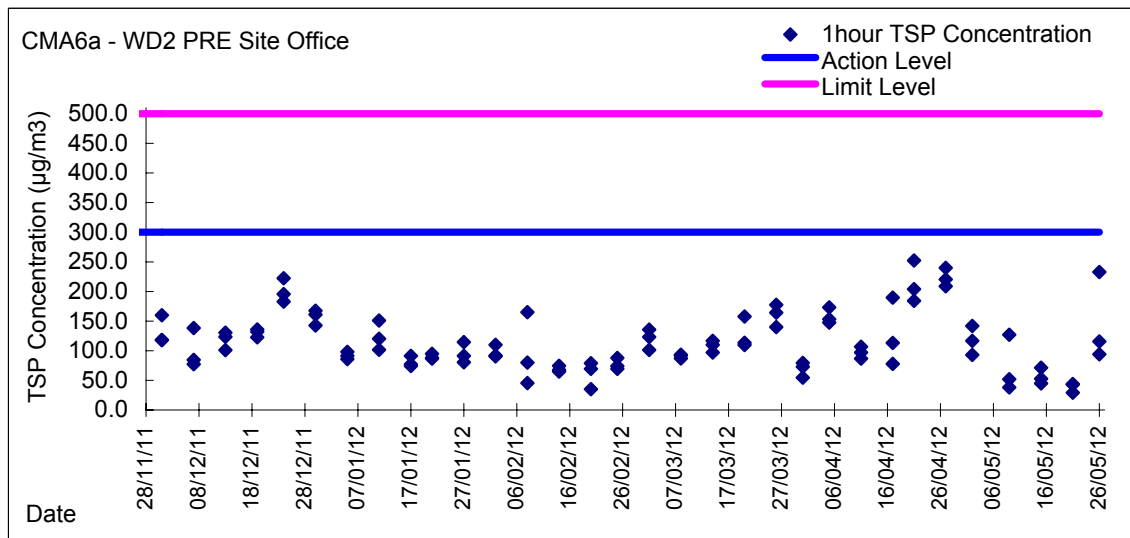
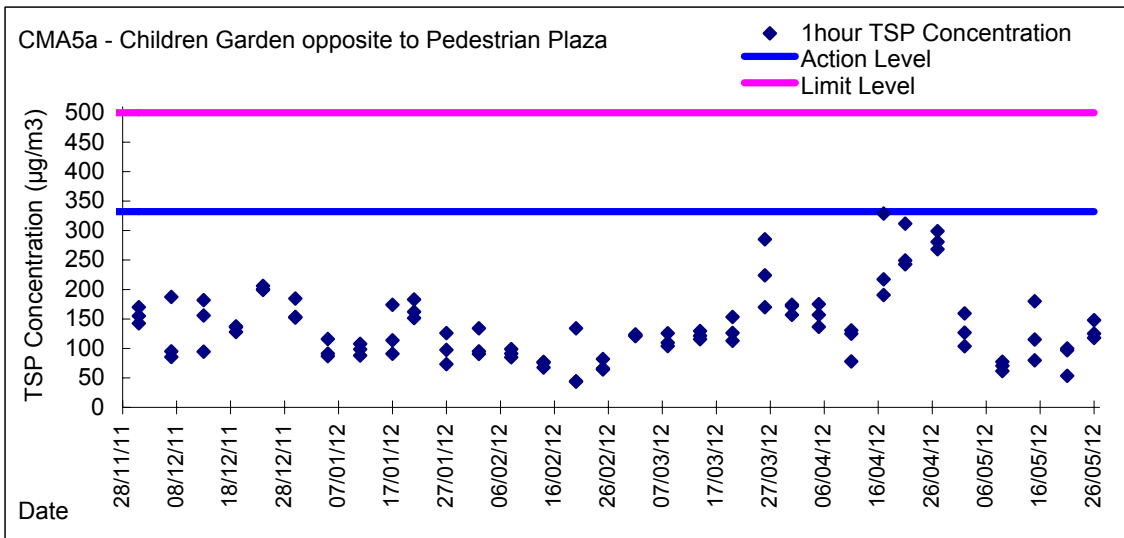
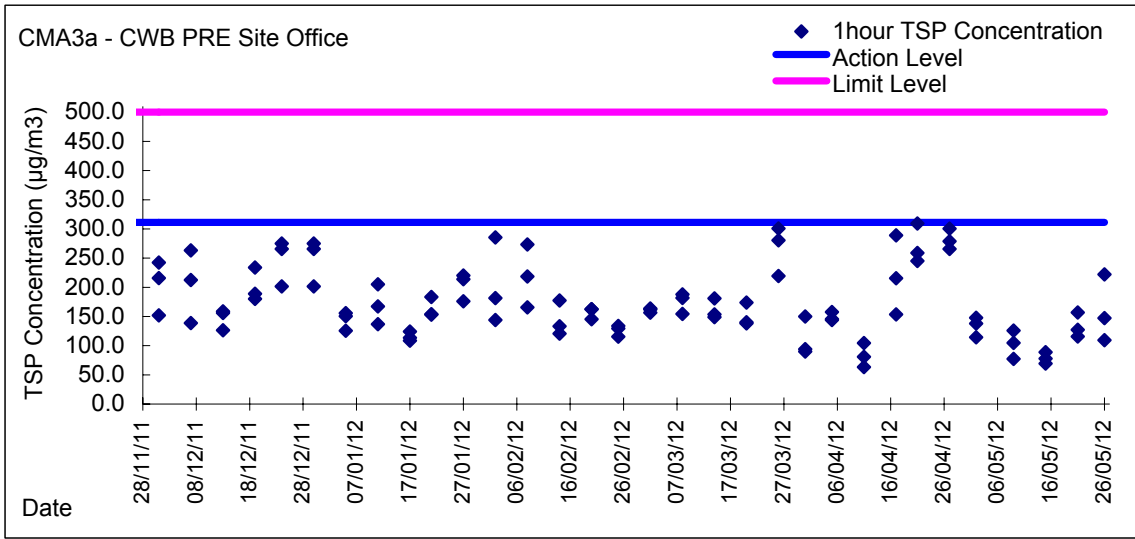


***Appendix 4.2***  
***Air Quality Monitoring Graphical Presentations***

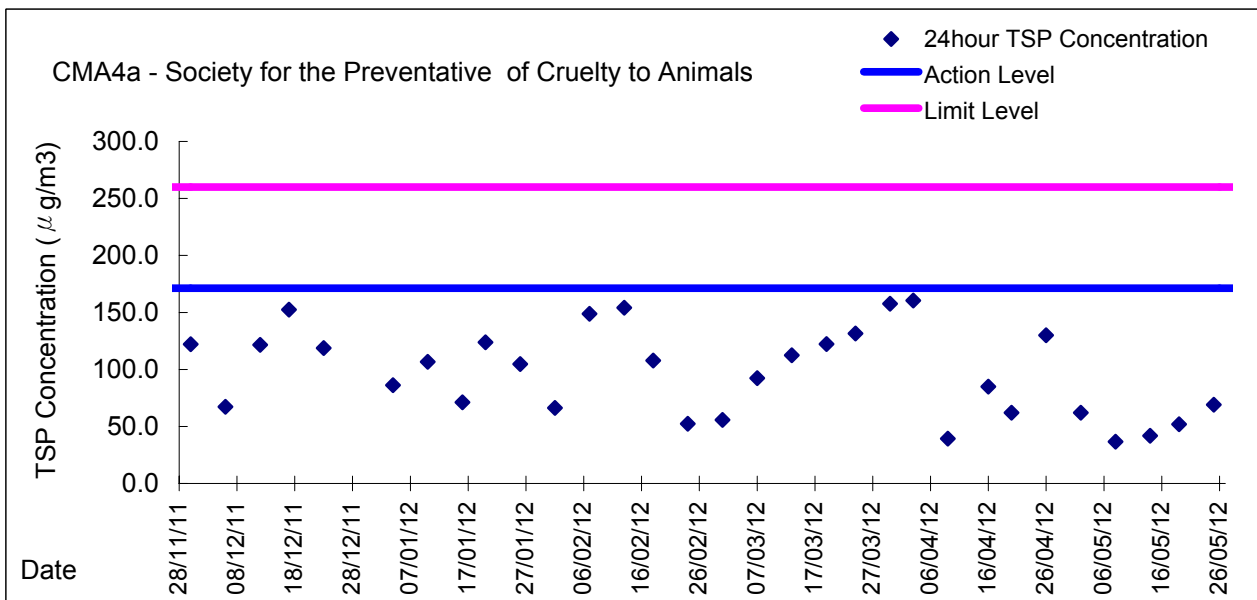
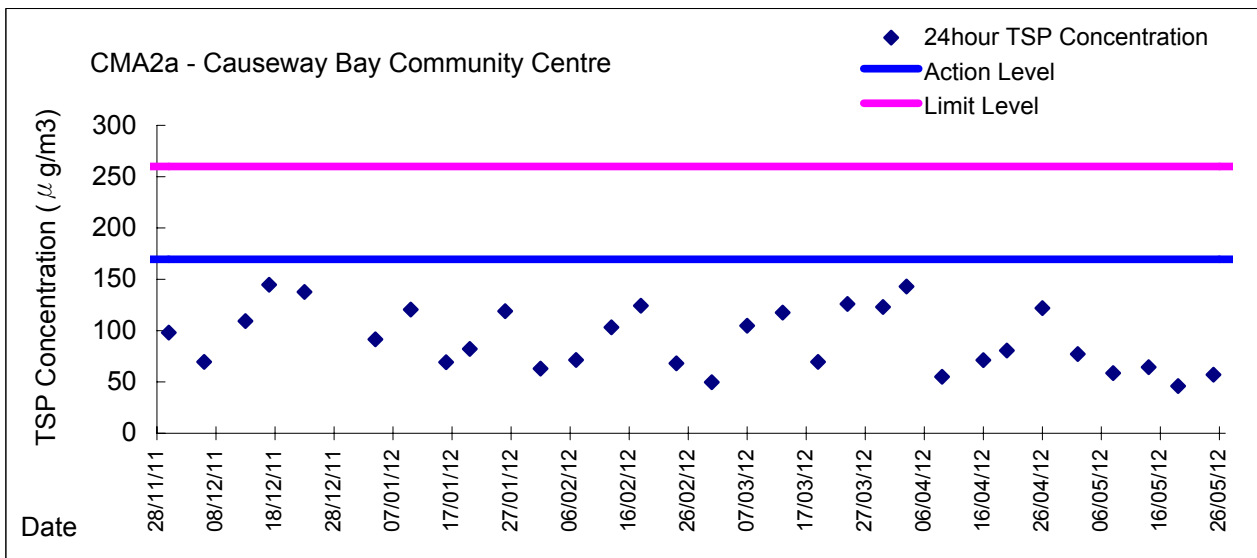
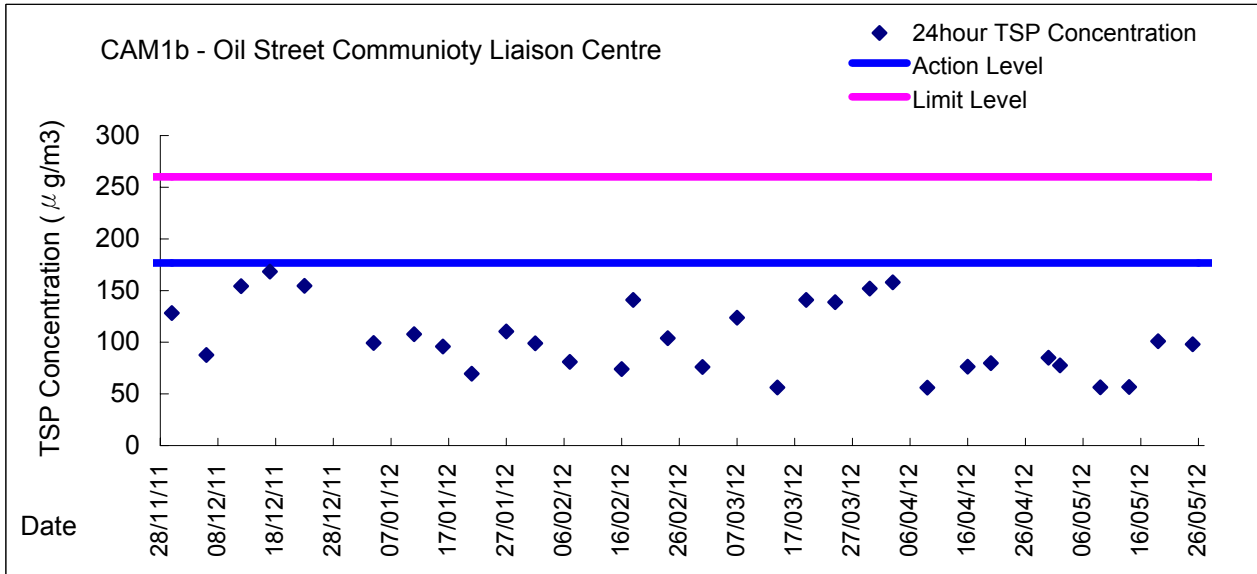
Graphic Presentation of 1 hour TSP Result



Graphic Presentation of 1 hour TSP Result



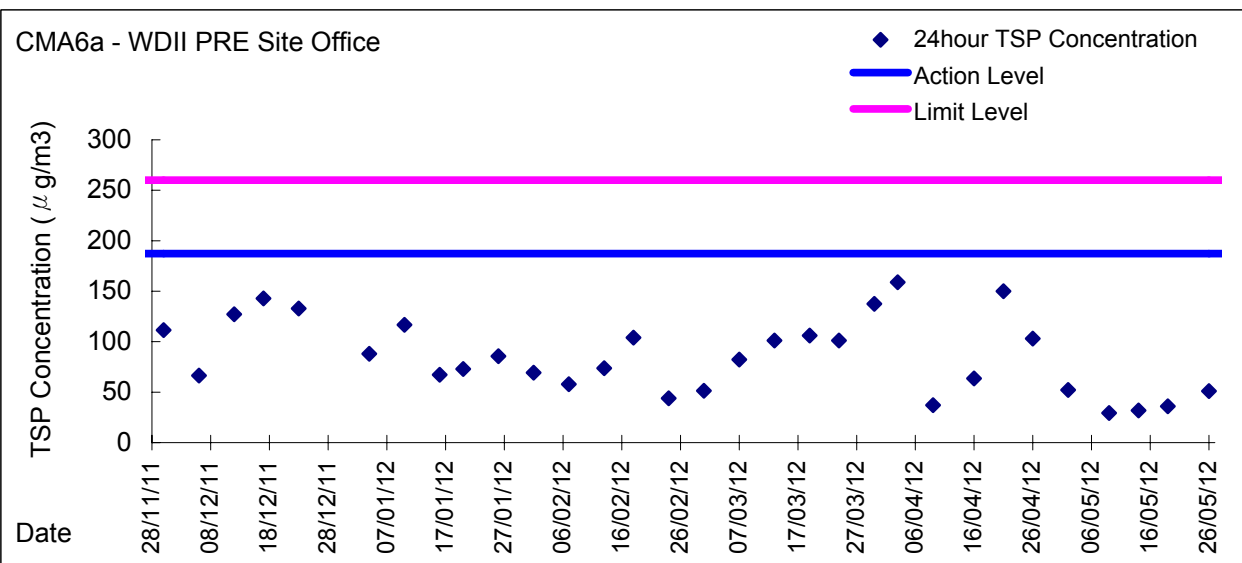
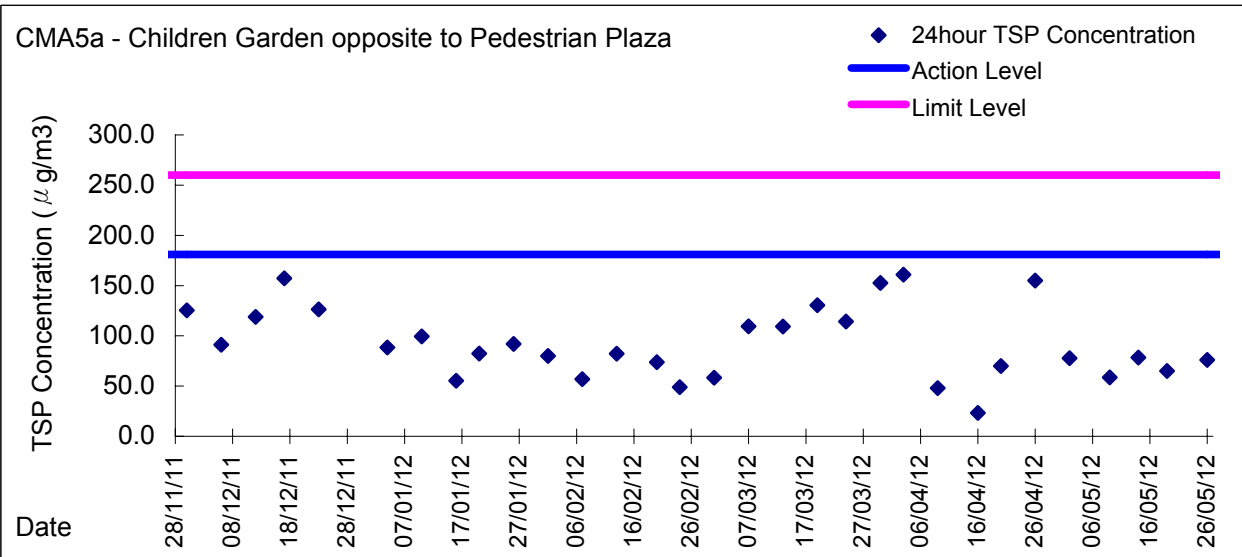
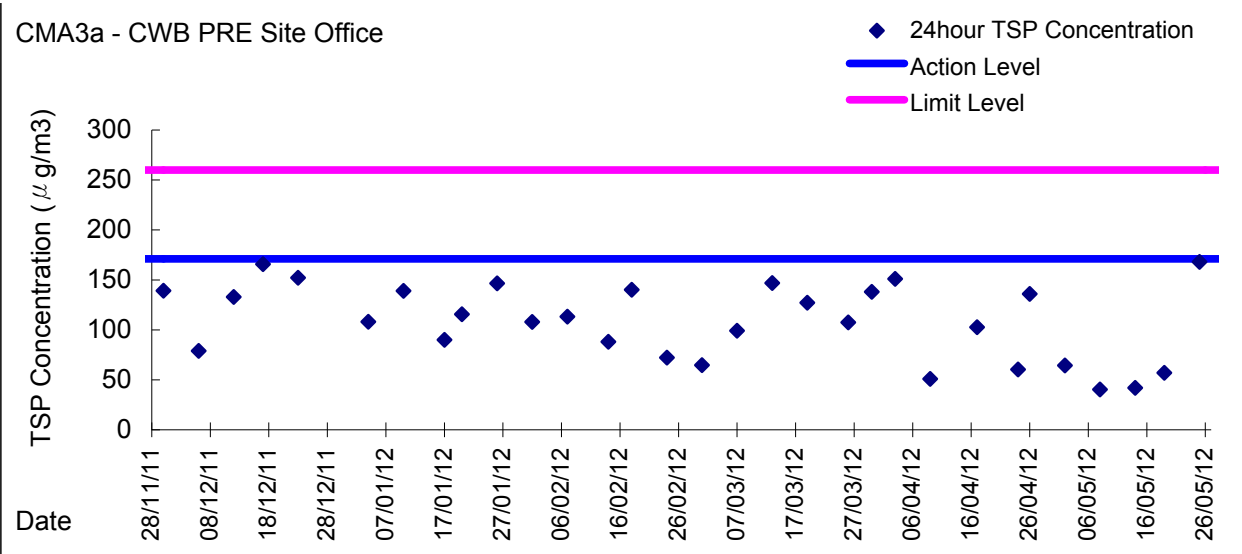
**Graphic Presentation of 24 hour TSP Result**







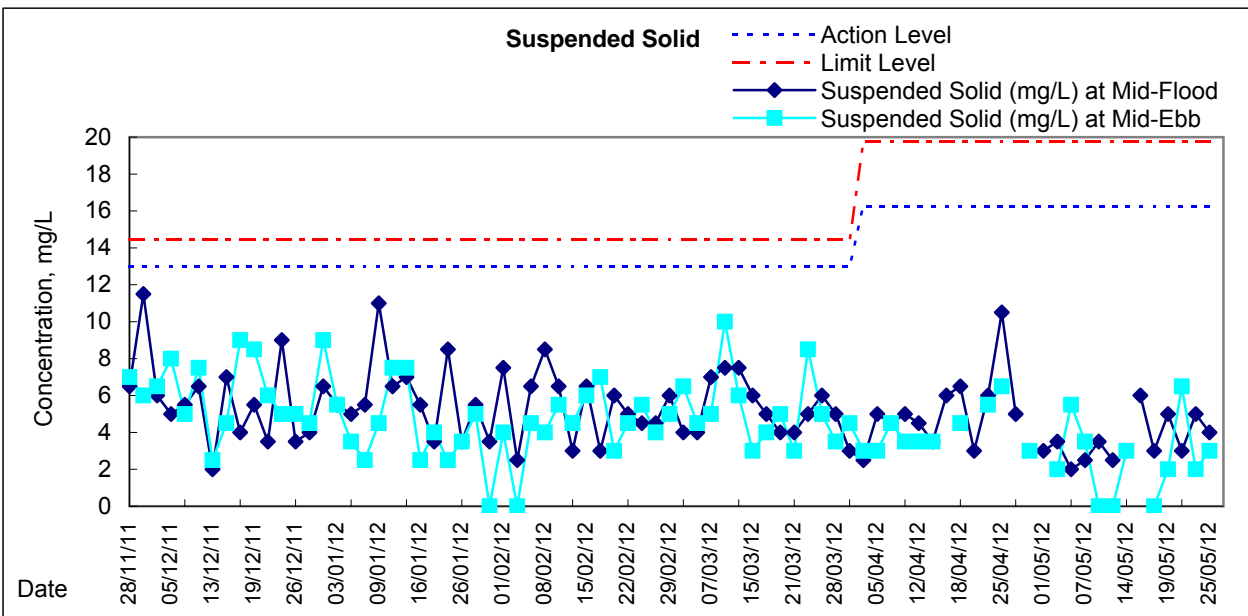
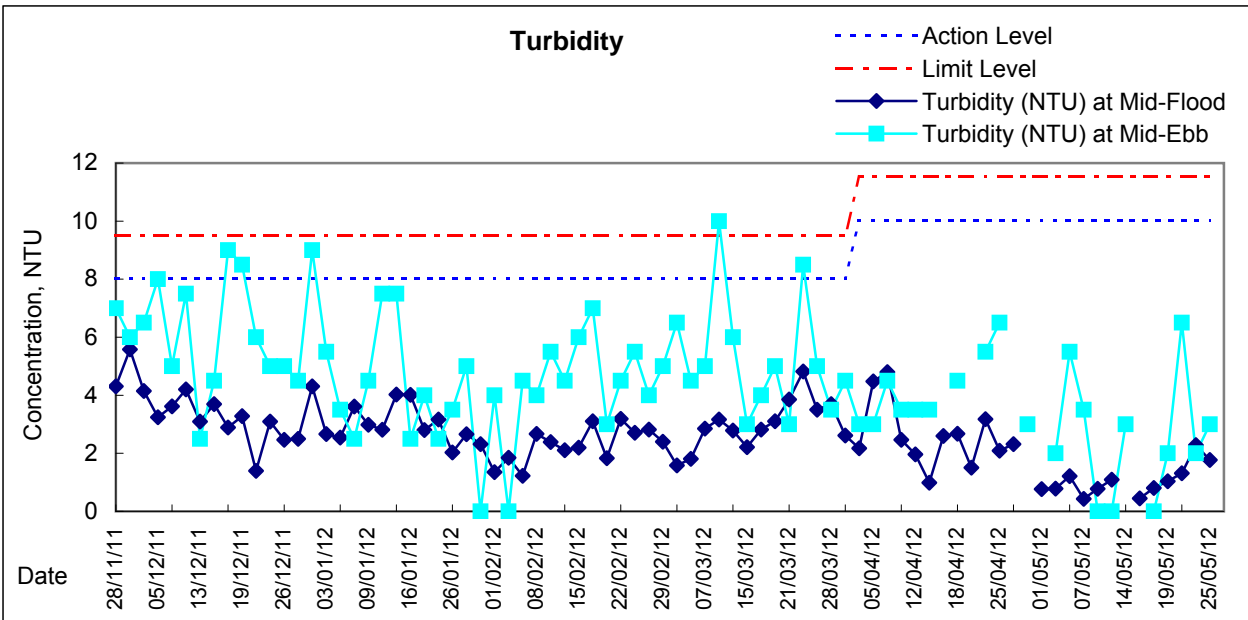
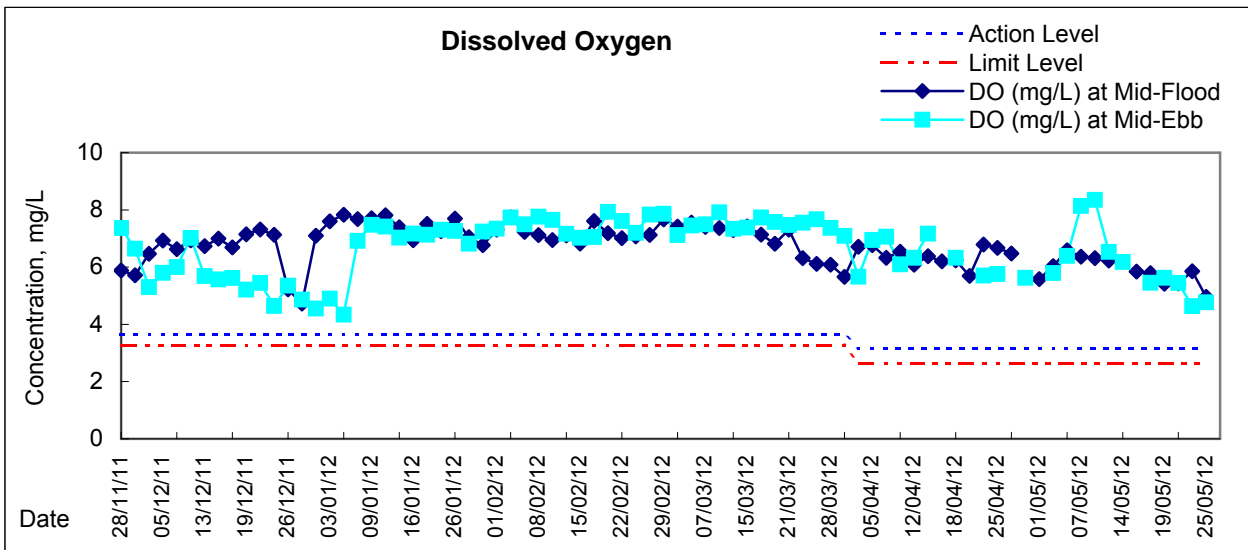
Graphic Presentation of 24 hour TSP Result



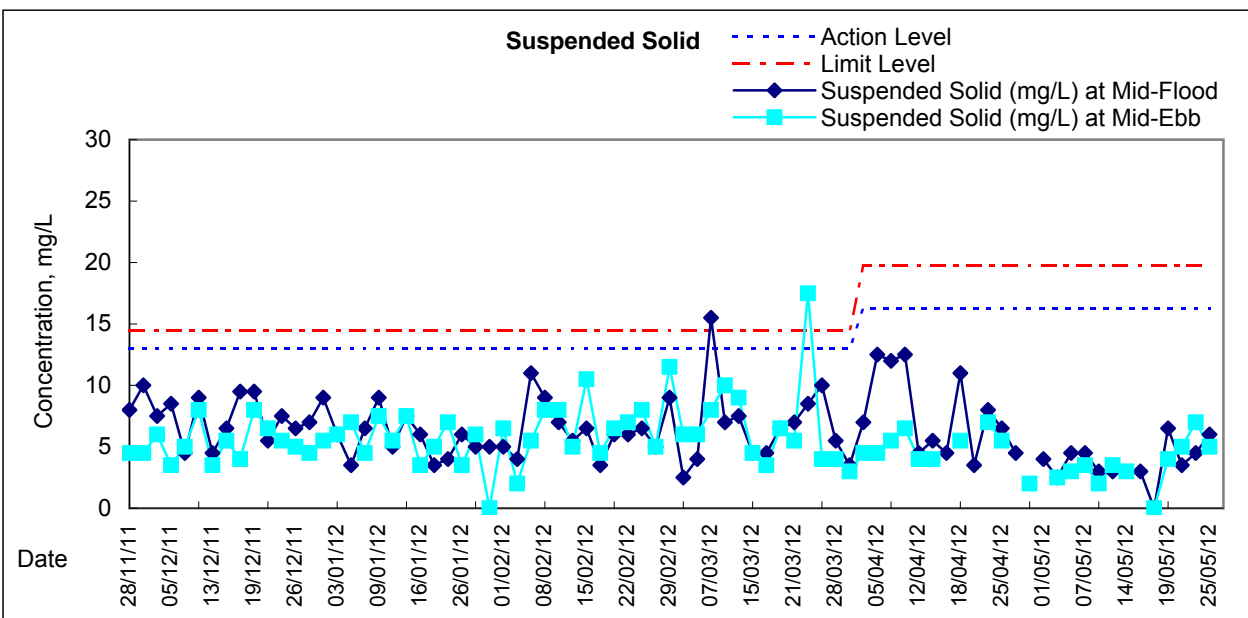
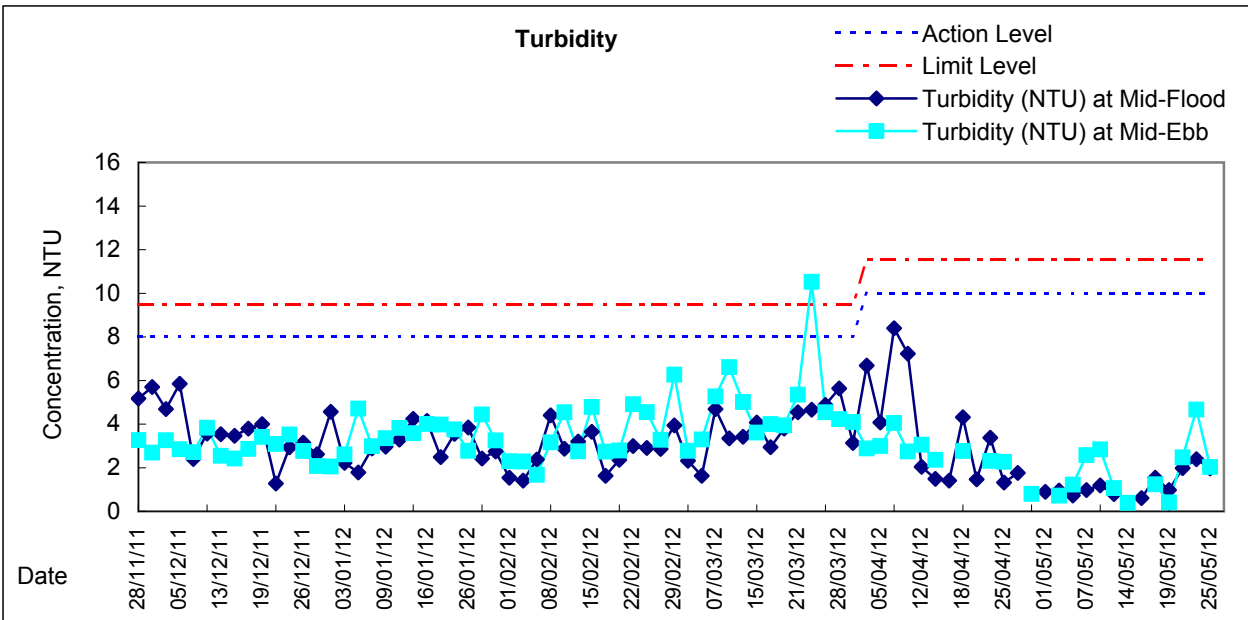
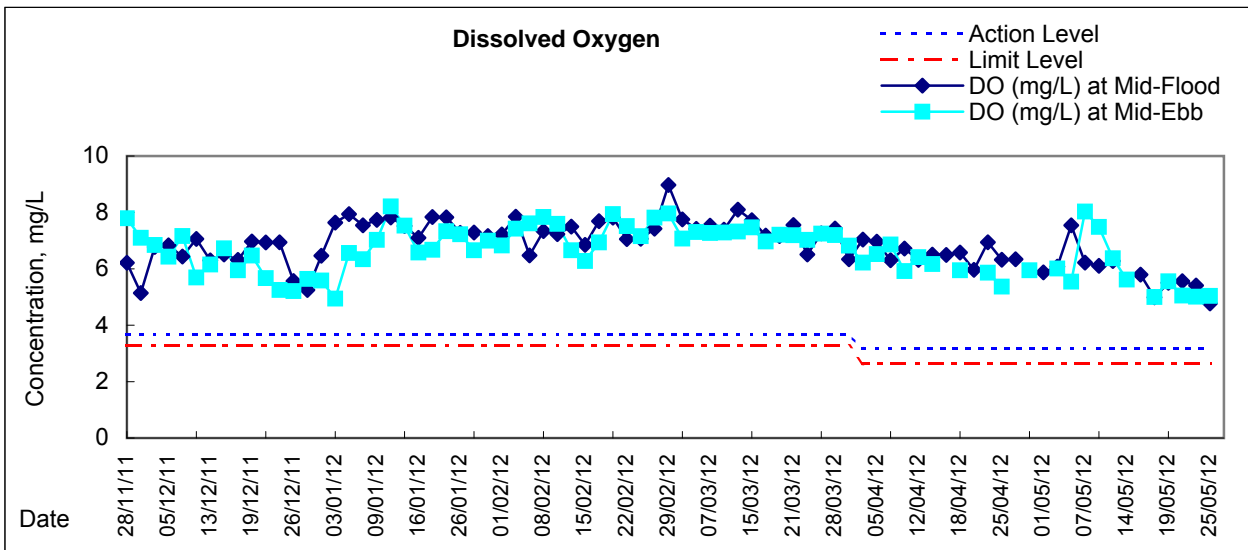


***Appendix 4.3***

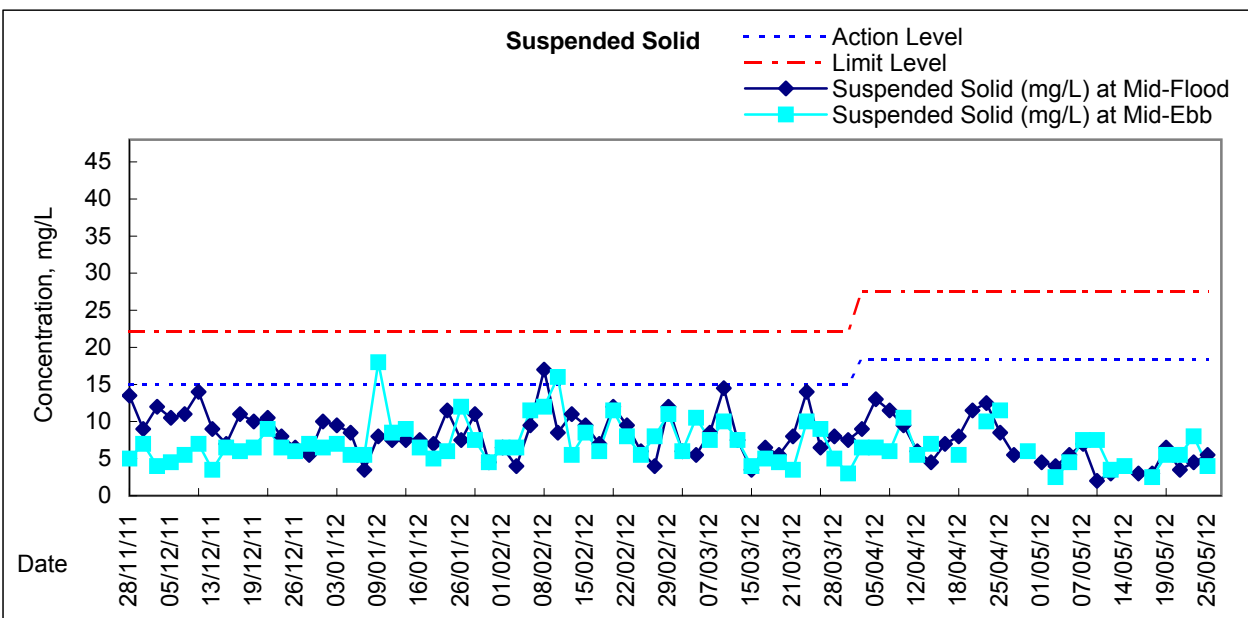
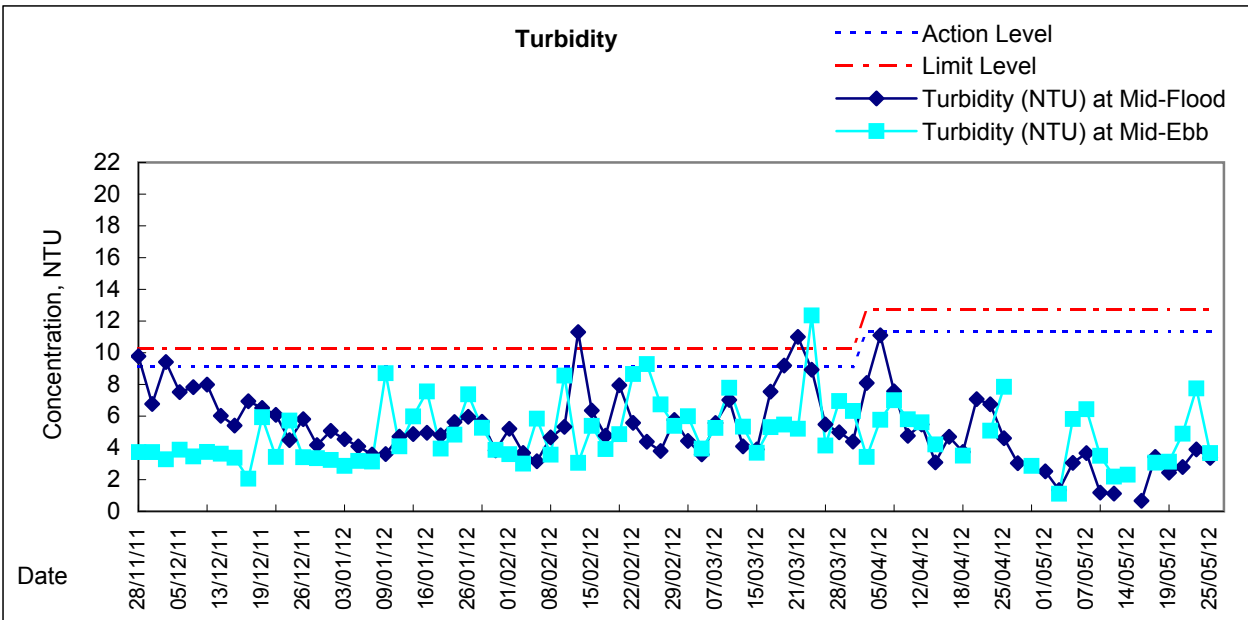
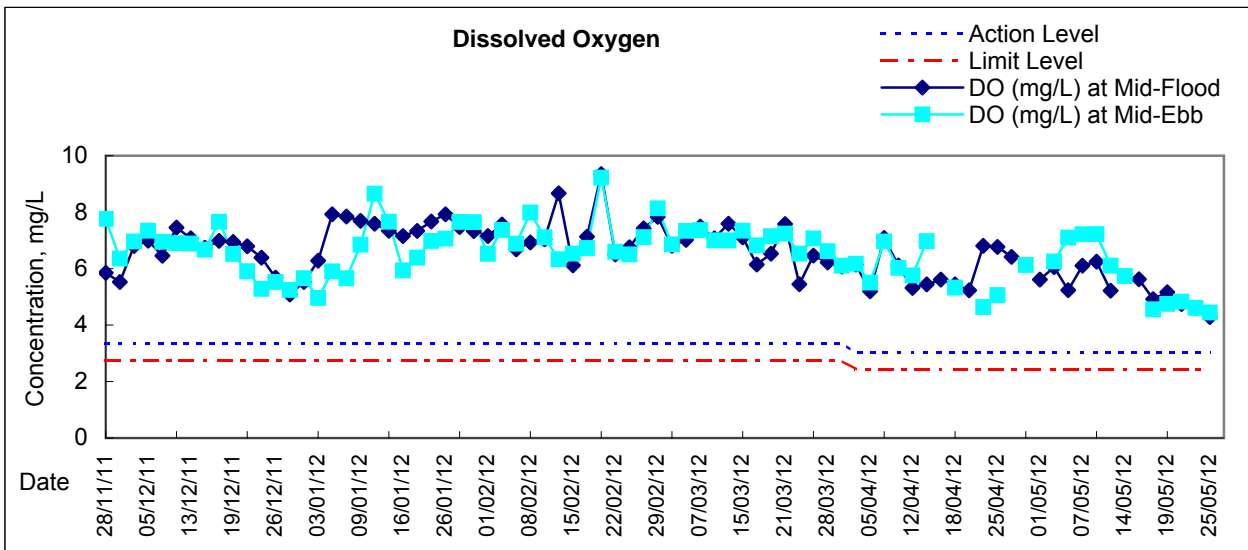
***Water Quality Monitoring Graphical Presentations***



Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled



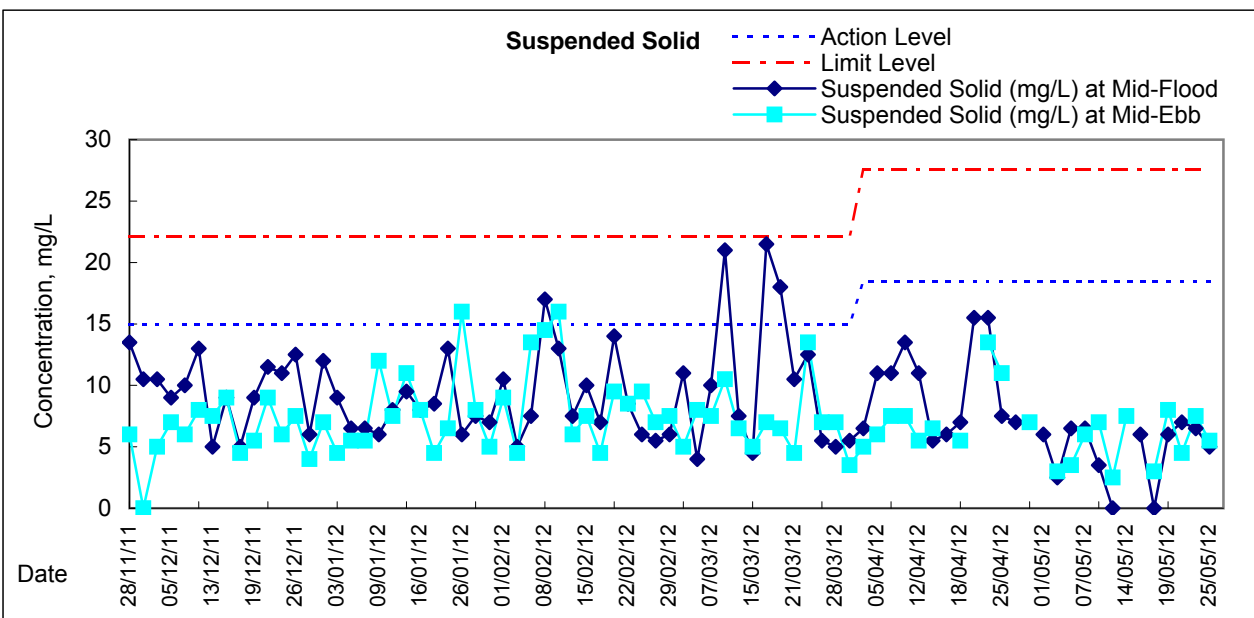
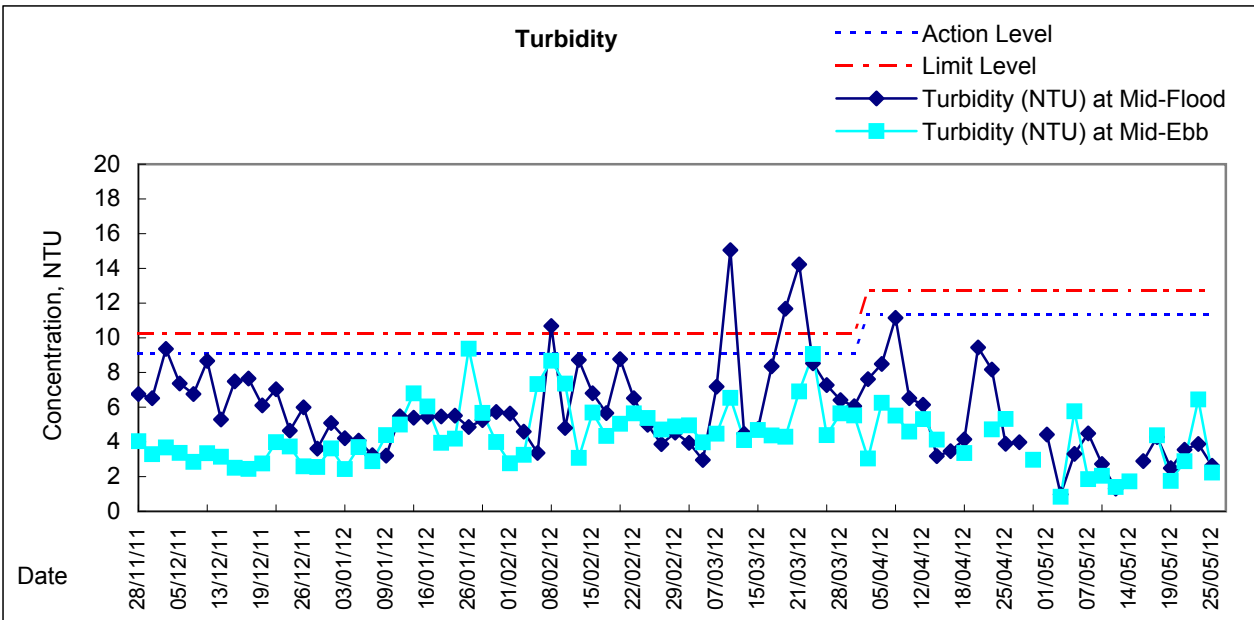
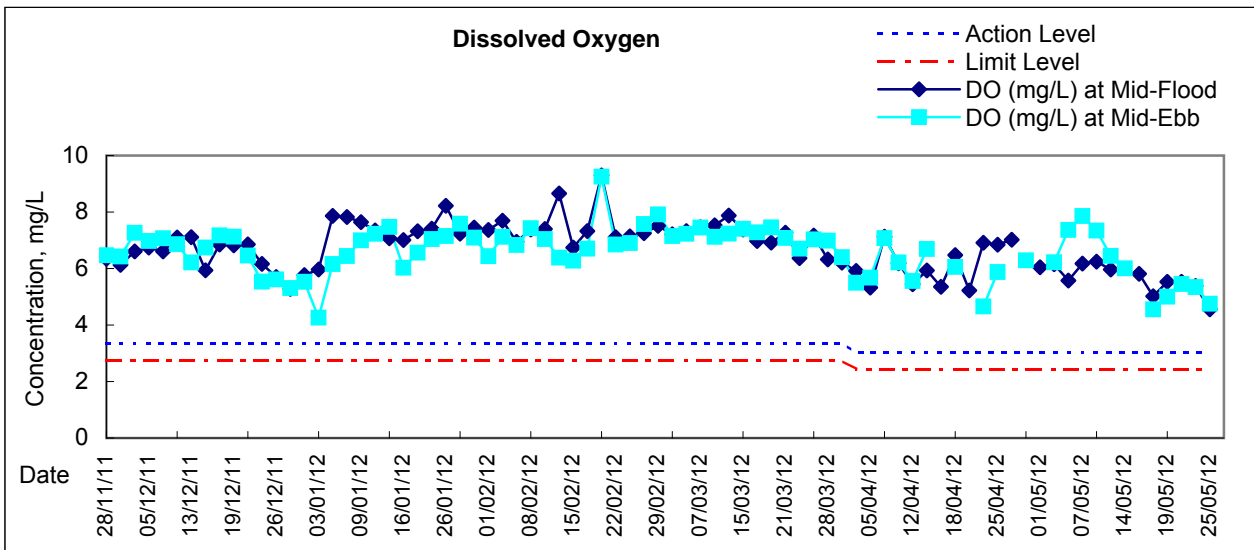
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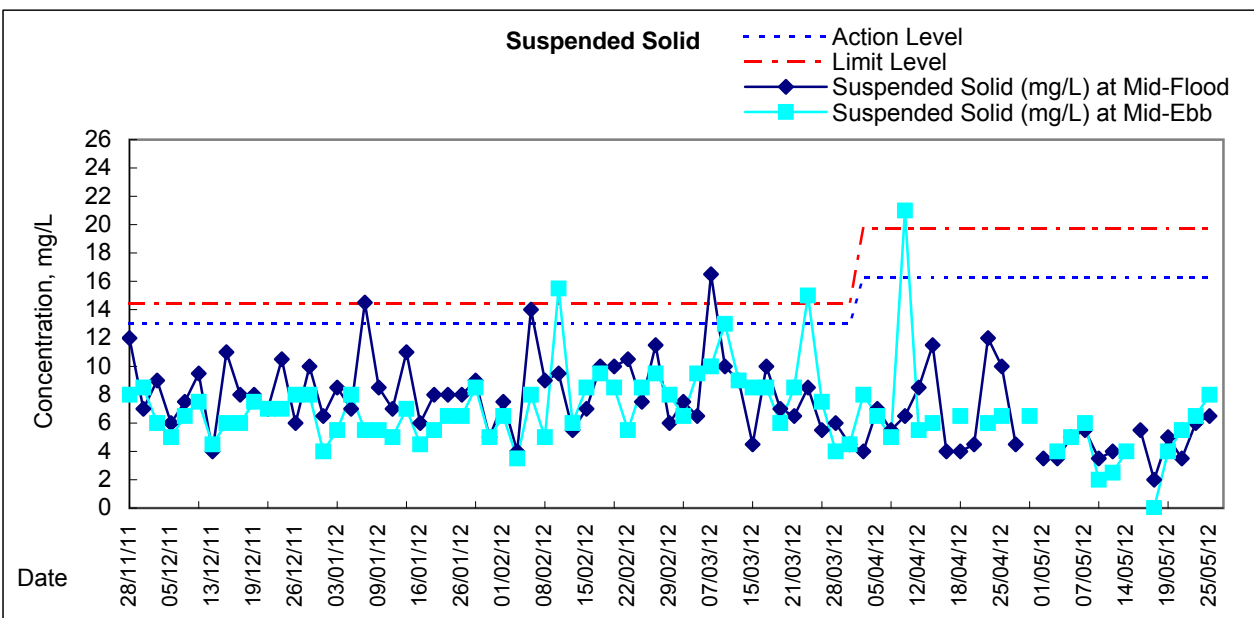
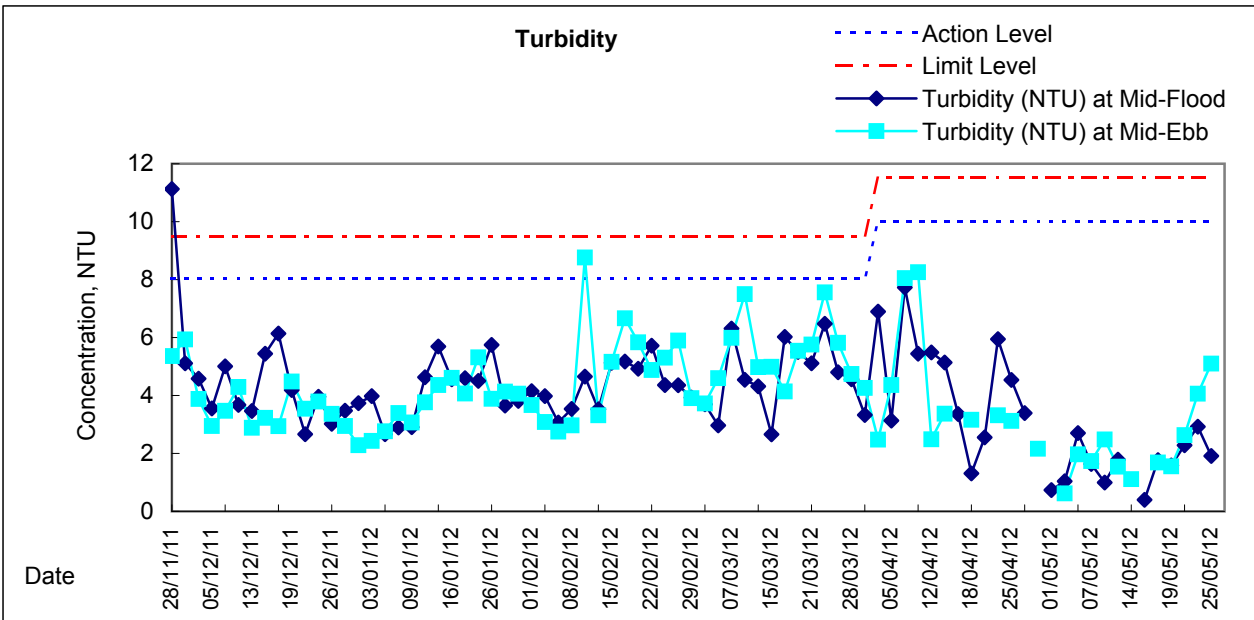
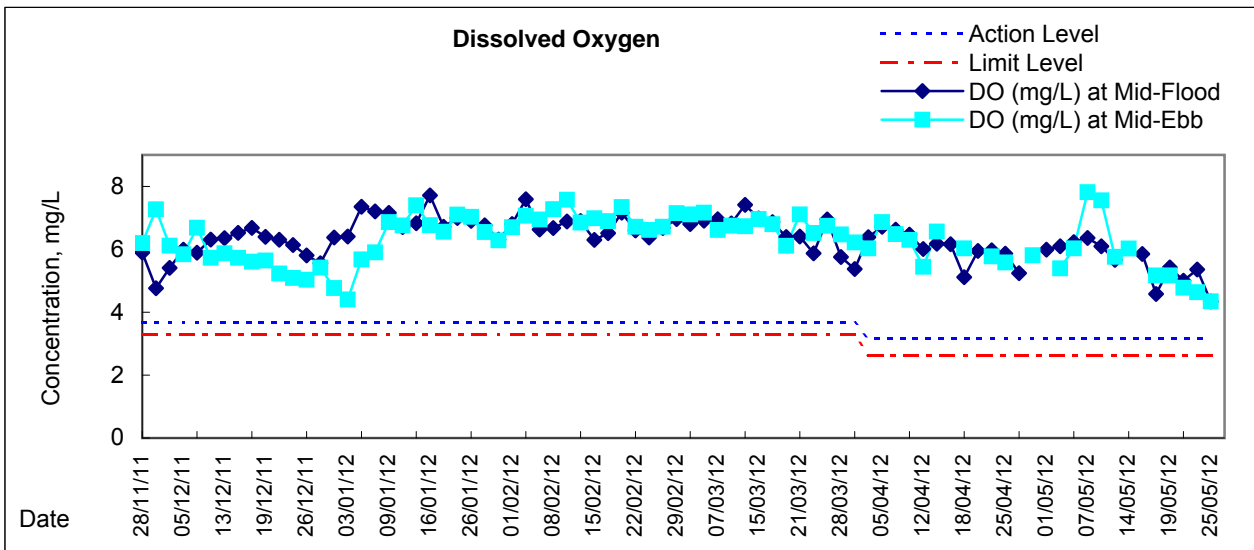


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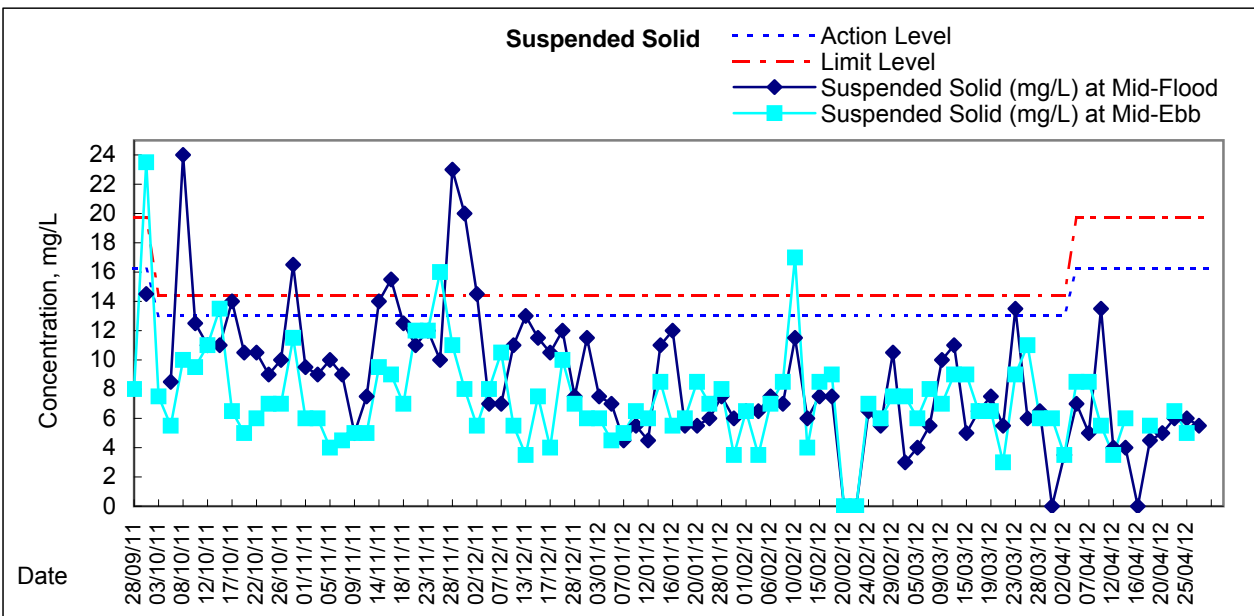
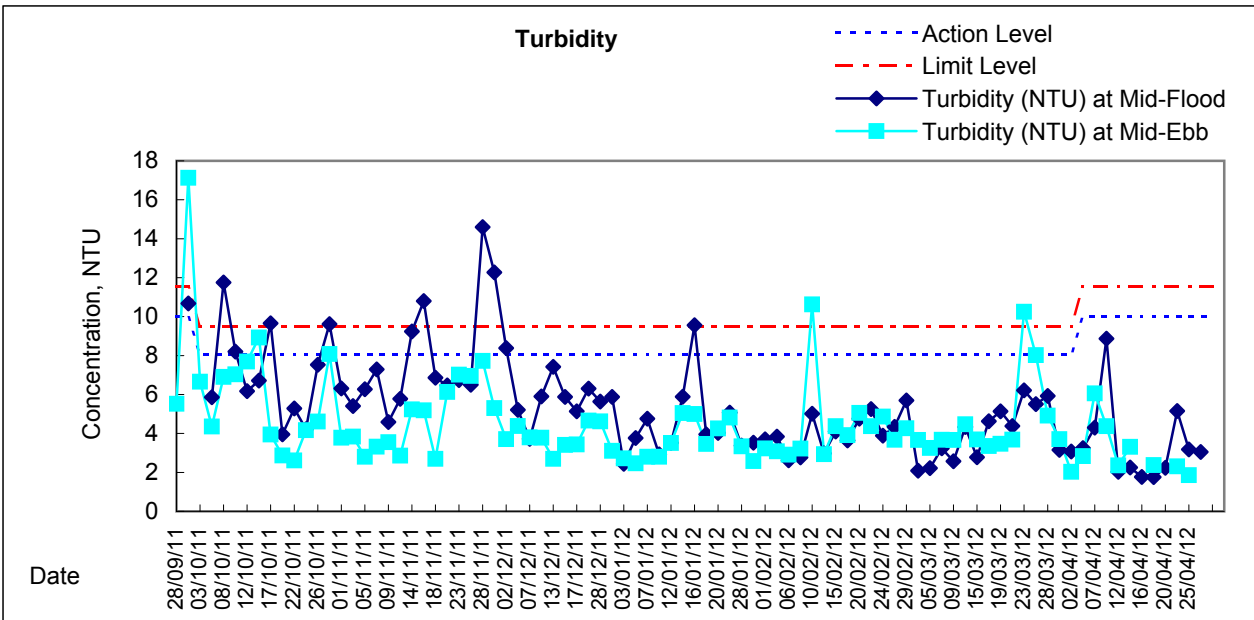
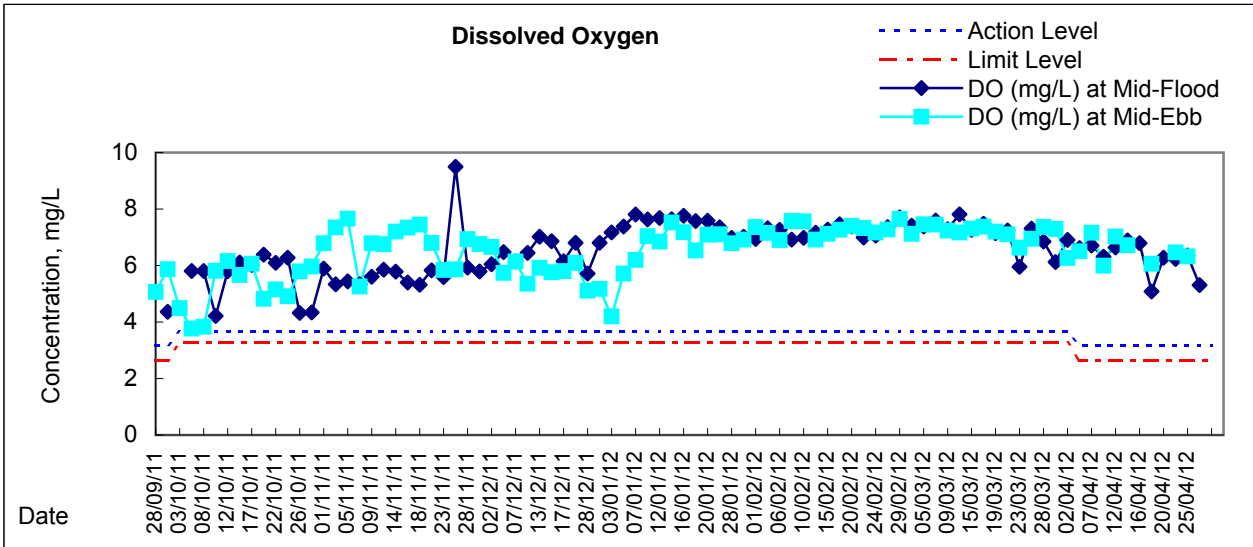


# Graphic Presentation of Water Quality Result of C9 - Provident Centre



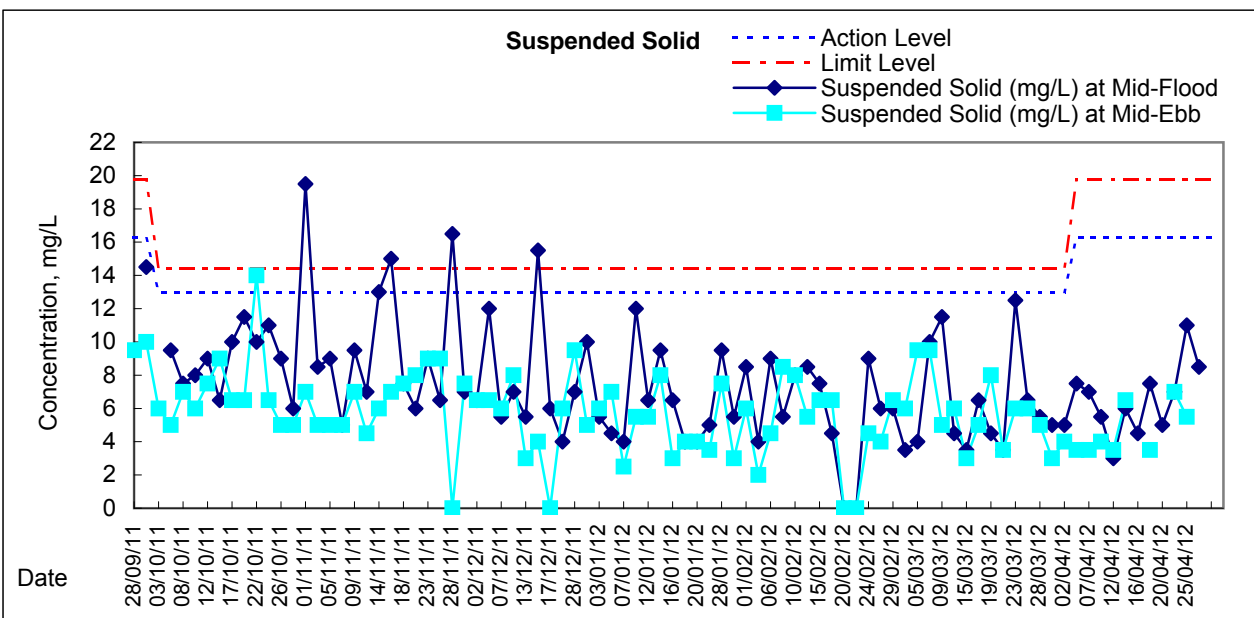
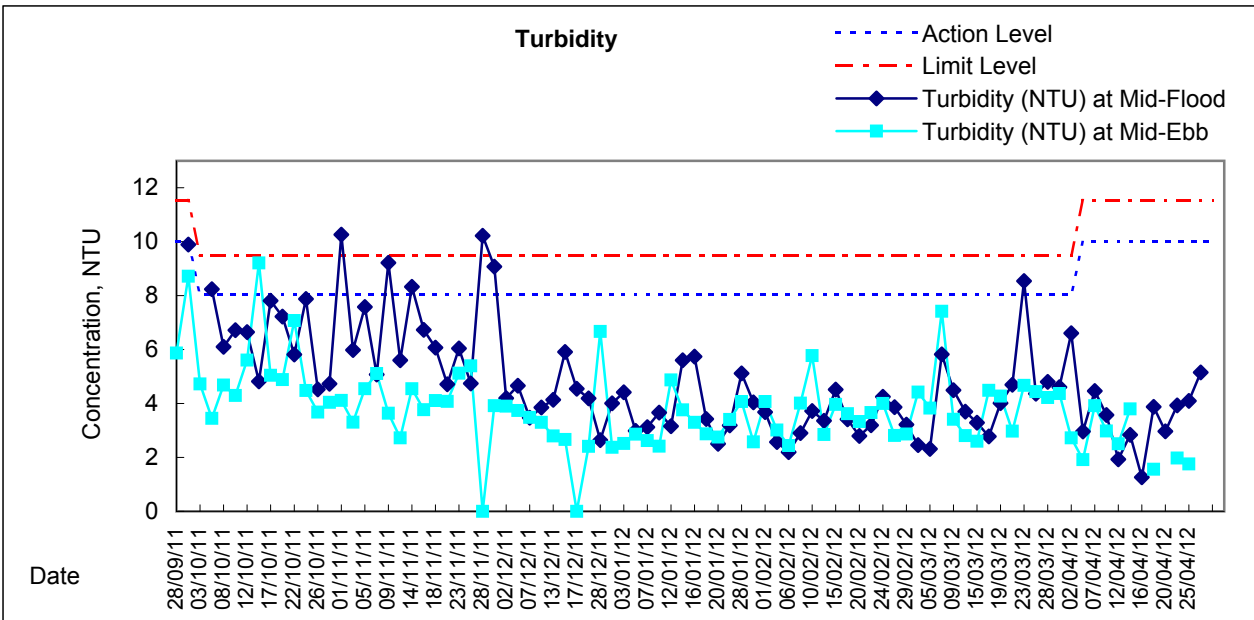
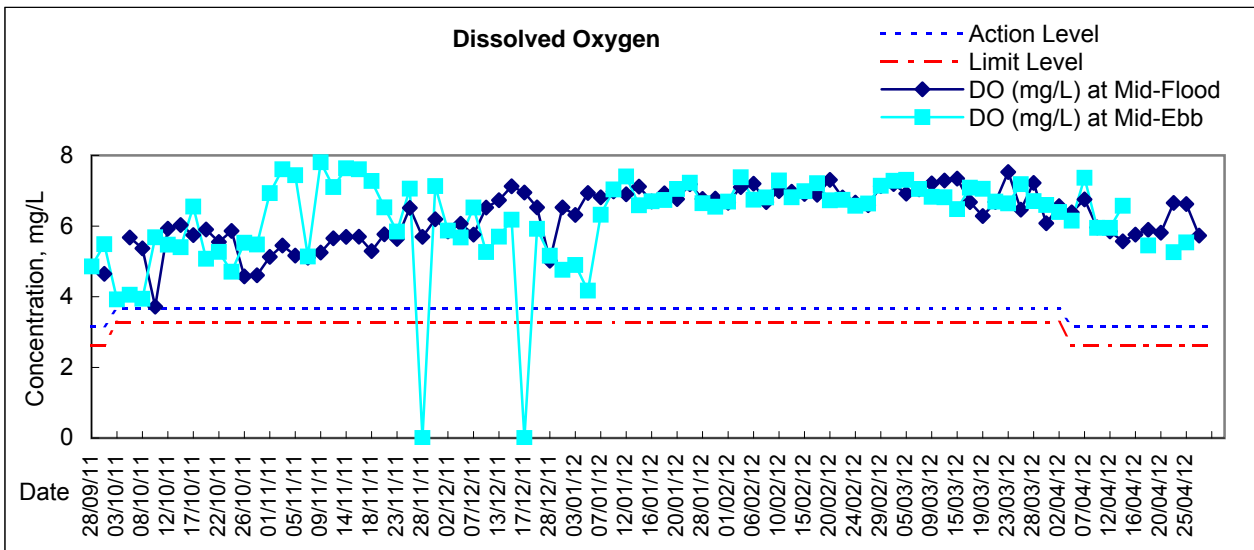


Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

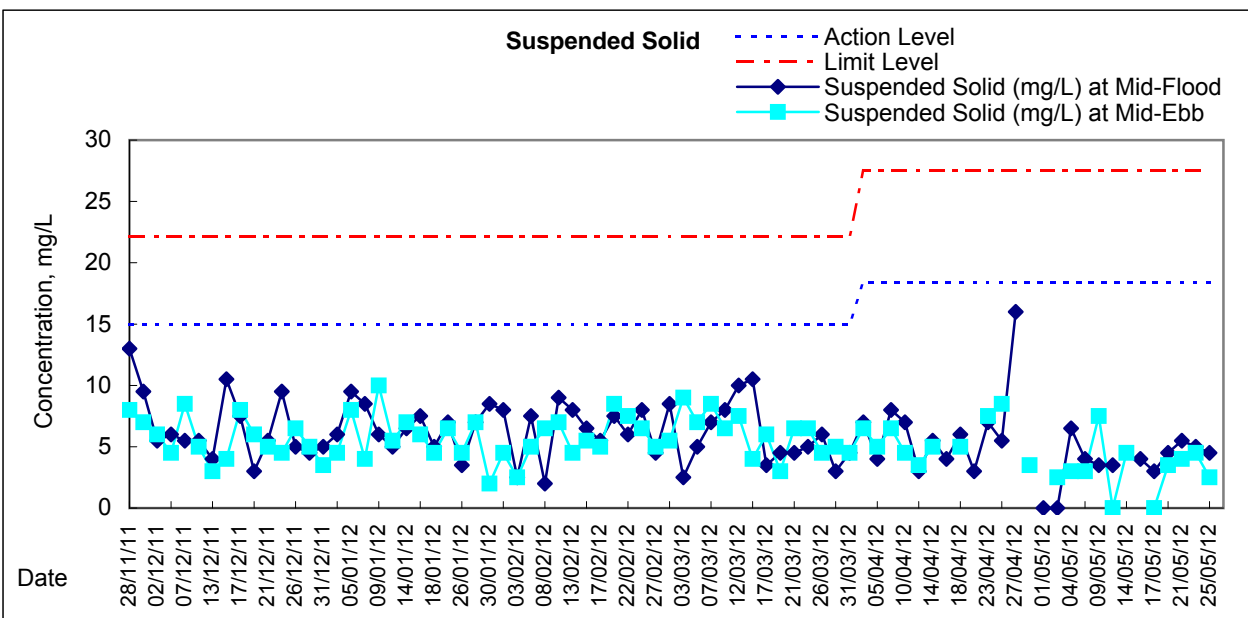
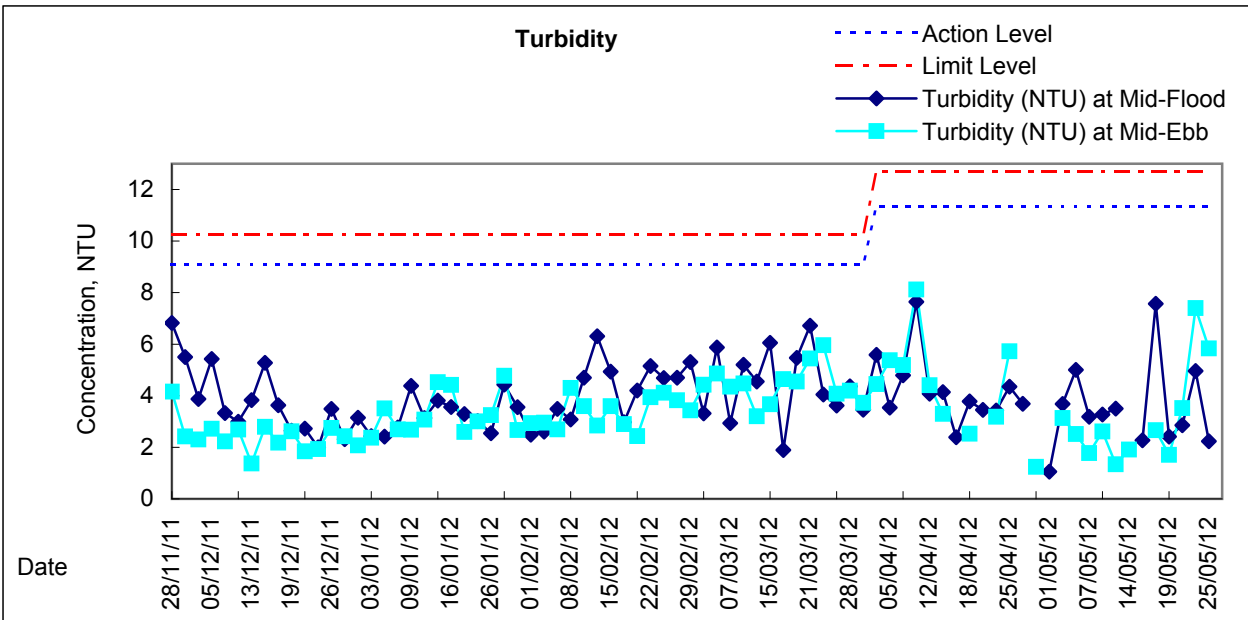
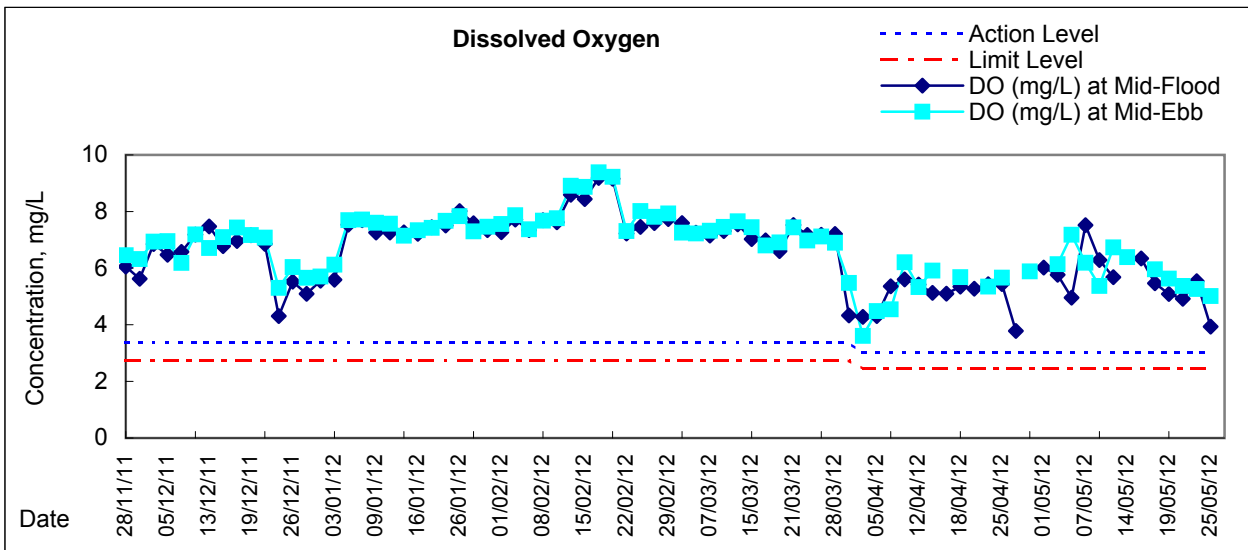


Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

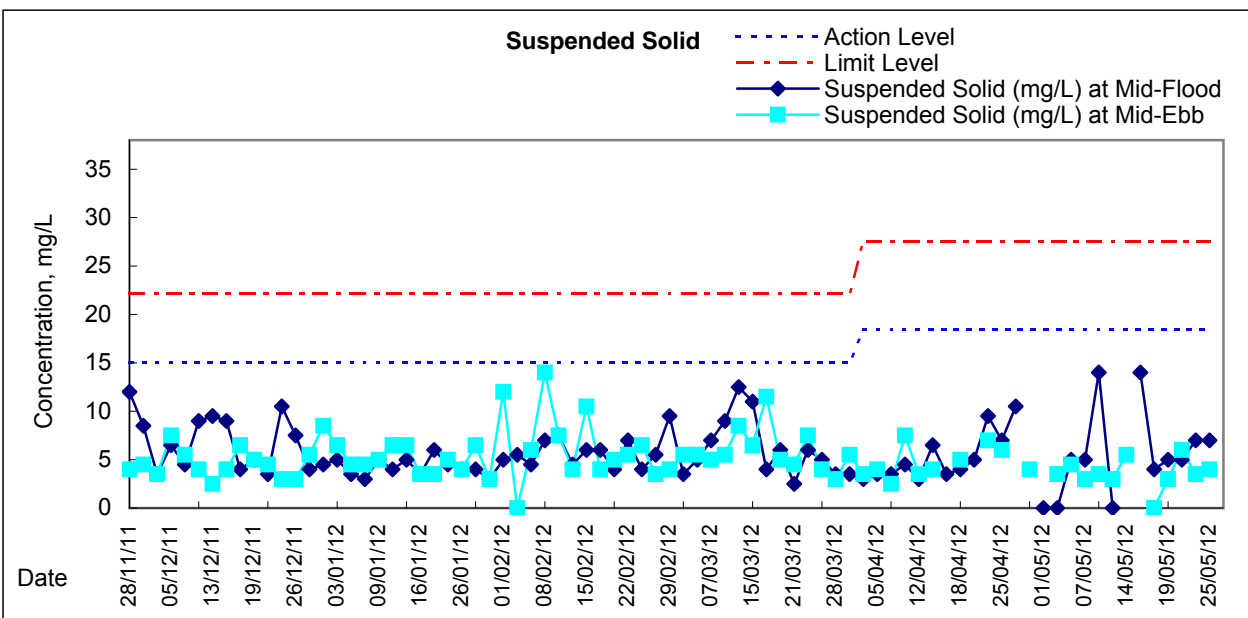
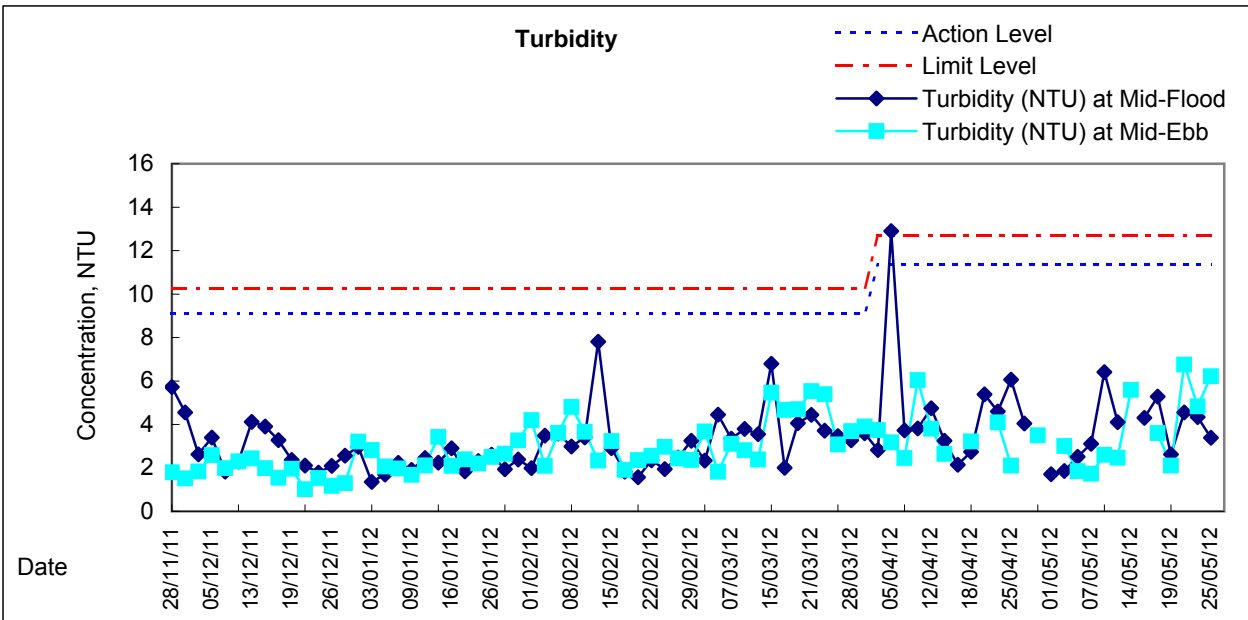
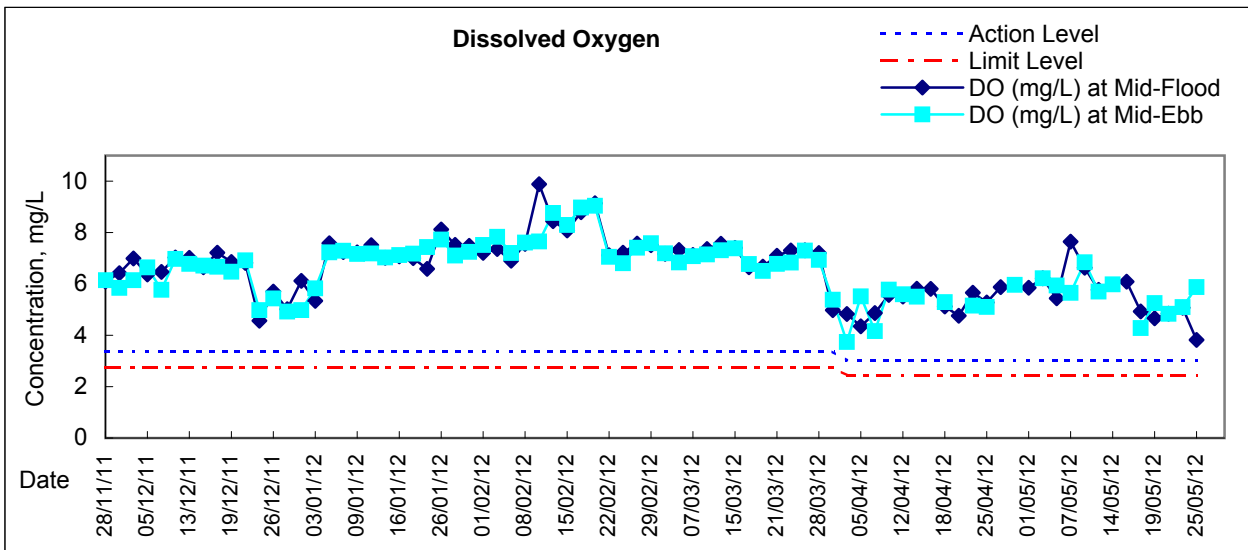




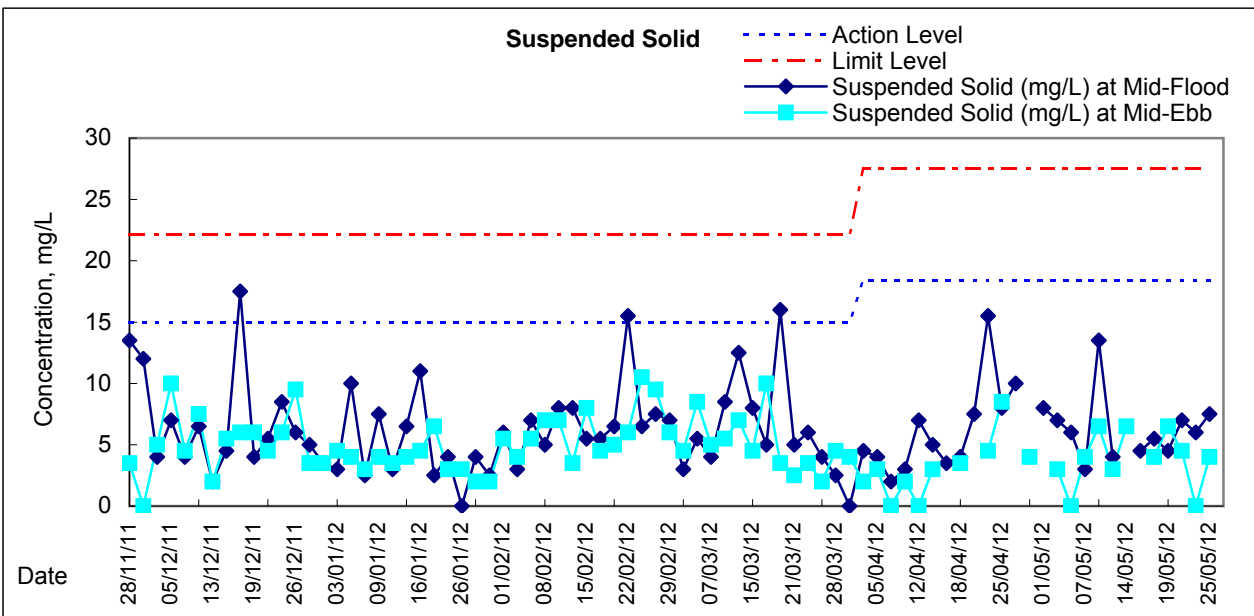
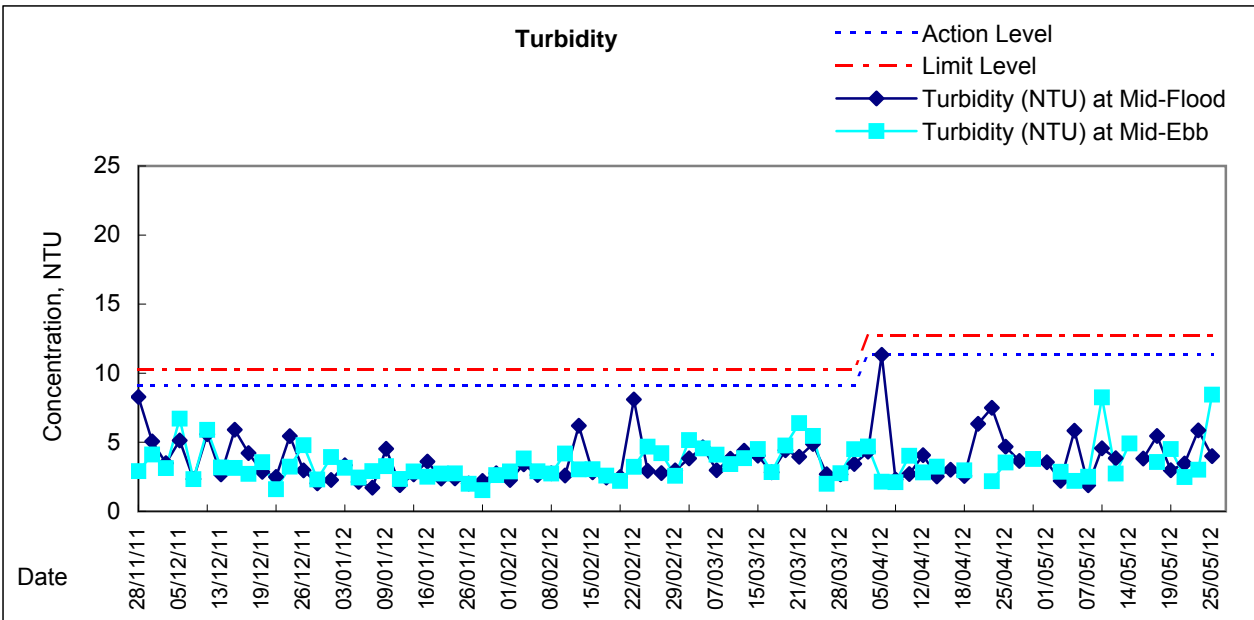
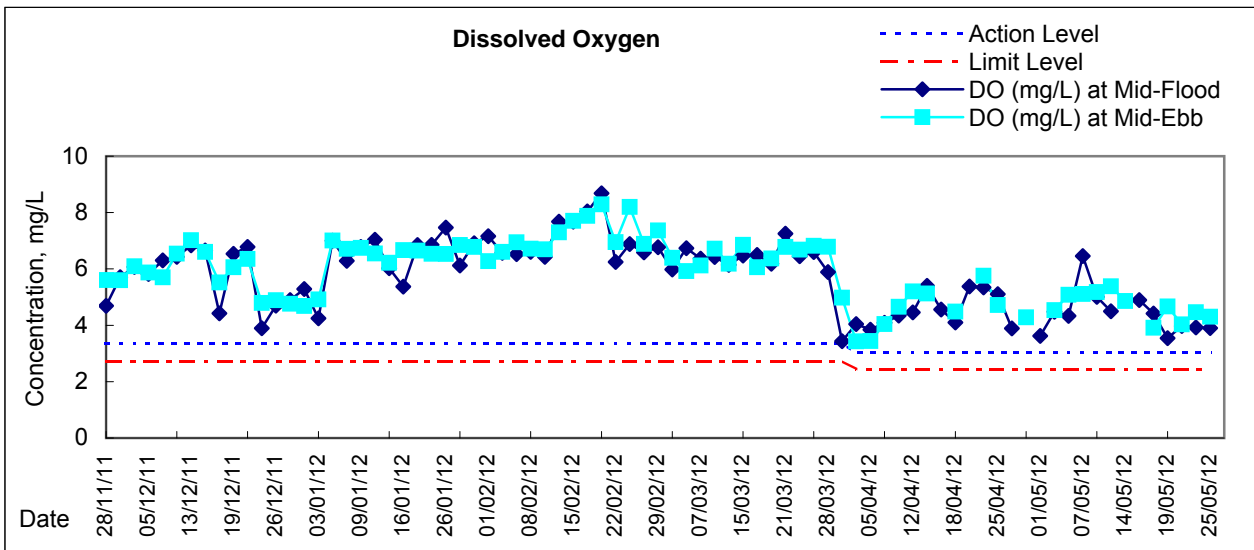
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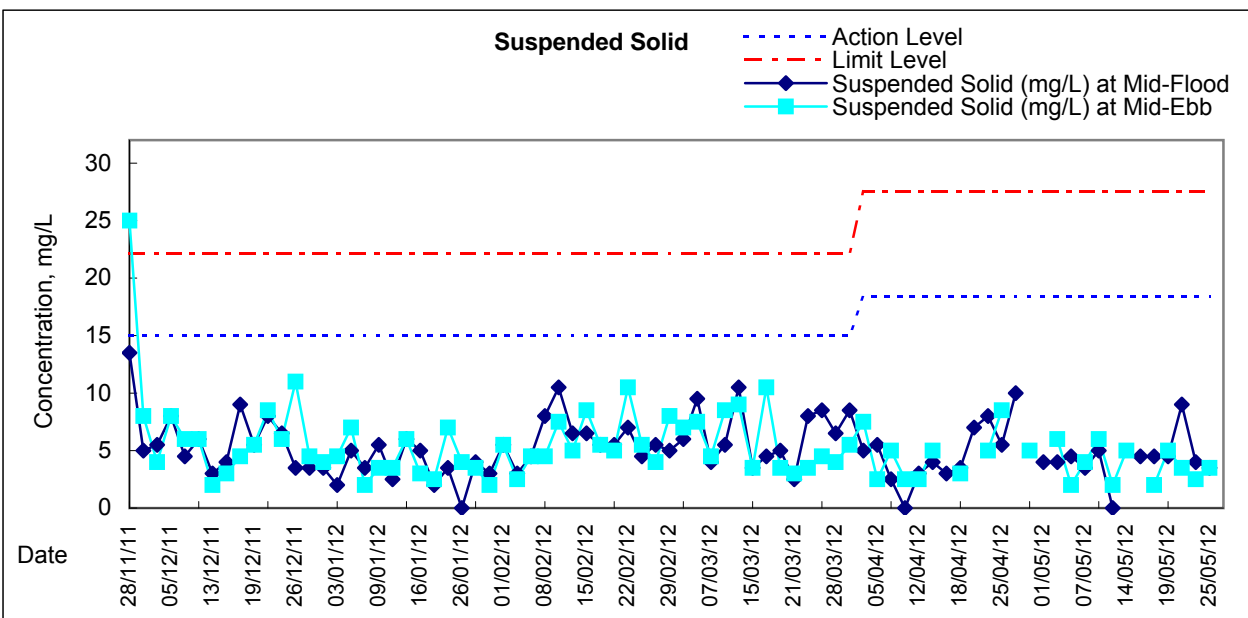
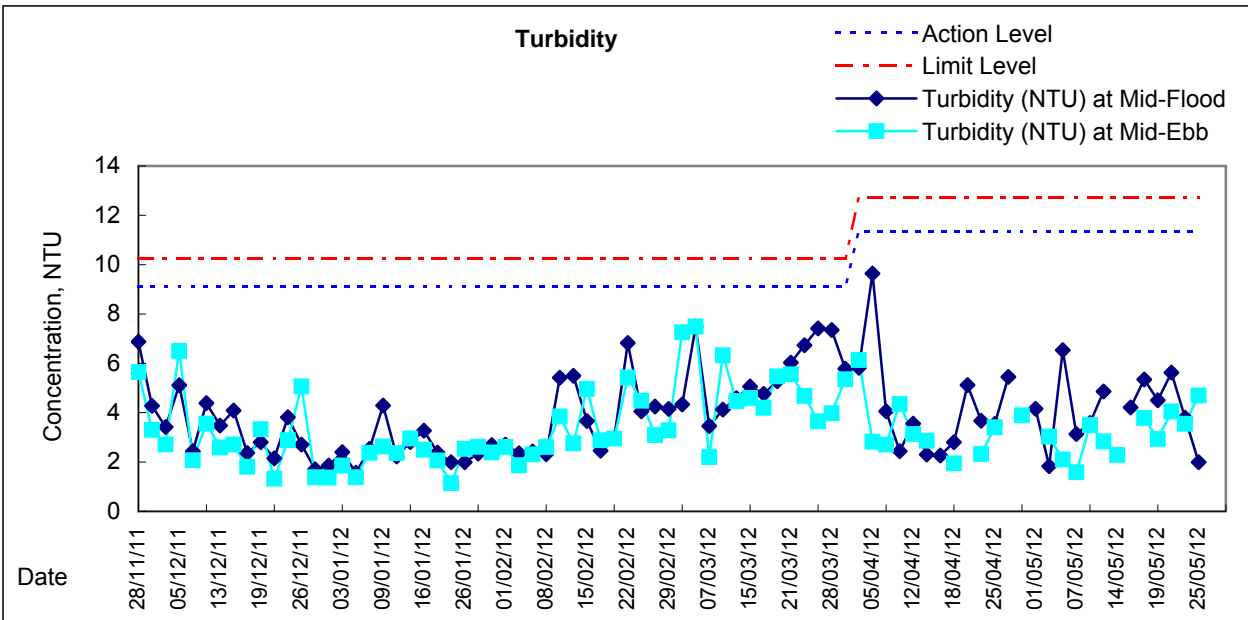
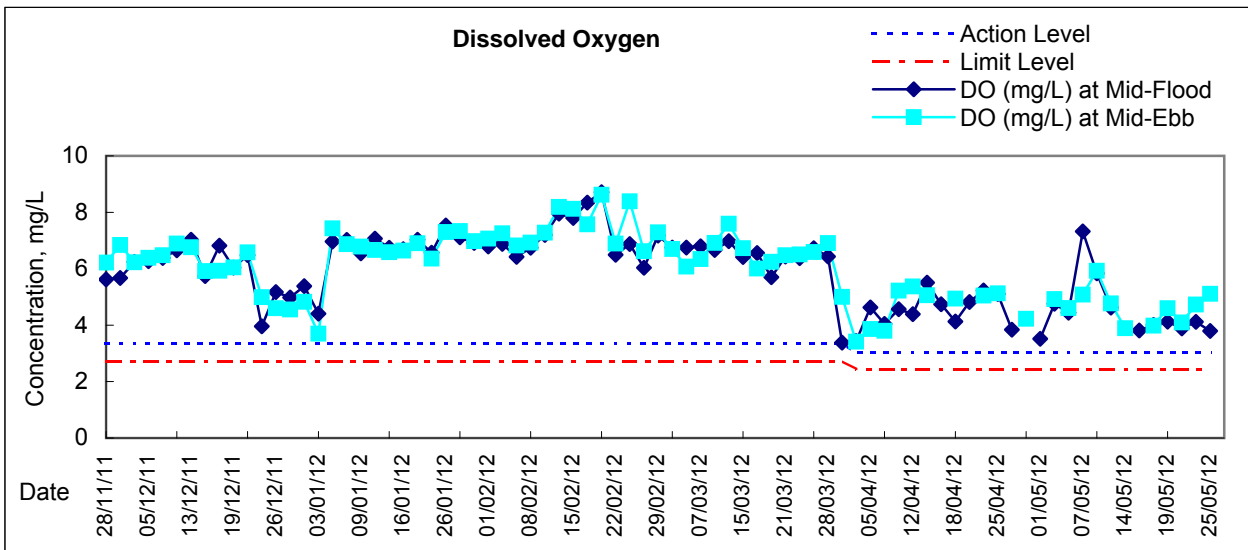
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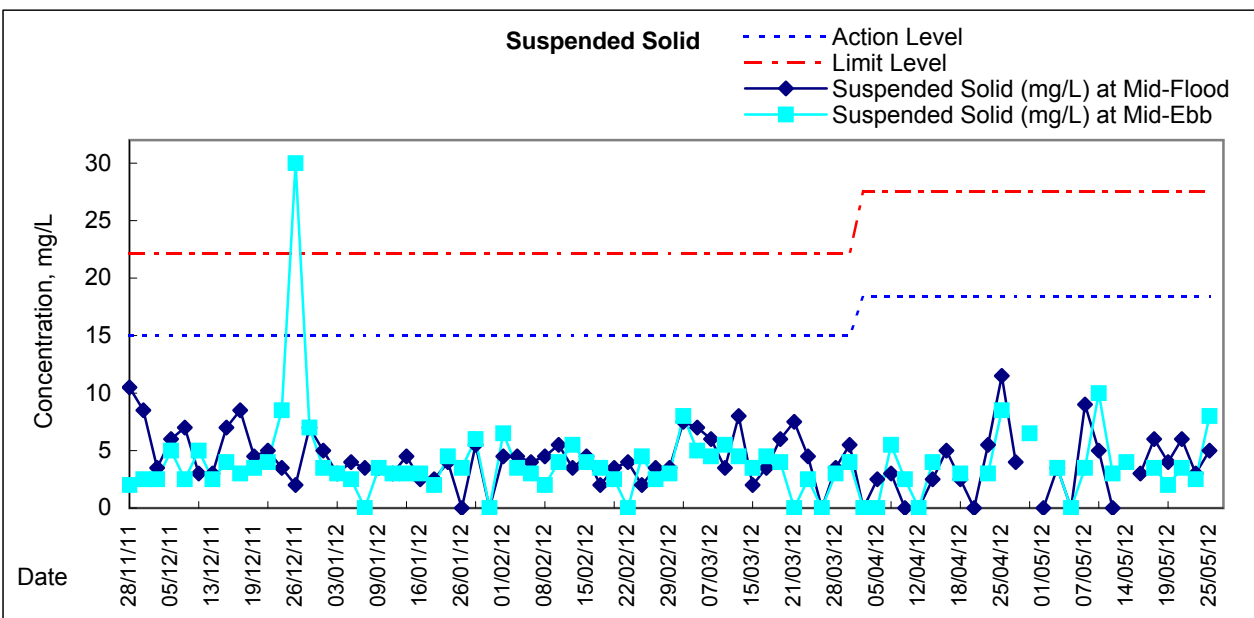
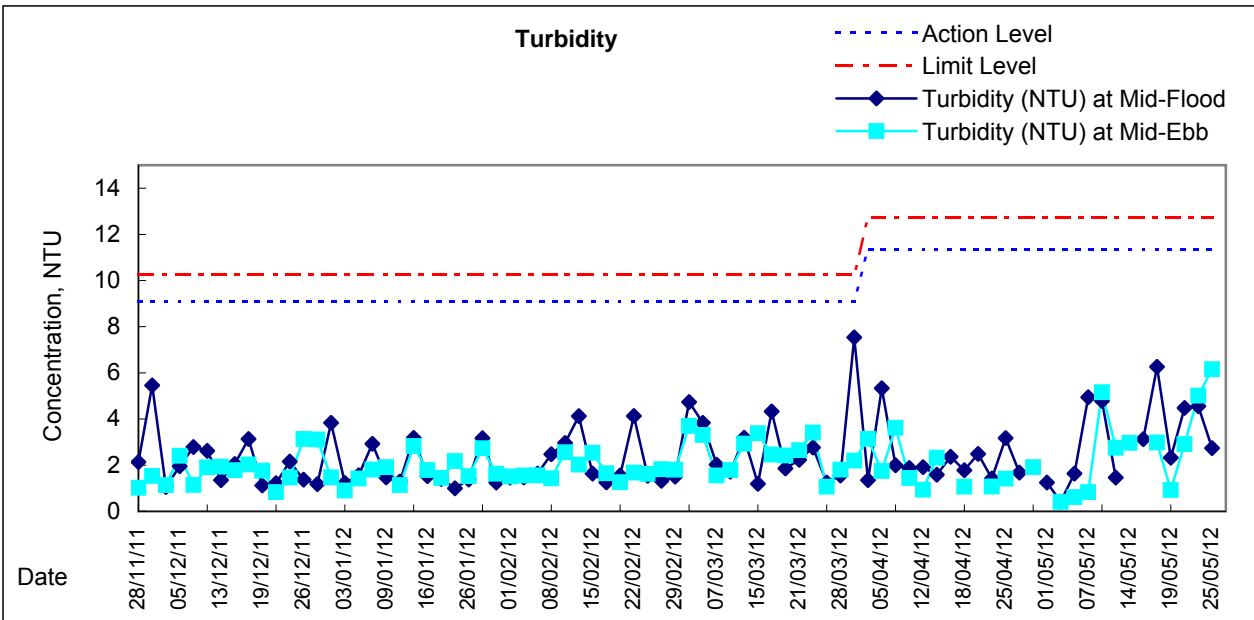
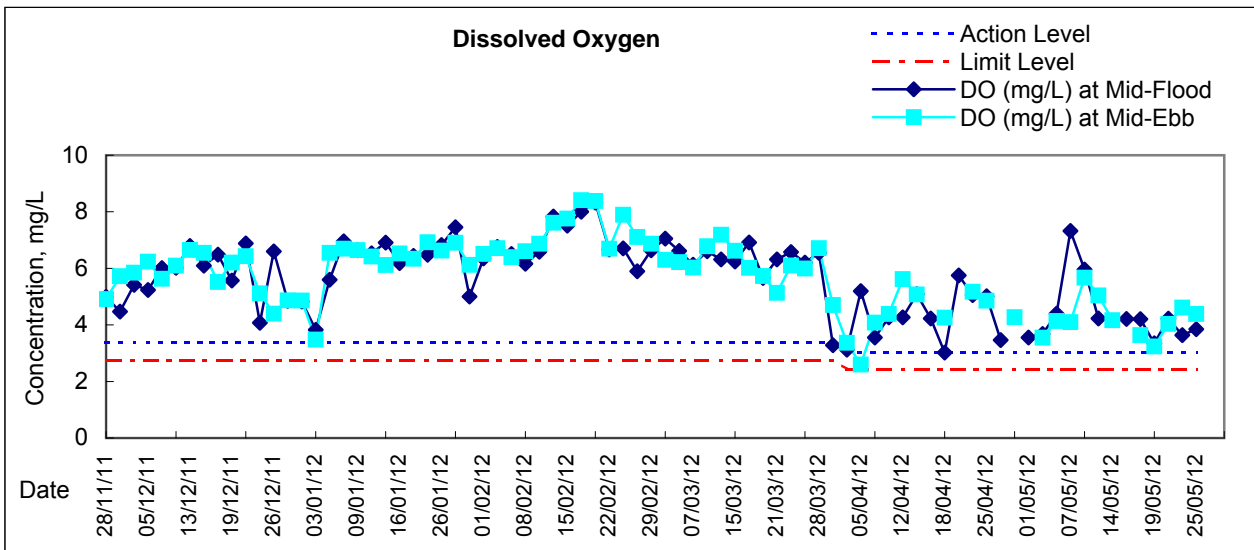
Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled



Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

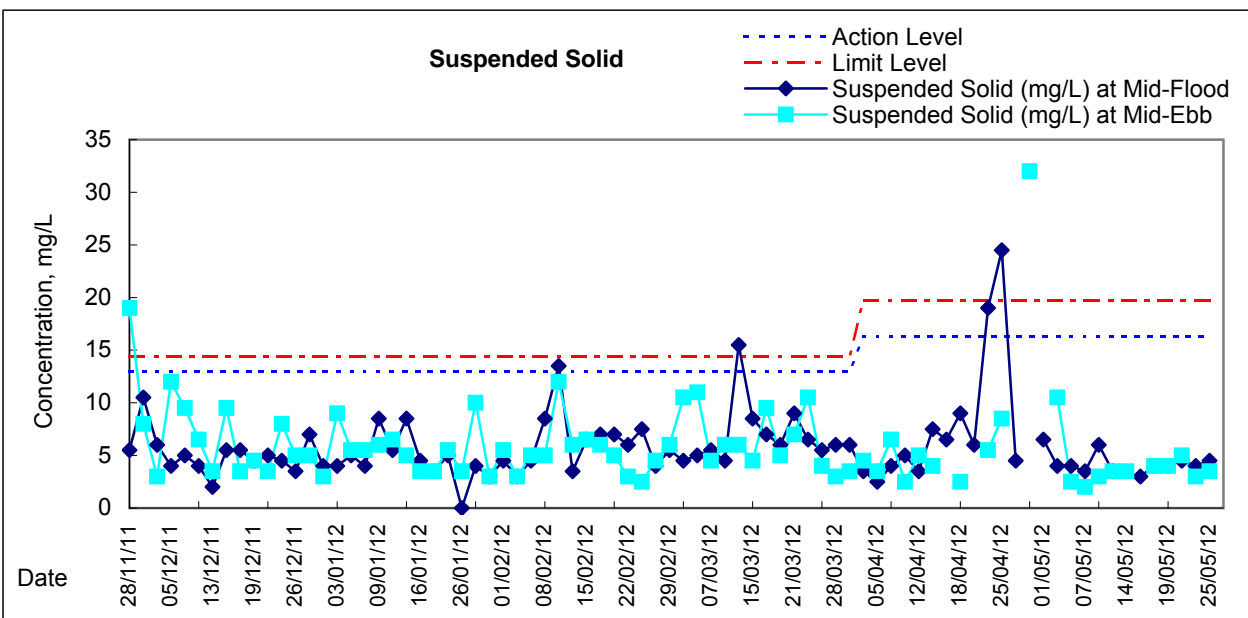
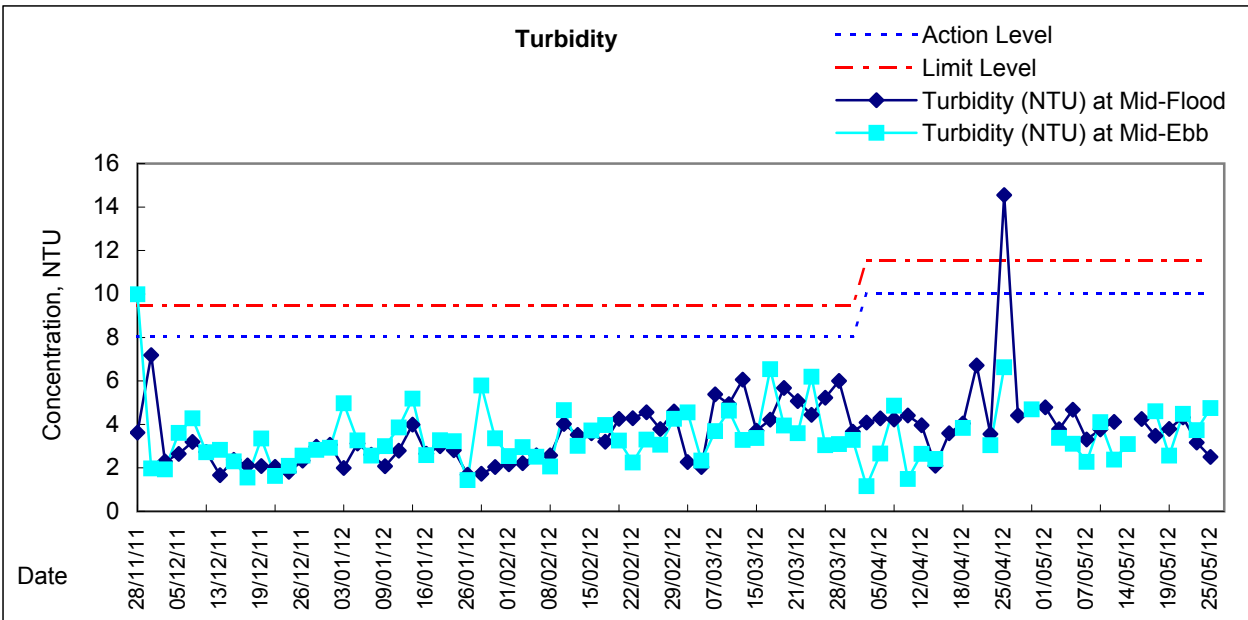
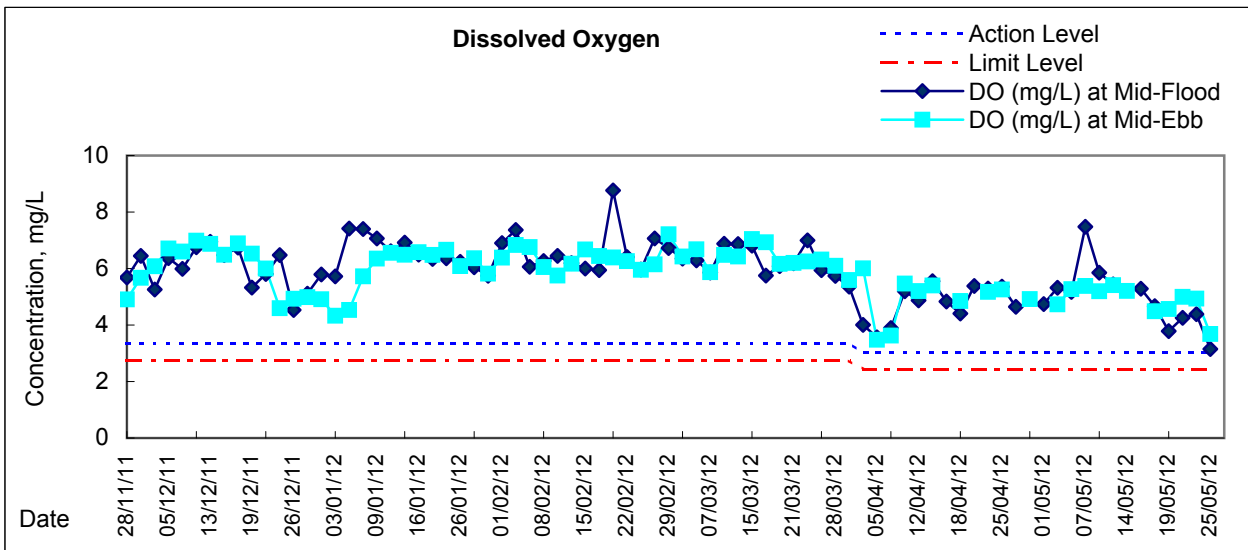


Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

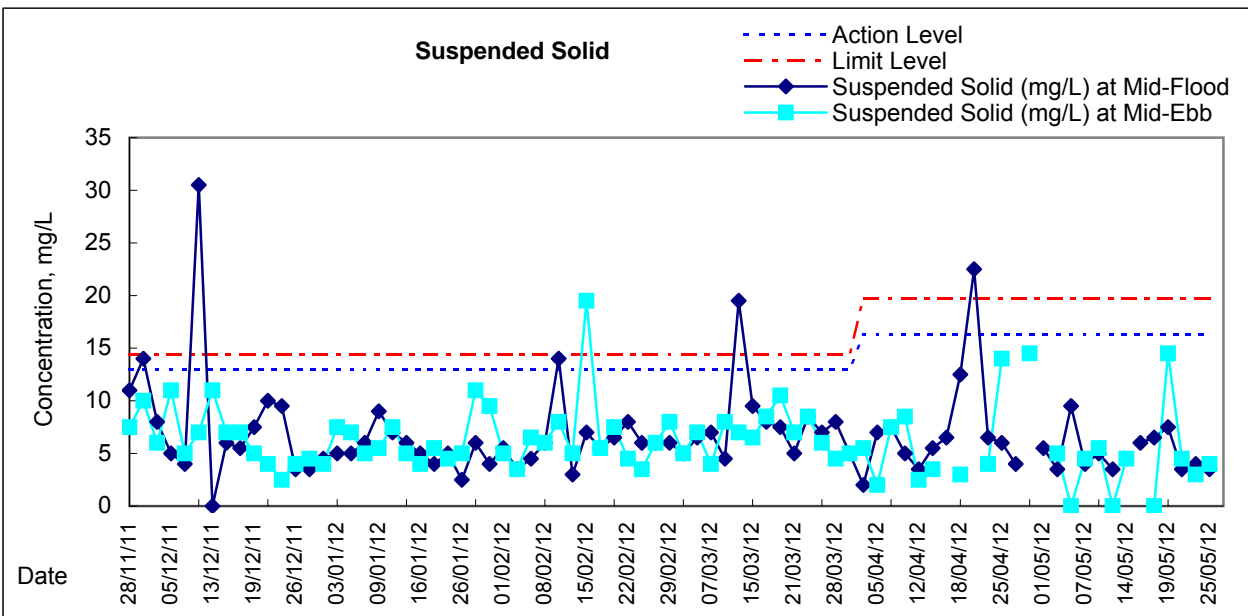
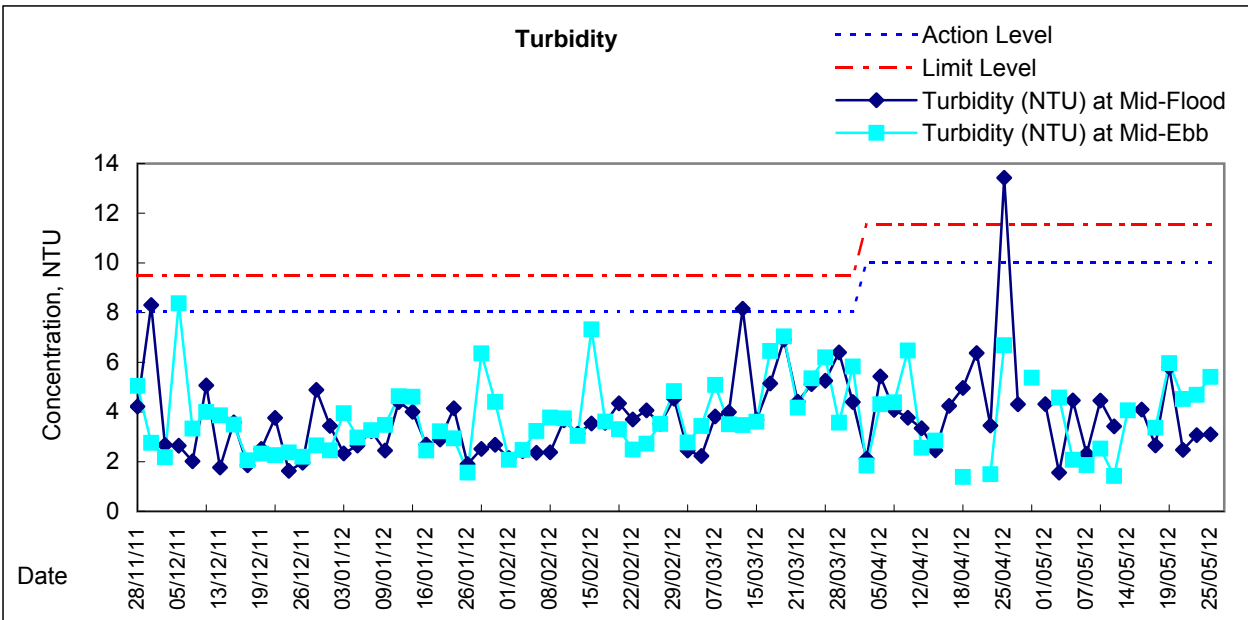
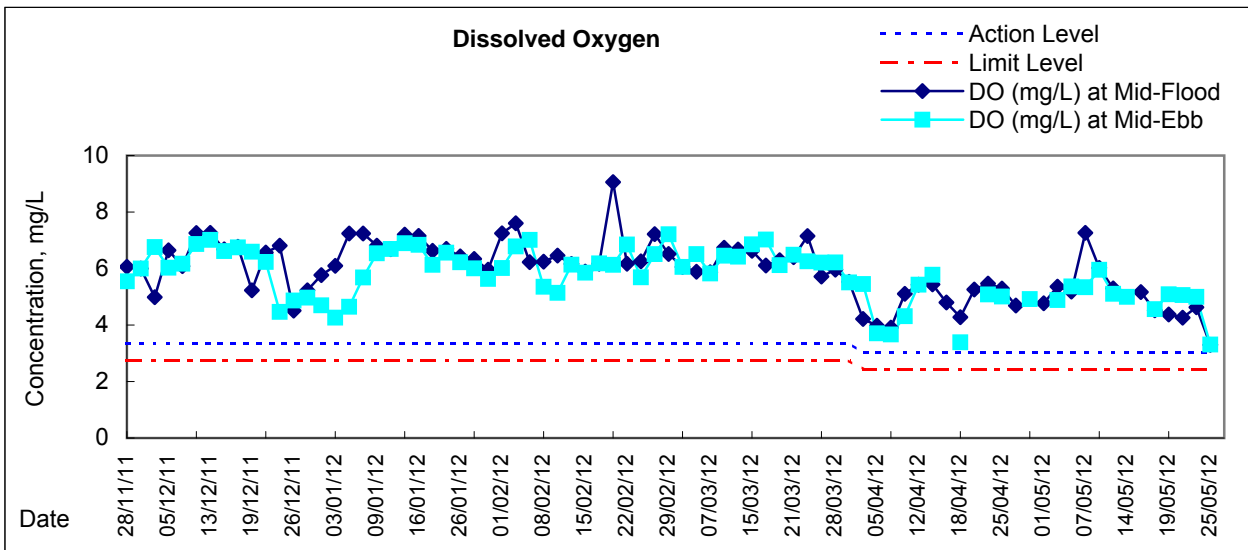


Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

## Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

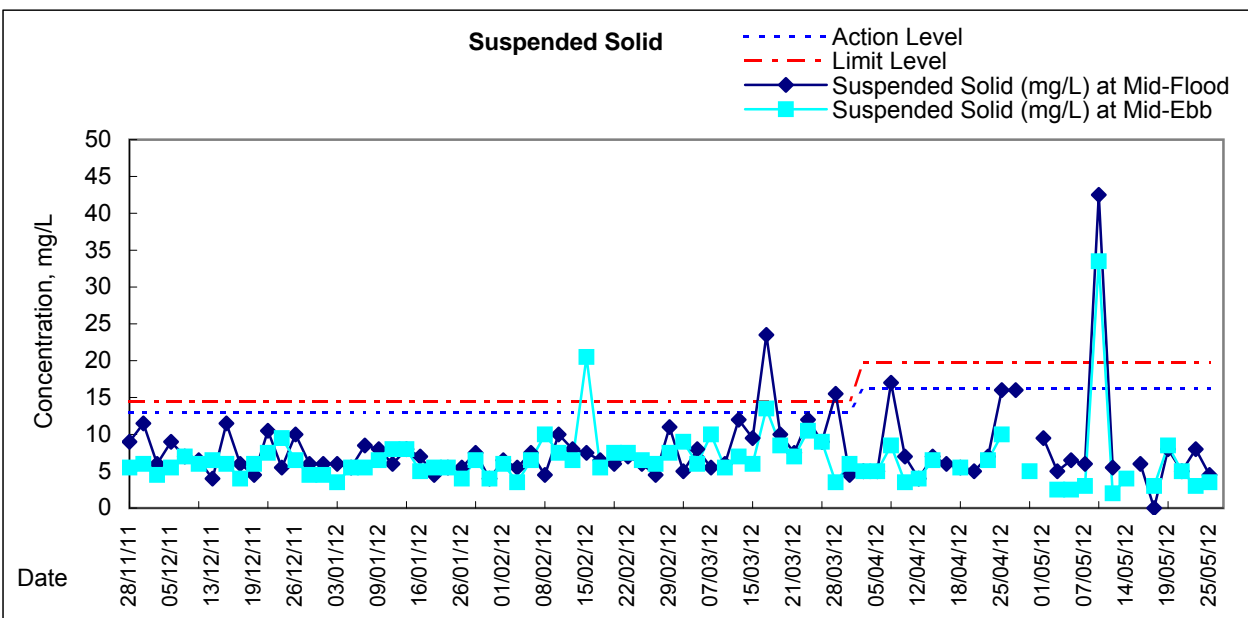
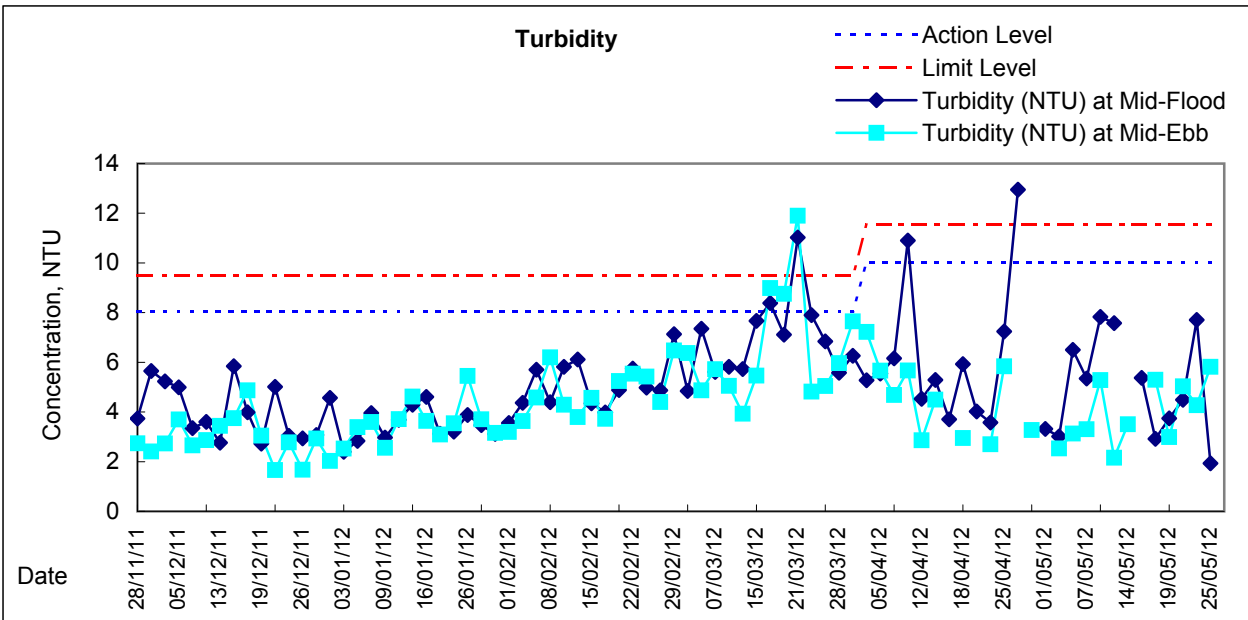
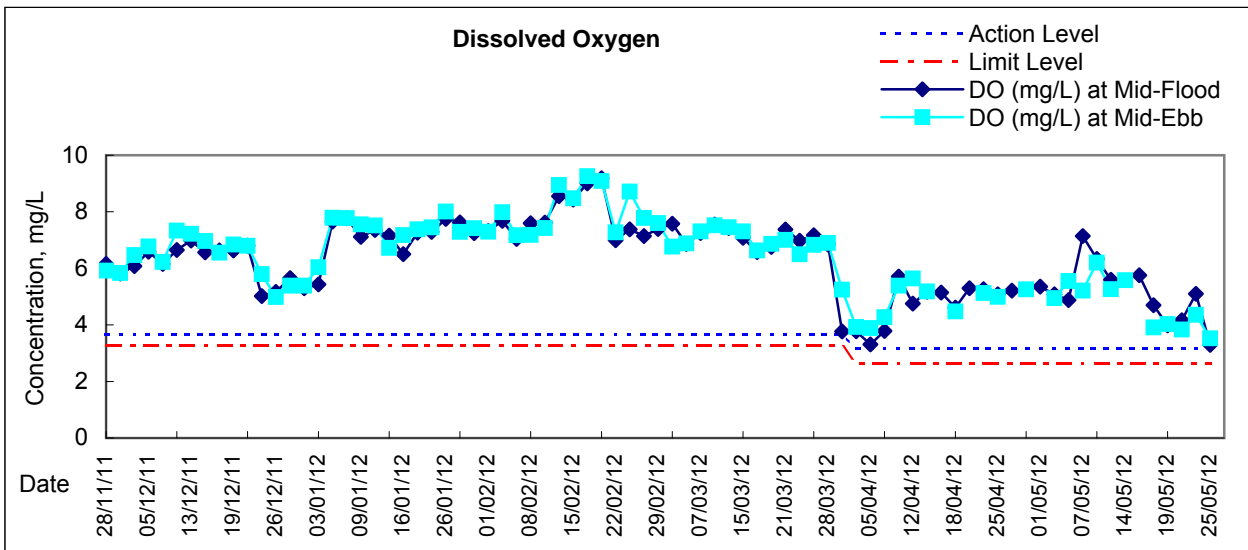


Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

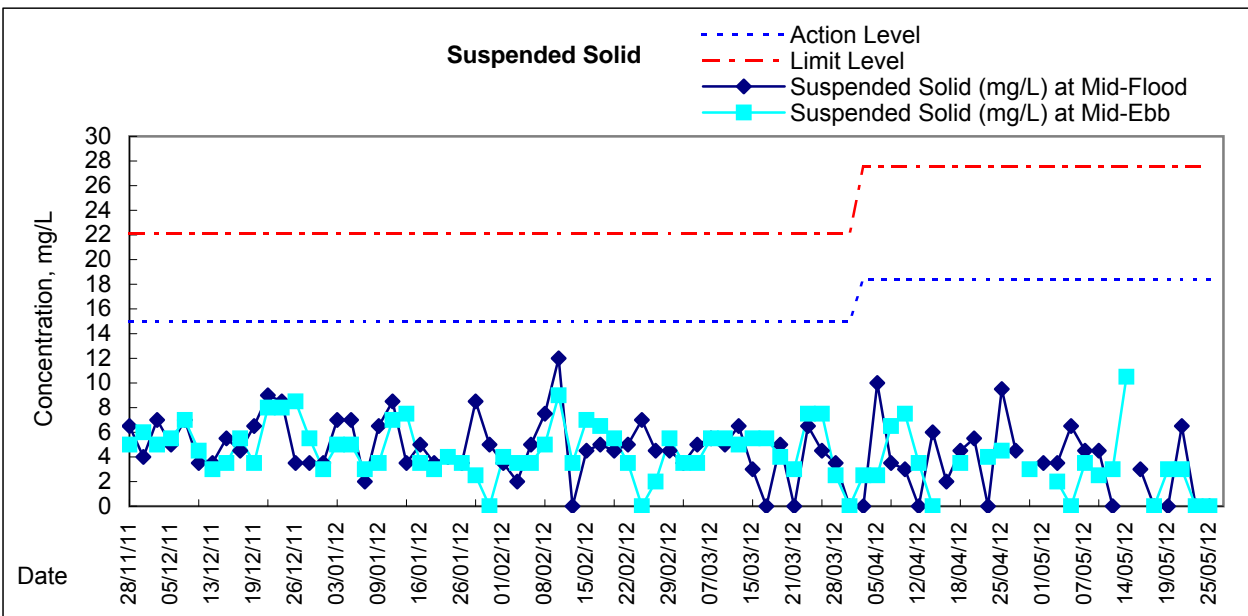
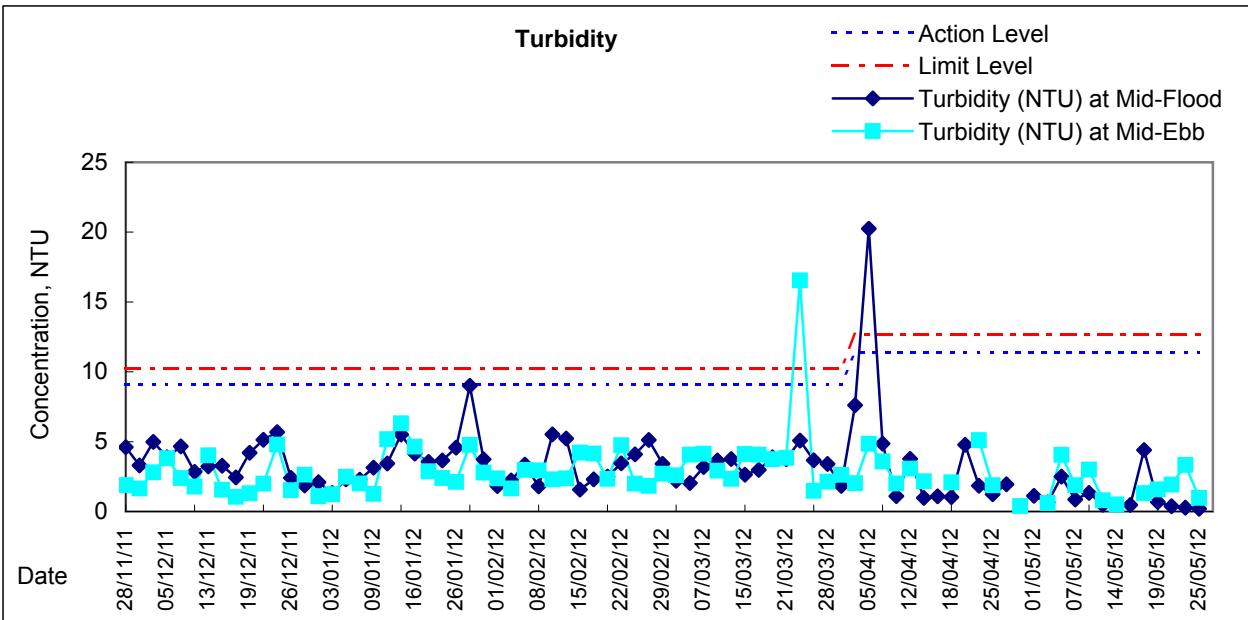
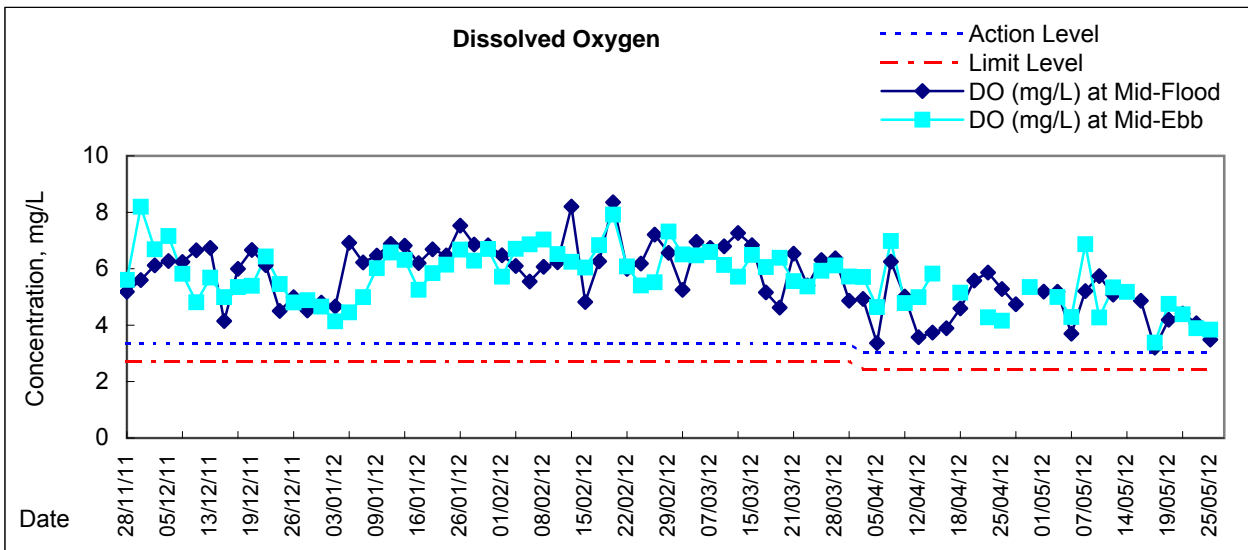


Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled



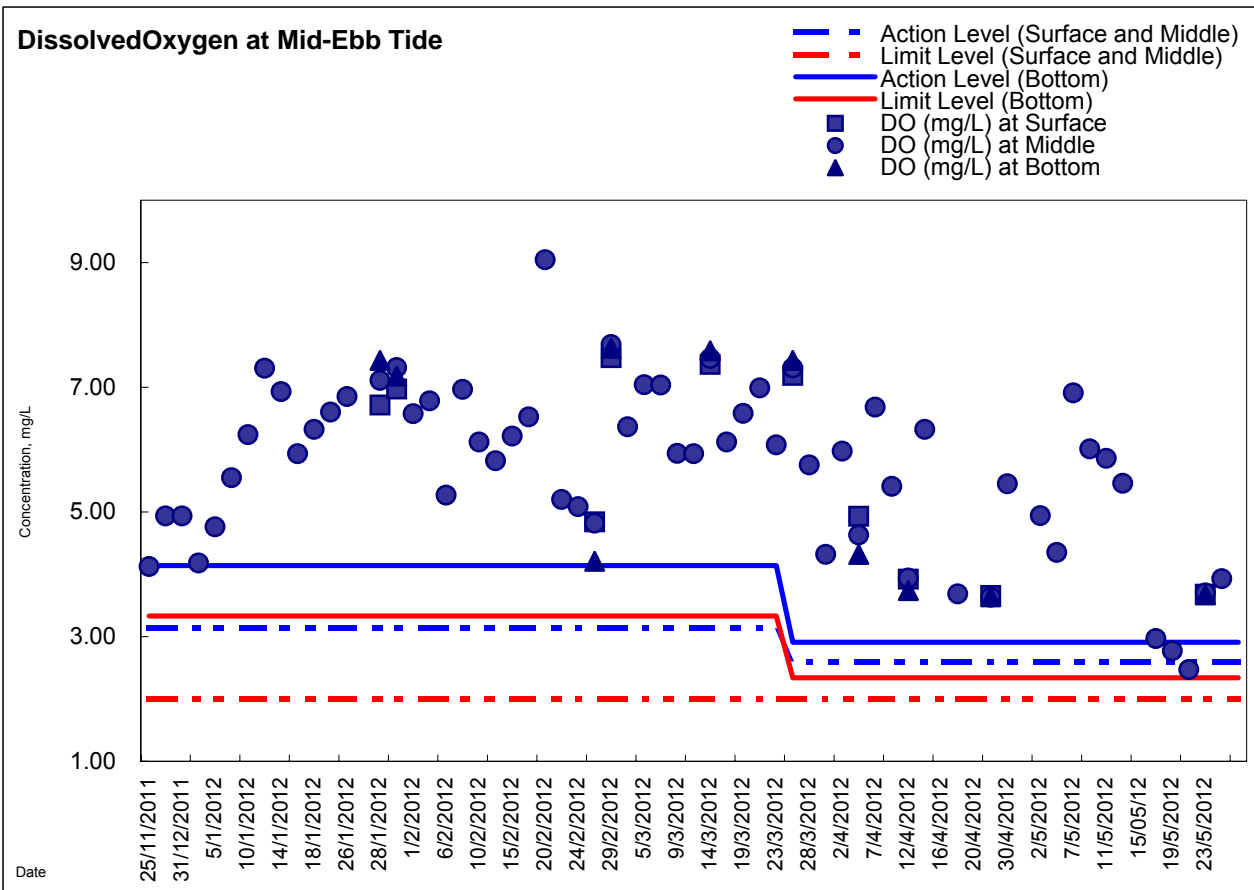
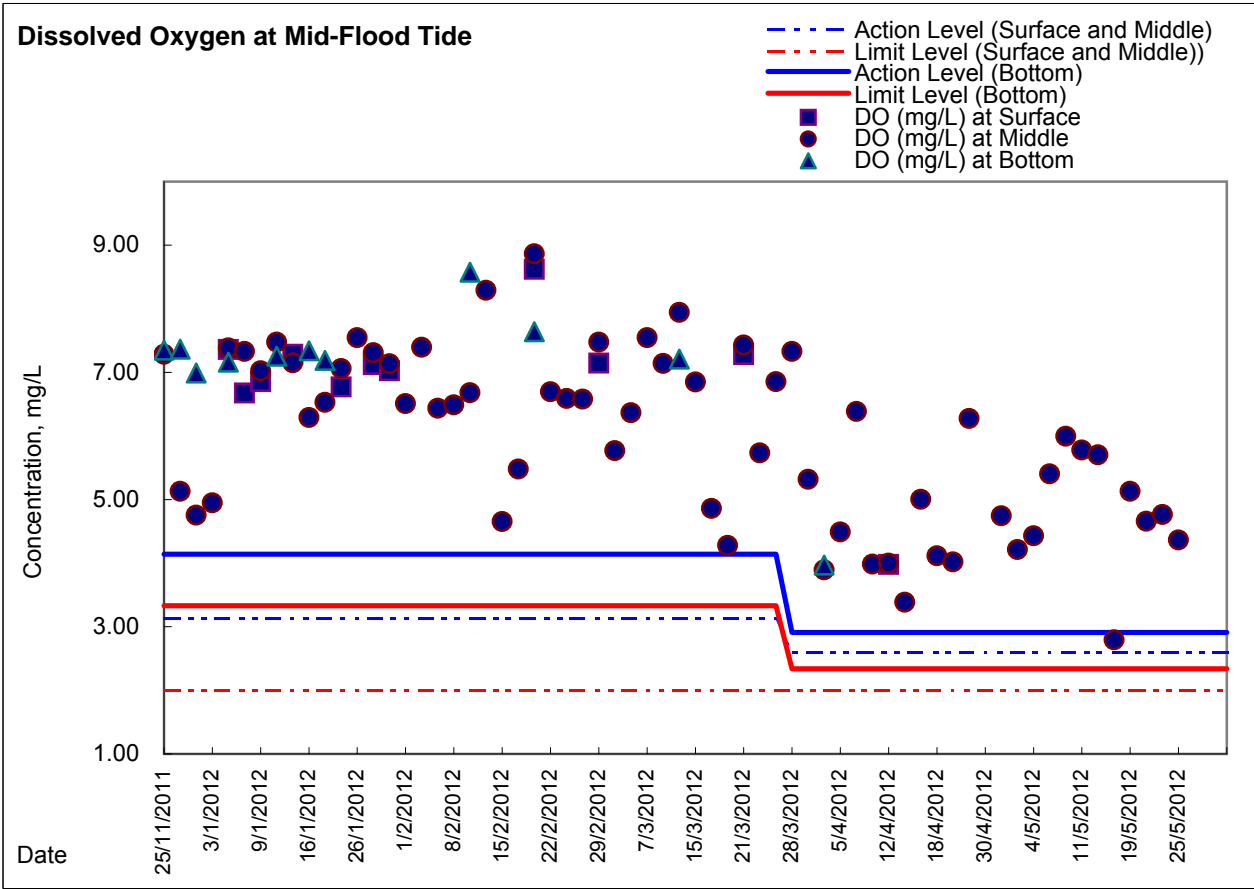


Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled



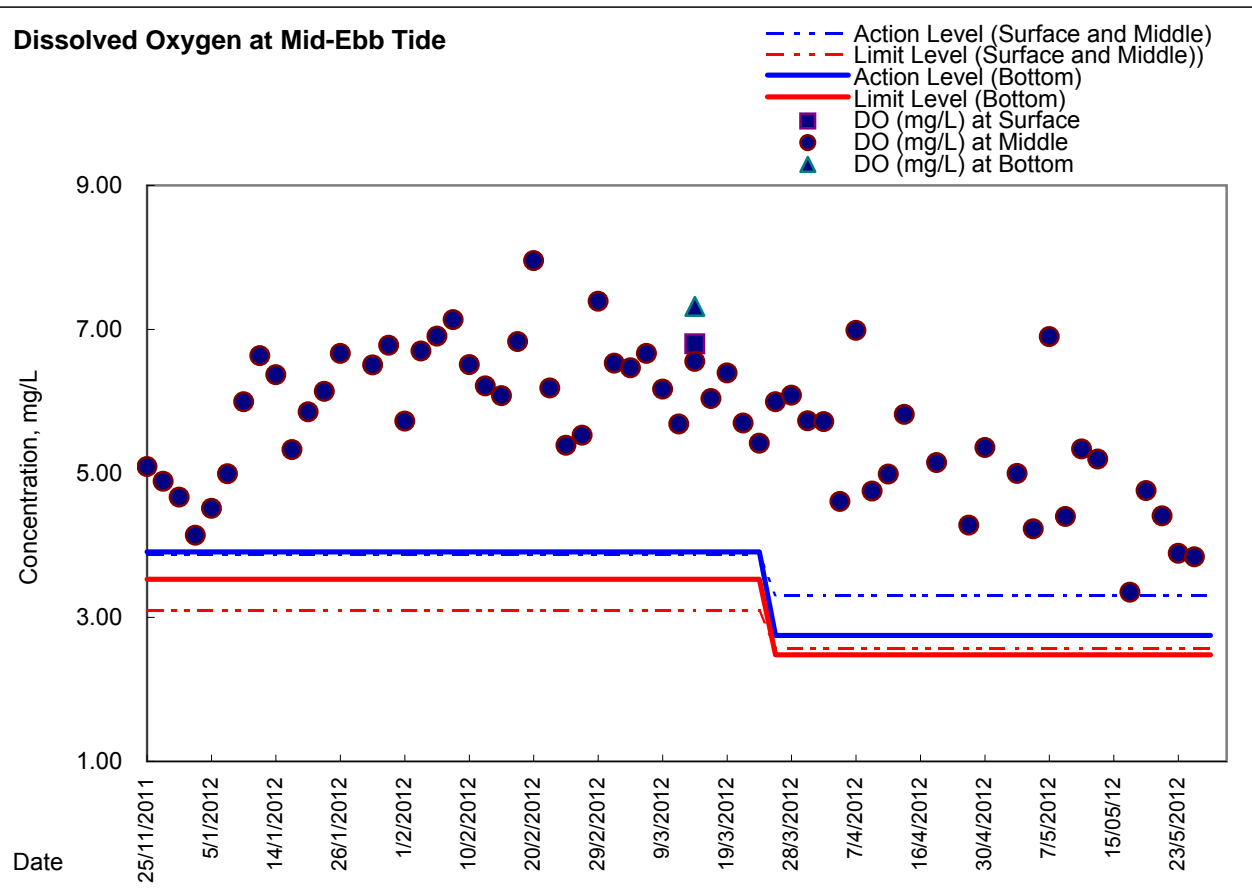
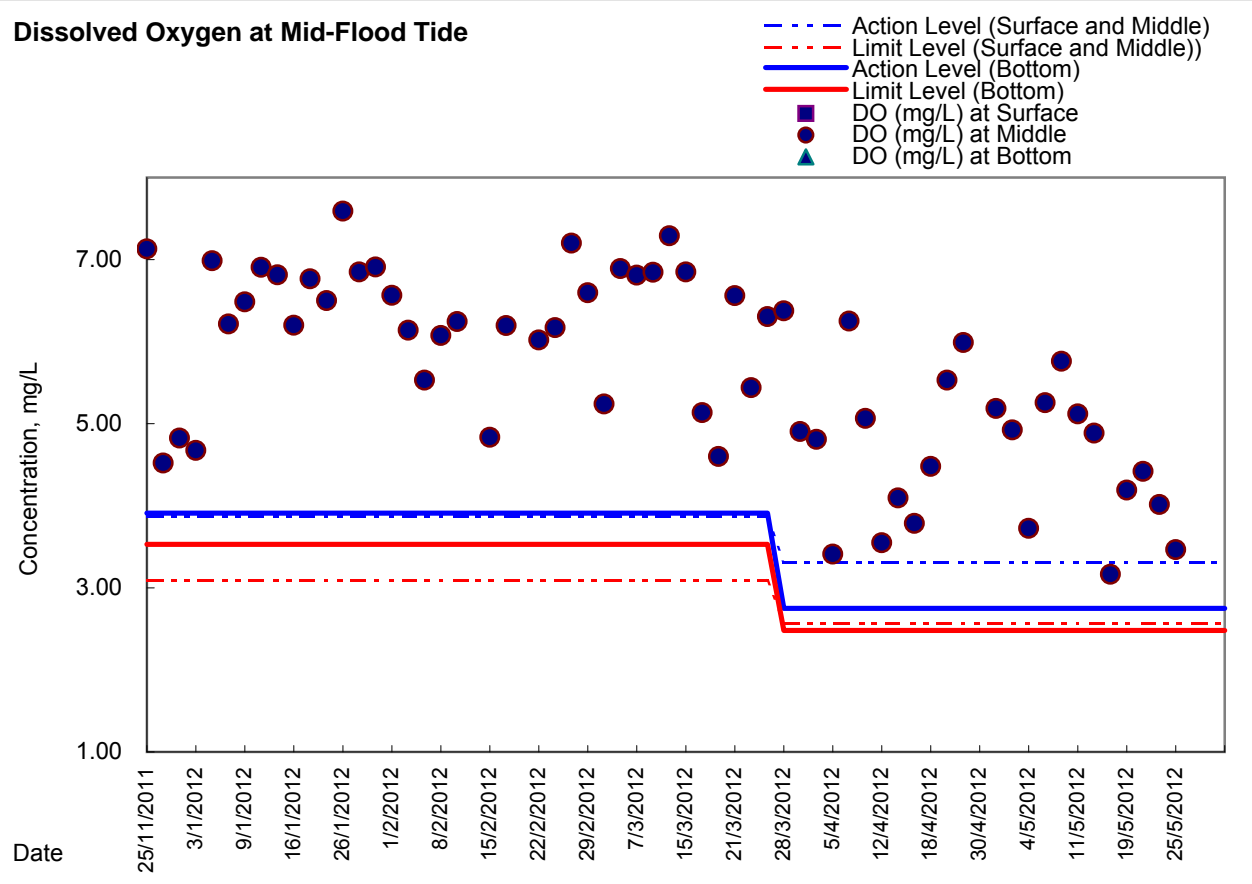
Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

### Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



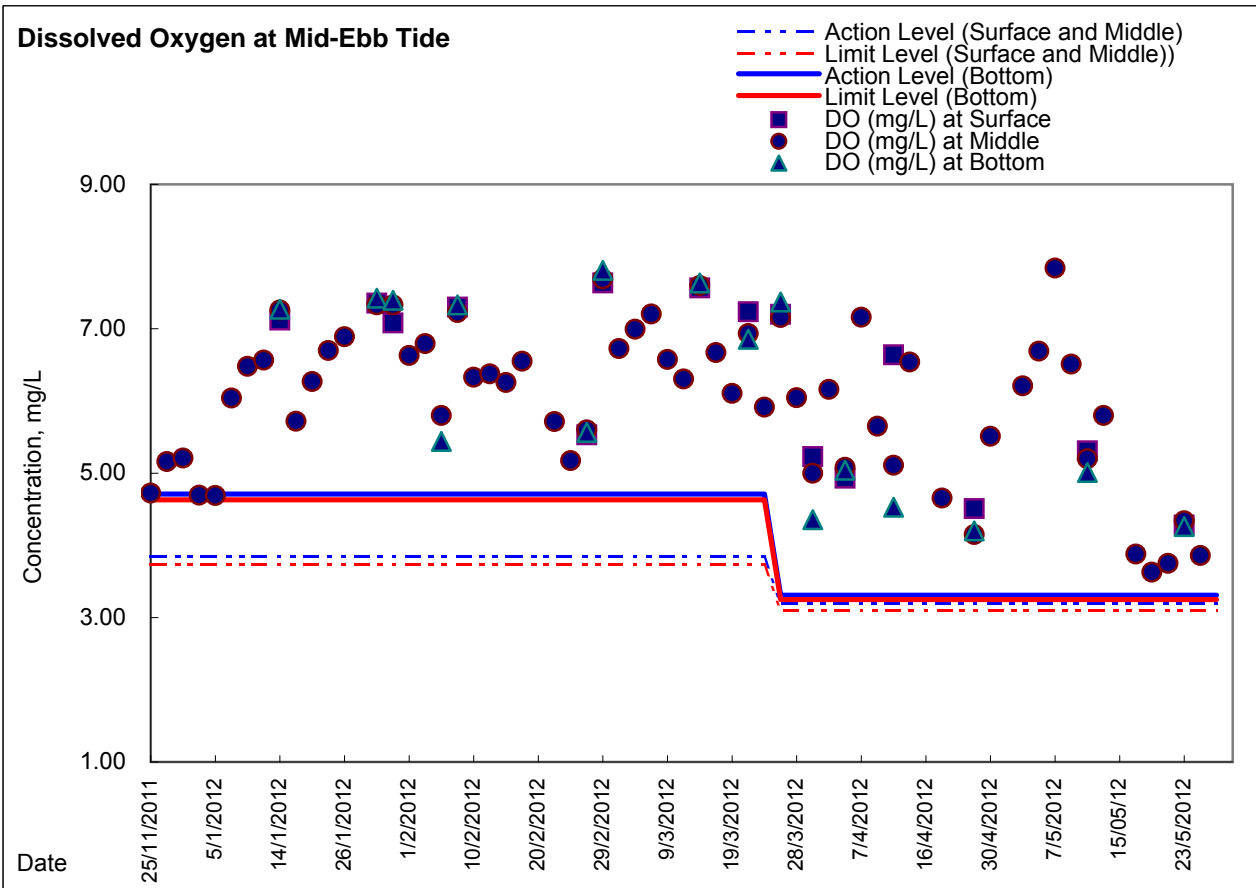
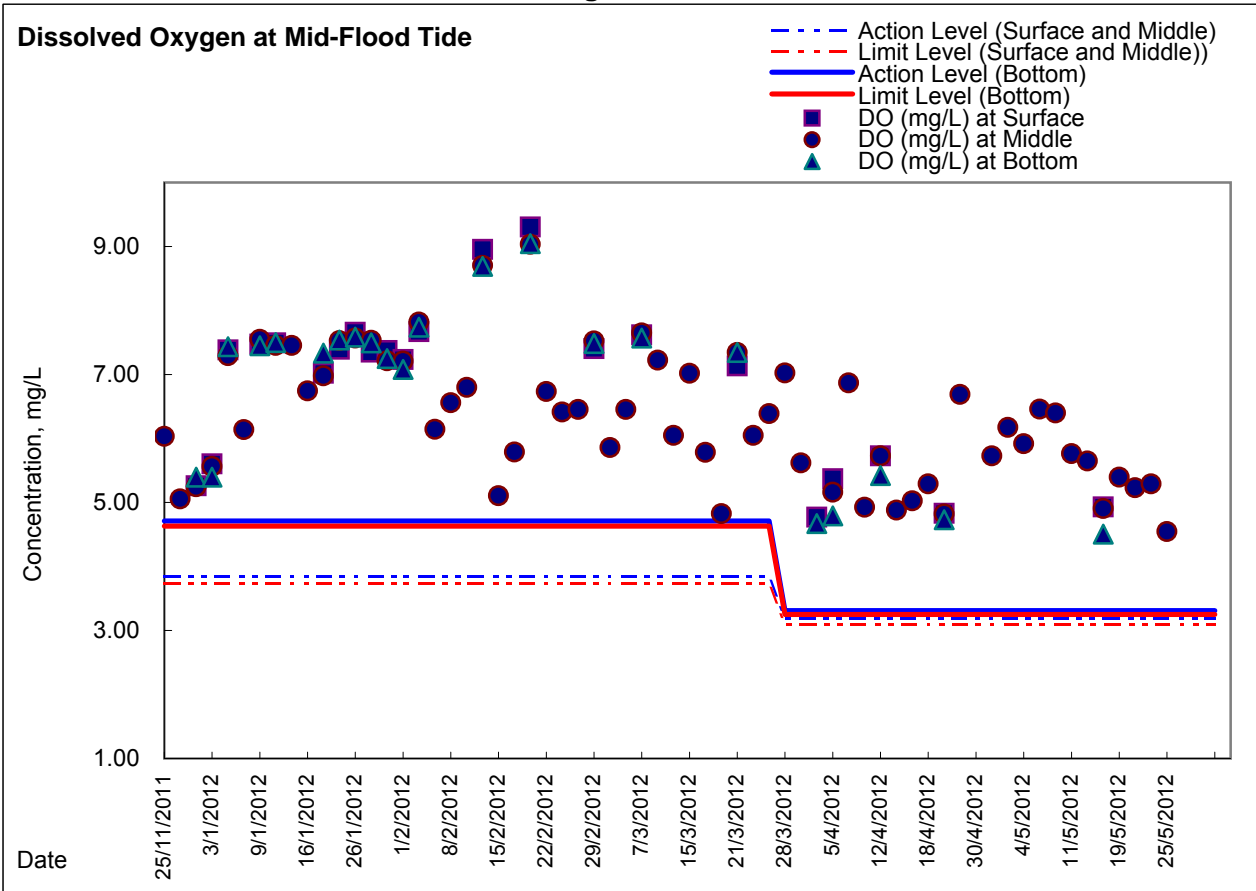
Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

### Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled

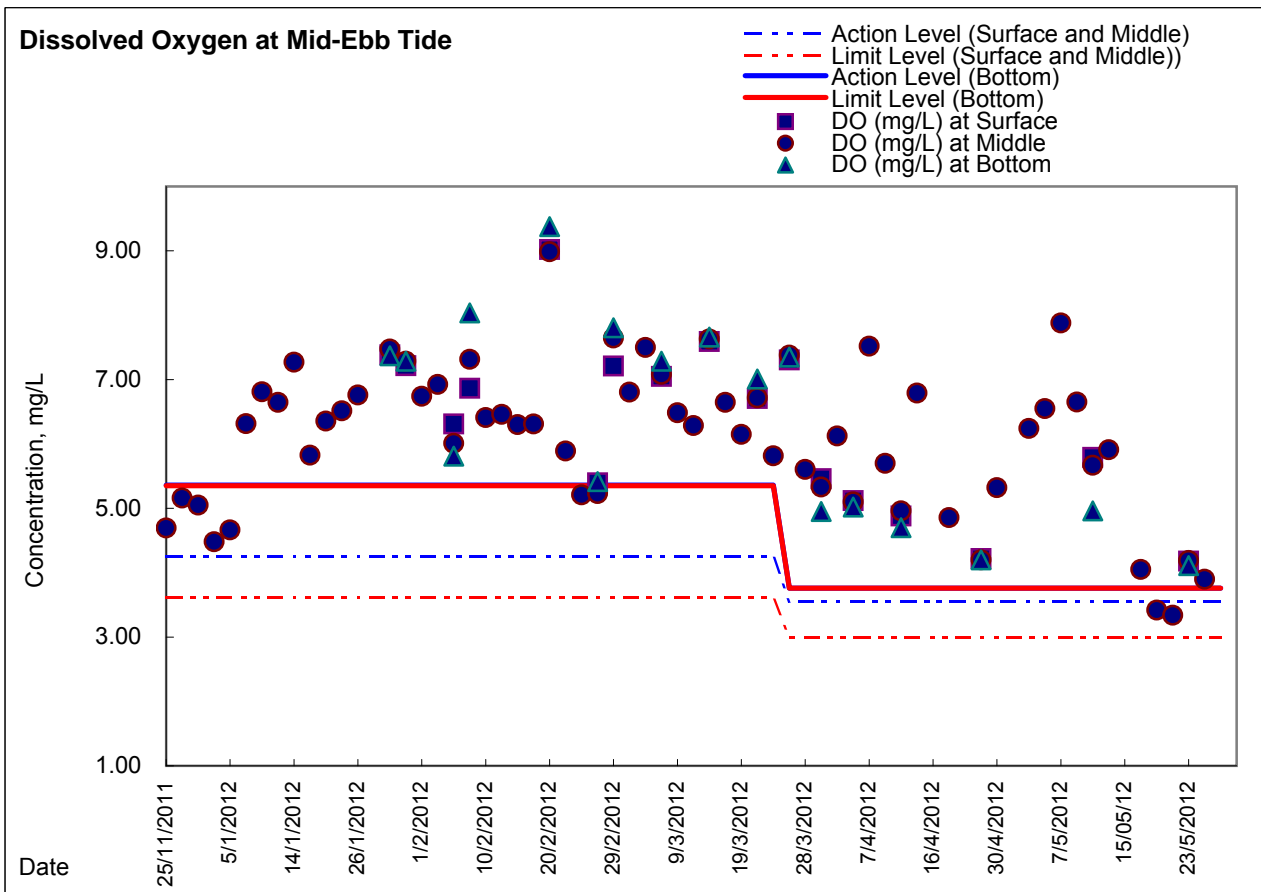
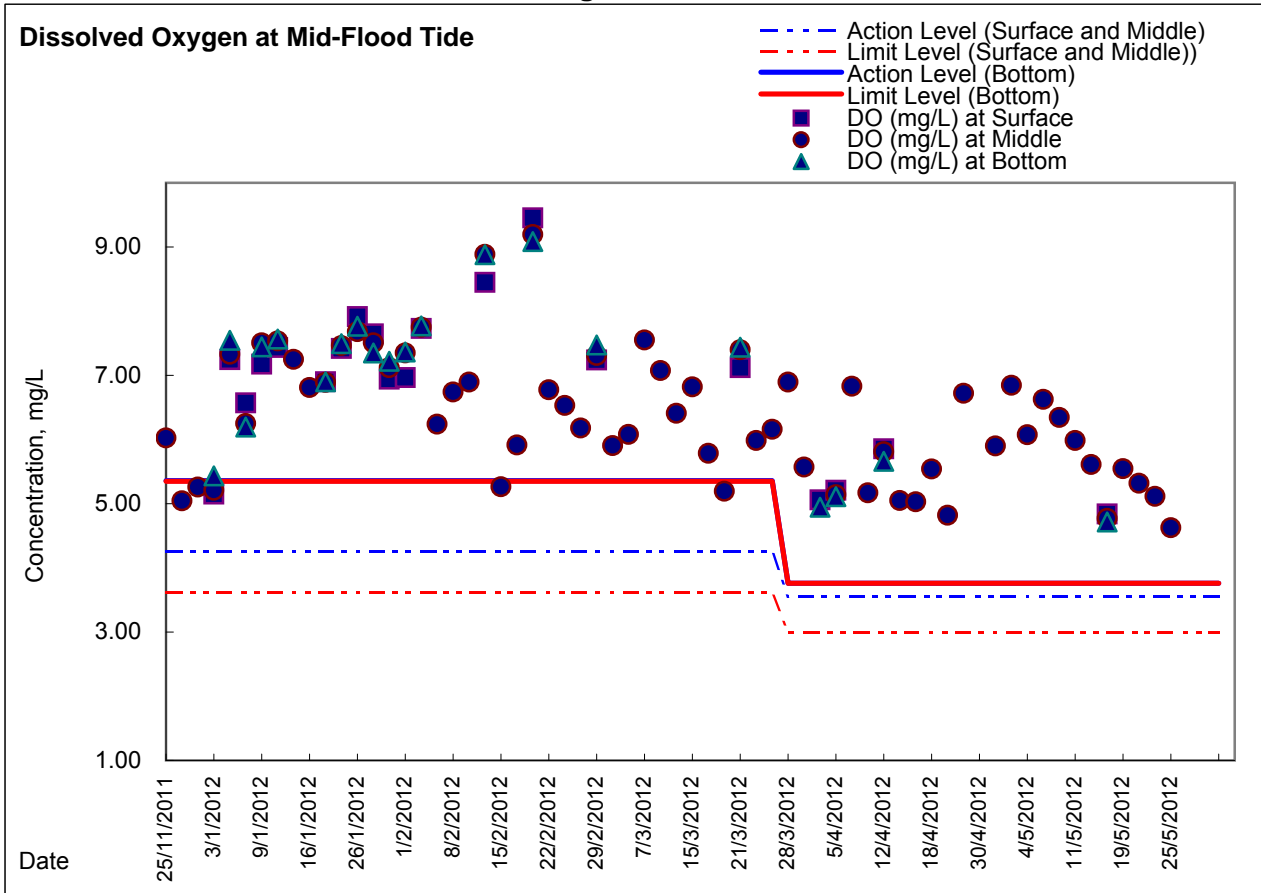
**Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW  
- South-western corners of ex-Public Cargo Works Area**



Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled



**Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE  
- South-eastern corners of ex-Public Cargo Works Area**



Remarks: Due to the enforcement of Amber Rainstorm Warning Signal on 16, 20 and 27 April 2012, the ebb tide water quality monitoring on 16, 20 and 27 April 2012 were cancelled



***Appendix 4.3a***

***Additional Dissolved Oxygen Monitoring Results***



**Water Monitoring Result at Station A  
Mid-Flood Tide**

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C		-			ppt		%		mg/L					
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29-Feb-12	11:03	Cloudy	Surface	1.0	15.40	15.40	15.40	7.98	7.98	7.98	30.80	30.80	30.80	90.2	89.6	89.9	7.49	7.42	7.46
	11:05		Middle	3.0	15.40	15.40	15.40	7.99	7.99	7.99	30.80	30.80	30.80	92.1	91.5	91.8	7.64	7.59	7.62
	11:07		Bottom	5.0	15.40	15.40	15.40	7.98	7.98	7.98	30.90	30.90	30.90	91.4	91.1	91.3	7.58	7.53	7.56
07-Mar-12	18:08	Cloudy	Surface	1.0	16.90	16.90	16.90	7.91	7.91	7.91	30.50	30.50	30.50	90.6	89.4	90.0	7.22	7.15	7.19
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:10		Bottom	3.0	16.90	16.90	16.90	7.91	7.91	7.91	30.80	30.80	30.80	91.1	92.0	91.6	7.27	7.20	7.24
15-Mar-12	21:45	Cloudy	Surface	1.0	16.40	16.40	16.40	7.99	7.99	7.99	30.10	30.10	30.10	92.4	91.4	91.9	7.56	7.50	7.53
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:47		Bottom	3.0	16.40	16.40	16.40	8.00	8.00	8.00	30.90	30.90	30.90	90.5	89.8	90.2	7.36	7.33	7.35
21-Mar-12	17:36	Cloudy	Surface	1.0	17.90	17.90	17.90	7.86	7.86	7.86	31.70	31.70	31.70	82.2	80.3	81.3	6.53	6.35	6.44
	17:37		Middle	3.5	17.80	17.80	17.80	7.88	7.88	7.88	31.90	31.90	31.90	80.7	81.0	80.9	6.33	6.36	6.35
	17:38		Bottom	6.0	17.80	17.80	17.80	7.88	7.88	7.88	31.90	31.90	31.90	81.6	81.5	81.6	6.40	6.40	6.40
26-Mar-12	20:10	Fine	Surface	1.0	18.40	18.40	18.40	8.16	8.16	8.16	31.80	31.80	31.80	91.4	91.2	91.3	7.16	7.13	7.15
	20:12		Middle	7.5	18.20	18.20	18.20	8.16	8.16	8.16	31.80	31.80	31.80	92.7	91.7	92.2	7.30	7.23	7.27
	20:14		Bottom	13.0	18.00	18.00	18.00	8.16	8.16	8.16	31.90	31.90	31.90	93.0	92.2	92.6	7.35	7.27	7.31





**Water Monitoring Result at Station B  
Mid-Flood Tide**

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C		-			ppt		%		mg/L					
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
29-Feb-12	10:56	Cloudy	Surface	1.0	15.30	15.30	15.30	7.90	7.90	7.90	31.00	31.00	31.00	89.6	89.1	89.4	7.45	7.39	7.42
	10:58		Middle	6.0	15.30	15.30	15.30	7.96	7.96	7.96	31.00	31.00	31.00	94.0	93.1	93.6	7.81	7.71	7.76
	11:00		Bottom	11.0	15.30	15.30	15.30	7.99	7.99	7.99	31.10	31.10	31.10	94.2	93.6	93.9	7.82	7.75	7.79
07-Mar-12	18:01	Cloudy	Surface	1.0	16.80	16.80	16.80	7.93	7.93	7.93	30.80	30.80	30.80	92.3	91.3	91.8	7.37	7.27	7.32
	18:03		Middle	5.5	16.80	16.80	16.80	7.91	7.91	7.91	30.90	30.90	30.90	92.7	91.3	92.0	7.41	7.27	7.34
	18:05		Bottom	10.0	16.80	16.80	16.80	7.91	7.91	7.91	30.90	30.90	30.90	92.9	91.9	92.4	7.42	7.34	7.38
15-Mar-12	21:34	Cloudy	Surface	1.0	16.30	16.30	16.30	8.01	8.01	8.01	31.40	31.40	31.40	94.1	93.5	93.8	7.66	7.61	7.64
	21:36		Middle	7.0	16.30	16.30	16.30	8.01	8.01	8.01	31.50	31.50	31.50	94.6	93.6	94.1	7.68	7.62	7.65
	21:38		Bottom	13.0	16.30	16.30	16.30	8.01	8.01	8.01	31.50	31.50	31.50	95.0	94.0	94.5	7.72	7.66	7.69
21-Mar-12	17:31	Cloudy	Surface	1.0	17.70	17.70	17.70	7.95	7.95	7.95	31.50	31.50	31.50	93.7	92.2	93.0	7.36	7.28	7.32
	17:32		Middle	6.0	17.70	17.70	17.70	7.93	7.93	7.93	32.50	31.50	32.00	95.8	94.4	95.1	7.53	7.44	7.49
	17:33		Bottom	11.0	17.80	17.80	17.80	7.94	7.94	7.94	31.50	31.50	31.50	93.2	92.6	92.9	7.33	7.28	7.31
26-Mar-12	20:23	Fine	Surface	1.0	18.20	18.20	18.20	8.16	8.16	8.16	31.80	31.80	31.80	92.2	91.6	91.9	7.27	7.22	7.25
	20:25		Middle	5.5	18.30	18.30	18.30	8.16	8.16	8.16	31.80	31.80	31.80	91.2	90.9	91.1	7.21	7.16	7.19
	20:27		Bottom	10.0	18.20	18.20	18.20	8.16	8.16	8.16	31.80	31.80	31.80	93.7	93.2	93.5	7.40	7.37	7.39



**Water Monitoring Result at Station C  
Mid-Flood Tide**

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
					°C			-			ppt			%			mg/L		
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
29-Feb-12	10:43	Cloudy	Surface	1.0	15.30	15.30	15.30	7.96	7.96	7.96	31.00	31.00	31.00	87.9	87.5	87.7	7.31	7.27	7.29
	10:45		Middle	7.0	15.00	15.00	15.00	8.04	8.04	8.04	31.10	31.10	31.10	96.5	95.7	96.1	8.07	7.98	8.0
	10:47		Bottom	13.0	14.90	14.90	14.90	8.06	8.06	8.06	31.20	31.20	31.20	96.2	95.9	96.1	8.04	8.00	8.02
07-Mar-12	17:53	Cloudy	Surface	1.0	16.90	16.90	16.90	7.83	7.83	7.83	31.00	31.00	31.00	91.8	90.9	91.4	7.31	7.23	7.27
	17:55		Middle	7.5	16.60	16.60	16.60	7.94	7.94	7.94	31.00	31.00	31.00	93.7	93.2	93.5	7.52	7.45	7.49
	17:57		Bottom	14.0	16.40	16.40	16.40	7.99	7.99	7.99	31.10	31.11	31.11	93.7	93.1	93.4	7.52	7.43	7.48
15-Mar-12	21:16	Cloudy	Surface	1.0	16.50	16.50	16.50	8.01	8.01	8.01	31.40	31.40	31.40	94.4	93.8	94.1	7.67	7.61	7.64
	21:18		Middle	7.0	16.40	16.40	16.40	8.02	8.02	8.02	31.40	31.40	31.40	95.5	94.8	95.2	7.78	7.47	7.63
	21:20		Bottom	13.0	16.40	16.40	16.40	8.01	8.01	8.01	31.40	31.40	31.40	96.0	95.4	95.7	7.81	7.75	7.78
21-Mar-12	17:20	Cloudy	Surface	1.0	17.60	17.60	17.60	7.98	7.98	7.98	31.60	31.60	31.60	91.4	90.9	91.2	7.17	7.15	7.16
	17:21		Middle	7.0	17.70	17.70	17.70	7.98	7.98	7.98	31.60	31.60	31.60	94.7	94.0	94.4	7.47	7.41	7.44
	17:22		Bottom	13.0	17.50	17.50	17.50	7.98	7.98	7.98	31.60	31.60	31.60	95.3	94.5	94.9	7.51	7.47	7.49
26-Mar-12	20:35	Fine	Surface	1.0	18.30	18.30	18.30	8.15	8.15	8.15	31.70	31.70	31.70	89.3	89.0	89.2	7.05	7.02	7.04
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:39		Bottom	5.0	18.30	18.30	18.30	8.15	8.15	8.15	31.70	31.70	31.70	89.5	89.2	89.4	7.04	7.03	7.04



**Water Monitoring Result at Station A  
Mid-Ebb Tide**

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt		%		mg/L				
					Value	Average		Value	Average		Value	Average	Value	Average	Value	Average			
29-Feb-12	16:50	Cloudy	Surface	1.0	15.30	15.30	15.30	8.01	8.01	8.01	29.20	29.20	29.20	93.6	92.5	93.1	7.82	7.75	7.79
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:52		Bottom	4.0	15.20	15.20	15.20	8.00	8.00	8.00	30.50	30.50	30.50	90.9	90.3	90.6	7.54	7.51	7.53
07-Mar-12	11:19	Cloudy	Surface	1.0	17.00	17.00	17.00	7.88	7.88	7.88	30.50	30.50	30.50	90.9	90.2	90.6	7.29	7.21	7.25
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:21		Bottom	4.0	16.90	16.90	16.90	7.88	7.88	7.88	31.00	31.00	31.00	88.6	86.8	87.7	7.10	6.93	7.02
14-Mar-12	16:50	Fine	Surface	1.0	16.20	16.20	16.20	8.03	8.03	8.03	31.20	31.20	31.20	94.1	92.9	93.5	7.65	7.58	7.62
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16:52		Bottom	3.0	16.20	16.20	16.20	8.03	8.03	8.03	31.40	31.40	31.40	93.5	92.3	92.9	7.59	7.53	7.56
21-Mar-12	12:28	Cloudy	Surface	1.0	17.60	17.60	17.60	7.87	7.87	7.87	30.90	30.90	30.90	84.5	82.9	83.7	6.65	6.53	6.59
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12:32		Bottom	3.0	17.60	17.60	17.60	7.85	7.85	7.85	30.60	30.60	30.60	85.7	84.1	84.9	6.84	6.71	6.78
26-Mar-12	14:50	Fine	Surface	1.0	18.80	18.80	18.80	8.05	8.05	8.05	29.00	29.00	29.00	87.6	86.0	86.8	6.89	6.79	6.84
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14:52		Bottom	5.0	18.30	18.30	18.30	8.09	8.09	8.09	31.70	31.70	31.70	89.9	89.4	89.7	7.05	7.01	7.03



**Water Monitoring Result at Station B  
Mid-Ebb Tide**

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m	°C			-			ppt		%		mg/L					
				Value	Average		Value	Average		Value	Average	Value	Average	Value	Average				
29-Feb-12	16:35	Cloudy	Surface	1.0	15.30	15.30	15.30	7.86	7.86	7.86	31.20	31.20	31.20	94.1	93.6	93.9	7.79	7.75	7.77
	16:37		Middle	6.0	15.20	15.20	15.20	7.97	7.97	7.97	31.10	31.10	31.10	95.9	95.4	95.7	7.94	7.92	7.93
	16:39		Bottom	11.0	15.10	15.10	15.10	8.04	8.04	8.04	31.20	31.20	31.20	96.8	96.5	96.7	8.04	8.02	8.03
07-Mar-12	11:12	Cloudy	Surface	1.0	17.20	17.20	17.20	7.89	7.89	7.89	30.90	30.90	30.90	94.4	93.6	94.0	7.51	7.47	7.49
	11:14		Middle	7.5	16.80	16.80	16.80	7.90	7.90	7.90	31.00	31.00	31.00	93.3	92.1	92.7	7.45	7.40	7.43
	11:16		Bottom	14.0	16.60	16.60	16.60	7.92	7.92	7.92	31.00	31.00	31.00	92.1	91.7	91.9	7.41	7.36	7.39
14-Mar-12	16:38	Fine	Surface	1.0	16.20	16.20	16.20	8.03	8.03	8.03	31.40	31.40	31.40	95.7	94.5	95.1	7.79	7.68	7.74
	16:40		Middle	6.0	16.20	16.20	16.20	8.03	8.03	8.03	31.50	31.50	31.50	93.2	92.5	92.9	7.60	7.52	7.56
	16:42		Bottom	11.0	16.10	16.10	16.10	8.04	8.04	8.04	31.50	31.50	31.50	93.0	91.7	92.4	7.59	7.48	7.54
21-Mar-12	12:15	Cloudy	Surface	1.0	17.60	17.60	17.60	7.89	7.89	7.89	31.50	31.50	31.50	96.2	93.9	95.1	7.63	7.44	7.54
	12:17		Middle	6.0	17.40	17.40	17.40	7.93	7.93	7.93	31.70	31.70	31.70	92.9	92.0	92.5	7.38	7.28	7.33
	12:19		Bottom	11.0	17.30	17.30	17.30	7.94	7.94	7.94	31.80	31.80	31.80	90.8	90.4	90.6	7.23	7.15	7.19
26-Mar-12	14:42	Fine	Surface	1.0	18.60	18.60	18.60	8.15	8.15	8.15	32.20	32.20	32.20	94.6	93.8	94.2	7.32	7.28	7.30
	14:43		Middle	5.5	18.30	18.30	18.30	8.16	8.16	8.16	32.30	32.30	32.30	95.8	94.9	95.4	7.48	7.37	7.43
	14:44		Bottom	10.0	18.20	18.20	18.20	8.16	8.16	8.16	32.30	32.30	32.30	95.6	95.0	95.3	7.46	7.41	7.44



**Water Monitoring Result at Station C  
Mid-Ebb Tide**

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m	°C			-			ppt		%		mg/L					
				Value	Average		Value	Average		Value	Average	Value	Average	Value	Average				
29-Feb-12	16:28	Cloudy	Surface	1.0	15.10	15.10	15.10	7.96	7.96	7.96	31.10	31.10	31.10	92.8	92.7	92.8	7.71	7.68	7.70
	16:30		Middle	7.0	15.10	15.10	15.10	8.01	8.01	8.01	31.20	31.20	31.20	96.4	96.0	96.2	8.01	7.97	7.99
	16:32		Bottom	13.0	15.00	15.00	15.00	8.06	8.06	8.06	31.30	31.30	31.30	96.9	96.6	96.8	8.07	8.04	8.06
07-Mar-12	11:04	Cloudy	Surface	1.0	17.20	17.20	17.20	7.86	7.86	7.86	30.60	30.60	30.60	100.0	100.0	100.0	7.97	7.98	7.98
	11:06		Middle	7.5	17.00	17.00	17.00	7.89	7.89	7.89	30.90	30.90	30.90	92.3	91.5	91.9	7.37	7.33	7.35
	11:08		Bottom	14.0	16.60	16.60	16.60	7.95	7.95	7.95	31.10	31.10	31.10	95.0	94.2	94.6	7.63	7.59	7.61
14-Mar-12	16:30	Fine	Surface	1.0	16.20	16.20	16.20	8.03	8.03	8.03	31.50	31.50	31.50	93.4	92.4	92.9	7.60	7.50	7.55
	16:33		Middle	7.0	16.10	16.10	16.10	8.03	8.03	8.03	31.60	31.60	31.60	93.6	93.2	93.4	7.63	7.57	7.60
	16:34		Bottom	13.0	16.10	16.10	16.10	8.03	8.03	8.03	31.50	31.50	31.50	94.0	93.2	93.6	7.68	7.60	7.64
21-Mar-12	12:00	Cloudy	Surface	1.0	17.60	17.60	17.60	7.92	7.92	7.92	31.50	31.50	31.50	93.4	90.6	92.0	7.37	7.18	7.28
	12:02		Middle	7.0	17.40	17.40	17.40	7.93	7.93	7.93	31.70	31.70	31.70	94.7	93.0	93.9	7.48	7.39	7.44
	12:04		Bottom	13.0	17.30	17.30	17.30	7.96	7.96	7.96	31.70	31.70	31.70	95.8	95.2	95.5	7.62	7.55	7.59
26-Mar-12	14:34	Fine	Surface	1.0	18.30	18.30	18.30	8.14	8.14	8.14	32.10	32.10	32.10	94.0	93.8	93.9	7.30	7.29	7.30
	14:35		Middle	7.0	18.40	18.40	18.40	8.15	8.15	8.15	32.20	32.20	32.20	93.3	92.7	93.0	7.23	7.19	7.21
	14:36		Bottom	13.0	18.30	18.30	18.30	8.14	8.14	8.14	32.10	32.10	32.10	93.2	92.7	93.0	7.25	7.21	7.23





**Water Monitoring Result at Station B  
Mid-Flood Tide**

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
					°C			-			ppt		%		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
05-Apr-12	16:56	Rainy	Surface	1.0	20.00	20.00	20.00	7.84	7.84	7.84	30.42	30.42	30.42	75.4	75.4	75.4	5.74	5.74	5.74
	16:58		Middle	5.5	19.70	19.70	19.70	7.85	7.85	7.85	30.96	30.96	30.96	74.2	74.2	74.2	5.66	5.66	5.66
	17:00		Bottom	10.0	19.60	19.60	19.60	7.86	7.86	7.86	30.82	30.82	30.82	69.5	69.5	69.5	5.30	5.30	5.30
12-Apr-12	10:50	Sunny	Surface	1.0	21.20	21.20	21.20	7.83	7.83	7.83	30.20	30.20	30.20	75.6	75.6	75.6	5.63	5.63	5.63
	10:51		Middle	5.0	21.10	21.10	21.10	7.83	7.83	7.83	30.39	30.39	30.39	74.2	74.2	74.2	5.52	5.52	5.52
	10:52		Bottom	9.0	21.00	21.00	21.00	7.84	7.84	7.84	30.76	30.76	30.76	72.2	72.2	72.2	5.39	5.39	5.39
20-Apr-12	16:44	Cloudy	Surface	1.0	22.30	22.30	22.30	7.94	7.94	7.94	30.31	30.31	30.31	70.4	70.4	70.4	5.14	5.14	5.14
	16:45		Middle	5.0	22.10	22.10	22.10	7.86	7.86	7.86	30.59	30.59	30.59	71.4	71.4	71.4	5.22	5.22	5.22
	16:46		Bottom	9.0	22.10	22.10	22.10	7.73	7.73	7.73	30.86	30.86	30.86	67.4	67.4	67.4	4.92	4.92	4.92
23-Apr-12	17:23	Cloudy	Surface	1.0	22.80	22.80	22.80	7.76	7.76	7.76	30.28	30.28	30.28	73.6	73.6	73.6	5.32	5.32	5.32
	17:24		Middle	5.5	22.70	22.70	22.70	7.79	7.79	7.79	30.51	30.51	30.51	70.2	70.2	70.2	5.08	5.08	5.08
	17:25		Bottom	10.0	22.70	22.70	22.70	7.76	7.76	7.76	30.38	30.38	30.38	71.0	71.0	71.0	5.14	5.14	5.14



**Water Monitoring Result at Station C  
Mid-Flood Tide**

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt		%		mg/L				
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
05-Apr-12	17:00	Rainy	Surface	1.0	19.70	19.70	19.70	7.83	7.83	7.83	20.26	20.26	20.26	75.1	75.1	75.1	6.09	6.09	6.09
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:04		Bottom	3.0	19.70	19.70	19.70	7.85	7.85	7.85	21.06	21.06	21.06	74.6	74.6	74.6	5.98	5.98	5.98
12-Apr-12	10:45	Sunny	Surface	1.0	21.10	21.10	21.10	7.85	7.85	7.85	30.17	30.17	30.17	76.6	76.1	76.4	5.71	5.71	5.71
	10:46		Middle	6.5	20.90	20.90	20.90	7.85	7.85	7.85	30.16	30.16	30.16	73.8	73.8	73.8	5.52	5.52	5.52
	10:47		Bottom	12.0	20.80	20.80	20.80	7.85	7.85	7.85	30.63	30.63	30.63	73.2	73.2	73.2	5.47	5.47	5.47
20-Apr-12	16:39	Cloudy	Surface	1.0	22.30	22.30	22.30	7.85	7.85	7.85	30.34	30.34	30.34	67.4	67.4	67.4	4.91	4.91	4.91
	16:40		Middle	6.5	22.10	22.10	22.10	7.97	7.97	7.97	30.87	30.87	30.87	66.2	66.2	66.2	4.83	4.83	4.83
	16:46		Bottom	12.0	22.10	22.10	22.10	7.93	7.93	7.93	31.17	31.17	31.17	66.6	66.6	66.6	4.86	4.86	4.86
23-Apr-12	17:16	Cloudy	Surface	1.0	22.80	22.80	22.80	7.75	7.75	7.75	30.23	30.23	30.23	71.0	71.0	71.0	5.14	5.14	5.14
	17:17		Middle	6.5	22.60	22.60	22.60	7.79	7.79	7.79	30.54	30.54	30.54	70.0	70.0	70.0	5.09	5.09	5.09
	17:18		Bottom	12.0	22.60	22.60	22.60	7.80	7.80	7.80	30.64	30.64	30.64	66.0	66.0	66.0	4.78	4.78	4.78





**Water Monitoring Result at Station A  
Mid-Ebb Tide**

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m	°C			-			ppt		%		mg/L					
				Value	Average		Value	Average		Value	Average	Value	Average	Value	Average				
05-Apr-12	12:05	Cloudy	Surface	1.0	19.70	19.70	19.70	7.96	7.96	7.96	30.68	30.68	30.68	69.5	69.5	69.5	5.31	5.31	5.31
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:09		Bottom	4.0	19.60	19.60	19.60	7.90	7.90	7.90	30.99	30.99	30.99	70.1	70.1	70.1	5.34	5.34	5.34
12-Apr-12	16:05	Fine	Surface	1.0	21.30	21.30	21.30	7.83	7.83	7.83	30.20	30.20	30.20	71.5	71.5	71.5	5.31	5.31	5.31
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16:06		Bottom	4.0	21.30	21.30	21.30	7.82	7.82	7.82	30.39	30.39	30.39	68.9	68.9	68.9	5.11	5.11	5.11
23-Apr-12	13:24	Cloudy	Surface	1.0	22.80	22.80	22.80	7.73	7.73	7.73	30.73	30.73	30.73	61.1	61.1	61.1	4.41	4.41	4.41
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	13:25		Bottom	4.0	22.80	22.80	22.80	7.78	7.78	7.78	30.77	30.77	30.77	62.7	62.7	62.7	4.52	4.52	4.52



**Water Monitoring Result at Station B  
Mid-Ebb Tide**

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m	°C			-			ppt		%		mg/L					
				Value	Average		Value	Average		Value	Average	Value	Average	Value	Average				
05-Apr-12	12:00	Cloudy	Surface	1.0	19.70	19.70	19.70	7.83	7.83	7.83	31.02	31.02	31.02	74.8	74.8	74.8	5.68	5.68	5.68
	12:02		Middle	5.5	19.60	19.60	19.60	7.85	7.85	7.85	31.04	31.04	31.04	74.1	74.1	74.1	5.61	5.61	5.61
	12:04		Bottom	10.0	19.50	19.50	19.50	7.83	7.83	7.83	30.84	30.84	30.84	68.1	68.1	68.1	5.21	5.21	5.21
12-Apr-12	16:00	Fine	Surface	1.0	21.40	21.40	21.40	7.85	7.85	7.85	30.45	30.45	30.45	75.9	75.9	75.9	5.62	5.62	5.62
	16:01		Middle	6.5	21.30	21.30	21.30	7.85	7.85	7.85	30.46	30.46	30.46	74.7	74.7	74.7	5.47	5.47	5.47
	16:02		Bottom	10.0	21.10	21.10	21.10	7.85	7.85	7.85	30.53	30.53	30.53	73.1	73.1	73.1	5.44	5.44	5.44
23-Apr-12	13:20	Cloudy	Surface	1.0	22.80	22.80	22.80	7.74	7.74	7.74	30.69	30.69	30.69	68.3	68.3	68.3	4.92	4.92	4.92
	13:21		Middle	5.5	22.70	22.70	22.70	7.78	7.78	7.78	30.70	30.70	30.70	66.8	66.8	66.8	4.82	4.82	4.82
	13:22		Bottom	10.0	22.60	22.60	22.60	7.73	7.73	7.73	30.37	30.37	30.37	57.5	57.5	57.5	4.17	4.17	4.17



**Water Monitoring Result at Station C  
Mid-Ebb Tide**

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt		%		mg/L				
					Value	Average		Value	Average		Value	Average	Value	Average	Value	Average			
05-Apr-12	11:55	Cloudy	Surface	1.0	19.60	19.60	19.60	7.98	7.98	7.98	31.00	31.00	31.00	77.3	76.7	77.0	5.87	5.85	5.86
	11:57		Middle	6.5	19.60	19.60	19.60	7.89	7.89	7.89	31.01	31.01	31.01	76.3	75.7	76.0	5.83	5.87	5.85
	11:59		Bottom	12.0	19.60	19.60	19.60	7.88	7.88	7.88	31.01	31.01	31.01	67.8	66.4	67.1	5.17	5.04	5.11
12-Apr-12	15:53	Fine	Surface	1.0	21.10	21.10	21.10	7.89	7.89	7.89	30.44	30.44	30.44	78.2	78.2	78.2	5.83	5.83	5.83
	15:54		Middle	7.0	21.00	21.00	21.00	7.90	7.90	7.90	30.49	30.49	30.49	75.5	75.5	75.5	5.63	5.63	5.63
	15:55		Bottom	13.0	21.10	21.10	21.10	7.87	7.87	7.87	30.51	30.51	30.51	72.8	72.8	72.8	5.42	5.42	5.42
23-Apr-12	13:15	Cloudy	Surface	1.0	22.70	22.70	22.70	7.85	7.85	7.85	30.71	30.71	30.71	72.5	72.5	72.5	5.25	5.25	5.25
	13:16		Middle	7.0	22.60	22.60	22.60	7.91	7.91	7.91	30.78	30.78	30.78	77.7	77.7	77.7	5.64	5.64	5.64
	13:17		Bottom	13.0	22.50	22.50	22.50	7.90	7.90	7.90	30.73	30.73	30.73	72.6	72.6	72.6	5.26	5.26	5.26



**Water Monitoring Result at Station A  
Mid-Flood Tide**

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
					°C			-			ppt			%			mg/L		
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
04-May-12	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:21		Middle	1.5	26.05	26.05	26.05	7.48	7.48	7.48	25.49	25.49	25.49	68.6	69.0	68.80	4.82	6.84	5.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09-May-12	18:55	Sunny	Surface	1.0	26.20	26.20	26.20	8.46	8.46	8.46	27.42	27.42	27.42	113.1	112.9	113.00	7.84	7.82	7.83
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:56		Bottom	3.0	26.10	26.10	26.10	8.46	8.46	8.46	27.50	27.50	27.50	112.7	113.1	112.90	7.82	7.85	7.84
17-May-12	15:48	Cloudy	Surface	1.0	26.40	26.40	26.40	8.23	8.23	8.23	28.08	28.08	28.08	65.3	66.1	65.70	4.49	4.55	4.52
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:49		Bottom	4.0	26.20	26.20	26.20	8.24	8.24	8.24	29.51	29.51	29.51	52.7	52.6	52.65	3.63	3.62	3.63
23-May-12	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:35		Middle	1.5	26.90	26.90	26.90	7.97	7.97	7.97	27.83	27.83	27.83	73.1	72.4	72.75	4.96	4.80	4.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:  
 Single underline denotes exceedance over Action Level.  
 Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at Station B  
Mid-Flood Tide**

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt		%		mg/L				
					Value	Average		Value	Average		Value	Average	Value	Average	Value	Average			
04-May-12	16:12	Cloudy	Surface	1.0	25.91	25.91	25.91	7.48	7.48	7.48	25.82	25.82	25.82	67.8	68.5	68.15	4.76	4.81	4.79
	16:13		Middle	5.0	25.24	25.24	25.24	7.35	7.35	7.35	27.05	27.05	27.05	62.6	62.5	62.55	4.42	4.41	4.42
	16:14		Bottom	9.0	24.28	24.28	24.28	7.14	7.14	7.14	30.05	30.05	30.05	55.3	54.6	54.95	3.90	3.85	3.88
09-May-12	18:45	Sunny	Surface	1.0	25.90	25.90	25.90	8.46	8.46	8.46	27.39	27.39	27.39	115.2	115.4	115.30	8.02	8.03	8.03
	18:46		Middle	5.5	25.80	25.80	25.80	8.45	8.45	8.45	27.50	27.50	27.50	110.9	113.4	112.15	7.80	7.90	7.85
	18:47		Bottom	10.0	25.80	25.80	25.80	8.42	8.42	8.42	27.84	27.84	27.84	92.2	90.4	91.30	6.42	6.30	6.36
17-May-12	15:43	Cloudy	Surface	1.0	26.40	26.40	26.40	8.29	8.29	8.29	28.58	28.58	28.58	74.3	75.6	74.95	5.10	5.19	5.15
	15:44		Middle	5.5	26.20	26.20	26.20	8.28	8.28	8.28	28.89	28.89	28.89	71.0	70.8	70.90	4.88	4.87	4.88
	15:45		Bottom	10.0	25.90	25.90	25.90	8.21	8.21	8.21	30.08	30.08	30.08	51.7	51.2	51.45	3.56	3.53	3.55
23-May-12	17:40	Cloudy	Surface	1.0	26.40	26.40	26.40	7.97	7.97	7.97	29.91	29.91	29.91	76.8	77.1	76.95	5.23	5.24	5.24
	17:41		Middle	5.0	26.40	26.40	26.40	7.99	7.99	7.99	29.96	29.96	29.96	76.1	75.6	75.85	5.18	5.14	5.16
	17:42		Bottom	9.0	26.50	26.50	26.50	8.00	8.00	8.00	30.17	30.17	30.17	73.5	74.1	73.80	4.99	5.03	5.01

Remarks:  
 Single underline denotes exceedance over Action Level.  
 Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at Station C  
Mid-Flood Tide**

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
					°C			-			ppt			%			mg/L		
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
04-May-12	16:00	Cloudy	Surface	1.0	26.36	26.36	26.36	7.48	7.48	7.48	26.20	26.20	26.20	72.5	72.4	72.45	5.04	5.03	5.04
	16:02		Middle	6.5	25.40	25.40	25.40	7.32	7.32	7.32	27.44	27.44	27.44	65.2	65.1	65.15	4.57	4.56	4.57
	16:04		Bottom	12.0	25.01	25.01	25.01	7.24	7.24	7.24	27.71	27.71	27.71	66.4	66.5	66.45	4.28	4.27	4.28
09-May-12	18:35	Sunny	Surface	1.0	25.80	25.80	25.80	8.62	8.62	8.62	26.90	26.90	26.90	120.0	119.4	119.70	8.40	8.35	8.38
	18:36		Middle	6.5	25.70	25.70	25.70	8.48	8.48	8.48	27.32	27.32	27.32	115.7	116.9	116.30	8.08	8.17	8.13
	18:37		Bottom	12.0	25.70	25.70	25.70	8.44	8.44	8.44	27.73	27.73	27.73	109.4	109.8	109.60	7.63	7.66	7.65
17-May-12	15:36	Cloudy	Surface	1.0	26.50	26.50	26.50	8.33	8.33	8.33	28.66	28.66	28.66	80.1	80.0	80.05	5.50	5.47	5.49
	15:37		Middle	7.0	26.00	26.00	26.00	8.24	8.24	8.24	29.73	29.73	29.73	59.2	59.0	59.10	4.08	4.05	4.07
	15:38		Bottom	13.0	25.50	25.50	25.50	8.22	8.22	8.22	30.38	30.38	30.38	52.5	52.4	52.45	3.62	3.61	3.62
23-May-12	17:47	Cloudy	Surface	1.0	26.30	26.30	26.30	7.98	7.98	7.98	29.93	29.93	29.93	73.8	74.2	74.00	5.03	5.06	5.05
	17:48		Middle	6.5	26.40	26.40	26.40	8.00	8.00	8.00	30.20	30.20	30.20	72.1	72.2	72.15	4.90	4.91	4.91
	17:49		Bottom	12.0	26.30	26.30	26.30	8.00	8.00	8.00	30.34	30.34	30.34	65.4	64.3	64.85	4.44	4.37	4.41

Remarks:  
 Single underline denotes exceedance over Action Level.  
 Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at Station A  
Mid-Ebb Tide**

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth	Water Temperature			pH			Salinity			DO Saturation			DO			
				m	°C		-		ppt		%		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
04-May-12	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:50		Middle	1.5	25.50	25.50	25.50	8.30	8.30	8.30	26.98	26.98	26.98	90.8	91.1	90.95	6.38	6.40	6.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09-May-12	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	15:25		Middle	1.5	26.30	26.30	26.30	8.40	8.40	8.40	28.08	28.08	28.08	100.1	102.4	101.25	6.91	7.05	6.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17-May-12	11:10	Cloudy	Surface	1.0	26.20	26.20	26.20	9.44	9.44	9.44	28.97	28.97	28.97	59.6	59.8	59.70	4.09	4.10	4.10
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:12		Bottom	4.0	26.20	26.20	26.20	9.38	9.38	9.38	29.13	29.13	29.13	58.9	57.1	58.00	4.02	3.91	3.97
23-May-12	11:53	Cloudy	Surface	1.0	26.30	26.30	26.30	7.35	7.35	7.35	30.18	30.18	30.18	63.6	64.1	63.85	4.33	4.36	4.35
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11:54		Bottom	4.0	26.30	26.30	26.30	7.36	7.36	7.36	30.48	30.48	30.48	59.5	58.4	58.95	4.04	3.93	3.99

Remarks:  
Single underline denotes exceedance over Action Level.  
Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at Station B  
Mid-Ebb Tide**

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m	°C			-			ppt		%		mg/L					
				Value	Average		Value	Average		Value	Average	Value	Average	Value	Average				
04-May-12	11:45	Cloudy	Surface	1.0	25.60	25.60	25.60	8.40	8.40	8.40	26.57	26.57	26.57	104.2	103.6	103.90	7.33	7.29	7.31
	11:46		Middle	5.0	25.40	25.40	25.40	8.30	8.30	8.30	26.97	26.97	26.97	98.3	97.5	97.90	6.91	6.86	6.89
	11:47		Bottom	9.0	25.40	25.40	25.40	8.33	8.33	8.33	27.66	27.66	27.66	87.5	87.0	87.25	6.14	6.11	6.13
09-May-12	15:20	Sunny	Surface	1.0	25.90	25.90	25.90	8.45	8.45	8.45	28.27	28.27	28.27	110.7	110.8	110.75	7.67	7.69	7.68
	15:21		Middle	5.0	25.80	25.80	25.80	8.47	8.47	8.47	28.31	28.31	28.31	108.2	108.9	108.55	7.53	7.55	7.54
	15:22		Bottom	9.0	24.70	24.70	24.70	8.37	8.37	8.37	30.01	30.01	30.01	83.0	82.0	82.50	5.81	5.74	5.78
17-May-12	11:05	Cloudy	Surface	1.0	26.20	26.20	26.20	9.88	9.88	9.88	29.06	29.06	29.06	71.1	71.2	71.15	4.88	4.89	4.89
	11:06		Middle	5.0	26.10	26.10	26.10	9.86	9.86	9.86	29.05	29.05	29.05	71.0	70.7	70.85	4.87	4.86	4.87
	11:07		Bottom	9.0	26.10	26.10	26.10	9.85	9.85	9.85	28.85	28.85	28.85	60.4	60.8	60.60	4.16	4.20	4.18
23-May-12	11:46	Cloudy	Surface	1.0	26.50	26.50	26.50	7.23	7.23	7.23	30.49	30.49	30.49	69.0	69.1	69.05	4.67	4.68	4.68
	11:47		Middle	6.0	26.40	26.40	26.40	7.33	7.33	7.33	30.55	30.55	30.55	71.3	71.7	71.50	4.84	4.87	4.86
	11:48		Bottom	11.0	26.30	26.30	26.30	7.32	7.32	7.32	30.48	30.48	30.48	59.4	61.4	60.40	4.04	4.18	4.11

Remarks:  
 Single underline denotes exceedance over Action Level.  
 Double underline denotes exceedance over Limit Level.





**Water Monitoring Result at Station C  
Mid-Ebb Tide**

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m	°C			-			ppt		%		mg/L					
				Value	Average		Value	Average		Value	Average	Value	Average	Value	Average				
04-May-12	11:35	Cloudy	Surface	1.0	25.60	25.60	25.60	8.40	8.40	8.40	26.20	26.20	26.20	108.7	109.5	109.10	7.66	7.72	7.69
	11:38		Middle	7.0	25.50	25.50	25.50	8.38	8.38	8.38	26.85	26.85	26.85	99.5	98.7	99.10	7.00	6.95	6.98
	11:41		Bottom	13.0	25.10	25.10	25.10	8.32	8.32	8.32	27.50	27.50	27.50	90.4	90.0	90.20	6.37	6.34	6.36
09-May-12	15:10	Sunny	Surface	1.0	25.80	25.80	25.80	8.57	8.57	8.57	27.97	27.97	27.97	113.3	112.7	113.00	7.89	7.84	7.87
	15:11		Middle	6.5	25.20	25.20	25.20	8.48	8.48	8.48	28.94	28.94	28.94	96.9	97.6	97.25	6.77	6.83	6.80
	15:12		Bottom	12.0	25.10	25.10	25.10	8.40	8.40	8.40	27.25	27.25	27.25	94.1	95.4	94.75	6.58	6.67	6.63
17-May-12	11:00	Cloudy	Surface	1.0	26.10	26.10	26.10	9.13	9.13	9.13	28.94	28.94	28.94	76.5	78.5	77.50	5.29	5.40	5.35
	11:01		Middle	6.5	26.00	26.00	26.00	9.06	9.06	9.06	29.12	29.12	29.12	71.1	70.7	70.90	4.89	4.87	4.88
	11:02		Bottom	12.0	25.50	25.50	25.50	8.98	8.98	8.98	30.35	30.35	30.35	66.9	66.8	66.85	4.61	4.60	4.61
23-May-12	11:39	Cloudy	Surface	1.0	26.50	26.50	26.50	7.29	7.29	7.29	30.57	30.57	30.57	75.4	75.7	75.55	5.10	5.13	5.12
	11:40		Middle	7.5	26.30	26.30	26.30	7.28	7.28	7.28	30.63	30.63	30.63	78.2	77.7	77.95	5.30	5.27	5.29
	11:41		Bottom	14.0	26.40	26.40	26.40	7.27	7.27	7.27	30.58	30.58	30.58	77.3	77.7	77.50	5.26	5.30	5.28

Remarks:  
 Single underline denotes exceedance over Action Level.  
 Double underline denotes exceedance over Limit Level.



***Appendix 4.4***

***Real-time Noise Monitoring Results and Graphical Presentations***











Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

Table with 13 columns representing time slots and noise levels. The data is organized in a grid-like structure with three main sections of columns, each starting with a date and time stamp followed by a numerical value.







Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

27/3/2012 1:31	60.1
27/3/2012 1:36	59.0
27/3/2012 1:41	59.1
27/3/2012 1:46	59.4
27/3/2012 1:51	59.1
27/3/2012 1:56	59.2
27/3/2012 2:01	58.8
27/3/2012 2:06	58.6
27/3/2012 2:11	60.6
27/3/2012 2:16	58.6
27/3/2012 2:21	58.9
27/3/2012 2:26	58.5
27/3/2012 2:31	59.5
27/3/2012 2:36	59.4
27/3/2012 2:41	61.4
27/3/2012 2:46	63.7
27/3/2012 2:51	67.5
27/3/2012 2:56	69.5
27/3/2012 3:01	70.9
27/3/2012 3:06	64.9
27/3/2012 3:11	57.5
27/3/2012 3:16	57.3
27/3/2012 3:21	57.4
27/3/2012 3:26	57.7
27/3/2012 3:31	57.7
27/3/2012 3:36	58.1
27/3/2012 3:41	57.9
27/3/2012 3:46	57.6
27/3/2012 3:51	57.2
27/3/2012 3:56	57.8
27/3/2012 4:01	57.3
27/3/2012 4:06	57.6
27/3/2012 4:11	57.6
27/3/2012 4:16	57.8
27/3/2012 4:21	58.0
27/3/2012 4:26	57.2
27/3/2012 4:31	57.7
27/3/2012 4:36	57.5
27/3/2012 4:41	57.0
27/3/2012 4:46	58.1
27/3/2012 4:51	57.6
27/3/2012 4:56	57.9
27/3/2012 5:01	57.8
27/3/2012 5:06	57.4
27/3/2012 5:11	57.9
27/3/2012 5:16	58.2
27/3/2012 5:21	58.1
27/3/2012 5:26	58.1
27/3/2012 5:31	58.3
27/3/2012 5:36	59.1
27/3/2012 5:41	59.3
27/3/2012 5:46	59.3
27/3/2012 5:51	59.3
27/3/2012 5:56	58.7
27/3/2012 6:01	60.3
27/3/2012 6:06	60.0
27/3/2012 6:11	60.6
27/3/2012 6:16	60.4
27/3/2012 6:21	60.8
27/3/2012 6:26	61.7
27/3/2012 6:31	61.9
27/3/2012 6:36	62.3
27/3/2012 6:41	62.6
27/3/2012 6:46	62.5
27/3/2012 6:51	62.9
27/3/2012 6:56	63.3
27/3/2012 23:01	63.0
27/3/2012 23:06	63.0
27/3/2012 23:11	62.8
27/3/2012 23:16	62.9
27/3/2012 23:21	63.1
27/3/2012 23:26	62.8
27/3/2012 23:31	63.0
27/3/2012 23:36	62.8
27/3/2012 23:41	62.4
27/3/2012 23:46	62.7
27/3/2012 23:51	62.4
27/3/2012 23:56	62.3

\*Exceedance recorded during monitoring compliance check with NCO



















Real-time Noise Data      RTN2 (Oil Street Community Liaison Centre)

27/3/2012 1:31	57.1
27/3/2012 1:36	56.4
27/3/2012 1:41	58.9
27/3/2012 1:46	57.9
27/3/2012 1:51	57.0
27/3/2012 1:56	57.9
27/3/2012 2:01	57.2
27/3/2012 2:06	56.4
27/3/2012 2:11	56.3
27/3/2012 2:16	56.8
27/3/2012 2:21	55.6
27/3/2012 2:26	56.7
27/3/2012 2:31	56.3
27/3/2012 2:36	56.1
27/3/2012 2:41	56.0
27/3/2012 2:46	55.7
27/3/2012 2:51	55.5
27/3/2012 2:56	55.4
27/3/2012 3:01	55.7
27/3/2012 3:06	55.6
27/3/2012 3:11	56.9
27/3/2012 3:16	56.6
27/3/2012 3:21	55.2
27/3/2012 3:26	56.0
27/3/2012 3:31	55.9
27/3/2012 3:36	55.6
27/3/2012 3:41	54.6
27/3/2012 3:46	55.4
27/3/2012 3:51	55.2
27/3/2012 3:56	55.0
27/3/2012 4:01	55.9
27/3/2012 4:06	56.0
27/3/2012 4:11	55.4
27/3/2012 4:16	55.5
27/3/2012 4:21	55.9
27/3/2012 4:26	55.2
27/3/2012 4:31	54.5
27/3/2012 4:36	54.0
27/3/2012 4:41	54.4
27/3/2012 4:46	57.5
27/3/2012 4:51	56.0
27/3/2012 4:56	56.4
27/3/2012 5:01	55.9
27/3/2012 5:06	55.8
27/3/2012 5:11	54.4
27/3/2012 5:16	56.1
27/3/2012 5:21	56.2
27/3/2012 5:26	56.6
27/3/2012 5:31	57.1
27/3/2012 5:36	61.1
27/3/2012 5:41	58.7
27/3/2012 5:46	60.8
27/3/2012 5:51	57.8
27/3/2012 5:56	57.7
27/3/2012 6:01	58.3
27/3/2012 6:06	58.5
27/3/2012 6:11	59.6
27/3/2012 6:16	61.0
27/3/2012 6:21	60.8
27/3/2012 6:26	60.5
27/3/2012 6:31	61.5
27/3/2012 6:36	61.1
27/3/2012 6:41	61.8
27/3/2012 6:46	63.6
27/3/2012 6:51	62.6
27/3/2012 6:56	63.5
27/3/2012 23:01	61.2
27/3/2012 23:06	60.9
27/3/2012 23:11	62.2
27/3/2012 23:16	60.6
27/3/2012 23:21	60.2
27/3/2012 23:26	61.0
27/3/2012 23:31	59.9
27/3/2012 23:36	60.6
27/3/2012 23:41	60.5
27/3/2012 23:46	60.9
27/3/2012 23:51	59.9
27/3/2012 23:56	59.5

\*Exceedance recorded during monitoring compliance check with NCO.



















Table with 4 columns: Date/Time (e.g., 18/4/2012 5:31), Noise Level (e.g., 59.4), Date/Time (e.g., 19/4/2012 6:41), and Noise Level (e.g., 64.2). Rows range from 18/4/2012 5:31 to 19/4/2012 6:36.

Table with 4 columns: Date/Time (e.g., 22/4/2012 1:01), Noise Level (e.g., 62.4), Date/Time (e.g., 23/4/2012 2:11), and Noise Level (e.g., 60.1). Rows range from 22/4/2012 1:01 to 24/4/2012 3:21.

Table with 4 columns: Date/Time (e.g., 23/4/2012 2:11), Noise Level (e.g., 60.1), Date/Time (e.g., 24/4/2012 3:21), and Noise Level (e.g., 59.0). Rows range from 23/4/2012 2:11 to 25/4/2012 4:26.

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

25/4/2012 4:31	58.7	26/4/2012 5:41	59.2	27/4/2012 6:51	62.4
25/4/2012 4:36	59.2	26/4/2012 5:46	61.5	27/4/2012 6:56	63.3
25/4/2012 4:41	59.7	26/4/2012 5:51	60.0	27/4/2012 23:01	63.1
25/4/2012 4:46	58.3	26/4/2012 5:56	59.8	27/4/2012 23:06	63.9
25/4/2012 4:51	59.5	26/4/2012 6:01	61.6	27/4/2012 23:11	63.1
25/4/2012 4:56	59.6	26/4/2012 6:06	59.8	27/4/2012 23:16	64.8
25/4/2012 5:01	59.7	26/4/2012 6:11	62.9	27/4/2012 23:21	63.8
25/4/2012 5:06	57.9	26/4/2012 6:16	61.0	27/4/2012 23:26	63.7
25/4/2012 5:11	58.7	26/4/2012 6:21	62.0	27/4/2012 23:31	63.9
25/4/2012 5:16	59.2	26/4/2012 6:26	62.4	27/4/2012 23:36	63.2
25/4/2012 5:21	58.2	26/4/2012 6:31	63.3	27/4/2012 23:41	63.2
25/4/2012 5:26	60.3	26/4/2012 6:36	62.1	27/4/2012 23:46	63.0
25/4/2012 5:31	59.5	26/4/2012 6:41	63.8	27/4/2012 23:51	63.2
25/4/2012 5:36	60.8	26/4/2012 6:46	63.9	27/4/2012 23:56	63.2
25/4/2012 5:41	61.0	26/4/2012 6:51	65.1		
25/4/2012 5:46	60.0	26/4/2012 6:56	63.4		
25/4/2012 5:51	60.4	26/4/2012 23:01	64.8		
25/4/2012 5:56	60.1	26/4/2012 23:06	63.1		
25/4/2012 6:01	61.5	26/4/2012 23:11	65.0		
25/4/2012 6:06	60.8	26/4/2012 23:16	63.4		
25/4/2012 6:11	61.1	26/4/2012 23:21	65.4		
25/4/2012 6:16	60.9	26/4/2012 23:26	64.4		
25/4/2012 6:21	61.0	26/4/2012 23:31	64.9		
25/4/2012 6:26	62.0	26/4/2012 23:36	64.6		
25/4/2012 6:31	62.1	26/4/2012 23:41	63.1		
25/4/2012 6:36	63.0	26/4/2012 23:46	63.9		
25/4/2012 6:41	62.4	26/4/2012 23:51	63.3		
25/4/2012 6:46	62.3	26/4/2012 23:56	64.0		
25/4/2012 6:51	62.1	27/4/2012 0:01	60.4		
25/4/2012 6:56	62.3	27/4/2012 0:06	60.8		
25/4/2012 23:01	62.9	27/4/2012 0:11	60.0		
25/4/2012 23:06	63.6	27/4/2012 0:16	59.9		
25/4/2012 23:11	63.4	27/4/2012 0:21	60.4		
25/4/2012 23:16	63.9	27/4/2012 0:26	60.3		
25/4/2012 23:21	63.9	27/4/2012 0:31	60.1		
25/4/2012 23:26	63.8	27/4/2012 0:36	59.8		
25/4/2012 23:31	65.3	27/4/2012 0:41	60.3		
25/4/2012 23:36	63.8	27/4/2012 0:46	59.4		
25/4/2012 23:41	62.8	27/4/2012 0:51	59.4		
25/4/2012 23:46	62.8	27/4/2012 0:56	60.1		
25/4/2012 23:51	62.3	27/4/2012 1:01	58.6		
25/4/2012 23:56	63.7	27/4/2012 1:06	59.4		
26/4/2012 0:01	63.6	27/4/2012 1:11	58.4		
26/4/2012 0:06	61.5	27/4/2012 1:16	58.6		
26/4/2012 0:11	62.6	27/4/2012 1:21	58.5		
26/4/2012 0:16	60.5	27/4/2012 1:26	58.0		
26/4/2012 0:21	62.8	27/4/2012 1:31	57.8		
26/4/2012 0:26	62.9	27/4/2012 1:36	57.6		
26/4/2012 0:31	61.1	27/4/2012 1:41	58.5		
26/4/2012 0:36	61.8	27/4/2012 1:46	58.0		
26/4/2012 0:41	62.0	27/4/2012 1:51	57.8		
26/4/2012 0:46	61.5	27/4/2012 1:56	57.9		
26/4/2012 0:51	61.2	27/4/2012 2:01	58.2		
26/4/2012 0:56	61.3	27/4/2012 2:06	57.5		
26/4/2012 1:01	60.6	27/4/2012 2:11	57.1		
26/4/2012 1:06	60.4	27/4/2012 2:16	57.4		
26/4/2012 1:11	60.8	27/4/2012 2:21	57.8		
26/4/2012 1:16	60.9	27/4/2012 2:26	56.9		
26/4/2012 1:21	59.9	27/4/2012 2:31	58.4		
26/4/2012 1:26	58.4	27/4/2012 2:36	57.0		
26/4/2012 1:31	60.1	27/4/2012 2:41	57.2		
26/4/2012 1:36	62.0	27/4/2012 2:46	57.1		
26/4/2012 1:41	59.1	27/4/2012 2:51	57.1		
26/4/2012 1:46	59.7	27/4/2012 2:56	56.8		
26/4/2012 1:51	58.6	27/4/2012 3:01	57.2		
26/4/2012 1:56	57.9	27/4/2012 3:06	58.0		
26/4/2012 2:01	61.1	27/4/2012 3:11	56.5		
26/4/2012 2:06	60.2	27/4/2012 3:16	56.7		
26/4/2012 2:11	59.5	27/4/2012 3:21	56.4		
26/4/2012 2:16	60.2	27/4/2012 3:26	56.9		
26/4/2012 2:21	59.8	27/4/2012 3:31	57.1		
26/4/2012 2:26	59.4	27/4/2012 3:36	57.4		
26/4/2012 2:31	60.7	27/4/2012 3:41	57.2		
26/4/2012 2:36	58.7	27/4/2012 3:46	57.2		
26/4/2012 2:41	58.0	27/4/2012 3:51	57.2		
26/4/2012 2:46	59.5	27/4/2012 3:56	57.2		
26/4/2012 2:51	59.2	27/4/2012 4:01	56.7		
26/4/2012 2:56	59.3	27/4/2012 4:06	56.4		
26/4/2012 3:01	59.2	27/4/2012 4:11	57.1		
26/4/2012 3:06	58.5	27/4/2012 4:16	56.4		
26/4/2012 3:11	59.5	27/4/2012 4:21	57.2		
26/4/2012 3:16	60.4	27/4/2012 4:26	56.6		
26/4/2012 3:21	58.3	27/4/2012 4:31	57.6		
26/4/2012 3:26	57.5	27/4/2012 4:36	57.2		
26/4/2012 3:31	59.5	27/4/2012 4:41	57.7		
26/4/2012 3:36	57.6	27/4/2012 4:46	57.0		
26/4/2012 3:41	58.7	27/4/2012 4:51	57.8		
26/4/2012 3:46	59.3	27/4/2012 4:56	57.4		
26/4/2012 3:51	57.1	27/4/2012 5:01	58.6		
26/4/2012 3:56	58.0	27/4/2012 5:06	58.6		
26/4/2012 4:01	57.2	27/4/2012 5:11	58.3		
26/4/2012 4:06	57.4	27/4/2012 5:16	58.1		
26/4/2012 4:11	58.5	27/4/2012 5:21	57.6		
26/4/2012 4:16	58.3	27/4/2012 5:26	59.3		
26/4/2012 4:21	58.0	27/4/2012 5:31	57.9		
26/4/2012 4:26	56.6	27/4/2012 5:36	59.2		
26/4/2012 4:31	58.2	27/4/2012 5:41	58.9		
26/4/2012 4:36	57.7	27/4/2012 5:46	58.2		
26/4/2012 4:41	56.1	27/4/2012 5:51	59.3		
26/4/2012 4:46	57.9	27/4/2012 5:56	58.9		
26/4/2012 4:51	59.9	27/4/2012 6:01	59.5		
26/4/2012 4:56	57.4	27/4/2012 6:06	59.6		
26/4/2012 5:01	58.2	27/4/2012 6:11	60.1		
26/4/2012 5:06	58.4	27/4/2012 6:16	60.4		
26/4/2012 5:11	58.4	27/4/2012 6:21	61.7		
26/4/2012 5:16	58.8	27/4/2012 6:26	61.2		
26/4/2012 5:21	59.8	27/4/2012 6:31	61.7		
26/4/2012 5:26	58.6	27/4/2012 6:36	62.3		
26/4/2012 5:31	58.8	27/4/2012 6:41	62.3		
26/4/2012 5:36	60.1	27/4/2012 6:46	62.1		

\*Exceedance recorded during monitoring compliance check with NCO













Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

Table with 6 columns containing noise measurement data. The columns list dates and times, followed by noise level readings (e.g., 66.2, 64.7, 65.4, etc.). The data spans from 27/4/2012 17:56 to 29/3/2012 22:46, covering various times of day.











Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

3/4/2012 5:31	57.1	4/4/2012 6:41	60.7	5/4/2012 23:51	60.8	7/4/2012 1:01	58.9	8/4/2012 2:11	57.2	9/4/2012 3:21	56.1
3/4/2012 5:36	56.7	4/4/2012 6:46	60.7	5/4/2012 23:56	58.8	7/4/2012 1:06	57.7	8/4/2012 2:16	57.5	9/4/2012 3:26	55.3
3/4/2012 5:41	56.1	4/4/2012 6:51	63.8	6/4/2012 0:01	59.1	7/4/2012 1:11	58.8	8/4/2012 2:21	60.1	9/4/2012 3:31	56.9
3/4/2012 5:46	56.9	4/4/2012 6:56	60.7	6/4/2012 0:06	58.6	7/4/2012 1:16	59.8	8/4/2012 2:26	56.7	9/4/2012 3:36	55.1
3/4/2012 5:51	56.9	4/4/2012 23:01	61.7	6/4/2012 0:11	60.2	7/4/2012 1:21	57.2	8/4/2012 2:31	55.4	9/4/2012 3:41	55.0
3/4/2012 5:56	57.4	4/4/2012 23:06	62.2	6/4/2012 0:16	59.5	7/4/2012 1:26	58.6	8/4/2012 2:36	56.5	9/4/2012 3:46	55.0
3/4/2012 6:01	57.3	4/4/2012 23:11	61.5	6/4/2012 0:21	59.7	7/4/2012 1:31	58.9	8/4/2012 2:41	56.3	9/4/2012 3:51	57.2
3/4/2012 6:06	55.9	4/4/2012 23:16	62.6	6/4/2012 0:26	60.7	7/4/2012 1:36	57.0	8/4/2012 2:46	55.0	9/4/2012 3:56	55.2
3/4/2012 6:11	57.7	4/4/2012 23:21	62.4	6/4/2012 0:31	60.0	7/4/2012 1:41	55.8	8/4/2012 2:51	56.0	9/4/2012 4:01	55.8
3/4/2012 6:16	56.8	4/4/2012 23:26	61.1	6/4/2012 0:36	59.6	7/4/2012 1:46	57.9	8/4/2012 2:56	55.9	9/4/2012 4:06	57.4
3/4/2012 6:21	57.0	4/4/2012 23:31	61.2	6/4/2012 0:41	60.1	7/4/2012 1:51	56.2	8/4/2012 3:01	55.0	9/4/2012 4:11	54.1
3/4/2012 6:26	56.9	4/4/2012 23:36	61.4	6/4/2012 0:46	58.6	7/4/2012 1:56	56.8	8/4/2012 3:06	58.3	9/4/2012 4:16	54.6
3/4/2012 6:31	57.2	4/4/2012 23:41	61.8	6/4/2012 0:51	58.0	7/4/2012 2:01	57.6	8/4/2012 3:11	54.8	9/4/2012 4:21	56.1
3/4/2012 6:36	57.6	4/4/2012 23:46	61.5	6/4/2012 0:56	58.4	7/4/2012 2:06	56.2	8/4/2012 3:16	56.0	9/4/2012 4:26	56.5
3/4/2012 6:41	56.5	4/4/2012 23:51	61.6	6/4/2012 1:01	59.7	7/4/2012 2:11	56.2	8/4/2012 3:21	56.8	9/4/2012 4:31	54.8
3/4/2012 6:46	57.3	4/4/2012 23:56	61.9	6/4/2012 1:06	57.8	7/4/2012 2:16	55.7	8/4/2012 3:26	57.0	9/4/2012 4:36	54.6
3/4/2012 6:51	59.0	5/4/2012 0:01	60.7	6/4/2012 1:11	58.8	7/4/2012 2:21	58.9	8/4/2012 3:31	56.2	9/4/2012 4:41	56.1
3/4/2012 6:56	58.2	5/4/2012 0:06	60.7	6/4/2012 1:16	58.8	7/4/2012 2:26	56.1	8/4/2012 3:36	56.3	9/4/2012 4:46	54.8
3/4/2012 23:01	61.0	5/4/2012 0:11	60.2	6/4/2012 1:21	58.1	7/4/2012 2:31	56.4	8/4/2012 3:41	54.9	9/4/2012 4:51	55.8
3/4/2012 23:06	61.2	5/4/2012 0:16	60.3	6/4/2012 1:26	58.0	7/4/2012 2:36	55.9	8/4/2012 3:46	55.3	9/4/2012 4:56	55.5
3/4/2012 23:11	60.8	5/4/2012 0:21	60.4	6/4/2012 1:31	58.2	7/4/2012 2:41	56.1	8/4/2012 3:51	57.4	9/4/2012 5:01	56.1
3/4/2012 23:16	61.3	5/4/2012 0:26	59.8	6/4/2012 1:36	57.6	7/4/2012 2:46	55.4	8/4/2012 3:56	56.1	9/4/2012 5:06	56.5
3/4/2012 23:21	61.5	5/4/2012 0:31	59.9	6/4/2012 1:41	58.1	7/4/2012 2:51	54.2	8/4/2012 4:01	53.8	9/4/2012 5:11	56.7
3/4/2012 23:26	61.8	5/4/2012 0:36	59.8	6/4/2012 1:46	57.6	7/4/2012 2:56	56.3	8/4/2012 4:06	55.7	9/4/2012 5:16	56.5
3/4/2012 23:31	61.0	5/4/2012 0:41	60.9	6/4/2012 1:51	56.4	7/4/2012 3:01	54.4	8/4/2012 4:11	56.2	9/4/2012 5:21	55.3
3/4/2012 23:36	60.9	5/4/2012 0:46	58.9	6/4/2012 1:56	57.7	7/4/2012 3:06	57.1	8/4/2012 4:16	54.7	9/4/2012 5:26	58.8
3/4/2012 23:41	60.9	5/4/2012 0:51	60.4	6/4/2012 2:01	57.7	7/4/2012 3:11	56.9	8/4/2012 4:21	54.5	9/4/2012 5:31	57.2
3/4/2012 23:46	60.8	5/4/2012 0:56	59.3	6/4/2012 2:06	56.9	7/4/2012 3:16	56.1	8/4/2012 4:26	55.6	9/4/2012 5:36	56.4
3/4/2012 23:51	60.4	5/4/2012 1:01	60.9	6/4/2012 2:11	56.5	7/4/2012 3:21	56.3	8/4/2012 4:31	54.1	9/4/2012 5:41	55.3
3/4/2012 23:56	60.5	5/4/2012 1:06	59.0	6/4/2012 2:16	56.4	7/4/2012 3:26	56.2	8/4/2012 4:36	54.9	9/4/2012 5:46	56.9
4/4/2012 0:01	60.8	5/4/2012 1:11	59.2	6/4/2012 2:21	57.5	7/4/2012 3:31	55.2	8/4/2012 4:41	55.3	9/4/2012 5:51	57.3
4/4/2012 0:06	60.4	5/4/2012 1:16	59.2	6/4/2012 2:26	56.6	7/4/2012 3:36	55.3	8/4/2012 4:46	55.4	9/4/2012 5:56	58.6
4/4/2012 0:11	60.7	5/4/2012 1:21	58.6	6/4/2012 2:31	56.8	7/4/2012 3:41	54.7	8/4/2012 4:51	56.2	9/4/2012 6:01	57.6
4/4/2012 0:16	60.9	5/4/2012 1:26	58.8	6/4/2012 2:36	54.8	7/4/2012 3:46	55.4	8/4/2012 4:56	54.8	9/4/2012 6:06	58.1
4/4/2012 0:21	61.0	5/4/2012 1:31	59.3	6/4/2012 2:41	56.7	7/4/2012 3:51	56.0	8/4/2012 5:01	55.8	9/4/2012 6:11	57.9
4/4/2012 0:26	60.5	5/4/2012 1:36	58.5	6/4/2012 2:46	56.1	7/4/2012 3:56	56.9	8/4/2012 5:06	57.3	9/4/2012 6:16	58.2
4/4/2012 0:31	60.0	5/4/2012 1:41	59.6	6/4/2012 2:51	55.9	7/4/2012 4:01	55.5	8/4/2012 5:11	56.8	9/4/2012 6:21	59.5
4/4/2012 0:36	60.0	5/4/2012 1:46	59.6	6/4/2012 2:56	55.4	7/4/2012 4:06	56.8	8/4/2012 5:16	56.8	9/4/2012 6:26	60.1
4/4/2012 0:41	60.2	5/4/2012 1:51	58.3	6/4/2012 3:01	55.0	7/4/2012 4:11	54.9	8/4/2012 5:21	55.0	9/4/2012 6:31	59.8
4/4/2012 0:46	59.2	5/4/2012 1:56	59.1	6/4/2012 3:06	57.9	7/4/2012 4:16	54.3	8/4/2012 5:26	57.4	9/4/2012 6:36	62.1
4/4/2012 0:51	59.4	5/4/2012 2:01	58.6	6/4/2012 3:11	55.5	7/4/2012 4:21	57.1	8/4/2012 5:31	54.3	9/4/2012 6:41	58.3
4/4/2012 0:56	60.1	5/4/2012 2:06	57.8	6/4/2012 3:16	56.3	7/4/2012 4:26	55.2	8/4/2012 5:36	57.1	9/4/2012 6:46	60.8
4/4/2012 1:01	59.9	5/4/2012 2:11	58.0	6/4/2012 3:21	54.9	7/4/2012 4:31	55.4	8/4/2012 5:41	57.6	9/4/2012 6:51	60.8
4/4/2012 1:06	59.8	5/4/2012 2:16	57.7	6/4/2012 3:26	56.8	7/4/2012 4:36	54.5	8/4/2012 5:46	58.4	9/4/2012 6:56	59.5
4/4/2012 1:11	59.5	5/4/2012 2:21	58.0	6/4/2012 3:31	55.9	7/4/2012 4:41	54.6	8/4/2012 5:51	58.6	9/4/2012 23:01	60.4
4/4/2012 1:16	58.8	5/4/2012 2:26	58.6	6/4/2012 3:36	55.5	7/4/2012 4:46	55.8	8/4/2012 5:56	58.4	9/4/2012 23:06	60.8
4/4/2012 1:21	60.0	5/4/2012 2:31	58.2	6/4/2012 3:41	56.0	7/4/2012 4:51	57.2	8/4/2012 6:01	58.4	9/4/2012 23:11	61.0
4/4/2012 1:26	59.8	5/4/2012 2:36	57.7	6/4/2012 3:46	55.7	7/4/2012 4:56	55.2	8/4/2012 6:06	57.6	9/4/2012 23:16	60.8
4/4/2012 1:31	58.9	5/4/2012 2:41	57.0	6/4/2012 3:51	57.3	7/4/2012 5:01	55.6	8/4/2012 6:11	57.9	9/4/2012 23:21	59.6
4/4/2012 1:36	58.4	5/4/2012 2:46	57.5	6/4/2012 3:56	55.3	7/4/2012 5:06	55.0	8/4/2012 6:16	58.6	9/4/2012 23:26	58.8
4/4/2012 1:41	58.1	5/4/2012 2:51	56.6	6/4/2012 4:01	56.6	7/4/2012 5:11	54.4	8/4/2012 6:21	57.6	9/4/2012 23:31	61.6
4/4/2012 1:46	58.5	5/4/2012 2:56	56.9	6/4/2012 4:06	55.7	7/4/2012 5:16	57.3	8/4/2012 6:26	58.5	9/4/2012 23:36	60.8
4/4/2012 1:51	58.9	5/4/2012 3:01	56.3	6/4/2012 4:11	55.1	7/4/2012 5:21	55.6	8/4/2012 6:31	59.2	9/4/2012 23:41	58.3
4/4/2012 1:56	58.6	5/4/2012 3:06	57.5	6/4/2012 4:16	55.2	7/4/2012 5:26	57.4	8/4/2012 6:36	61.1	9/4/2012 23:46	59.8
4/4/2012 2:01	57.8	5/4/2012 3:11	57.3	6/4/2012 4:21	56.9	7/4/2012 5:31	57.0	8/4/2012 6:41	59.3	9/4/2012 23:51	61.6
4/4/2012 2:06	57.8	5/4/2012 3:16	56.9	6/4/2012 4:26	55.8	7/4/2012 5:36	58.3	8/4/2012 6:46	59.9	9/4/2012 23:56	59.4
4/4/2012 2:11	57.8	5/4/2012 3:21	56.3	6/4/2012 4:31	54.1	7/4/2012 5:41	57.1	8/4/2012 6:51	59.9	10/4/2012 0:01	62.2
4/4/2012 2:16	58.3	5/4/2012 3:26	57.1	6/4/2012 4:36	55.1	7/4/2012 5:46	57.0	8/4/2012 6:56	60.8	10/4/2012 0:06	61.6
4/4/2012 2:21	58.1	5/4/2012 3:31	58.5	6/4/2012 4:41	55.1	7/4/2012 5:51	57.8	8/4/2012 23:01	60.0	10/4/2012 0:11	60.5
4/4/2012 2:26	58.1	5/4/2012 3:36	57.2	6/4/2012 4:46	55.0	7/4/2012 5:56	59.4	8/4/2012 23:06	59.2	10/4/2012 0:16	61.3
4/4/2012 2:31	58.7	5/4/2012 3:41	59.2	6/4/2012 4:51	55.8	7/4/2012 6:01	57.8	8/4/2012 23:11	60.8	10/4/2012 0:21	60.2
4/4/2012 2:36	57.8	5/4/2012 3:46	57.9	6/4/2012 4:56	55.5	7/4/2012 6:06	57.2	8/4/2012 23:16	61.0	10/4/2012 0:26	59.9
4/4/2012 2:41	58.3	5/4/2012 3:51	56.4	6/4/2012 5:01	55.4	7/4/2012 6:11	58.6	8/4/2012 23:21	61.6	10/4/2012 0:31	59.3
4/4/2012 2:46	58.1	5/4/2012 3:56	56.7	6/4/2012 5:06	56.9	7/4/2012 6:16	60.6	8/4/2012 23:26	59.7	10/4/2012 0:36	59.9
4/4/2012 2:51	57.4	5/4/2012 4:01	57.1	6/4/2012 5:11	55.9	7/4/2012 6:21	59.7	8/4/2012 23:31	59.9	10/4/2012 0:41	59.2
4/4/2012 2:56	57.5	5/4/2012 4:06	56.3	6/4/2012 5:16	57.8	7/4/2012 6:26	58.8	8/4/2012 23:36	59.8	10/4/2012 0:46	59.2
4/4/2012 3:01	57.8	5/4/2012 4:11	56.6	6/4/2012 5:21	55.6	7/4/2012 6:31	59.4	8/4/2012 23:41	58.7	10/4/2012 0:51	59.9
4/4/2012 3:06	57.6	5/4/2012 4:16	57.2	6/4/2012 5:26	59.2	7/4/2012 6:36	61.1	8/4/2012 23:46	61.2	10/4/2012 0:56	59.5
4/4/2012 3:11	57.6	5/4/2012 4:21	57.0	6/4/2012 5:31	56.3	7/4/2012 6:41	60.1	8/4/2012 23:51	60.0	10/4/2012 1:01	59.4
4/4/2012 3:16	57.8	5/4/2012 4:26	57.0	6/4/2012 5:36	56.6	7/4/2012 6:46	60.2	8/4/2012 23:56	60.4	10/4/2012 1:06	59.0
4/4/2012 3:21	57.2	5/4/2012 4:31	57.2	6/4/2012 5:41	57.7	7/4/2012 6:51	59.7	9/4/2012 0:01	59.9	10/4/2012 1:11	59.4
4/4/2012 3:26	57.6	5/4/2012 4:36	57.5	6/4/2012 5:46	58.1	7/4/2012 6:56	59.9	9/4/2012 0:06	59.8	10/4/2012 1:16	58.7
4/4/2012 3:31	58.0	5/4/2012 4:41	57.8	6/4/2012 5:51	57.0	7/4/2012 23:01	60.8	9/4/2012 0:11	60.5	10/4/2012 1:21	59.4
4/4/2012 3:36	57.6	5/4/2012									

## Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

10/4/2012 4:31	56.4	11/4/2012 5:41	59.0	12/4/2012 6:51	62.5	14/4/2012 0:01	61.4	15/4/2012 1:11	59.6	16/4/2012 2:21	58.3
10/4/2012 4:36	56.1	11/4/2012 5:46	59.2	12/4/2012 6:56	62.5	14/4/2012 0:06	61.3	15/4/2012 1:16	60.2	16/4/2012 2:26	62.9
10/4/2012 4:41	57.7	11/4/2012 5:51	60.9	12/4/2012 23:01	61.0	14/4/2012 0:11	61.2	15/4/2012 1:21	58.7	16/4/2012 2:31	59.0
10/4/2012 4:46	56.4	11/4/2012 5:56	56.1	12/4/2012 23:06	58.9	14/4/2012 0:16	60.5	15/4/2012 1:26	59.3	16/4/2012 2:36	58.6
10/4/2012 4:51	57.8	11/4/2012 6:01	57.7	12/4/2012 23:11	61.9	14/4/2012 0:21	61.5	15/4/2012 1:31	58.6	16/4/2012 2:41	58.6
10/4/2012 4:56	57.2	11/4/2012 6:06	56.4	12/4/2012 23:16	60.2	14/4/2012 0:26	61.4	15/4/2012 1:36	59.2	16/4/2012 2:46	57.5
10/4/2012 5:01	56.8	11/4/2012 6:11	57.8	12/4/2012 23:21	60.3	14/4/2012 0:31	61.0	15/4/2012 1:41	59.1	16/4/2012 2:51	57.7
10/4/2012 5:06	58.0	11/4/2012 6:16	60.6	12/4/2012 23:26	60.7	14/4/2012 0:36	60.5	15/4/2012 1:46	58.0	16/4/2012 2:56	57.6
10/4/2012 5:11	56.5	11/4/2012 6:21	61.1	12/4/2012 23:31	61.3	14/4/2012 0:41	60.2	15/4/2012 1:51	57.8	16/4/2012 3:01	58.2
10/4/2012 5:16	58.3	11/4/2012 6:26	63.4	12/4/2012 23:36	60.1	14/4/2012 0:46	60.9	15/4/2012 1:56	57.1	16/4/2012 3:06	57.9
10/4/2012 5:21	57.4	11/4/2012 6:31	61.9	12/4/2012 23:41	60.2	14/4/2012 0:51	59.9	15/4/2012 2:01	57.6	16/4/2012 3:11	57.6
10/4/2012 5:26	56.1	11/4/2012 6:36	63.0	12/4/2012 23:46	61.9	14/4/2012 0:56	59.6	15/4/2012 2:06	56.3	16/4/2012 3:16	57.2
10/4/2012 5:31	57.7	11/4/2012 6:41	63.5	12/4/2012 23:51	61.2	14/4/2012 1:01	59.9	15/4/2012 2:11	57.1	16/4/2012 3:21	58.4
10/4/2012 5:36	56.1	11/4/2012 6:46	63.0	12/4/2012 23:56	60.8	14/4/2012 1:06	59.7	15/4/2012 2:16	57.1	16/4/2012 3:26	57.0
10/4/2012 5:41	57.7	11/4/2012 6:51	62.3	13/4/2012 0:01	61.3	14/4/2012 1:11	60.3	15/4/2012 2:21	58.2	16/4/2012 3:31	57.1
10/4/2012 5:46	56.4	11/4/2012 6:56	63.7	13/4/2012 0:06	59.7	14/4/2012 1:16	60.2	15/4/2012 2:26	57.5	16/4/2012 3:36	58.6
10/4/2012 5:51	57.8	11/4/2012 23:01	60.8	13/4/2012 0:11	59.5	14/4/2012 1:21	59.9	15/4/2012 2:31	56.9	16/4/2012 3:41	57.1
10/4/2012 5:56	58.5	11/4/2012 23:06	61.1	13/4/2012 0:16	61.9	14/4/2012 1:26	59.4	15/4/2012 2:36	56.1	16/4/2012 3:46	57.1
10/4/2012 6:01	59.5	11/4/2012 23:11	60.9	13/4/2012 0:21	58.8	14/4/2012 1:31	59.5	15/4/2012 2:41	56.3	16/4/2012 3:51	58.6
10/4/2012 6:06	61.0	11/4/2012 23:16	60.3	13/4/2012 0:26	60.0	14/4/2012 1:36	59.3	15/4/2012 2:46	57.5	16/4/2012 3:56	56.9
10/4/2012 6:11	59.2	11/4/2012 23:21	61.1	13/4/2012 0:31	60.3	14/4/2012 1:41	58.9	15/4/2012 2:51	56.8	16/4/2012 4:01	64.5
10/4/2012 6:16	59.5	11/4/2012 23:26	60.9	13/4/2012 0:36	58.9	14/4/2012 1:46	59.0	15/4/2012 2:56	57.6	16/4/2012 4:06	57.6
10/4/2012 6:21	61.9	11/4/2012 23:31	61.3	13/4/2012 0:41	59.2	14/4/2012 1:51	59.0	15/4/2012 3:01	56.1	16/4/2012 4:11	58.7
10/4/2012 6:26	59.1	11/4/2012 23:36	61.0	13/4/2012 0:46	60.3	14/4/2012 1:56	59.1	15/4/2012 3:06	55.7	16/4/2012 4:16	57.9
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17/4/2012 23:51	61.9	19/4/2012 1:01	58.4	20/4/2012 2:11	55.5	21/4/2012 3:21	55.0	22/4/2012 4:31	54.1	23/4/2012 5:41	57.1
17/4/2012 23:56	61.2	19/4/2012 1:06	58.6	20/4/2012 2:16	57.0	21/4/2012 3:26	53.1	22/4/2012 4:36	55.1	23/4/2012 5:46	57.0
18/4/2012 0:01	61.8	19/4/2012 1:11	59.4	20/4/2012 2:21	57.8	21/4/2012 3:31	56.4	22/4/2012 4:41	55.1	23/4/2012 5:51	57.8
18/4/2012 0:06	61.9	19/4/2012 1:16	58.6	20/4/2012 2:26	57.4	21/4/2012 3:36	57.5	22/4/2012 4:46	55.0	23/4/2012 5:56	59.4
18/4/2012 0:11	61.7	19/4/2012 1:21	58.7	20/4/2012 2:31	55.5	21/4/2012 3:41	56.3	22/4/2012 4:51	55.8	23/4/2012 6:01	57.8
18/4/2012 0:16	61.6	19/4/2012 1:26	58.1	20/4/2012 2:36	56.8	21/4/2012 3:46	54.6	22/4/2012 4:56	55.5	23/4/2012 6:06	57.2
18/4/2012 0:21	61.3	19/4/2012 1:31	57.7	20/4/2012 2:41	55.2	21/4/2012 3:51	58.0	22/4/2012 5:01	55.4	23/4/2012 6:11	58.6
18/4/2012 0:26	61.2	19/4/2012 1:36	58.7	20/4/2012 2:46	55.8	21/4/2012 3:56	57.3	22/4/2012 5:06	56.9	23/4/2012 6:16	60.6
18/4/2012 0:31	60.9	19/4/2012 1:41	59.0	20/4/2012 2:51	54.8	21/4/2012 4:01	56.5	22/4/2012 5:11	55.9	23/4/2012 6:21	59.7
18/4/2012 0:36	60.8	19/4/2012 1:46	57.8	20/4/2012 2:56	55.8	21/4/2012 4:06	56.1	22/4/2012 5:16	57.8	23/4/2012 6:26	58.8
18/4/2012 0:41	59.7	19/4/2012 1:51	57.6	20/4/2012 3:01	55.5	21/4/2012 4:11	55.8	22/4/2012 5:21	55.6	23/4/2012 6:31	59.4
18/4/2012 0:46	60.0	19/4/2012 1:56	57.6	20/4/2012 3:06	57.1	21/4/2012 4:16	53.8	22/4/2012 5:26	59.2	23/4/2012 6:36	61.1
18/4/2012 0:51	60.0	19/4/2012 2:01	57.3	20/4/2012 3:11	56.1	21/4/2012 4:21	56.3	22/4/2012 5:31	56.3	23/4/2012 6:41	60.1
18/4/2012 0:56	59.6	19/4/2012 2:06	57.0	20/4/2012 3:16	55.7	21/4/2012 4:26	55.7	22/4/2012 5:36	56.6	23/4/2012 6:46	60.2
18/4/2012 1:01	58.7	19/4/2012 2:11	57.4	20/4/2012 3:21	55.6	21/4/2012 4:31	56.4	22/4/2012 5:41	57.7	23/4/2012 6:51	59.7
18/4/2012 1:06	58.5	19/4/2012 2:16	56.2	20/4/2012 3:26	57.0	21/4/2012 4:36	55.7	22/4/2012 5:46	58.1	23/4/2012 6:56	59.9
18/4/2012 1:11	59.0	19/4/2012 2:21	58.1	20/4/2012 3:31	54.6	21/4/2012 4:41	54.7	22/4/2012 5:51	57.0	23/4/2012 23:01	60.8
18/4/2012 1:16	58.9	19/4/2012 2:26	57.0	20/4/2012 3:36	56.8	21/4/2012 4:46	56.3	22/4/2012 5:56	58.6	23/4/2012 23:06	60.3
18/4/2012 1:21	59.0	19/4/2012 2:31	56.3	20/4/2012 3:41	55.5	21/4/2012 4:51	55.8	22/4/2012 6:01	57.1	23/4/2012 23:11	60.2
18/4/2012 1:26	58.5	19/4/2012									

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

24/4/2012 2:31	55.4	25/4/2012 3:41	55.0	26/4/2012 4:51	55.9	27/4/2012 6:01	60.2
24/4/2012 2:36	56.5	25/4/2012 3:46	55.0	26/4/2012 4:56	55.7	27/4/2012 6:06	60.1
24/4/2012 2:41	56.3	25/4/2012 3:51	57.2	26/4/2012 5:01	55.9	27/4/2012 6:11	59.6
24/4/2012 2:46	55.0	25/4/2012 3:56	55.2	26/4/2012 5:06	56.3	27/4/2012 6:16	60.7
24/4/2012 2:51	56.0	25/4/2012 4:01	55.8	26/4/2012 5:11	55.4	27/4/2012 6:21	62.3
24/4/2012 2:56	55.9	25/4/2012 4:06	57.4	26/4/2012 5:16	57.2	27/4/2012 6:26	61.3
24/4/2012 3:01	55.0	25/4/2012 4:11	54.1	26/4/2012 5:21	54.8	27/4/2012 6:31	61.9
24/4/2012 3:06	58.3	25/4/2012 4:16	54.6	26/4/2012 5:26	59.3	27/4/2012 6:36	62.3
24/4/2012 3:11	54.8	25/4/2012 4:21	56.1	26/4/2012 5:31	56.8	27/4/2012 6:41	65.2
24/4/2012 3:16	56.0	25/4/2012 4:26	56.5	26/4/2012 5:36	56.0	27/4/2012 6:46	61.6
24/4/2012 3:21	56.8	25/4/2012 4:31	54.8	26/4/2012 5:41	57.1	27/4/2012 6:51	63.3
24/4/2012 3:26	57.0	25/4/2012 4:36	54.6	26/4/2012 5:46	58.4	27/4/2012 6:56	63.5
24/4/2012 3:31	56.2	25/4/2012 4:41	56.1	26/4/2012 5:51	58.8	27/4/2012 23:01	60.7
24/4/2012 3:36	56.3	25/4/2012 4:46	54.8	26/4/2012 5:56	59.6	27/4/2012 23:06	60.5
24/4/2012 3:41	54.9	25/4/2012 4:51	55.8	26/4/2012 6:01	57.8	27/4/2012 23:11	60.5
24/4/2012 3:46	55.3	25/4/2012 4:56	55.5	26/4/2012 6:06	58.3	27/4/2012 23:16	60.4
24/4/2012 3:51	57.4	25/4/2012 5:01	56.1	26/4/2012 6:11	58.9	27/4/2012 23:21	60.8
24/4/2012 3:56	56.1	25/4/2012 5:06	56.5	26/4/2012 6:16	57.8	27/4/2012 23:26	60.3
24/4/2012 4:01	53.8	25/4/2012 5:11	56.7	26/4/2012 6:21	57.9	27/4/2012 23:31	60.6
24/4/2012 4:06	55.7	25/4/2012 5:16	56.5	26/4/2012 6:26	58.3	27/4/2012 23:36	59.6
24/4/2012 4:11	56.2	25/4/2012 5:21	55.3	26/4/2012 6:31	59.6	27/4/2012 23:41	58.9
24/4/2012 4:16	54.7	25/4/2012 5:26	58.8	26/4/2012 6:36	60.7	27/4/2012 23:46	60.4
24/4/2012 4:21	54.5	25/4/2012 5:31	56.2	26/4/2012 6:41	60.1	27/4/2012 23:51	60.5
24/4/2012 4:26	55.6	25/4/2012 5:36	57.4	26/4/2012 6:46	61.0	27/4/2012 23:56	59.7
24/4/2012 4:31	54.1	25/4/2012 5:41	55.3	26/4/2012 6:51	60.5		
24/4/2012 4:36	54.9	25/4/2012 5:46	56.9	26/4/2012 6:56	60.9		
24/4/2012 4:41	55.3	25/4/2012 5:51	57.3	26/4/2012 23:01	61.5		
24/4/2012 4:46	55.4	25/4/2012 5:56	58.6	26/4/2012 23:06	61.4		
24/4/2012 4:51	56.2	25/4/2012 6:01	57.6	26/4/2012 23:11	59.8		
24/4/2012 4:56	54.8	25/4/2012 6:06	58.1	26/4/2012 23:16	60.1		
24/4/2012 5:01	55.8	25/4/2012 6:11	57.9	26/4/2012 23:21	61.1		
24/4/2012 5:06	57.3	25/4/2012 6:16	58.5	26/4/2012 23:26	60.6		
24/4/2012 5:11	56.8	25/4/2012 6:21	59.2	26/4/2012 23:31	60.0		
24/4/2012 5:16	56.8	25/4/2012 6:26	60.1	26/4/2012 23:36	58.9		
24/4/2012 5:21	55.0	25/4/2012 6:31	59.8	26/4/2012 23:41	59.5		
24/4/2012 5:26	57.4	25/4/2012 6:36	62.1	26/4/2012 23:46	60.4		
24/4/2012 5:31	54.3	25/4/2012 6:41	58.8	26/4/2012 23:51	59.5		
24/4/2012 5:36	57.1	25/4/2012 6:46	60.3	26/4/2012 23:56	60.5		
24/4/2012 5:41	57.6	25/4/2012 6:51	60.8	27/4/2012 0:01	60.2		
24/4/2012 5:46	58.4	25/4/2012 6:56	59.5	27/4/2012 0:06	60.8		
24/4/2012 5:51	58.6	25/4/2012 23:01	60.4	27/4/2012 0:11	59.9		
24/4/2012 5:56	58.4	25/4/2012 23:06	60.8	27/4/2012 0:16	60.0		
24/4/2012 6:01	58.4	25/4/2012 23:11	61.0	27/4/2012 0:21	60.0		
24/4/2012 6:06	57.6	25/4/2012 23:16	60.8	27/4/2012 0:26	60.2		
24/4/2012 6:11	57.9	25/4/2012 23:21	59.6	27/4/2012 0:31	60.5		
24/4/2012 6:16	58.6	25/4/2012 23:26	58.8	27/4/2012 0:36	60.0		
24/4/2012 6:21	57.6	25/4/2012 23:31	61.6	27/4/2012 0:41	60.0		
24/4/2012 6:26	58.5	25/4/2012 23:36	60.8	27/4/2012 0:46	59.1		
24/4/2012 6:31	59.2	25/4/2012 23:41	58.3	27/4/2012 0:51	59.5		
24/4/2012 6:36	61.1	25/4/2012 23:46	59.8	27/4/2012 0:56	59.1		
24/4/2012 6:41	59.3	25/4/2012 23:51	61.6	27/4/2012 1:01	58.3		
24/4/2012 6:46	59.9	25/4/2012 23:56	59.4	27/4/2012 1:06	58.8		
24/4/2012 6:51	59.9	26/4/2012 0:01	60.2	27/4/2012 1:11	58.3		
24/4/2012 6:56	60.8	26/4/2012 0:06	60.4	27/4/2012 1:16	57.9		
24/4/2012 23:01	60.0	26/4/2012 0:11	60.8	27/4/2012 1:21	58.2		
24/4/2012 23:06	59.2	26/4/2012 0:16	59.8	27/4/2012 1:26	58.3		
24/4/2012 23:11	60.8	26/4/2012 0:21	61.0	27/4/2012 1:31	57.5		
24/4/2012 23:16	61.0	26/4/2012 0:26	61.3	27/4/2012 1:36	57.1		
24/4/2012 23:21	61.6	26/4/2012 0:31	60.8	27/4/2012 1:41	57.6		
24/4/2012 23:26	59.7	26/4/2012 0:36	60.9	27/4/2012 1:46	57.5		
24/4/2012 23:31	59.9	26/4/2012 0:41	59.0	27/4/2012 1:51	57.3		
24/4/2012 23:36	59.8	26/4/2012 0:46	60.0	27/4/2012 1:56	57.2		
24/4/2012 23:41	58.7	26/4/2012 0:51	57.9	27/4/2012 2:01	57.5		
24/4/2012 23:46	61.2	26/4/2012 0:56	60.0	27/4/2012 2:06	57.0		
24/4/2012 23:51	60.0	26/4/2012 1:01	59.3	27/4/2012 2:11	57.2		
24/4/2012 23:56	60.4	26/4/2012 1:06	59.1	27/4/2012 2:16	56.5		
25/4/2012 0:01	59.9	26/4/2012 1:11	58.8	27/4/2012 2:21	57.1		
25/4/2012 0:06	59.8	26/4/2012 1:16	58.9	27/4/2012 2:26	56.6		
25/4/2012 0:11	60.5	26/4/2012 1:21	57.0	27/4/2012 2:31	57.8		
25/4/2012 0:16	59.3	26/4/2012 1:26	59.3	27/4/2012 2:36	56.2		
25/4/2012 0:21	60.4	26/4/2012 1:31	56.8	27/4/2012 2:41	56.6		
25/4/2012 0:26	60.9	26/4/2012 1:36	58.5	27/4/2012 2:46	56.4		
25/4/2012 0:31	60.3	26/4/2012 1:41	56.8	27/4/2012 2:51	56.6		
25/4/2012 0:36	59.0	26/4/2012 1:46	57.9	27/4/2012 2:56	55.8		
25/4/2012 0:41	57.6	26/4/2012 1:51	56.5	27/4/2012 3:01	56.8		
25/4/2012 0:46	58.5	26/4/2012 1:56	57.0	27/4/2012 3:06	56.2		
25/4/2012 0:51	58.2	26/4/2012 2:01	58.4	27/4/2012 3:11	56.1		
25/4/2012 0:56	59.7	26/4/2012 2:06	56.5	27/4/2012 3:16	56.4		
25/4/2012 1:01	58.7	26/4/2012 2:11	57.8	27/4/2012 3:21	60.4		
25/4/2012 1:06	58.0	26/4/2012 2:16	56.9	27/4/2012 3:26	65.3		
25/4/2012 1:11	59.1	26/4/2012 2:21	58.6	27/4/2012 3:31	58.7		
25/4/2012 1:16	59.2	26/4/2012 2:26	57.0	27/4/2012 3:36	63.4		
25/4/2012 1:21	59.2	26/4/2012 2:31	55.5	27/4/2012 3:41	57.6		
25/4/2012 1:26	58.0	26/4/2012 2:36	56.5	27/4/2012 3:46	57.4		
25/4/2012 1:31	56.7	26/4/2012 2:41	54.6	27/4/2012 3:51	57.5		
25/4/2012 1:36	56.2	26/4/2012 2:46	56.9	27/4/2012 3:56	56.5		
25/4/2012 1:41	56.9	26/4/2012 2:51	53.9	27/4/2012 4:01	55.8		
25/4/2012 1:46	58.3	26/4/2012 2:56	56.5	27/4/2012 4:06	55.9		
25/4/2012 1:51	56.9	26/4/2012 3:01	55.3	27/4/2012 4:11	56.5		
25/4/2012 1:56	57.2	26/4/2012 3:06	55.8	27/4/2012 4:16	55.6		
25/4/2012 2:01	56.3	26/4/2012 3:11	56.1	27/4/2012 4:21	56.7		
25/4/2012 2:06	57.9	26/4/2012 3:16	56.0	27/4/2012 4:26	55.8		
25/4/2012 2:11	55.4	26/4/2012 3:21	55.9	27/4/2012 4:31	56.2		
25/4/2012 2:16	57.3	26/4/2012 3:26	54.0	27/4/2012 4:36	55.8		
25/4/2012 2:21	57.3	26/4/2012 3:31	56.6	27/4/2012 4:41	58.0		
25/4/2012 2:26	56.5	26/4/2012 3:36	56.1	27/4/2012 4:46	57.3		
25/4/2012 2:31	54.9	26/4/2012 3:41	55.9	27/4/2012 4:51	57.6		
25/4/2012 2:36	56.6	26/4/2012 3:46	57.4	27/4/2012 4:56	57.2		
25/4/2012 2:41	56.5	26/4/2012 3:51	57.0	27/4/2012 5:01	57.3		
25/4/2012 2:46	55.8	26/4/2012 3:56	57.2	27/4/2012 5:06	57.9		
25/4/2012 2:51	55.6	26/4/2012 4:01	57.0	27/4/2012 5:11	57.5		
25/4/2012 2:56	56.3	26/4/2012 4:06	56.8	27/4/2012 5:16	57.3		
25/4/2012 3:01	55.1	26/4/2012 4:11	54.6	27/4/2012 5:21	56.9		
25/4/2012 3:06	56.1	26/4/2012 4:16	54.2	27/4/2012 5:26	60.4		
25/4/2012 3:11	53.6	26/4/2012 4:21	56.6	27/4/2012 5:31	57.3		
25/4/2012 3:16	55.4	26/4/2012 4:26	55.1	27/4/2012 5:36	59.0		
25/4/2012 3:21	56.1	26/4/2012 4:31	54.9	27/4/2012 5:41	59.8		
25/4/2012 3:26	55.3	26/4/2012 4:36	55.5	27/4/2012 5:46	58.5		
25/4/2012 3:31	56.9	26/4/2012 4:41	56.5	27/4/2012 5:51	59.3		
25/4/2012 3:36	55.1	26/4/2012 4:46	57.3	27/4/2012 5:56	58.1		

\*Exceedance recorded during monitoring compliance check with NCO.

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

Normal Day 07:00-19:00

30/4/2012 7:01	62.5	5/5/2012 13:31	67.1	11/5/2012 8:31	64.5
30/4/2012 7:31	64.3	5/5/2012 14:01	79.8	11/5/2012 9:01	65.3
30/4/2012 8:01	64.7	5/5/2012 14:31	75.0	11/5/2012 9:31	64.6
30/4/2012 8:31	66.4	5/5/2012 15:01	67.9	11/5/2012 10:01	64.6
30/4/2012 9:01	66.4	5/5/2012 15:31	72.3	11/5/2012 10:31	63.8
30/4/2012 9:31	67.1	5/5/2012 16:01	66.8	11/5/2012 11:01	65.2
30/4/2012 10:01	66.8	5/5/2012 16:31	65.7	11/5/2012 11:31	64.0
30/4/2012 10:31	66.0	5/5/2012 17:01	65.4	11/5/2012 12:01	63.9
30/4/2012 11:01	66.6	5/5/2012 17:31	64.8	11/5/2012 12:31	62.6
30/4/2012 11:31	66.8	5/5/2012 18:01	65.7	11/5/2012 13:01	63.0
30/4/2012 12:01	63.4	5/5/2012 18:31	64.9	11/5/2012 13:31	64.0
30/4/2012 12:31	62.7	7/5/2012 7:01	63.2	11/5/2012 14:01	64.4
30/4/2012 13:01	64.5	7/5/2012 7:31	64.1	11/5/2012 14:31	61.8
30/4/2012 13:31	66.7	7/5/2012 8:01	63.8	11/5/2012 15:01	63.5
30/4/2012 14:01	66.0	7/5/2012 8:31	66.3	11/5/2012 15:31	63.3
30/4/2012 14:31	66.2	7/5/2012 9:01	65.7	11/5/2012 16:01	64.4
30/4/2012 15:01	66.2	7/5/2012 9:31	67.0	11/5/2012 16:31	64.6
30/4/2012 15:31	66.3	7/5/2012 10:01	66.6	11/5/2012 17:01	65.1
30/4/2012 16:01	67.1	7/5/2012 10:31	67.2	11/5/2012 17:31	64.7
30/4/2012 16:31	67.3	7/5/2012 11:01	67.3	11/5/2012 18:01	63.5
30/4/2012 17:01	66.8	7/5/2012 11:31	67.3	11/5/2012 18:31	62.4
30/4/2012 17:31	65.2	7/5/2012 12:01	62.8	12/5/2012 7:01	64.9
30/4/2012 18:01	63.3	7/5/2012 12:31	62.6	12/5/2012 7:31	65.1
30/4/2012 18:31	63.3	7/5/2012 13:01	75.0	12/5/2012 8:01	64.5
2/5/2012 7:01	61.5	7/5/2012 13:31	76.9	12/5/2012 8:31	65.1
2/5/2012 7:31	64.2	7/5/2012 14:01	67.4	12/5/2012 9:01	66.0
2/5/2012 8:01	64.7	7/5/2012 14:31	74.9	12/5/2012 9:31	63.8
2/5/2012 8:31	66.0	7/5/2012 15:01	67.6	12/5/2012 10:01	64.7
2/5/2012 9:01	67.5	7/5/2012 15:31	71.5	12/5/2012 10:31	64.0
2/5/2012 9:31	67.3	7/5/2012 16:01	65.6	12/5/2012 11:01	69.4
2/5/2012 10:01	67.3	7/5/2012 16:31	66.6	12/5/2012 11:31	68.6
2/5/2012 10:31	66.1	7/5/2012 17:01	66.7	12/5/2012 12:01	63.8
2/5/2012 11:01	67.5	7/5/2012 17:31	66.3	12/5/2012 12:31	62.5
2/5/2012 11:31	66.0	7/5/2012 18:01	65.2	12/5/2012 13:01	63.5
2/5/2012 12:01	63.6	7/5/2012 18:31	63.2	12/5/2012 13:31	69.7
2/5/2012 12:31	67.4	8/5/2012 7:01	63.9	12/5/2012 14:01	70.3
2/5/2012 13:01	65.3	8/5/2012 7:31	64.0	12/5/2012 14:31	65.4
2/5/2012 13:31	65.9	8/5/2012 8:01	64.8	12/5/2012 15:01	72.3
2/5/2012 14:01	66.4	8/5/2012 8:31	65.9	12/5/2012 15:31	68.0
2/5/2012 14:31	69.9	8/5/2012 9:01	65.7	12/5/2012 16:01	64.4
2/5/2012 15:01	68.8	8/5/2012 9:31	65.1	12/5/2012 16:31	66.0
2/5/2012 15:31	68.7	8/5/2012 10:01	64.7	12/5/2012 17:01	67.9
2/5/2012 16:01	69.2	8/5/2012 10:31	65.3	12/5/2012 17:31	65.8
2/5/2012 16:31	67.9	8/5/2012 11:01	64.9	12/5/2012 18:01	63.9
2/5/2012 17:01	68.9	8/5/2012 11:31	63.8	12/5/2012 18:31	64.2
2/5/2012 17:31	66.8	8/5/2012 12:01	65.3	14/5/2012 7:01	64.2
2/5/2012 18:01	68.7	8/5/2012 12:31	63.4	14/5/2012 7:31	65.6
2/5/2012 18:31	68.2	8/5/2012 13:01	64.7	14/5/2012 8:01	64.9
3/5/2012 7:01	62.4	8/5/2012 13:31	63.9	14/5/2012 8:31	66.4
3/5/2012 7:31	63.4	8/5/2012 14:01	64.0	14/5/2012 9:01	64.8
3/5/2012 8:01	64.2	8/5/2012 14:31	64.9	14/5/2012 9:31	63.7
3/5/2012 8:31	65.8	8/5/2012 15:01	63.6	14/5/2012 10:01	64.6
3/5/2012 9:01	66.1	8/5/2012 15:31	64.0	14/5/2012 10:31	64.0
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3/5/2012 10:01	66.8	8/5/2012 16:31	64.6	14/5/2012 11:31	67.8
3/5/2012 10:31	66.2	8/5/2012 17:01	66.2	14/5/2012 12:01	63.0
3/5/2012 11:01	70.0	8/5/2012 17:31	66.3	14/5/2012 12:31	62.2
3/5/2012 11:31	68.6	8/5/2012 18:01	63.9	14/5/2012 13:01	62.1
3/5/2012 12:01	63.9	8/5/2012 18:31	64.4	14/5/2012 13:31	68.9
3/5/2012 12:31	62.2	9/5/2012 7:01	65.0	14/5/2012 14:01	71.2
3/5/2012 13:01	66.5	9/5/2012 7:31	65.6	14/5/2012 14:31	65.1
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3/5/2012 14:01	67.0	9/5/2012 8:31	64.8	14/5/2012 15:31	67.6
3/5/2012 14:31	66.9	9/5/2012 9:01	67.3	14/5/2012 16:01	63.5
3/5/2012 15:01	67.8	9/5/2012 9:31	68.1	14/5/2012 16:31	66.3
3/5/2012 15:31	66.2	9/5/2012 10:01	69.5	14/5/2012 17:01	68.2
3/5/2012 16:01	65.8	9/5/2012 10:31	70.7	14/5/2012 17:31	65.5
3/5/2012 16:31	66.2	9/5/2012 11:01	68.7	14/5/2012 18:01	62.5
3/5/2012 17:01	65.9	9/5/2012 11:31	69.1	14/5/2012 18:31	62.9
3/5/2012 17:31	65.0	9/5/2012 12:01	65.3	15/5/2012 7:01	62.7
3/5/2012 18:01	64.7	9/5/2012 12:31	66.3	15/5/2012 7:31	62.1
3/5/2012 18:31	63.1	9/5/2012 13:01	65.2	15/5/2012 8:01	63.0
4/5/2012 7:01	64.4	9/5/2012 13:31	67.1	15/5/2012 8:31	64.1
4/5/2012 7:31	65.3	9/5/2012 14:01	68.5	15/5/2012 9:01	65.6
4/5/2012 8:01	63.4	9/5/2012 14:31	65.8	15/5/2012 9:31	65.5
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4/5/2012 13:01	66.3	10/5/2012 7:31	63.3	15/5/2012 14:31	64.4
4/5/2012 13:31	66.3	10/5/2012 8:01	63.3	15/5/2012 15:01	67.9
4/5/2012 14:01	66.6	10/5/2012 8:31	63.8	15/5/2012 15:31	66.1
4/5/2012 14:31	65.6	10/5/2012 9:01	64.6	15/5/2012 16:01	63.9
4/5/2012 15:01	65.4	10/5/2012 9:31	64.2	15/5/2012 16:31	66.1
4/5/2012 15:31	65.5	10/5/2012 10:01	64.4	15/5/2012 17:01	67.2
4/5/2012 16:01	65.8	10/5/2012 10:31	65.0	15/5/2012 17:31	64.9
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4/5/2012 17:01	65.8	10/5/2012 11:31	63.9	15/5/2012 18:31	62.6
4/5/2012 17:31	65.7	10/5/2012 12:01	63.1	16/5/2012 7:01	63.4
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4/5/2012 18:31	65.6	10/5/2012 13:01	64.8	16/5/2012 8:01	63.9
5/5/2012 7:01	62.3	10/5/2012 13:31	66.2	16/5/2012 8:31	64.9
5/5/2012 7:31	63.2	10/5/2012 14:01	65.2	16/5/2012 9:01	65.4
5/5/2012 8:01	65.8	10/5/2012 14:31	64.0	16/5/2012 9:31	64.5
5/5/2012 8:31	67.4	10/5/2012 15:01	64.4	16/5/2012 10:01	64.6
5/5/2012 9:01	66.7	10/5/2012 15:31	63.2	16/5/2012 10:31	64.5
5/5/2012 9:31	66.6	10/5/2012 16:01	63.0	16/5/2012 11:01	66.6
5/5/2012 10:01	67.4	10/5/2012 16:31	64.4	16/5/2012 11:31	65.6
5/5/2012 10:31	67.2	10/5/2012 17:01	65.1	16/5/2012 12:01	64.1
5/5/2012 11:01	65.9	10/5/2012 17:31	64.5	16/5/2012 12:31	63.2
5/5/2012 11:31	67.2	10/5/2012 18:01	64.5	16/5/2012 13:01	64.0
5/5/2012 12:01	65.2	10/5/2012 18:31	62.8	16/5/2012 13:31	66.6
5/5/2012 12:31	63.2	11/5/2012 7:01	61.0	16/5/2012 14:01	66.8
5/5/2012 13:01	64.0	11/5/2012 7:31	61.7	16/5/2012 14:31	64.2
		11/5/2012 8:01	62.6	16/5/2012 15:01	67.8

16/5/2012 15:31	65.1	22/5/2012 7:01	63.2	21/5/2012 17:31	67.5
16/5/2012 16:01	64.3	22/5/2012 7:31	64.2	21/5/2012 18:01	65.5
16/5/2012 16:31	65.0	22/5/2012 8:01	64.8	21/5/2012 18:31	67.3
16/5/2012 17:01	66.2	22/5/2012 8:31	65.8	21/5/2012 19:01	68.2
16/5/2012 17:31	65.4	22/5/2012 9:01	66.7		
16/5/2012 18:01	64.0	22/5/2012 9:31	67.3		
16/5/2012 18:31	63.5	22/5/2012 10:01	67.7		
17/5/2012 7:01	63.2	22/5/2012 10:31	68.0		
17/5/2012 7:31	64.4	22/5/2012 11:01	68.5		
17/5/2012 8:01	64.8	22/5/2012 11:31	67.9		
17/5/2012 8:31	65.8	22/5/2012 12:01	64.0		
17/5/2012 9:01	66.7	22/5/2012 12:31	65.2		
17/5/2012 9:31	67.3	22/5/2012 13:01	70.3		
17/5/2012 10:01	67.7	22/5/2012 13:31	71.9		
17/5/2012 10:31	68.0	22/5/2012 14:01	67.4		
17/5/2012 11:01	68.5	22/5/2012 14:31	70.9		
17/5/2012 11:31	67.9	22/5/2012 15:01	67.7		
17/5/2012 12:01	64.0	22/5/2012 15:31	69.0		
17/5/2012 12:31	65.2	22/5/2012 16:01	66.7		
17/5/2012 13:01	70.3	22/5/2012 16:31	67.3		
17/5/2012 13:31	71.9	22/5/2012 17:01	67.9		
17/5/2012 14:01	67.4	22/5/2012 17:31	65.8		
17/5/2012 14:31	70.9	22/5/2012 18:01	66.3		
17/5/2012 15:01	67.7	22/5/2012 18:31	64.9		
17/5/2012 15:31	69.0	22/5/2012 19:01	64.0		
17/5/2012 16:01	66.7				
17/5/2012 16:31	67.3				
17/5/2012 17:01	67.9				
17/5/2012 17:31	65.8				
17/5/2012 18:01	66.3				
17/5/2012 18:31	64.9				
18/5/2012 7:01	64.0				
18/5/2012 7:31	64.9				
18/5/2012 8:01	64.7				
18/5/2012 8:31	65.9				
18/5/2012 9:					

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

28/4/2012 15:41	63.2	29/4/2012 8:51	62.2	29/4/2012 18:01	63.1	1/5/2012 7:11	63.5	1/5/2012 16:21	64.1	2/5/2012 21:31	64.8
28/4/2012 15:46	63.8	29/4/2012 8:56	62.3	29/4/2012 18:06	63.2	1/5/2012 7:16	63.3	1/5/2012 16:26	64.6	2/5/2012 21:36	65.6
28/4/2012 15:51	62.8	29/4/2012 9:01	62.4	29/4/2012 18:11	62.0	1/5/2012 7:21	62.8	1/5/2012 16:31	69.4	2/5/2012 21:41	64.9
28/4/2012 15:56	63.4	29/4/2012 9:06	62.3	29/4/2012 18:16	62.4	1/5/2012 7:26	62.8	1/5/2012 16:36	70.9	2/5/2012 21:46	64.2
28/4/2012 16:01	62.7	29/4/2012 9:11	63.5	29/4/2012 18:21	62.4	1/5/2012 7:31	63.9	1/5/2012 16:41	67.1	2/5/2012 21:51	64.4
28/4/2012 16:06	63.5	29/4/2012 9:16	63.2	29/4/2012 18:26	62.5	1/5/2012 7:36	63.6	1/5/2012 16:46	65.2	2/5/2012 21:56	64.6
28/4/2012 16:11	63.5	29/4/2012 9:21	62.2	29/4/2012 18:31	62.2	1/5/2012 7:41	64.3	1/5/2012 16:51	65.3	2/5/2012 22:01	64.6
28/4/2012 16:16	63.7	29/4/2012 9:26	63.3	29/4/2012 18:36	62.7	1/5/2012 7:46	64.3	1/5/2012 17:06	65.1	2/5/2012 22:06	64.5
28/4/2012 16:21	63.3	29/4/2012 9:31	62.7	29/4/2012 18:41	62.6	1/5/2012 7:51	64.4	1/5/2012 17:11	65.4	2/5/2012 22:11	63.7
28/4/2012 16:26	63.6	29/4/2012 9:36	63.1	29/4/2012 18:46	62.6	1/5/2012 7:56	64.1	1/5/2012 17:16	65.1	2/5/2012 22:16	64.0
28/4/2012 16:31	62.8	29/4/2012 9:41	64.4	29/4/2012 18:51	62.0	1/5/2012 8:01	64.4	1/5/2012 17:21	65.0	2/5/2012 22:21	64.2
28/4/2012 16:36	62.9	29/4/2012 9:46	64.9	29/4/2012 18:56	62.3	1/5/2012 8:06	65.1	1/5/2012 17:26	66.5	2/5/2012 22:26	65.1
28/4/2012 16:41	65.7	29/4/2012 9:51	63.5	29/4/2012 19:01	62.2	1/5/2012 8:11	65.4	1/5/2012 17:31	65.4	2/5/2012 22:31	64.3
28/4/2012 16:46	61.9	29/4/2012 9:56	63.2	29/4/2012 19:06	61.8	1/5/2012 8:16	64.9	1/5/2012 17:36	65.2	2/5/2012 22:36	64.0
28/4/2012 16:51	62.8	29/4/2012 10:01	63.4	29/4/2012 19:11	62.2	1/5/2012 8:21	65.4	1/5/2012 17:41	65.0	2/5/2012 22:41	64.4
28/4/2012 16:56	63.6	29/4/2012 10:06	63.2	29/4/2012 19:16	62.1	1/5/2012 8:26	66.1	1/5/2012 17:46	64.7	2/5/2012 22:46	64.4
28/4/2012 17:01	64.0	29/4/2012 10:11	63.0	29/4/2012 19:21	62.7	1/5/2012 8:31	66.4	1/5/2012 17:51	64.9	2/5/2012 22:51	64.8
28/4/2012 17:06	63.5	29/4/2012 10:16	63.9	29/4/2012 19:26	62.0	1/5/2012 8:36	66.3	1/5/2012 17:56	63.5	2/5/2012 22:56	65.3
28/4/2012 17:11	63.4	29/4/2012 10:21	63.3	29/4/2012 19:31	61.7	1/5/2012 8:41	70.2	1/5/2012 18:01	65.7	3/5/2012 19:01	61.8
28/4/2012 17:16	63.9	29/4/2012 10:26	63.9	29/4/2012 19:36	61.8	1/5/2012 8:46	69.5	1/5/2012 18:06	66.5	3/5/2012 19:06	62.1
28/4/2012 17:21	63.9	29/4/2012 10:31	63.6	29/4/2012 19:41	62.1	1/5/2012 8:51	67.1	1/5/2012 18:11	66.1	3/5/2012 19:11	62.5
28/4/2012 17:26	63.9	29/4/2012 10:36	64.1	29/4/2012 19:46	61.6	1/5/2012 8:56	65.8	1/5/2012 18:16	66.7	3/5/2012 19:16	62.7
28/4/2012 17:31	63.0	29/4/2012 10:41	63.5	29/4/2012 19:51	61.5	1/5/2012 9:01	66.8	1/5/2012 18:21	66.7	3/5/2012 19:21	63.5
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28/4/2012 17:41	62.9	29/4/2012 10:51	62.8	29/4/2012 20:01	61.5	1/5/2012 9:11	65.4	1/5/2012 18:31	66.1	3/5/2012 19:31	62.7
28/4/2012 17:46	62.5	29/4/2012 10:56	63.5	29/4/2012 20:06	61.0	1/5/2012 9:16	65.7	1/5/2012 18:36	65.9	3/5/2012 19:36	62.8
28/4/2012 17:51	62.9	29/4/2012 11:01	63.7	29/4/2012 20:11	61.4	1/5/2012 9:21	64.8	1/5/2012 18:41	65.9	3/5/2012 19:41	62.4
28/4/2012 17:56	62.7	29/4/2012 11:06	63.2	29/4/2012 20:16	61.6	1/5/2012 9:26	64.8	1/5/2012 18:46	65.7	3/5/2012 19:46	62.3
28/4/2012 18:01	63.3	29/4/2012 11:11	64.6	29/4/2012 20:21	61.5	1/5/2012 9:31	64.9	1/5/2012 18:51	65.6	3/5/2012 19:51	62.1
28/4/2012 18:06	61.8	29/4/2012 11:16	64.4	29/4/2012 20:26	61.1	1/5/2012 9:36	64.6	1/5/2012 18:56	65.5	3/5/2012 19:56	63.8
28/4/2012 18:11	62.1	29/4/2012 11:21	64.0	29/4/2012 20:31	62.1	1/5/2012 9:41	64.4	1/5/2012 19:01	65.7	3/5/2012 20:01	62.7
28/4/2012 18:16	62.1	29/4/2012 11:26	64.1	29/4/2012 20:36	61.4	1/5/2012 9:46	65.4	1/5/2012 19:06	65.9	3/5/2012 20:06	61.5
28/4/2012 18:21	62.0	29/4/2012 11:31	63.8	29/4/2012 20:41	61.2	1/5/2012 9:51	65.7	1/5/2012 19:11	66.5	3/5/2012 20:11	61.8
28/4/2012 18:26	61.4	29/4/2012 11:36	64.0	29/4/2012 20:46	61.6	1/5/2012 9:56	65.6	1/5/2012 19:16	65.8	3/5/2012 20:16	61.2
28/4/2012 18:31	61.2	29/4/2012 11:41	63.3	29/4/2012 20:51	61.1	1/5/2012 10:01	66.2	1/5/2012 19:21	65.2	3/5/2012 20:21	61.8
28/4/2012 18:36	60.6	29/4/2012 11:46	65.6	29/4/2012 20:56	61.1	1/5/2012 10:06	65.8	1/5/2012 19:26	65.9	3/5/2012 20:26	62.0
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28/4/2012 20:16	61.7	29/4/2012 13:26	64.5	29/4/2012 22:36	61.7	1/5/2012 11:46	65.7	1/5/2012 21:06	65.0	3/5/2012 22:06	62.0
28/4/2012 20:21	61.9	29/4/2012 13:31	65.1	29/4/2012 22:41	61.2	1/5/2012 11:51	65.2	1/5/2012 21:11	64.7	3/5/2012 22:11	62.3
28/4/2012 20:26	61.3	29/4/2012 13:36	62.4	29/4/2012 22:46	60.7	1/5/2012 11:56	65.7	1/5/2012 21:16	64.8	3/5/2012 22:16	63.2
28/4/2012 20:31	61.8	29/4/2012 13:41	62.6	29/4/2012 22:51	61.3	1/5/2012 12:01	65.5	1/5/2012 21:21	64.4	3/5/2012 22:21	62.0
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28/4/2012 20:41	63.0	29/4/2012 13:51	62.5	30/4/2012 19:01	61.7	1/5/2012 12:11	66.9	1/5/2012 21:31	64.4	3/5/2012 22:31	61.6
28/4/2012 20:46	63.8	29/4/2012 13:56	62.6	30/4/2012 19:06	63.6	1/5/2012 12:16	66.4	1/5/2012 21:36	64.8	3/5/2012 22:36	61.6
28/4/2012 20:51	61.5	29/4/2012 14:01	63.0	30/4/2012 19:11	62.1	1/5/2012 12:21	66.6	1/5/2012 21:41	64.1	3/5/2012 22:41	62.0
28/4/2012 20:56	61.9	29/4/2012 14:06	62.5	30/4/2012 19:16	61.9	1/5/2012 12:26	66.1	1/5/2012 21:46	64.1	3/5/2012 22:46	61.6
28/4/2012 21:01	60.9	29/4/2012 14:11	62.4	30/4/2012 19:21	62.1	1/5/2012 12:31	66.6	1/5/2012 21:51	64.2	3/5/2012 22:51	61.3
28/4/2012 21:06	61.8	29/4/2012 14:16	65.4	30/4/2012 19:26	62.5	1/5/2012 12:36	65.6	1/5/2012 21:56	64.2	3/5/2012 22:56	61.8
28/4/2012 21:11	61.8	29/4/2012 14:21	64.0	30/4/2012 19:31	62.8	1/5/2012 12:41	65.8	1/5/2012 22:01	64.2	4/5/2012 19:01	67.1
28/4/2012 21:16	61.5	29/4/2012 14:26	64.7	30/4/2012 19:36	62.5	1/5/2012 12:46	66.7	1/5/2012 22:06	64.8	4/5/2012 19:06	66.8
28/4/2012 21:21	61.7	29/4/2012 14:31	65.3	30/4/2012 19:41	62.2	1/5/2012 12:51	66.0	1/5/2012 22:11	64.8	4/5/2012 19:11	66.7
28/4/2012 21:26	62.0	29/4/2012 14:36	63.4	30/4/2012 19:46	61.1	1/5/2012 12:56	65.5	1/5/2012 22:16	64.0	4/5/2012 19:16	66.9
28/4/2012 21:31											

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

4/5/2012 22:41	66.8	6/5/2012 11:51	64.2	6/5/2012 21:01	61.6	8/5/2012 22:11	64.1	11/5/2012 19:21	64.4	13/5/2012 8:31	64.1
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5/5/2012 19:11	63.3	6/5/2012 12:21	63.0	6/5/2012 21:31	61.8	8/5/2012 22:41	64.2	11/5/2012 19:51	63.6	13/5/2012 9:01	64.9
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5/5/2012 19:41	63.9	6/5/2012 12:51	62.7	6/5/2012 22:01	61.9	9/5/2012 19:11	63.2	11/5/2012 20:21	63.2	13/5/2012 9:31	65.3
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5/5/2012 21:41	65.1	6/5/2012 14:51	64.1	7/5/2012 20:01	63.6	9/5/2012 21:11	63.1	11/5/2012 22:21	63.5	13/5/2012 11:31	63.9
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6/5/2012 7:01	61.5	6/5/2012 16:11	63.6	7/5/2012 21:21	62.0	9/5/2012 22:31	63.1	12/5/2012 19:41	63.8	13/5/2012 12:51	64.1
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6/5/2012 7:11	60.7	6/5/2012 16:21	63.5	7/5/2012 21:31	62.1	9/5/2012 22:41	63.9	12/5/2012 19:51	64.2	13/5/2012 13:01	63.3
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6/5/2012 7:31	62.2	6/5/2012 16:41	63.5	7/5/2012 21:51	63.3	10/5/2012 19:01	63.9	12/5/2012 20:11	67.3	13/5/2012 13:21	65.6
6/5/2012 7:36	62.9	6/5/2012 16:46	63.3	7/5/2012 21:56	62.8	10/5/2012 19:06	64.4	12/5/2012 20:16	64.6	13/5/2012 13:26	66.1
6/5/2012 7:41	61.5	6/5/2012 16:51	63.7	7/5/2012 22:01	63.0	10/5/2012 19:11	64.8	12/5/2012 20:21	64.6	13/5/2012 13:31	63.6
6/5/2012 7:46	60.8	6/5/2012 16:56	64.7	7/5/2012 22:06	62.6	10/5/2012 19:16	63.6	12/5/2012 20:26	64.1	13/5/2012 13:36	64.0
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6/5/2012 8:26	63.3	6/5/2012 17:36	63.8	7/5/2012 22:46	62.1	10/5/2012 19:56	64.4	12/5/2012 21:06	63.9	13/5/2012 14:16	63.5
6/5/2012 8:31	64.1	6/5/2012 17:41	63.6	7/5/2012							

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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13/5/2012 17:51	64.9	15/5/2012 19:01	63.7	17/5/2012 20:11	63.7	19/5/2012 21:21	62.3	20/5/2012 14:31	67.2	21/5/2012 19:41	63.8
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13/5/2012 18:01	64.9	15/5/2012 19:11	63.9	17/5/2012 20:21	63.9	19/5/2012 21:31	62.7	20/5/2012 14:41	66.8	21/5/2012 19:51	63.9
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13/5/2012 18:31	64.4	15/5/2012 19:41	64.5	17/5/2012 20:51	63.7	19/5/2012 22:01	62.3	20/5/2012 15:11	68.5	21/5/2012 20:21	63.2
13/5/2012 18:36	64.9	15/5/2012 19:46	64.5	17/5/2012 20:56	63.6	19/5/2012 22:06	62.9	20/5/2012 15:16	67.6	21/5/2012 20:26	62.9
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13/5/2012 18:56	64.9	15/5/2012 20:06	64.7	17/5/2012 21:16	64.1	19/5/2012 22:26	62.8	20/5/2012 15:36	68.9	21/5/2012 20:46	63.0
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13/5/2012 22:31	64.1	16/5/2012 19:41	64.1	18/5/2012 20:51	64.7	20/5/2012 10:01	64.0	20/5/2012 19:11	64.9	22/5/2012 20:21	64.1
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14/5/2012 19:16	65.0	16/5/2012 20:26	64.0	18/5/2012 21:36	63.9	20/5/2012 10:46	64.2	20/5/2012 19:56	63.3	22/5/2012 21:06	64.2
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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25/5/2012 20:36	64.4	27/5/2012 9:46	64.9	27/5/2012 18:56	62.2
25/5/2012 20:41	64.4	27/5/2012 9:51	65.0	27/5/2012 19:01	62.6
25/5/2012 20:46	64.4	27/5/2012 9:56	65.3	27/5/2012 19:06	62.5
25/5/2012 20:51	64.3	27/5/2012 10:01	64.8	27/5/2012 19:11	63.2
25/5/2012 20:56	64.5	27/5/2012 10:06	65.1	27/5/2012 19:16	63.5
25/5/2012 21:01	64.2	27/5/2012 10:11	65.0	27/5/2012 19:21	62.4
25/5/2012 21:06	64.4	27/5/2012 10:16	64.3	27/5/2012 19:26	63.0
25/5/2012 21:11	64.4	27/5/2012 10:21	65.5	27/5/2012 19:31	62.5
25/5/2012 21:16	64.1	27/5/2012 10:26	64.9	27/5/2012 19:36	63.0
25/5/2012 21:21	64.0	27/5/2012 10:31	64.3	27/5/2012 19:41	62.1
25/5/2012 21:26	64.3	27/5/2012 10:36	63.8	27/5/2012 19:46	62.4
25/5/2012 21:31	63.9	27/5/2012 10:41	64.2	27/5/2012 19:51	62.0
25/5/2012 21:36	63.9	27/5/2012 10:46	64.4	27/5/2012 19:56	61.8
25/5/2012 21:41	64.4	27/5/2012 10:51	63.8	27/5/2012 20:01	62.1
25/5/2012 21:46	64.5	27/5/2012 10:56	63.4	27/5/2012 20:06	62.8

27/5/2012 20:11	62.2
27/5/2012 20:16	62.1
27/5/2012 20:21	65.9
27/5/2012 20:26	63.4
27/5/2012 20:31	62.8
27/5/2012 20:36	62.1
27/5/2012 20:41	61.4
27/5/2012 20:46	62.6
27/5/2012 20:51	61.8
27/5/2012 20:56	61.6
27/5/2012 21:01	62.0
27/5/2012 21:06	61.9
27/5/2012 21:11	62.3
27/5/2012 21:16	61.6
27/5/2012 21:21	61.8
27/5/2012 21:26	61.9
27/5/2012 21:31	61.6
27/5/2012 21:36	62.2
27/5/2012 21:41	62.5
27/5/2012 21:46	62.1
27/5/2012 21:51	61.4
27/5/2012 21:56	61.6
27/5/2012 22:01	61.2
27/5/2012 22:06	61.6
27/5/2012 22:11	61.6
27/5/2012 22:16	61.4
27/5/2012 22:21	61.6
27/5/2012 22:26	61.4
27/5/2012 22:31	61.6
27/5/2012 22:36	61.4
27/5/2012 22:41	62.1
27/5/2012 22:46	61.5
27/5/2012 22:51	61.1
27/5/2012 22:56	61.8
<b>Night-time 23:00-07:00</b>	
28/4/2012 0:01	62.7
28/4/2012 0:06	62.6
28/4/2012 0:11	63.7
28/4/2012 0:16	62.5
28/4/2012 0:21	62.9
28/4/2012 0:26	62.5
28/4/2012 0:31	62.2
28/4/2012 0:36	61.3
28/4/2012 0:41	61.7
28/4/2012 0:46	61.9
28/4/2012 0:51	61.4
28/4/2012 0:56	61.4
28/4/2012 1:01	61.5
28/4/2012 1:06	65.4
28/4/2012 1:11	64.8
28/4/2012 1:16	63.3
28/4/2012 1:21	62.7
28/4/2012 1:26	64.8
28/4/2012 1:31	63.0
28/4/2012 1:36	63.1
28/4/2012 1:41	63.8
28/4/2012 1:46	66.1
28/4/2012 1:51	61.8
28/4/2012 1:56	62.2
28/4/2012 2:01	65.0
28/4/2012 2:06	61.8
28/4/2012 2:11	62.0
28/4/2012 2:16	63.4
28/4/2012 2:21	61.9
28/4/2012 2:26	61.3</

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

Table with 20 columns representing time slots from 1/5/2012 0:21 to 6/5/2012 6:11. Each row contains noise level measurements for a specific time slot, organized into five groups of four columns each.

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

7/5/2012 23:21	61.6	9/5/2012 0:31	61.9	10/5/2012 1:41	61.9	11/5/2012 2:51	60.7	12/5/2012 4:01	58.4	13/5/2012 5:11	60.6
7/5/2012 23:26	61.3	9/5/2012 0:36	60.8	10/5/2012 1:46	61.8	11/5/2012 2:56	60.7	12/5/2012 4:06	59.5	13/5/2012 5:16	60.3
7/5/2012 23:31	61.5	9/5/2012 0:41	62.4	10/5/2012 1:51	61.3	11/5/2012 3:01	61.0	12/5/2012 4:11	59.1	13/5/2012 5:21	59.7
7/5/2012 23:36	61.2	9/5/2012 0:46	61.6	10/5/2012 1:56	61.0	11/5/2012 3:06	60.4	12/5/2012 4:16	58.7	13/5/2012 5:26	60.2
7/5/2012 23:41	61.2	9/5/2012 0:51	60.4	10/5/2012 2:01	61.1	11/5/2012 3:11	60.0	12/5/2012 4:21	58.8	13/5/2012 5:31	60.4
7/5/2012 23:46	62.2	9/5/2012 0:56	60.0	10/5/2012 2:06	60.8	11/5/2012 3:16	60.0	12/5/2012 4:26	58.8	13/5/2012 5:36	61.9
7/5/2012 23:51	60.5	9/5/2012 1:01	60.8	10/5/2012 2:11	61.2	11/5/2012 3:21	60.8	12/5/2012 4:31	59.2	13/5/2012 5:41	60.5
7/5/2012 23:56	60.7	9/5/2012 1:06	60.7	10/5/2012 2:16	60.5	11/5/2012 3:26	60.2	12/5/2012 4:36	58.4	13/5/2012 5:46	61.8
8/5/2012 0:01	60.6	9/5/2012 1:11	60.2	10/5/2012 2:21	61.2	11/5/2012 3:31	60.0	12/5/2012 4:41	58.9	13/5/2012 5:51	61.9
8/5/2012 0:06	60.8	9/5/2012 1:16	60.7	10/5/2012 2:26	60.6	11/5/2012 3:36	59.9	12/5/2012 4:46	59.4	13/5/2012 5:56	60.9
8/5/2012 0:11	60.6	9/5/2012 1:21	60.8	10/5/2012 2:31	60.5	11/5/2012 3:41	60.2	12/5/2012 4:51	58.8	13/5/2012 6:01	61.7
8/5/2012 0:16	60.7	9/5/2012 1:26	60.8	10/5/2012 2:36	61.2	11/5/2012 3:46	60.2	12/5/2012 4:56	59.8	13/5/2012 6:06	61.4
8/5/2012 0:21	60.6	9/5/2012 1:31	60.5	10/5/2012 2:41	60.2	11/5/2012 3:51	60.0	12/5/2012 5:01	59.4	13/5/2012 6:11	61.9
8/5/2012 0:26	60.6	9/5/2012 1:36	59.2	10/5/2012 2:46	60.5	11/5/2012 3:56	59.9	12/5/2012 5:06	59.7	13/5/2012 6:16	62.2
8/5/2012 0:31	60.6	9/5/2012 1:41	61.2	10/5/2012 2:51	60.5	11/5/2012 4:01	59.4	12/5/2012 5:11	59.1	13/5/2012 6:21	61.7
8/5/2012 0:36	60.0	9/5/2012 1:46	60.0	10/5/2012 2:56	60.4	11/5/2012 4:06	59.5	12/5/2012 5:16	59.5	13/5/2012 6:26	62.2
8/5/2012 0:41	60.4	9/5/2012 1:51	59.6	10/5/2012 3:01	60.4	11/5/2012 4:11	59.5	12/5/2012 5:21	59.4	13/5/2012 6:31	62.9
8/5/2012 0:46	60.6	9/5/2012 1:56	59.7	10/5/2012 3:06	62.0	11/5/2012 4:16	59.7	12/5/2012 5:26	60.0	13/5/2012 6:36	61.6
8/5/2012 0:51	60.4	9/5/2012 2:01	58.8	10/5/2012 3:11	59.6	11/5/2012 4:21	59.1	12/5/2012 5:31	59.9	13/5/2012 6:41	62.2
8/5/2012 0:56	59.4	9/5/2012 2:06	59.4	10/5/2012 3:16	60.3	11/5/2012 4:26	59.5	12/5/2012 5:36	60.6	13/5/2012 6:46	62.8
8/5/2012 1:01	59.3	9/5/2012 2:11	58.5	10/5/2012 3:21	60.4	11/5/2012 4:31	58.9	12/5/2012 5:41	61.3	13/5/2012 6:51	62.5
8/5/2012 1:06	59.3	9/5/2012 2:16	59.3	10/5/2012 3:26	60.2	11/5/2012 4:36	59.3	12/5/2012 5:46	61.3	13/5/2012 6:56	62.4
8/5/2012 1:11	59.3	9/5/2012 2:21	58.1	10/5/2012 3:31	60.0	11/5/2012 4:41	59.0	12/5/2012 5:51	61.4	13/5/2012 7:01	62.9
8/5/2012 1:16	59.1	9/5/2012 2:26	59.5	10/5/2012 3:36	60.0	11/5/2012 4:46	59.4	12/5/2012 5:56	61.0	13/5/2012 7:06	63.6
8/5/2012 1:21	60.6	9/5/2012 2:31	59.2	10/5/2012 3:41	59.9	11/5/2012 4:51	59.7	12/5/2012 6:01	61.9	13/5/2012 7:11	63.5
8/5/2012 1:26	59.3	9/5/2012 2:36	59.0	10/5/2012 3:46	60.5	11/5/2012 4:56	59.8	12/5/2012 6:06	62.2	13/5/2012 7:16	63.6
8/5/2012 1:31	58.5	9/5/2012 2:41	59.2	10/5/2012 3:51	60.1	11/5/2012 5:01	58.9	12/5/2012 6:11	62.2	13/5/2012 7:21	63.3
8/5/2012 1:36	59.3	9/5/2012 2:46	58.9	10/5/2012 3:56	60.0	11/5/2012 5:06	59.5	12/5/2012 6:16	63.3	13/5/2012 7:26	62.7
8/5/2012 1:41	58.4	9/5/2012 2:51	58.6	10/5/2012 4:01	59.7	11/5/2012 5:11	58.6	12/5/2012 6:21	62.3	13/5/2012 7:31	63.8
8/5/2012 1:46	59.1	9/5/2012 2:56	58.1	10/5/2012 4:06	59.7	11/5/2012 5:16	60.6	12/5/2012 6:26	63.7	13/5/2012 7:36	62.9
8/5/2012 1:51	58.1	9/5/2012 3:01	58.1	10/5/2012 4:11	60.9	11/5/2012 5:21	59.8	12/5/2012 6:31	63.8	13/5/2012 7:41	61.9
8/5/2012 1:56	58.0	9/5/2012 3:06	60.0	10/5/2012 4:16	60.0	11/5/2012 5:26	59.6	12/5/2012 6:36	63.6	13/5/2012 7:46	62.8
8/5/2012 2:01	57.6	9/5/2012 3:11	58.5	10/5/2012 4:21	60.6	11/5/2012 5:31	59.6	12/5/2012 6:41	64.5	13/5/2012 7:51	62.7
8/5/2012 2:06	59.5	9/5/2012 3:16	59.2	10/5/2012 4:26	60.0	11/5/2012 5:36	60.0	12/5/2012 6:46	64.6	13/5/2012 7:56	62.3
8/5/2012 2:11	57.9	9/5/2012 3:21	57.9	10/5/2012 4:31	62.3	11/5/2012 5:41	60.6	12/5/2012 6:51	64.7	14/5/2012 0:01	62.6
8/5/2012 2:16	58.0	9/5/2012 3:26	58.1	10/5/2012 4:36	60.7	11/5/2012 5:46	60.2	12/5/2012 6:56	64.9	14/5/2012 0:06	62.8
8/5/2012 2:21	58.4	9/5/2012 3:31	58.1	10/5/2012 4:41	59.9	11/5/2012 5:51	60.6	12/5/2012 7:01	63.8	14/5/2012 0:11	62.6
8/5/2012 2:26	58.3	9/5/2012 3:36	57.7	10/5/2012 4:46	60.2	11/5/2012 5:56	60.3	12/5/2012 7:06	64.5	14/5/2012 0:16	62.7
8/5/2012 2:31	57.9	9/5/2012 3:41	58.1	10/5/2012 4:51	60.3	11/5/2012 6:01	60.5	12/5/2012 7:11	63.5	14/5/2012 0:21	62.1
8/5/2012 2:36	57.5	9/5/2012 3:46	58.7	10/5/2012 4:56	59.8	11/5/2012 6:06	61.5	12/5/2012 7:16	64.0	14/5/2012 0:26	62.3
8/5/2012 2:41	57.3	9/5/2012 3:51	58.7	10/5/2012 5:01	60.8	11/5/2012 6:11	60.9	12/5/2012 7:21	63.1	14/5/2012 0:31	62.1
8/5/2012 2:46	58.1	9/5/2012 3:56	59.7	10/5/2012 5:06	60.0	11/5/2012 6:16	61.5	12/5/2012 7:26	62.9	14/5/2012 0:36	62.3
8/5/2012 2:51	60.7	9/5/2012 4:01	59.8	10/5/2012 5:11	60.2	11/5/2012 6:21	62.5	12/5/2012 7:31	63.4	14/5/2012 0:41	62.6
8/5/2012 2:56	57.3	9/5/2012 4:06	59.4	10/5/2012 5:16	60.9	11/5/2012 6:26	61.2	12/5/2012 7:36	63.3	14/5/2012 0:46	63.7
8/5/2012 3:01	58.1	9/5/2012 4:11	59.5	10/5/2012 5:21	60.6	11/5/2012 6:31	61.5	12/5/2012 7:41	63.1	14/5/2012 0:51	61.8
8/5/2012 3:06	58.1	9/5/2012 4:16	58.2	10/5/2012 5:26	60.3	11/5/2012 6:36	61.7	12/5/2012 7:46	62.7	14/5/2012 0:56	61.6
8/5/2012 3:11	56.5	9/5/2012 4:21	58.8	10/5/2012 5:31	61.2	11/5/2012 6:41	63.0	12/5/2012 7:51	63.4	14/5/2012 1:01	61.4
8/5/2012 3:16	57.4	9/5/2012 4:26	58.4	10/5/2012 5:36	59.6	11/5/2012 6:46	61.8	12/5/2012 7:56	63.3	14/5/2012 1:06	60.7
8/5/2012 3:21	57.6	9/5/2012 4:31	58.6	10/5/2012 5:41	60.3	11/5/2012 6:51	61.5	13/5/2012 0:01	62.5	14/5/2012 1:11	61.0
8/5/2012 3:26	57.3	9/5/2012 4:36	58.8	10/5/2012 5:46	61.6	11/5/2012 6:56	62.2	13/5/2012 0:06	62.9	14/5/2012 1:16	60.7
8/5/2012 3:31	57.1	9/5/2012 4:41	58.5	10/5/2012 5:51	61.8	11/5/2012 7:01	62.7	13/5/2012 0:11	62.9	14/5/2012 1:21	60.2
8/5/2012 3:36	57.1	9/5/2012 4:46	60.7	10/5/2012 5:56	61.4	11/5/2012 7:06	62.4	13/5/2012 0:16	62.8	14/5/2012 1:26	60.7
8/5/2012 3:41	57.7	9/5/2012 4:51	58.9	10/5/2012 6:01	60.7	11/5/2012 7:11	62.6	13/5/2012 0:21	62.7	14/5/2012 1:31	60.4
8/5/2012 3:46	57.5	9/5/2012 4:56	60.3	10/5/2012 6:06	61.6	11/5/2012 7:16	63.1	13/5/2012 0:26	62.9	14/5/2012 1:36	59.8
8/5/2012 3:51	57.2	9/5/2012 5:01	58.5	10/5/2012 6:11	62.0	11/5/2012 7:21	62.8	13/5/2012 0:31	63.2	14/5/2012 1:41	60.8
8/5/2012 3:56	57.7	9/5/2012 5:06	61.2	10/5/2012 6:16	61.3	11/5/2012 7:26	62.6	13/5/2012 0:36	63.3	14/5/2012 1:46	60.9
8/5/2012 4:01	57.6	9/5/2012 5:11	59.8	10/5/2012 6:21	61.8	11/5/2012 7:31	62.0	13/5/2012 0:41	63.2	14/5/2012 1:51	60.2
8/5/2012 4:06	57.6	9/5/2012 5:16	60.0	10/5/2012 6:26	62.5	11/5/2012 7:36	61.9	13/5/2012 0:46	62.4	14/5/2012 1:56	60.5
8/5/2012 4:11	56.6	9/5/2012 5:21	60.3	10/5/2012 6:31	62.0	11/5/2012 7:41	62.7	13/5/2012 0:51	63.1	14/5/2012 2:01	59.6
8/5/2012 4:16	57.6	9/5/2012 5:26	60.0	10/5/2012 6:36	62.7	11/5/2012 7:46	62.3	13/5/2012 0:56	63.6	14/5/2012 2:06	59.3
8/5/2012 4:21	57.3	9/5/2012 5:31	60.3	10/5/2012 6:41	62.7	11/5/2012 7:51	62.9	13/5/2012 1:01	62.1	14/5/2012 2:11	59.5
8/5/2012 4:26	57.5	9/5/2012 5:36	61.6	10/5/2012 6:46	62.8	11/5/2012 7:56	62.4	13/5/2012 1:06	62.0	14/5/2012 2:16	59.6
8/5/2012 4:31	57.2	9/5/2012 5:41	61.6	10/5/2012 6:51	63.4	12/5/2012 0:01	63.3	13/5/2012 1:11	61.4	14/5/2012 2:21	59.1
8/5/2012 4:36	58.1	9/5/2012 5:46	61.4	10/5/2012 6:56	62.9	12/5/2012 0:06	63.5	13/5/2012 1:16	61.4	14/5/2012 2:26	59.6
8/5/2012 4:41	58.0	9/5/2012 5:51	62.0	10/5/2012 7:01	63.0	12/5/2012 0:11	62.9	13/5/2012 1:21	61.5	14/5/2012 2:31	59.3
8/5/2012 4:46	58.5	9/5/2012 5:56	61.8	10/5/2012 7:06	62.8	12/5/2012 0:16	61.8	13/5/2012 1:26	61.4	14/5/2012 2:36	59.7
8/5/2012 4:51	57.4	9/5/2012 6:01	62.2	10/5/2012 7:11	62.5	12/5/2012 0:21	62.6	13/5/2012 1:31	61.1	14/5/2012 2:41	58.9
8/5/2012 4:56	57.8	9/5/2012 6:06	62.5	10/5/2012 7:16	64.5	12/5/2012 0:26	62.3	13/5/2012 1:36	61.2	14/5/2012 2:46	59.5
8/5/2012 5:01	57.4	9/5/2012 6:11	61.8	10/5/2012 7:21	63.0	12/5/2012 0:31	62.6	13/5/2012 1:41	61.1	14/5/2012 2:51	59.2
8/5/2012 5:06	58.1	9/5/2012 6:16	63.1	10/5/2012 7:26	63.3	12/5/2012 0:36	63.9	13/5/2012 1:46	60.8	14/5/2012 2:56	59.2
8/5/2012 5:11	58.5	9/5/2012 6:21	63.6	10/5/2012 7:31	62.3	12/5/2012 0:41	61.7	13/5/2012 1:51	61.5	14/5/2012 3:01	57.8
8/5/2012 5:16	58.5	9/5/2012 6:26	63.5	10/5/2012 7:36	62.8	12/5/2012 0:46	61.6	13/5/2012 1:56	61.1	14	

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

14/5/2012 6:21	62.1	15/5/2012 23:31	62.6	17/5/2012 0:41	60.8	18/5/2012 1:51	60.0	19/5/2012 3:01	58.2	20/5/2012 4:11	57.8
14/5/2012 6:26	62.8	15/5/2012 23:36	63.2	17/5/2012 0:46	60.2	18/5/2012 1:56	59.9	19/5/2012 3:06	59.3	20/5/2012 4:16	58.5
14/5/2012 6:31	62.9	15/5/2012 23:41	63.2	17/5/2012 0:51	59.7	18/5/2012 2:01	59.6	19/5/2012 3:11	57.6	20/5/2012 4:21	58.5
14/5/2012 6:36	63.1	15/5/2012 23:46	63.1	17/5/2012 0:56	59.5	18/5/2012 2:06	59.4	19/5/2012 3:16	57.9	20/5/2012 4:26	58.5
14/5/2012 6:41	63.5	15/5/2012 23:51	63.1	17/5/2012 1:01	60.0	18/5/2012 2:11	59.3	19/5/2012 3:21	58.2	20/5/2012 4:31	59.4
14/5/2012 6:46	64.6	15/5/2012 23:56	63.4	17/5/2012 1:06	59.7	18/5/2012 2:16	59.5	19/5/2012 3:26	57.9	20/5/2012 4:36	58.9
14/5/2012 6:51	63.8	16/5/2012 0:01	62.9	17/5/2012 1:11	59.6	18/5/2012 2:21	59.3	19/5/2012 3:31	57.8	20/5/2012 4:41	58.6
14/5/2012 6:56	64.1	16/5/2012 0:06	63.0	17/5/2012 1:16	59.5	18/5/2012 2:26	59.6	19/5/2012 3:36	58.2	20/5/2012 4:46	59.4
14/5/2012 23:01	63.4	16/5/2012 0:11	62.8	17/5/2012 1:21	59.5	18/5/2012 2:31	59.5	19/5/2012 3:41	58.4	20/5/2012 4:51	58.5
14/5/2012 23:06	62.9	16/5/2012 0:16	62.2	17/5/2012 1:26	59.4	18/5/2012 2:36	59.4	19/5/2012 3:46	58.3	20/5/2012 4:56	59.4
14/5/2012 23:11	63.7	16/5/2012 0:21	62.2	17/5/2012 1:31	59.3	18/5/2012 2:41	59.1	19/5/2012 3:51	58.3	20/5/2012 5:01	58.5
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15/5/2012 3:21	59.9	16/5/2012 4:31	59.8	17/5/2012 5:41	60.0	18/5/2012 6:51	63.9	19/5/2012 8:01	62.4	21/5/2012 1:11	58.6
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15/5/2012 3:31	60.1	16/5/2012 4:41	59.0	17/5/2012 5:51	60.3	18/5/2012 7:01	64.2	19/5/2012 8:11	62.1	21/5/2012 1:21	59.1
15/5/2012 3:36	60.4	16/5/2012 4:46	59.4	17/5/2012 5:56	60.3	18/5/2012 7:06	64.1	19/5/2012 8:16	61.8	21/5/2012 1:26	58.8
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15/5/2012 3:51	60.1	16/5/2012 5:01	59.3	17/5/2012 6:11	61.2	18/5/2012 7:21	64.3	19/5/2012 8:31	61.4	21/5/2012 1:41	58.7
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15/5/2012 4:06	60.0	16/5/2012 5:16	59.9	17/5/2012 6:26	62.5	18/5/2012 7:36	63.9	19/5/2012 8:46	61.0	21/5/2012 1:56	57.6
15/5/2012 4:11	60.0	16/5/2012 5:21	59.5	17/5/2012 6:31	62.0	18/5/2012 7:41	63.7	19/5/2012 8:51	60.8	21/5/2012 2:01	58

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

21/5/2012 5:21	58.3	22/5/2012 6:31	61.4	23/5/2012 23:41	63.1	24/5/2012 0:51	60.9	25/5/2012 2:01	59.2	26/5/2012 3:11	58.9
21/5/2012 5:26	58.8	22/5/2012 6:36	62.4	23/5/2012 23:46	63.1	24/5/2012 0:56	60.6	25/5/2012 2:06	59.1	26/5/2012 3:16	59.1
21/5/2012 5:31	59.2	22/5/2012 6:41	62.9	23/5/2012 23:51	62.9	24/5/2012 1:01	61.0	25/5/2012 2:11	58.7	26/5/2012 3:21	59.1
21/5/2012 5:36	59.2	22/5/2012 6:46	64.4	23/5/2012 23:56	62.8	24/5/2012 1:06	60.3	25/5/2012 2:16	58.9	26/5/2012 3:26	58.9
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21/5/2012 6:06	60.5	22/5/2012 23:16	63.8	24/5/2012 0:26	62.3	24/5/2012 1:36	60.0	25/5/2012 2:46	58.4	26/5/2012 3:56	58.9
21/5/2012 6:11	60.6	22/5/2012 23:21	63.9	24/5/2012 0:31	60.0	24/5/2012 1:41	59.7	25/5/2012 2:51	58.3	26/5/2012 4:01	59.2
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22/5/2012 0:41	60.6	23/5/2012 1:51	59.8	24/5/2012 3:01	56.4	24/5/2012 4:11	58.0	25/5/2012 5:21	58.6	26/5/2012 6:31	59.9
22/5/2012 0:46	60.1	23/5/2012 1:56	60.8	24/5/2012 3:06	56.7	24/5/2012 4:16	58.2	25/5/2012 5:26	59.0	26/5/2012 6:36	60.6
22/5/2012 0:51	60.1	23/5/2012 2:01	60.2	24/5/2012 3:11	57.8	24/5/2012 4:21	58.4	25/5/2012 5:31	59.2	26/5/2012 6:41	61.0
22/5/2012 0:56	60.2	23/5/2012 2:06	60.4	24/5/2012 3:16	57.1	24/5/2012 4:26	58.2	25/5/2012 5:36	59.3	26/5/2012 6:46	60.6
22/5/2012 1:01	59.6	23/5/2012 2:11	59.5	24/5/2012 3:21	58.4	24/5/2012 4:31	58.1	25/5/2012 5:41	59.6	26/5/2012 6:51	61.2
22/5/2012 1:06	59.6	23/5/2012 2:16	59.5	24/5/2012 3:26	56.7	24/5/2012 4:36	57.8	25/5/2012 5:46	58.9	26/5/2012 6:56	60.9
22/5/2012 1:11	60.1	23/5/2012 2:21	59.3	24/5/2012 3:31	56.9	24/5/2012 4:41	58.5	25/5/2012 5:51	60.3	26/5/2012 7:01	61.8
22/5/2012 1:16	59.9	23/5/2012 2:26	59.2	24/5/2012 3:36	57.4	24/5/2012 4:46	58.4	25/5/2012 5:56	60.8	26/5/2012 7:06	61.0
22/5/2012 1:21	60.0	23/5/2012 2:31	59.4	24/5/2012 3:41	57.6	24/5/2012 4:51	63.5	25/5/2012 6:01	60.2	26/5/2012 7:11	60.9
22/5/2012 1:26	59.2	23/5/2012 2:36	60.0	24/5/2012 3:46	57.5	24/5/2012 4:56	60.4	25/5/2012 6:06	60.4	26/5/2012 7:16	61.5
22/5/2012 1:31	58.8	23/5/2012 2:41	59.5	24/5/2012 3:51	57.2	24/5/2012 5:01	58.9	25/5/2012 6:11	60.7	26/5/2012 7:21	61.5
22/5/2012 1:36	59.4	23/5/2012 2:46	60.0	24/5/2012 3:56	56.7	24/5/2012 5:06	58.4	25/5/2012 6:16	61.2	26/5/2012 7:26	61.9
22/5/2012 1:41	59.7	23/5/2012 2:51	59.2	24/5/2012 4:01	57.8	24/5/2012 5:11	58.4	25/5/2012 6:21	61.6	26/5/2012 7:31	61.1
22/5/2012 1:46	58.4	23/5/2012 2:56	59.2	24/5/2012 4:06	57.6	24/5/2012 5:16	58.8	25/5/2012 6:26	61.8	26/5/2012 7:36	60.9
22/5/2012 1:51	59.5	23/5/2012 3:01	59.4	24/5/2012 4:11	57.7	24/5/2012 5:21	58.8	25/5/2012 6:31	62.1	26/5/2012 7:41	60.8
22/5/2012 1:56	58.7	23/5/2012 3:06	58.6	24/5/2012 4:16	57.2	24/5/2012 5:26	59.1	25/5/2012 6:36	62.6	26/5/2012 7:46	61.1
22/5/2012 2:01	59.4	23/5/2012 3:11	58.8	24/5/2012 4:21	57.6	24/5/2012 5:31	59.3	25/5/2012 6:41	62.9	26/5/2012 7:51	60.8
22/5/2012 2:06	58.5	23/5/2012 3:16	59.1	24/5/2012 4:26	57.3	24/5/2012 5:36	59.6	25/5/2012 6:46	63.6	26/5/2012 7:56	60.8
22/5/2012 2:11	59.1	23/5/2012 3:21	59.1	24/5/2012 4:31	56.6	24/5/2012 5:41	60.0	25/5/2012 6:51	63.1	26/5/2012 8:01	61.6
22/5/2012 2:16	58.2	23/5/2012 3:26	59.7	24/5/2012 4:36	56.8	24/5/2012 5:46	60.1	25/5/2012 6:56	63.8	26/5/2012 8:06	63.0
22/5/2012 2:21	58.2	23/5/2012 3:31	58.3	24/5/2012 4:41	58.6	24/5/2012 5:51	60.5	25/5/2012 7:01	61.6	26/5/2012 8:11	60.6
22/5/2012 2:26	58.3	23/5/2012 3:36	57.8	24/5/2012 4:46	57.5	24/5/2012 5:56	60.4	25/5/2012 7:06	61.5	26/5/2012 8:16	61.5
22/5/2012 2:31	58.4	23/5/2012 3:41	58.2	24/5/2012 4:51	57.9	24/5/2012 6:01	61.0	25/5/2012 7:11	63.2	26/5/2012 8:21	60.9
22/5/2012 2:36	59.0	23/5/2012 3:46	59.6	24/5/2012 4:56	57.3	24/5/2012 6:06	60.7	25/5/2012 7:16	61.9	26/5/2012 8:26	62.1
22/5/2012 2:41	58.4	23/5/2012 3:51	58.7	24/5/2012 5:01	58.1	24/5/2012 6:11	61.0	25/5/2012 7:21	61.2	26/5/2012 8:31	61.1
22/5/2012 2:46	58.1	23/5/2012 3:56	59.1	24/5/2012 5:06	57.3	24/5/2012 6:16	61.5	25/5/2012 7:26	61.3	26/5/2012 8:36	61.3
22/5/2012 2:51	58.8	23/5/2012 4:01	58.7	24/5/2012 5:11	57.6	24/5/2012 6:21	61.8	25/5/2012 7:31	61.3	26/5/2012 8:41	61.3
22/5/2012 2:56	57.8	23/5/2012 4:06	59.4	24/5/2012 5:16	58.0	24/5/2012 6:26	62.2	25/5/2012 7:36	60.9	26/5/2012 8:46	60.9
22/5/2012 3:01	57.6	23/5/2012 4:11	57.9	24/5/2012 5:21	58.3	24/5/2012 6:31	62.3	25/5/2012 7:41	61.0	26/5/2012 8:51	61.0
22/5/2012 3:06	58.2	23/5/2012 4:16	59.2	24/5/2012 5:26	58.1	24/5/2012 6:36	62.6	25/5/2012 7:46	61.3	26/5/2012 8:56	61.3
22/5/2012 3:11	59.0	23/5/2012 4:21	59.4	24/5/2012 5:31	58.6	24/5/2012 6:41	63.1	25/5/2012 7:51	61.9	26/5/2012 9	

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

Normal Day 07:00-19:00	5/5/2012 13:31 64.9	11/5/2012 8:31 64.9	16/5/2012 15:31 65.9	22/5/2012 10:31 71.5	26/5/2012 17:31 68.1
30/4/2012 7:01 63.9	5/5/2012 14:01 66.0	11/5/2012 9:01 64.8	16/5/2012 16:01 66.4	22/5/2012 11:01 71.8	26/5/2012 18:01 64.8
30/4/2012 7:31 64.8	5/5/2012 14:31 66.8	11/5/2012 9:31 66.2	16/5/2012 16:31 66.2	22/5/2012 11:31 71.1	26/5/2012 18:31 72.9
30/4/2012 8:01 67.1	5/5/2012 15:01 64.6	11/5/2012 10:01 65.1	16/5/2012 17:01 67.4	22/5/2012 12:01 69.9	
30/4/2012 8:31 68.4	5/5/2012 15:31 62.8	11/5/2012 10:31 65.8	16/5/2012 17:31 67.6	22/5/2012 12:31 70.2	
30/4/2012 9:01 68.6	5/5/2012 16:01 63.3	11/5/2012 11:01 64.8	16/5/2012 18:01 66.3	22/5/2012 13:01 70.1	
30/4/2012 9:31 67.4	5/5/2012 16:31 64.4	11/5/2012 11:31 65.0	16/5/2012 18:31 66.0	22/5/2012 13:31 67.1	
30/4/2012 10:01 67.0	5/5/2012 17:01 66.0	11/5/2012 12:01 62.8	17/5/2012 7:01 63.6	22/5/2012 14:01 71.3	
30/4/2012 10:31 67.6	5/5/2012 17:31 69.8	11/5/2012 12:31 61.5	17/5/2012 7:31 63.9	22/5/2012 14:31 66.2	
30/4/2012 11:01 66.7	5/5/2012 18:01 68.1	11/5/2012 13:01 65.4	17/5/2012 8:01 63.8	22/5/2012 15:01 67.2	
30/4/2012 11:31 66.8	5/5/2012 18:31 67.6	11/5/2012 13:31 64.8	17/5/2012 8:31 66.6	22/5/2012 15:31 67.0	
30/4/2012 12:01 63.5	7/5/2012 7:01 63.0	11/5/2012 14:01 63.1	17/5/2012 9:01 67.5	22/5/2012 16:01 67.9	
30/4/2012 12:31 65.6	7/5/2012 7:31 62.9	11/5/2012 14:31 63.3	17/5/2012 9:31 67.3	22/5/2012 16:31 67.9	
30/4/2012 13:01 70.6	7/5/2012 8:01 65.1	11/5/2012 15:01 62.9	17/5/2012 10:01 66.8	22/5/2012 17:01 68.2	
30/4/2012 13:31 65.8	7/5/2012 8:31 64.6	11/5/2012 15:31 64.3	17/5/2012 10:31 66.5	22/5/2012 17:31 67.4	
30/4/2012 14:01 66.8	7/5/2012 9:01 67.8	11/5/2012 16:01 70.6	17/5/2012 11:01 66.6	22/5/2012 18:01 69.0	
30/4/2012 14:31 68.4	7/5/2012 9:31 64.7	11/5/2012 16:31 65.1	17/5/2012 11:31 67.4	22/5/2012 18:31 69.4	
30/4/2012 15:01 66.8	7/5/2012 10:01 69.6	11/5/2012 17:01 64.7	17/5/2012 12:01 64.6	23/5/2012 7:01 57.5	
30/4/2012 15:31 67.5	7/5/2012 10:31 68.7	11/5/2012 17:31 65.6	17/5/2012 12:31 65.1	23/5/2012 7:31 59.9	
30/4/2012 16:01 68.5	7/5/2012 11:01 69.0	11/5/2012 18:01 65.0	17/5/2012 13:01 65.1	23/5/2012 8:01 60.5	
30/4/2012 16:31 68.5	7/5/2012 11:31 66.5	11/5/2012 18:31 61.8	17/5/2012 13:31 68.3	23/5/2012 8:31 62.5	
30/4/2012 17:01 66.8	7/5/2012 12:01 66.7	12/5/2012 7:01 62.1	17/5/2012 14:01 69.4	23/5/2012 9:01 64.6	
30/4/2012 17:31 66.1	7/5/2012 12:31 65.0	12/5/2012 7:31 65.9	17/5/2012 14:31 69.2	23/5/2012 9:31 66.4	
30/4/2012 18:01 65.2	7/5/2012 13:01 64.2	12/5/2012 8:01 64.0	17/5/2012 15:01 68.7	23/5/2012 10:01 68.7	
30/4/2012 18:31 65.0	7/5/2012 13:31 69.3	12/5/2012 8:31 64.6	17/5/2012 15:31 69.7	23/5/2012 10:31 67.2	
2/5/2012 7:01 63.0	7/5/2012 14:01 68.6	12/5/2012 9:01 65.0	17/5/2012 16:01 68.5	23/5/2012 11:01 68.6	
2/5/2012 7:31 63.3	7/5/2012 14:31 66.6	12/5/2012 9:31 68.0	17/5/2012 16:31 68.6	23/5/2012 11:31 69.2	
2/5/2012 8:01 65.1	7/5/2012 15:01 67.2	12/5/2012 10:01 65.9	17/5/2012 17:01 69.5	23/5/2012 12:01 68.8	
2/5/2012 8:31 65.0	7/5/2012 15:31 68.0	12/5/2012 10:31 65.1	17/5/2012 17:31 69.1	23/5/2012 12:31 69.0	
2/5/2012 9:01 67.2	7/5/2012 16:01 68.4	12/5/2012 11:01 64.5	17/5/2012 18:01 66.1	23/5/2012 13:01 69.1	
2/5/2012 9:31 66.9	7/5/2012 16:31 69.0	12/5/2012 11:31 64.8	17/5/2012 18:31 64.5	23/5/2012 13:31 68.5	
2/5/2012 10:01 66.7	7/5/2012 17:01 71.0	12/5/2012 12:01 65.0	18/5/2012 7:01 63.7	23/5/2012 14:01 67.5	
2/5/2012 10:31 65.9	7/5/2012 17:31 68.3	12/5/2012 12:31 66.2	18/5/2012 7:31 62.4	23/5/2012 14:31 69.5	
2/5/2012 11:01 68.9	7/5/2012 18:01 63.4	12/5/2012 13:01 66.3	18/5/2012 8:01 65.1	23/5/2012 15:01 72.5	
2/5/2012 11:31 66.8	7/5/2012 18:31 63.5	12/5/2012 13:31 66.9	18/5/2012 8:31 71.2	23/5/2012 15:31 72.7	
2/5/2012 12:01 64.0	8/5/2012 7:01 62.8	12/5/2012 14:01 66.5	18/5/2012 9:01 69.1	23/5/2012 16:01 68.3	
2/5/2012 12:31 64.3	8/5/2012 7:31 61.9	12/5/2012 14:31 64.5	18/5/2012 9:31 75.5	23/5/2012 16:31 71.5	
2/5/2012 13:01 63.7	8/5/2012 8:01 63.0	12/5/2012 15:01 68.6	18/5/2012 10:01 71.5	23/5/2012 17:01 69.7	
2/5/2012 13:31 66.6	8/5/2012 8:31 67.3	12/5/2012 15:31 65.9	18/5/2012 10:31 69.7	23/5/2012 17:31 69.1	
2/5/2012 14:01 66.6	8/5/2012 9:01 64.4	12/5/2012 16:01 67.1	18/5/2012 11:01 74.2	23/5/2012 18:01 70.0	
2/5/2012 14:31 67.0	8/5/2012 9:31 64.3	12/5/2012 16:31 67.2	18/5/2012 11:31 68.8	23/5/2012 18:31 67.3	
2/5/2012 15:01 69.7	8/5/2012 10:01 64.2	12/5/2012 17:01 67.6	18/5/2012 12:01 64.6	24/5/2012 7:01 64.4	
2/5/2012 15:31 66.7	8/5/2012 10:31 67.1	12/5/2012 17:31 65.7	18/5/2012 12:31 64.5	24/5/2012 7:31 64.7	
2/5/2012 16:01 66.6	8/5/2012 11:01 65.9	12/5/2012 18:01 63.4	18/5/2012 13:01 64.1	24/5/2012 8:01 63.3	
2/5/2012 16:31 67.0	8/5/2012 11:31 67.9	12/5/2012 18:31 64.3	18/5/2012 13:31 71.4	24/5/2012 8:31 64.8	
2/5/2012 17:01 66.2	8/5/2012 12:01 65.1	14/5/2012 7:01 58.1	18/5/2012 14:01 70.7	24/5/2012 9:01 64.1	
2/5/2012 17:31 66.1	8/5/2012 12:31 64.3	14/5/2012 7:31 57.2	18/5/2012 14:31 71.8	24/5/2012 9:31 65.0	
2/5/2012 18:01 65.4	8/5/2012 13:01 62.8	14/5/2012 8:01 59.9	18/5/2012 15:01 71.5	24/5/2012 10:01 64.2	
2/5/2012 18:31 64.8	8/5/2012 13:31 62.0	14/5/2012 8:31 64.9	18/5/2012 15:31 71.6	24/5/2012 10:31 64.3	
3/5/2012 7:01 63.3	8/5/2012 14:01 64.6	14/5/2012 9:01 59.6	18/5/2012 16:01 71.4	24/5/2012 11:01 64.4	
3/5/2012 7:31 62.7	8/5/2012 14:31 65.6	14/5/2012 9:31 60.4	18/5/2012 16:31 73.4	24/5/2012 11:31 67.4	
3/5/2012 8:01 64.5	8/5/2012 15:01 67.6	14/5/2012 10:01 63.9	18/5/2012 17:01 72.6	24/5/2012 12:01 67.4	
3/5/2012 8:31 67.2	8/5/2012 15:31 66.4	14/5/2012 10:31 61.9	18/5/2012 17:31 72.3	24/5/2012 12:31 65.9	
3/5/2012 9:01 67.4	8/5/2012 16:01 66.2	14/5/2012 11:01 62.6	18/5/2012 18:01 66.9	24/5/2012 13:01 64.3	
3/5/2012 9:31 68.2	8/5/2012 16:31 64.9	14/5/2012 11:31 66.0	18/5/2012 18:31 64.2	24/5/2012 13:31 64.6	
3/5/2012 10:01 66.4	8/5/2012 17:01 65.9	14/5/2012 12:01 65.0	19/5/2012 7:01 64.1	24/5/2012 14:01 65.6	
3/5/2012 10:31 66.8	8/5/2012 17:31 65.9	14/5/2012 12:31 63.8	19/5/2012 7:31 65.6	24/5/2012 14:31 66.1	
3/5/2012 11:01 65.9	8/5/2012 18:01 67.2	14/5/2012 13:01 65.3	19/5/2012 8:01 66.1	24/5/2012 15:01 66.1	
3/5/2012 11:31 66.6	8/5/2012 18:31 68.0	14/5/2012 13:31 67.9	19/5/2012 8:31 69.7	24/5/2012 15:31 65.8	
3/5/2012 12:01 65.2	9/5/2012 7:01 61.3	14/5/2012 14:01 64.4	19/5/2012 9:01 76.2	24/5/2012 16:01 70.1	
3/5/2012 12:31 64.4	9/5/2012 7:31 62.8	14/5/2012 14:31 61.8	19/5/2012 9:31 73.3	24/5/2012 16:31 75.1	
3/5/2012 13:01 65.9	9/5/2012 8:01 63.7	14/5/2012 15:01 63.5	19/5/2012 10:01 72.5	24/5/2012 17:01 70.1	
3/5/2012 13:31 67.7	9/5/2012 8:31 65.2	14/5/2012 15:31 62.9	19/5/2012 10:31 73.3	24/5/2012 17:31 75.9	
3/5/2012 14:01 67.7	9/5/2012 9:01 63.3	14/5/2012 16:01 65.8	19/5/2012 11:01 73.1	24/5/2012 18:01 65.8	
3/5/2012 14:31 66.3	9/5/2012 9:31 64.9	14/5/2012 16:31 68.7	19/5/2012 11:31 69.9	24/5/2012 18:31 65.4	
3/5/2012 15:01 67.4	9/5/2012 10:01 67.7	14/5/2012 17:01 67.0	19/5/2012 12:01 65.8	25/5/2012 7:01 63.4	
3/5/2012 15:31 68.1	9/5/2012 10:31 67.9	14/5/2012 17:31 66.3	19/5/2012 12:31 67.0	25/5/2012 7:31 61.9	
3/5/2012 16:01 66.5	9/5/2012 11:01 68.5	14/5/2012 18:01 65.8	19/5/2012 13:01 65.2	25/5/2012 8:01 64.4	
3/5/2012 16:31 68.3	9/5/2012 11:31 67.0	14/5/2012 18:31 66.1	19/5/2012 13:31 68.3	25/5/2012 8:31 73.0	
3/5/2012 17:01 67.1	9/5/2012 12:01 66.1	15/5/2012 7:01 63.8	19/5/2012 14:01 75.3	25/5/2012 9:01 74.7	
3/5/2012 17:31 67.1	9/5/2012 12:31 64.2	15/5/2012 7:31 64.8	19/5/2012 14:31 73.6	25/5/2012 9:31 71.9	
3/5/2012 18:01 67.8	9/5/2012 13:01 64.6	15/5/2012 8:01 63.0	19/5/2012 15:01 74.6	25/5/2012 10:01 73.3	
3/5/2012 18:31 65.3	9/5/2012 13:31 66.3	15/5/2012 8:31 65.9	19/5/2012 15:31 76.4	25/5/2012 10:31 74.5	
4/5/2012 7:01 64.6	9/5/2012 14:01 64.8	15/5/2012 9:01 68.6	19/5/2012 16:01 70.9	25/5/2012 11:01 75.4	
4/5/2012 7:31 64.8	9/5/2012 14:31 64.6	15/5/2012 9:31 67.9	19/5/2012 16:31 74.9	25/5/2012 11:31 74.7	
4/5/2012 8:01 64.2	9/5/2012 15:01 65.4	15/5/2012 10:01 66.1	19/5/2012 17:01 69.0	25/5/2012 12:01 64.4	
4/5/2012 8:31 68.3	9/5/2012 15:31 65.8	15/5/2012 10:31 65.9	19/5/2012 17:31 70.2	25/5/2012 12:31 63.2	
4/5/2012 9:01 67.6	9/5/2012 16:01 66.1	15/5/2012 11:01 67.1	19/5/2012 18:01 64.4	25/5/2012 13:01 65.6	
4/5/2012 9:31 66.3	9/5/2012 16:31 67.8	15/5/2012 11:31 68.9	19/5/2012 18:31 63.2	25/5/2012 13:31 73.8	
4/5/2012 10:01 67.6	9/5/2012 17:01 69.4	15/5/2012 12:01 63.8	21/5/2012 7:01 63.9	25/5/2012 14:01 68.5	
4/5/2012 10:31 67.2	9/5/2012 17:31 68.9	15/5/2012 12:31 64.4	21/5/2012 7:31 63.1	25/5/2012 14:31 71.5	
4/5/2012 11:01 66.8	9/5/2012 18:01 66.0	15/5/2012 13:01 64.0	21/5/2012 8:01 66.3	25/5/2012 15:01 72.2	
4/5/2012 11:31 67.2	9/5/2012 18:31 65.7	15/5/2012 13:31 67.7	21/5/2012 8:31 67.8	25/5/2012 15:31 73.6	
4/5/2012 12:01 64.4	10/5/2012 7:01 63.8	15/5/2012 14:01 68.0	21/5/2012 9:01 68.5	25/5/2012 16:01 72.3	
4/5/2012 12:31 65.7	10/5/2012 7:31 64.8	15/5/2012 14:31 68.6	21/5/2012 9:31 70.6	25/5/2012 16:31 72.6	
4/5/2012 13:01 65.2	10/5/2012 8:01 63.0	15/5/2012 15:01 63.9	21/5/2012 10:01 74.7	25/5/2012 17:01 74.7	
4/5/2012 13:31 67.4	10/5/2012 8:31 65.9	15/5/2012 15:31 66.3	21/5/2012 10:31 71.2	25/5/2012 17:31 71.3	
4/5/2012 14:01 66.8	10/5/2012 9:01 68.6	15/5/2012 16:01 67.3	21/5/2012 11:01 70.6	25/5/2012 18:01 65.6	

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

28/4/2012 15:46	64.8	29/4/2012 8:56	63.7	29/4/2012 18:06	62.9	1/5/2012 7:16	61.5	1/5/2012 16:26	64.6	2/5/2012 21:36	61.9
28/4/2012 15:51	64.4	29/4/2012 9:01	64.2	29/4/2012 18:11	62.9	1/5/2012 7:21	62.5	1/5/2012 16:31	63.0	2/5/2012 21:41	61.6
28/4/2012 15:56	63.9	29/4/2012 9:06	64.0	29/4/2012 18:16	67.7	1/5/2012 7:26	61.6	1/5/2012 16:36	65.5	2/5/2012 21:46	61.4
28/4/2012 16:01	63.2	29/4/2012 9:11	64.6	29/4/2012 18:21	67.8	1/5/2012 7:31	64.1	1/5/2012 16:41	62.9	2/5/2012 21:51	61.4
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28/4/2012 16:41	66.5	29/4/2012 9:51	64.2	29/4/2012 19:01	63.0	1/5/2012 8:11	61.9	1/5/2012 17:21	65.9	2/5/2012 22:31	61.5
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28/4/2012 18:26	63.6	29/4/2012 11:36	65.3	29/4/2012 20:46	61.7	1/5/2012 9:56	63.0	1/5/2012 19:06	65.9	3/5/2012 20:16	62.3
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28/4/2012 19:31	62.3	29/4/2012 12:41	63.8	29/4/2012 21:51	62.0	1/5/2012 11:01	62.6	1/5/2012 20:11	62.1	3/5/2012 21:21	61.8
28/4/2012 19:36	62.8	29/4/2012 12:46	64.0	29/4/2012 21:56	62.2	1/5/2012 11:06	64.3	1/5/2012 20:16	61.8	3/5/2012 21:26	61.7
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28/4/2012 20:11	64.3	29/4/2012 13:21	63.8	29/4/2012 22:31	61.6	1/5/2012 11:41	62.2	1/5/2012 20:51	61.6	3/5/2012 22:01	61.9
28/4/2012 20:16	61.5	29/4/2012 13:26	64.0	29/4/2012 22:36	62.1	1/5/2012 11:46	62.3	1/5/2012 20:56	62.6	3/5/2012 22:06	61.6
28/4/2012 20:21	61.7	29/4/2012 13:31	64.9	29/4/2012 22:41	61.5	1/5/2012 11:51	62.6	1/5/2012 21:01	61.6	3/5/2012 22:11	63.0
28/4/2012 20:26	61.3	29/4/2012 13:36	64.3	29/4/2012 22:46	61.3	1/5/2012 11:56	62.1	1/5/2012 21:06	61.9	3/5/2012 22:16	62.0
28/4/2012 20:31	61.8	29/4/2012 13:41	64.1	29/4/2012 22:51	61.5	1/5/2012 12:01	62.5	1/5/2012 21:11	62.8	3/5/2012 22:21	61.9
28/4/2012 20:36	61.9	29/4/2012 13:46	63.4	29/4/2012 22:56	61.9	1/5/2012 12:06	64.0	1/5/2012 21:16	61.4	3/5/2012 22:26	61.7
28/4/2012 20:41	62.8	29/4/2012 13:51	63.6	30/4/2012 19:01	64.1	1/5/2012 12:11	63.1	1/5/2012 21:21	61.3	3/5/2012 22:31	62.3
28/4/2012 20:46	63.8	29/4/2012 13:56	63.5	30/4/2012 19:06	64.1	1/5/2012 12:16	63.3	1/5/2012 21:26	61.3	3/5/2012 22:36	61.3
28/4/2012 20:51	61.2	29/4/2012 14:01	64.2	30/4/2012 19:11	63.7	1/5/2012 12:21	62.8	1/5/2012 21:31	62.6	3/5/2012 22:41	61.7
28/4/2012 20:56	62.3	29/4/2012 14:06	64.1	30/4/2012 19:16	62.6	1/5/2012 12:26	63.9	1/5/2012 21:36	61.4	3/5/2012 22:46	61.4
28/4/2012 21:01	60.9	29/4/2012 14:11	65.9	30/4/2012 19:21	63.7	1/5/2012 12:31	63.0	1/5/2012 21:41	61.5	3/5/2012 22:51	61.1
28/4/2012 21:06	61.8	29/4/2012 14:16	67.0	30/4/2012 19:26	62.1	1/5/2012 12:36	62.0	1/5/2012 21:46	61.5	3/5/2012 22:56	61.4
28/4/2012 21:11	61.6	29/4/2012 14:21	65.2	30/4/2012 19:31	62.8	1/5/2012 12:41	62.4	1/5/2012 21:51	61.4	4/5/2012 19:01	66.6
28/4/2012 21:16	61.4	29/4/2012 14:26	63.9	30/4/2012 19:36	62.8	1/5/2012 12:46	63.3	1/5/2012 21:56	61.5	4/5/2012 19:06	64.8
28/4/2012 21:21	61.8	29/4/2012 14:31	63.7	30/4/2012 19:41	62.8	1/5/2012 12:51	63.0	1/5/2012 22:01	61.5	4/5/2012 19:11	64.9
28/4/2012 21:26	62.0	29/4/2012 14:36	63.5	30/4/2012 19:46	62.5	1/5/2012 12:56	63.5	1/5/2012 22:06	61.3	4/5/2012 19:16	64.6
28/4/2012 21:31	61.5	29/4/2012 14:41	63.9	30/4/2012 19:51	61.7	1/5/2012 13:01	62.3	1/5/2012 22:11	61.6	4/5/2012 19:21	66.6
28/4/2012 21:36	62.2	29/4/2012 14:46	63.5	30/4/2012 19:56	61.6	1/5/2012 1					

## Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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4/5/2012 22:51	63.1	6/5/2012 12:01	64.0	6/5/2012 21:11	61.9	8/5/2012 22:21	62.5	11/5/2012 19:31	62.2	13/5/2012 8:41	65.0
4/5/2012 22:56	63.7	6/5/2012 12:06	65.7	6/5/2012 21:16	62.0	8/5/2012 22:26	59.6	11/5/2012 19:36	62.5	13/5/2012 8:46	64.8
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6/5/2012 8:36	63.3	6/5/2012 17:46	63.1	7/5/2012 22:56	63.2	10/5/2012 20:06	62.3	12/5/2012 21:16	64.3	13/5/20	



Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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13/5/2012 17:51	64.5	15/5/2012 19:01	64.8	17/5/2012 20:11	63.2	19/5/2012 21:21	63.4	20/5/2012 14:31	67.1	21/5/2012 19:41	63.5
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13/5/2012 22:51	63.7	16/5/2012 20:01	63.7	18/5/2012 21:11	64.5	20/5/2012 10:21	64.7	20/5/2012 19:31	68.2	22/5/2012 20:41	65.2
13/5/2012 22:56	64.3	16/5/2012 20:06	63.5	18/5/2012 21:16	64.4	20/5/2012 10:26	65.6	20/5/2012 19:36	65.1	22/5/2012 20:46	65.0
14/5/2012 19:01	65.5	16/5/2012 20:11	64.2	18/5/2012 21:21	64.1	20/5/2012 10:31	63.5	20/5/2012 19:41	64.3	22/5/2012 20:51	62.6
14/5/2012 19:06	63.8	16/5/2012 20:16	64.7	18/5/2012 21:26	63.9	20/5/2012 10:36	64.8	20/5/2012 19:46	64.4	22/5/2012 20:56	61.8
14/5/2012 19:11	63.2	16/5/2012 20:21	64.4	18/5/2012 21:31	63.8	20/5/2012 10:41	64.0	20/5/2012 19:51	64.5	22/5/2012 21:01	64.2
14/5/2012 19:16	66.5	16/5/2012 20:26	65.2	18/5/2012 21:36	64.4	20/5/2012 10:46	64.8	20/5/2012 19:56	64.5	22/5/2012 21:06	63.6
14/5/2012 19:21	64.9	16/5/2012 20:31	64.5	18/5/2012 21:41	64.4	20/5/2012 10:51	64.8	20/5/2012 20:01	63.8	22/5/2012 21:11	63.2
14/5/2012 19:26	68.4	16/5/2012 20:36	64.5	18/5/2012 21:46	66.6	20/5/2012 10:56	64.8	20/5/2012 20:06	64.5	22/5/2012 2	

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

23/5/2012 20:46	63.6	25/5/2012 21:56	62.5	27/5/2012 11:06	64.0	27/5/2012 20:16	61.4	28/4/2012 6:16	62.4	29/4/2012 23:26	60.4
23/5/2012 20:51	63.0	25/5/2012 22:01	61.8	27/5/2012 11:11	62.5	27/5/2012 20:21	64.9	28/4/2012 6:21	61.2	29/4/2012 23:31	62.6
23/5/2012 20:56	63.6	25/5/2012 22:06	61.6	27/5/2012 11:16	63.2	27/5/2012 20:26	61.6	28/4/2012 6:26	62.5	29/4/2012 23:36	61.1
23/5/2012 21:01	64.0	25/5/2012 22:11	61.4	27/5/2012 11:21	64.3	27/5/2012 20:31	61.9	28/4/2012 6:31	61.2	29/4/2012 23:41	61.4
23/5/2012 21:06	63.0	25/5/2012 22:16	61.4	27/5/2012 11:26	64.2	27/5/2012 20:36	61.3	28/4/2012 6:36	61.6	29/4/2012 23:46	60.6
23/5/2012 21:11	63.0	25/5/2012 22:21	61.7	27/5/2012 11:31	63.2	27/5/2012 20:41	61.2	28/4/2012 6:41	62.3	29/4/2012 23:51	60.6
23/5/2012 21:16	63.1	25/5/2012 22:26	61.4	27/5/2012 11:36	62.9	27/5/2012 20:46	62.6	28/4/2012 6:46	62.8	29/4/2012 23:56	60.6
23/5/2012 21:21	62.9	25/5/2012 22:31	61.6	27/5/2012 11:41	64.3	27/5/2012 20:51	61.8	28/4/2012 6:51	62.6	30/4/2012 0:01	60.1
23/5/2012 21:26	63.0	25/5/2012 22:36	61.4	27/5/2012 11:46	64.0	27/5/2012 20:56	61.4	28/4/2012 6:56	62.9	30/4/2012 0:06	61.2
23/5/2012 21:31	62.6	25/5/2012 22:41	65.3	27/5/2012 11:51	65.2	27/5/2012 21:01	61.5	28/4/2012 23:01	63.5	30/4/2012 0:11	60.5
23/5/2012 21:36	62.4	25/5/2012 22:46	63.2	27/5/2012 11:56	63.1	27/5/2012 21:06	61.7	28/4/2012 23:06	64.2	30/4/2012 0:16	61.1
23/5/2012 21:41	62.9	25/5/2012 22:51	62.1	27/5/2012 12:01	64.1	27/5/2012 21:11	61.9	28/4/2012 23:11	64.0	30/4/2012 0:21	59.9
23/5/2012 21:46	62.8	25/5/2012 22:56	61.9	27/5/2012 12:06	64.2	27/5/2012 21:16	61.2	28/4/2012 23:16	63.7	30/4/2012 0:26	59.8
23/5/2012 21:51	64.0	26/5/2012 19:01	64.4	27/5/2012 12:11	63.1	27/5/2012 21:21	61.4	28/4/2012 23:21	63.2	30/4/2012 0:31	60.1
23/5/2012 21:56	62.7	26/5/2012 19:06	64.6	27/5/2012 12:16	63.9	27/5/2012 21:26	61.6	28/4/2012 23:26	63.2	30/4/2012 0:36	59.7
23/5/2012 22:01	62.6	26/5/2012 19:11	64.3	27/5/2012 12:21	63.8	27/5/2012 21:31	61.4	28/4/2012 23:31	62.5	30/4/2012 0:41	59.2
23/5/2012 22:06	63.0	26/5/2012 19:16	64.4	27/5/2012 12:26	64.1	27/5/2012 21:36	61.4	28/4/2012 23:36	63.4	30/4/2012 0:46	58.2
23/5/2012 22:11	62.9	26/5/2012 19:21	63.8	27/5/2012 12:31	63.6	27/5/2012 21:41	63.4	28/4/2012 23:41	62.9	30/4/2012 0:51	59.6
23/5/2012 22:16	62.5	26/5/2012 19:26	64.2	27/5/2012 12:36	63.3	27/5/2012 21:46	62.9	28/4/2012 23:46	63.0	30/4/2012 0:56	59.1
23/5/2012 22:21	62.7	26/5/2012 19:31	63.4	27/5/2012 12:41	62.5	27/5/2012 21:51	61.8	28/4/2012 23:51	63.1	30/4/2012 1:01	58.8
23/5/2012 22:26	62.9	26/5/2012 19:36	63.2	27/5/2012 12:46	62.8	27/5/2012 21:56	62.8	28/4/2012 23:56	62.8	30/4/2012 1:06	58.6
23/5/2012 22:31	63.8	26/5/2012 19:41	63.5	27/5/2012 12:51	63.4	27/5/2012 22:01	61.9	29/4/2012 0:01	62.4	30/4/2012 1:11	58.8
23/5/2012 22:36	62.8	26/5/2012 19:46	63.7	27/5/2012 12:56	64.2	27/5/2012 22:06	62.9	29/4/2012 0:06	62.8	30/4/2012 1:16	57.9
23/5/2012 22:41	62.6	26/5/2012 19:51	64.1	27/5/2012 13:01	63.8	27/5/2012 22:11	62.4	29/4/2012 0:11	62.8	30/4/2012 1:21	58.8
23/5/2012 22:46	62.1	26/5/2012 19:56	63.2	27/5/2012 13:06	65.2	27/5/2012 22:16	62.0	29/4/2012 0:16	62.5	30/4/2012 1:26	58.3
23/5/2012 22:51	63.0	26/5/2012 20:01	66.8	27/5/2012 13:11	64.3	27/5/2012 22:21	62.4	29/4/2012 0:21	62.2	30/4/2012 1:31	61.8
23/5/2012 22:56	62.0	26/5/2012 20:06	64.0	27/5/2012 13:16	64.5	27/5/2012 22:26	62.3	29/4/2012 0:26	62.5	30/4/2012 1:36	59.2
24/5/2012 19:01	65.8	26/5/2012 20:11	62.6	27/5/2012 13:21	68.4	27/5/2012 22:31	62.8	29/4/2012 0:31	63.5	30/4/2012 1:41	57.1
24/5/2012 19:06	63.6	26/5/2012 20:16	62.6	27/5/2012 13:26	65.6	27/5/2012 22:36	64.6	29/4/2012 0:36	62.1	30/4/2012 1:46	58.3
24/5/2012 19:11	63.9	26/5/2012 20:21	62.6	27/5/2012 13:31	65.8	27/5/2012 22:41	64.5	29/4/2012 0:41	62.4	30/4/2012 1:51	57.9
24/5/2012 19:16	63.1	26/5/2012 20:26	62.4	27/5/2012 13:36	64.5	27/5/2012 22:46	62.2	29/4/2012 0:46	61.6	30/4/2012 1:56	57.7
24/5/2012 19:21	63.5	26/5/2012 20:31	62.7	27/5/2012 13:41	63.9	27/5/2012 22:51	63.3	29/4/2012 0:51	61.6	30/4/2012 2:01	59.6
24/5/2012 19:26	62.1	26/5/2012 20:36	63.1	27/5/2012 13:46	64.1	27/5/2012 22:56	63.2	29/4/2012 0:56	61.3	30/4/2012 2:06	56.3
24/5/2012 19:31	63.2	26/5/2012 20:41	62.7	27/5/2012 13:51	63.8			29/4/2012 1:01	61.6	30/4/2012 2:11	57.0
24/5/2012 19:36	62.3	26/5/2012 20:46	62.3	27/5/2012 13:56	63.0			29/4/2012 1:06	61.5	30/4/2012 2:16	57.5
24/5/2012 19:41	62.6	26/5/2012 20:51	63.0	27/5/2012 14:01	63.3			29/4/2012 1:11	61.5	30/4/2012 2:21	59.1
24/5/2012 19:46	62.8	26/5/2012 20:56	62.7	27/5/2012 14:06	63.3			29/4/2012 1:16	61.4	30/4/2012 2:26	58.9
24/5/2012 19:51	62.3	26/5/2012 21:01	62.3	27/5/2012 14:11	63.8			29/4/2012 1:21	63.0	30/4/2012 2:31	57.6
24/5/2012 19:56	62.1	26/5/2012 21:06	61.5	27/5/2012 14:16	62.7			29/4/2012 1:26	61.2	30/4/2012 2:36	61.8
24/5/2012 20:01	62.2	26/5/2012 21:11	62.2	27/5/2012 14:21	64.0			29/4/2012 1:31	62.2	30/4/2012 2:41	64.3
24/5/2012 20:06	62.7	26/5/2012 21:16	63.6	27/5/2012 14:26	65.3			29/4/2012 1:36	61.0	30/4/2012 2:46	57.7
24/5/2012 20:11	63.0	26/5/2012 21:21	63.1	27/5/2012 14:31	65.5			29/4/2012 1:41	61.0	30/4/2012 2:51	57.0
24/5/2012 20:16	61.4	26/5/2012 21:26	61.4	27/5/2012 14:36	65.4			29/4/2012 1:46	60.8	30/4/2012 2:56	56.2
24/5/2012 20:21	61.9	26/5/2012 21:31	61.1	27/5/2012 14:41	64.3			29/4/2012 1:51	60.4	30/4/2012 3:01	55.9
24/5/2012 20:26	61.8	26/5/2012 21:36	62.5	27/5/2012 14:46	64.4			29/4/2012 1:56	60.9	30/4/2012 3:06	57.9
24/5/2012 20:31	61.8	26/5/2012 21:41	61.9	27/5/2012 14:51	63.3			29/4/2012 2:01	60.2	30/4/2012 3:11	56.0
24/5/2012 20:36	61.7	26/5/2012 21:46	61.9	27/5/2012 14:56	62.6			29/4/2012 2:06	60.2	30/4/2012 3:16	56.5
24/5/2012 20:41	62.3	26/5/2012 21:51	62.5	27/5/2012 15:01	63.0			29/4/2012 2:11	60.2	30/4/2012 3:21	55.5
24/5/2012 20:46	61.5	26/5/2012 21:56	62.2	27/5/2012 15:06	62.7			29/4/2012 2:16	60.5	30/4/2012 3:26	56.3
24/5/2012 20:51	62.8	26/5/2012 22:01	63.5	27/5/2012 15:11	62.5			29/4/2012 2:21	60.6	30/4/2012 3:31	58.6
24/5/2012 20:56	61.7	26/5/2012 22:06	62.6	27/5/2012 15:16	62.6			29/4/2012 2:26	60.1	30/4/2012 3:36	56.9
24/5/2012 21:01	62.7	26/5/2012 22:11	62.3	27/5/2012 15:21	64.3			29/4/2012 2:31	60.4	30/4/2012 3:41	55.8
24/5/2012 21:06	62.0	26/5/2012 22:16	62.4	27/5/2012 15:26	64.7			29/4/2012 2:36	60.8	30/4/2012 3:46	56.4
24/5/2012 21:11	61.4	26/5/2012 22:21	62.0	27/5/2012 15:31	66.5			29/4/2012 2:41	60.1	30/4/2012 3:51	56.6
24/5/2012 21:16	61.6	26/5/2012 22:26	62.3	27/5/2012 15:36	63.8			29/4/2012 2:46	60.2	30/4/2012 3:56	57.1
24/5/2012 21:21	61.5	26/5/2012 22:31	62.1	27/5/2012 15:41	62.7			29/4/2012 2:51	59.7	30/4/2012 4:01	57.2
24/5/2012 21:26	61.8	26/5/2012 22:36	61.7	27/5/2012 15:46	62.8			29/4/2012 2:56	60.3	30/4/2012 4:06	57.3
24/5/2012 21:31	61.5	26/5/2012 22:41	62.1	27/5/2012 15:51	63.3			29/4/2012 3:01	58.9	30/4/2012 4:11	56.5
24/5/2012 21:36	61.3	26/5/2012 22:46	62.4	27/5/2012 15:56	62.6			29/4/2012 3:06	59.0	30/4/2012 4:16	56.2
24/5/2012 21:41	61.5	26/5/2012 22:51	62.4	27/5/2012 16:01	62.7			29/4/2012 3:11	59.2	30/4/2012 4:21	55.5
24/5/2012 21:46	61.4	26/5/2012 22:56	62.8	27/5/2012 16:06	62.7			29/4/2012 3:16	59.0	30/4/2012 4:26	56.4
24/5/2012 21:51	61.6	27/5/2012 7:01	62.4	27/5/2012 16:11	63.9			29/4/2012 3:21	59.6	30/4/2012 4:31	56.5
24/5/2012 21:56	62.6	27/5/2012 7:06	63.7	27/5/2012 16:16	63.1			29/4/2012 3:26	62.3	30/4/2012 4:36	56.4
24/5/2012 22:01	62.4	27/5/2012 7:11	62.6	27/5/2012 16:21	64.1			29/4/2012 3:31	60.1	30/4/2012 4:41	56.2
24/5/2012 22:06	61.0	27/5/2012 7:16	63.8	27/5/2012 16:26	62.9			29/4/2012 3:36	60.7	30/4/2012 4:46	56.2
24/5/2012 22:11	62.9	27/5/2012 7:21	63.8	27/5/2012 16:31	65.0			29/4/2012 3:41	59.6	30/4/2012 4:51	55.9
24/5/2012 22:16	61.9	27/5/2012 7:26	64.9	27/5/2012 16:36	63.9			29/4/2012 3:46	60.5	30/4/2012 4:56	56.9
24/5/2012 22:21	61.7	27/5/2012 7:31	62.9	27/5/2012 16:41	63.2			29/4/2012 3:51	60.5	30/4/2012 5:01	56.9
24/5/2012 22:26	61.6	27/5/2012 7:36	63.2	27/5/2012 16:46	62.3			29/4/2012 3:56	60.0	30/4/2012 5:06	56.3
24/5/2012 22:31	61.2	27/5/2012 7:41	62.5	27/5/2012 16:51	63.2			29/4/2012 4:01	59.2	30/4/2012 5:11	56.3
24/5/2012 22:36	61.8	27/5/2012 7:46	62.2	27/5/2012 16:56	64.1			29/4/2012 4:06	60.1	30/4/2012 5:16	57.6
24/5/2012 22:41	61.6	27/5/2012 7:51	62.1	27/5/2012 17:01	65.1			29/4/2012 4:11	59.1	30/4/2012 5:21	58.5
24/5/2012 22:46	61.4	27/5/2012 7:56	62.3	27/5/2012 17:06	65.3			29/4/2012 4:16	60.8	30/4/2012 5:26	59.6
24/5/2012 22:51	61.6	27/5/2012 8:01	62.2	27/5/2012 17:11	63.3			29/4/2012 4:21	60.5	30/4/2012 5:31	59.8
24/5/2012 22:56	61.4	27/5/2012 8:06	6								

## Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

1/5/2012 0:36	61.0	2/5/2012 1:46	56.8	3/5/2012 2:56	57.0	4/5/2012 4:06	56.7	5/5/2012 5:16	58.8	6/5/2012 6:26	61.1
1/5/2012 0:41	60.8	2/5/2012 1:51	57.2	3/5/2012 3:01	56.8	4/5/2012 4:11	57.8	5/5/2012 5:21	59.6	6/5/2012 6:31	61.9
1/5/2012 0:46	61.3	2/5/2012 1:56	57.0	3/5/2012 3:06	56.3	4/5/2012 4:16	60.2	5/5/2012 5:26	59.4	6/5/2012 6:36	61.1
1/5/2012 0:51	60.2	2/5/2012 2:01	56.6	3/5/2012 3:11	56.7	4/5/2012 4:21	57.9	5/5/2012 5:31	58.0	6/5/2012 6:41	61.6
1/5/2012 0:56	60.6	2/5/2012 2:06	56.4	3/5/2012 3:16	57.7	4/5/2012 4:26	57.5	5/5/2012 5:36	58.9	6/5/2012 6:46	64.8
1/5/2012 1:01	60.3	2/5/2012 2:11	56.4	3/5/2012 3:21	55.7	4/5/2012 4:31	58.4	5/5/2012 5:41	58.2	6/5/2012 6:51	64.0
1/5/2012 1:06	60.9	2/5/2012 2:16	55.6	3/5/2012 3:26	56.4	4/5/2012 4:36	57.8	5/5/2012 5:46	58.1	6/5/2012 6:56	61.6
1/5/2012 1:11	61.2	2/5/2012 2:21	56.0	3/5/2012 3:31	57.0	4/5/2012 4:41	56.9	5/5/2012 5:51	58.2	6/5/2012 23:01	61.1
1/5/2012 1:16	60.4	2/5/2012 2:26	56.8	3/5/2012 3:36	57.5	4/5/2012 4:46	57.4	5/5/2012 5:56	58.3	6/5/2012 23:06	61.8
1/5/2012 1:21	61.0	2/5/2012 2:31	56.7	3/5/2012 3:41	56.8	4/5/2012 4:51	57.2	5/5/2012 6:01	58.5	6/5/2012 23:11	61.4
1/5/2012 1:26	60.1	2/5/2012 2:36	55.1	3/5/2012 3:46	56.4	4/5/2012 4:56	58.6	5/5/2012 6:06	57.8	6/5/2012 23:16	61.2
1/5/2012 1:31	60.5	2/5/2012 2:41	56.8	3/5/2012 3:51	55.4	4/5/2012 5:01	58.0	5/5/2012 6:11	57.9	6/5/2012 23:21	61.1
1/5/2012 1:36	61.1	2/5/2012 2:46	56.2	3/5/2012 3:56	57.2	4/5/2012 5:06	59.3	5/5/2012 6:16	58.3	6/5/2012 23:26	60.8
1/5/2012 1:41	59.7	2/5/2012 2:51	56.3	3/5/2012 4:01	57.0	4/5/2012 5:11	58.7	5/5/2012 6:21	58.0	6/5/2012 23:31	61.5
1/5/2012 1:46	59.9	2/5/2012 2:56	55.3	3/5/2012 4:06	57.3	4/5/2012 5:16	59.2	5/5/2012 6:26	58.4	6/5/2012 23:36	60.5
1/5/2012 1:51	59.6	2/5/2012 3:01	55.4	3/5/2012 4:11	55.4	4/5/2012 5:21	59.7	5/5/2012 6:31	57.5	6/5/2012 23:41	60.0
1/5/2012 1:56	59.6	2/5/2012 3:06	55.2	3/5/2012 4:16	56.0	4/5/2012 5:26	59.3	5/5/2012 6:36	57.6	6/5/2012 23:46	60.5
1/5/2012 2:01	59.6	2/5/2012 3:11	55.0	3/5/2012 4:21	56.6	4/5/2012 5:31	59.7	5/5/2012 6:41	58.1	6/5/2012 23:51	60.5
1/5/2012 2:06	60.3	2/5/2012 3:16	56.6	3/5/2012 4:26	56.2	4/5/2012 5:36	60.0	5/5/2012 6:46	58.5	6/5/2012 23:56	60.0
1/5/2012 2:11	59.3	2/5/2012 3:21	55.4	3/5/2012 4:31	57.0	4/5/2012 5:41	59.7	5/5/2012 6:51	57.4	7/5/2012 0:01	60.7
1/5/2012 2:16	60.7	2/5/2012 3:26	56.3	3/5/2012 4:36	57.1	4/5/2012 5:46	60.3	5/5/2012 6:56	57.3	7/5/2012 0:06	60.8
1/5/2012 2:21	58.8	2/5/2012 3:31	56.2	3/5/2012 4:41	57.4	4/5/2012 5:51	60.6	5/5/2012 23:01	63.4	7/5/2012 0:11	60.6
1/5/2012 2:26	62.2	2/5/2012 3:36	56.8	3/5/2012 4:46	57.0	4/5/2012 5:56	59.7	5/5/2012 23:06	62.8	7/5/2012 0:16	60.7
1/5/2012 2:31	60.3	2/5/2012 3:41	55.2	3/5/2012 4:51	56.9	4/5/2012 6:01	60.2	5/5/2012 23:11	62.0	7/5/2012 0:21	59.9
1/5/2012 2:36	60.5	2/5/2012 3:46	55.7	3/5/2012 4:56	57.7	4/5/2012 6:06	60.9	5/5/2012 23:16	62.0	7/5/2012 0:26	59.9
1/5/2012 2:41	59.3	2/5/2012 3:51	55.1	3/5/2012 5:01	56.7	4/5/2012 6:11	62.0	5/5/2012 23:21	62.5	7/5/2012 0:31	60.2
1/5/2012 2:46	60.7	2/5/2012 3:56	54.6	3/5/2012 5:06	55.9	4/5/2012 6:16	61.2	5/5/2012 23:26	62.3	7/5/2012 0:36	58.8
1/5/2012 2:51	60.5	2/5/2012 4:01	59.8	3/5/2012 5:11	57.0	4/5/2012 6:21	61.7	5/5/2012 23:31	61.7	7/5/2012 0:41	58.5
1/5/2012 2:56	59.0	2/5/2012 4:06	56.8	3/5/2012 5:16	57.1	4/5/2012 6:26	62.8	5/5/2012 23:36	61.3	7/5/2012 0:46	58.1
1/5/2012 3:01	59.4	2/5/2012 4:11	58.1	3/5/2012 5:21	57.2	4/5/2012 6:31	62.3	5/5/2012 23:41	61.7	7/5/2012 0:51	58.5
1/5/2012 3:06	59.6	2/5/2012 4:16	58.1	3/5/2012 5:26	58.2	4/5/2012 6:36	64.3	5/5/2012 23:46	61.6	7/5/2012 0:56	58.0
1/5/2012 3:11	59.7	2/5/2012 4:21	57.9	3/5/2012 5:31	59.4	4/5/2012 6:41	63.4	5/5/2012 23:51	61.6	7/5/2012 1:01	58.0
1/5/2012 3:16	59.3	2/5/2012 4:26	57.5	3/5/2012 5:36	58.6	4/5/2012 6:46	63.5	5/5/2012 23:56	61.6	7/5/2012 1:06	58.2
1/5/2012 3:21	59.5	2/5/2012 4:31	57.3	3/5/2012 5:41	57.7	4/5/2012 6:51	64.9	6/5/2012 0:01	61.2	7/5/2012 1:11	58.7
1/5/2012 3:26	58.7	2/5/2012 4:36	56.1	3/5/2012 5:46	62.1	4/5/2012 6:56	64.6	6/5/2012 0:06	61.5	7/5/2012 1:16	58.1
1/5/2012 3:31	58.9	2/5/2012 4:41	56.2	3/5/2012 5:51	60.5	4/5/2012 23:01	63.7	6/5/2012 0:11	61.5	7/5/2012 1:21	58.0
1/5/2012 3:36	60.1	2/5/2012 4:46	57.8	3/5/2012 5:56	59.9	4/5/2012 23:06	63.5	6/5/2012 0:16	63.2	7/5/2012 1:26	58.0
1/5/2012 3:41	58.5	2/5/2012 4:51	56.5	3/5/2012 6:01	58.6	4/5/2012 23:11	62.9	6/5/2012 0:21	61.0	7/5/2012 1:31	56.4
1/5/2012 3:46	65.8	2/5/2012 4:56	57.1	3/5/2012 6:06	59.9	4/5/2012 23:16	63.4	6/5/2012 0:26	60.9	7/5/2012 1:36	57.8
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1/5/2012 3:56	58.7	2/5/2012 5:06	57.2	3/5/2012 6:16	59.8	4/5/2012 23:26	61.9	6/5/2012 0:36	61.5	7/5/2012 1:46	57.4
1/5/2012 4:01	58.7	2/5/2012 5:11	56.8	3/5/2012 6:21	60.6	4/5/2012 23:31	61.6	6/5/2012 0:41	60.9	7/5/2012 1:51	56.6
1/5/2012 4:06	57.7	2/5/2012 5:16	56.4	3/5/2012 6:26	61.8	4/5/2012 23:36	61.3	6/5/2012 0:46	60.6	7/5/2012 1:56	57.5
1/5/2012 4:11	58.4	2/5/2012 5:21	56.8	3/5/2012 6:31	64.4	4/5/2012 23:41	61.9	6/5/2012 0:51	61.0	7/5/2012 2:01	57.0
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1/5/2012 4:41	58.6	2/5/2012 5:51	60.1	3/5/2012 23:01	61.2	5/5/2012 0:11	62.6	6/5/2012 1:21	61.2	7/5/2012 2:31	57.2
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1/5/2012 4:56	58.1	2/5/2012 6:06	59.5	3/5/2012 23:16	61.3	5/5/2012 0:26	61.6	6/5/2012 1:36	61.1	7/5/2012 2:46	56.0
1/5/2012 5:01	58.8	2/5/2012 6:11	60.3	3/5/2012 23:21	61.3	5/5/2012 0:31	61.6	6/5/2012 1:41	60.9	7/5/2012 2:51	55.6
1/5/2012 5:06	59.0	2/5/2012 6:16	60.5	3/5/2012 23:26	61.5	5/5/2012 0:36	61.4	6/5/2012 1:46	60.6	7/5/2012 2:56	55.9
1/5/2012 5:11	58.4	2/5/2012 6:21	60.6	3/5/2012 23:31	61.0	5/5/2012 0:41	61.8	6/5/2012 1:51	61.0	7/5/2012 3:01	56.7
1/5/2012 5:16	59.2	2/5/2012 6:26	61.4	3/5/2012 23:36	61.1	5/5/2012 0:46	62.1	6/5/2012 1:56	60.5	7/5/2012 3:06	55.9
1/5/2012 5:21	59.1	2/5/2012 6:31	62.2	3/5/2012 23:41	61.1	5/5/2012 0:51	61.7	6/5/2012 2:01	60.6	7/5/2012 3:11	54.7
1/5/2012 5:26	59.9	2/5/2012 6:36	62.0	3/5/2012 23:46	60.6	5/5/2012 0:56	61.1	6/5/2012 2:06	60.8	7/5/2012 3:16	55.8
1/5/2012 5:31	60.1	2/5/2012 6:41	62.1	3/5/2012 23:51	60.6	5/5/2012 1:01	61.6	6/5/2012 2:11	59.8	7/5/2012 3:21	56.0
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1/5/2012 5:41	60.4	2/5/2012 6:51	62.8	4/5/2012 0:01	62.5	5/5/2012 1:11	62.2	6/5/2012 2:21	59.8	7/5/2012 3:31	55.9
1/5/2012 5:46	61.3	2/5/2012 6:56	62.7	4/5/2012 0:06	61.3	5/5/2012 1:16	61.8	6/5/2012 2:26	60.0	7/5/2012 3:36	56.0
1/5/2012 5:51	60.9	2/5/2012 23:01	62.0	4/5/2012 0:11	60.2	5/5/2012 1:21	61.6	6/5/2012 2:31	60.5	7/5/2012 3:41	56.9
1/5/2012 5:56	60.3	2/5/2012 23:06	61.9	4/5/2012 0:16	60.4	5/5/2012 1:26	61.7	6/5/2012 2:36	59.7	7/5/2012 3:46	56.4
1/5/2012 6:01	60.4	2/5/2012 23:11	60.9	4/5/2012 0:21	60.3	5/5/2012 1:31	62.2	6/5/2012 2:41	59.6	7/5/2012 3:51	56.8
1/5/2012 6:06	60.3	2/5/2012 23:16	62.2	4/5/2012 0:26	60.0	5/5/2012 1:36	61.8	6/5/2012 2:46	59.9	7/5/2012 3:56	55.3
1/5/2012 6:11	60.5	2/5/2012 23:21	62.1	4/5/2012 0:31	60.1	5/5/2012 1:41	62.2	6/5/2012 2:51	59.7	7/5/2012 4:01	55.2
1/5/2012 6:16	63.1	2/5/2012 23:26	61.0	4/5/2012 0:36	60.2	5/5/2012 1:46	62.2	6/5/2012 2:56	59.6	7/5/2012 4:06	55.4
1/5/2012 6:21	62.4	2/5/2012 23:31	60.9	4/5/2012 0:41	59.5	5/5/2012 1:51	61.4	6/5/2012 3:01	59.0	7/5/2012 4:11	56.2
1/5/2012 6:26	61.8	2/5/2012 23:36	61.0	4/5/2012 0:46	59.6	5/5/2012 1:56	61.9	6/5/2012 3:06	60.1	7/5/2012 4:16	56.2
1/5/2012 6:31	61.2	2/5/2012 23:41	60.8	4/5/2012 0:51	59.6	5/5/2012 2:01	61.2	6/5/2012 3:11	59.6	7/5/2012 4:21	56.2
1/5/2012 6:36	60.9	2/5/2012 23:46	60.8	4/5/2012 0:56	59.0	5/5/2012 2:06	62.2	6/5/2012 3:16	59.7	7/5/2012 4:26	55.8
1/5/2012 6:41	61.0	2/5/2012 23:51	60.8								

## Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

7/5/2012 23:36	62.3	9/5/2012 0:46	58.8	10/5/2012 1:56	60.4	11/5/2012 3:06	55.2	12/5/2012 4:16	57.7	13/5/2012 5:26	61.2
7/5/2012 23:41	62.9	9/5/2012 0:51	57.8	10/5/2012 2:01	60.0	11/5/2012 3:11	54.1	12/5/2012 4:21	57.7	13/5/2012 5:31	60.8
7/5/2012 23:46	60.3	9/5/2012 0:56	56.7	10/5/2012 2:06	59.3	11/5/2012 3:16	54.1	12/5/2012 4:26	57.6	13/5/2012 5:36	61.1
7/5/2012 23:51	62.2	9/5/2012 1:01	57.6	10/5/2012 2:11	60.1	11/5/2012 3:21	54.8	12/5/2012 4:31	58.0	13/5/2012 5:41	61.5
7/5/2012 23:56	62.0	9/5/2012 1:06	57.4	10/5/2012 2:16	59.8	11/5/2012 3:26	54.5	12/5/2012 4:36	57.0	13/5/2012 5:46	61.8
8/5/2012 0:01	61.1	9/5/2012 1:11	57.0	10/5/2012 2:21	59.7	11/5/2012 3:31	52.8	12/5/2012 4:41	57.5	13/5/2012 5:51	61.7
8/5/2012 0:06	62.2	9/5/2012 1:16	58.1	10/5/2012 2:26	59.3	11/5/2012 3:36	53.3	12/5/2012 4:46	57.7	13/5/2012 5:56	61.9
8/5/2012 0:11	61.8	9/5/2012 1:21	56.3	10/5/2012 2:31	59.7	11/5/2012 3:41	54.3	12/5/2012 4:51	56.8	13/5/2012 6:01	61.5
8/5/2012 0:16	61.8	9/5/2012 1:26	56.9	10/5/2012 2:36	60.5	11/5/2012 3:46	54.5	12/5/2012 4:56	57.8	13/5/2012 6:06	62.2
8/5/2012 0:21	61.5	9/5/2012 1:31	55.0	10/5/2012 2:41	59.8	11/5/2012 3:51	55.6	12/5/2012 5:01	57.9	13/5/2012 6:11	62.4
8/5/2012 0:26	62.1	9/5/2012 1:36	56.2	10/5/2012 2:46	59.5	11/5/2012 3:56	55.8	12/5/2012 5:06	57.4	13/5/2012 6:16	63.0
8/5/2012 0:31	61.6	9/5/2012 1:41	54.7	10/5/2012 2:51	59.5	11/5/2012 4:01	55.1	12/5/2012 5:11	58.0	13/5/2012 6:21	63.1
8/5/2012 0:36	62.5	9/5/2012 1:46	55.8	10/5/2012 2:56	59.5	11/5/2012 4:06	56.2	12/5/2012 5:16	57.9	13/5/2012 6:26	63.3
8/5/2012 0:41	61.0	9/5/2012 1:51	56.7	10/5/2012 3:01	59.5	11/5/2012 4:11	57.0	12/5/2012 5:21	62.3	13/5/2012 6:31	62.5
8/5/2012 0:46	60.6	9/5/2012 1:56	56.2	10/5/2012 3:06	59.4	11/5/2012 4:16	55.7	12/5/2012 5:26	61.3	13/5/2012 6:36	62.4
8/5/2012 0:51	60.5	9/5/2012 2:01	55.2	10/5/2012 3:11	58.4	11/5/2012 4:21	55.3	12/5/2012 5:31	63.7	13/5/2012 6:41	62.8
8/5/2012 0:56	60.4	9/5/2012 2:06	55.8	10/5/2012 3:16	59.5	11/5/2012 4:26	57.0	12/5/2012 5:36	66.3	13/5/2012 6:46	62.9
8/5/2012 1:01	60.0	9/5/2012 2:11	57.0	10/5/2012 3:21	59.1	11/5/2012 4:31	55.5	12/5/2012 5:41	63.1	13/5/2012 6:51	62.5
8/5/2012 1:06	60.2	9/5/2012 2:16	56.1	10/5/2012 3:26	59.0	11/5/2012 4:36	55.6	12/5/2012 5:46	63.5	13/5/2012 6:56	62.6
8/5/2012 1:11	59.4	9/5/2012 2:21	53.0	10/5/2012 3:31	60.4	11/5/2012 4:41	56.3	12/5/2012 5:51	60.7	13/5/2012 7:01	64.5
8/5/2012 1:16	60.5	9/5/2012 2:26	56.2	10/5/2012 3:36	60.1	11/5/2012 4:46	56.9	12/5/2012 5:56	58.9	13/5/2012 7:06	63.9
8/5/2012 1:21	59.0	9/5/2012 2:31	57.0	10/5/2012 3:41	59.1	11/5/2012 4:51	58.5	12/5/2012 6:01	60.4	13/5/2012 7:11	63.0
8/5/2012 1:26	59.7	9/5/2012 2:36	54.6	10/5/2012 3:46	59.7	11/5/2012 4:56	55.2	12/5/2012 6:06	64.2	13/5/2012 7:16	64.6
8/5/2012 1:31	60.1	9/5/2012 2:41	54.3	10/5/2012 3:51	59.8	11/5/2012 5:01	56.3	12/5/2012 6:11	60.1	13/5/2012 7:21	64.5
8/5/2012 1:36	58.9	9/5/2012 2:46	55.0	10/5/2012 3:56	58.3	11/5/2012 5:06	56.7	12/5/2012 6:16	60.4	13/5/2012 7:26	63.8
8/5/2012 1:41	59.4	9/5/2012 2:51	54.8	10/5/2012 4:01	59.4	11/5/2012 5:11	56.6	12/5/2012 6:21	64.9	13/5/2012 7:31	63.5
8/5/2012 1:46	63.1	9/5/2012 2:56	54.4	10/5/2012 4:06	59.2	11/5/2012 5:16	55.4	12/5/2012 6:26	62.3	13/5/2012 7:36	63.4
8/5/2012 1:51	58.1	9/5/2012 3:01	53.8	10/5/2012 4:11	58.6	11/5/2012 5:21	56.6	12/5/2012 6:31	60.7	13/5/2012 7:41	64.5
8/5/2012 1:56	59.2	9/5/2012 3:06	55.1	10/5/2012 4:16	58.2	11/5/2012 5:26	55.8	12/5/2012 6:36	61.0	13/5/2012 7:46	63.7
8/5/2012 2:01	58.9	9/5/2012 3:11	53.7	10/5/2012 4:21	60.0	11/5/2012 5:31	60.7	12/5/2012 6:41	63.1	13/5/2012 7:51	63.1
8/5/2012 2:06	58.5	9/5/2012 3:16	54.5	10/5/2012 4:26	60.8	11/5/2012 5:36	56.1	12/5/2012 6:46	61.3	13/5/2012 7:56	62.9
8/5/2012 2:11	58.2	9/5/2012 3:21	54.5	10/5/2012 4:31	59.5	11/5/2012 5:41	59.1	12/5/2012 6:51	63.4	14/5/2012 0:01	60.9
8/5/2012 2:16	59.2	9/5/2012 3:26	53.4	10/5/2012 4:36	58.8	11/5/2012 5:46	58.1	12/5/2012 6:56	62.4	14/5/2012 0:06	61.1
8/5/2012 2:21	57.9	9/5/2012 3:31	54.2	10/5/2012 4:41	59.2	11/5/2012 5:51	58.4	12/5/2012 7:01	64.3	14/5/2012 0:11	61.9
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8/5/2012 3:56	57.1	9/5/2012 5:06	57.0	10/5/2012 6:16	63.4	11/5/2012 7:26	61.3	13/5/2012 0:36	62.2	14/5/2012 1:46	61.7
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8/5/2012 4:56	57.6	9/5/2012 6:06	60.2	10/5/2012 7:16	59.1	12/5/2012 0:26	59.8	13/5/2012 1:36	61.8	14/5/2012 2:46	61.3
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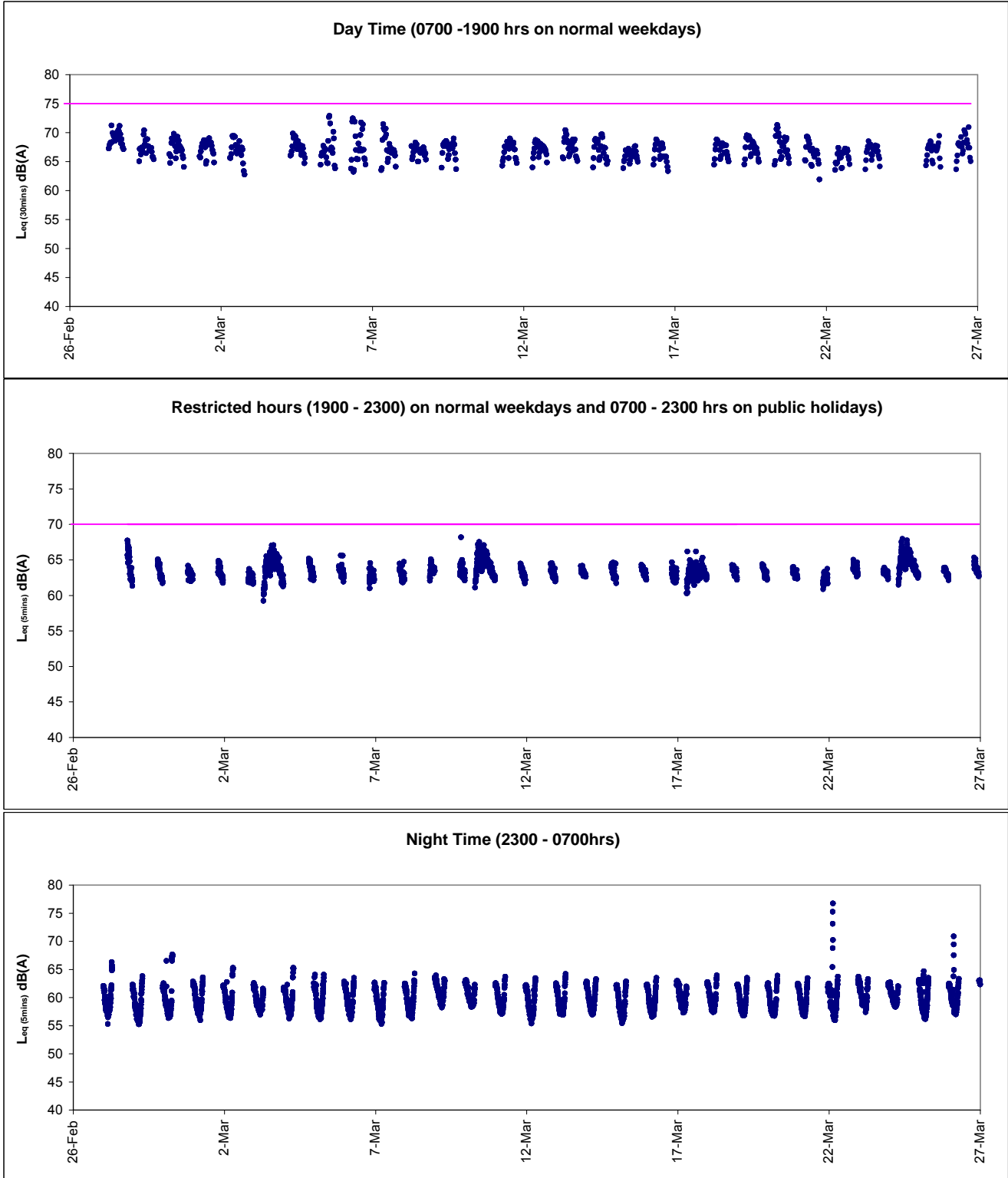
Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

14/5/2012 6:36	57.4	15/5/2012 23:46	62.4	17/5/2012 0:56	60.2	18/5/2012 2:06	56.8	19/5/2012 3:16	60.6	20/5/2012 4:26	57.8
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22/5/2012 3:11	58.9	23/5/2012 4:21	58.7	24/5/2012 5:31	59.0	25/5/2012 6:41	63.2	26/5/2012 23:51	61.6		
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22/5/2012 3:31	56.5	23/5/2012 4:41	58.2	24/5/2012 5:51	59.0	25/5/2012 23:01	61.3	27/5/2012 0:11	60.7		
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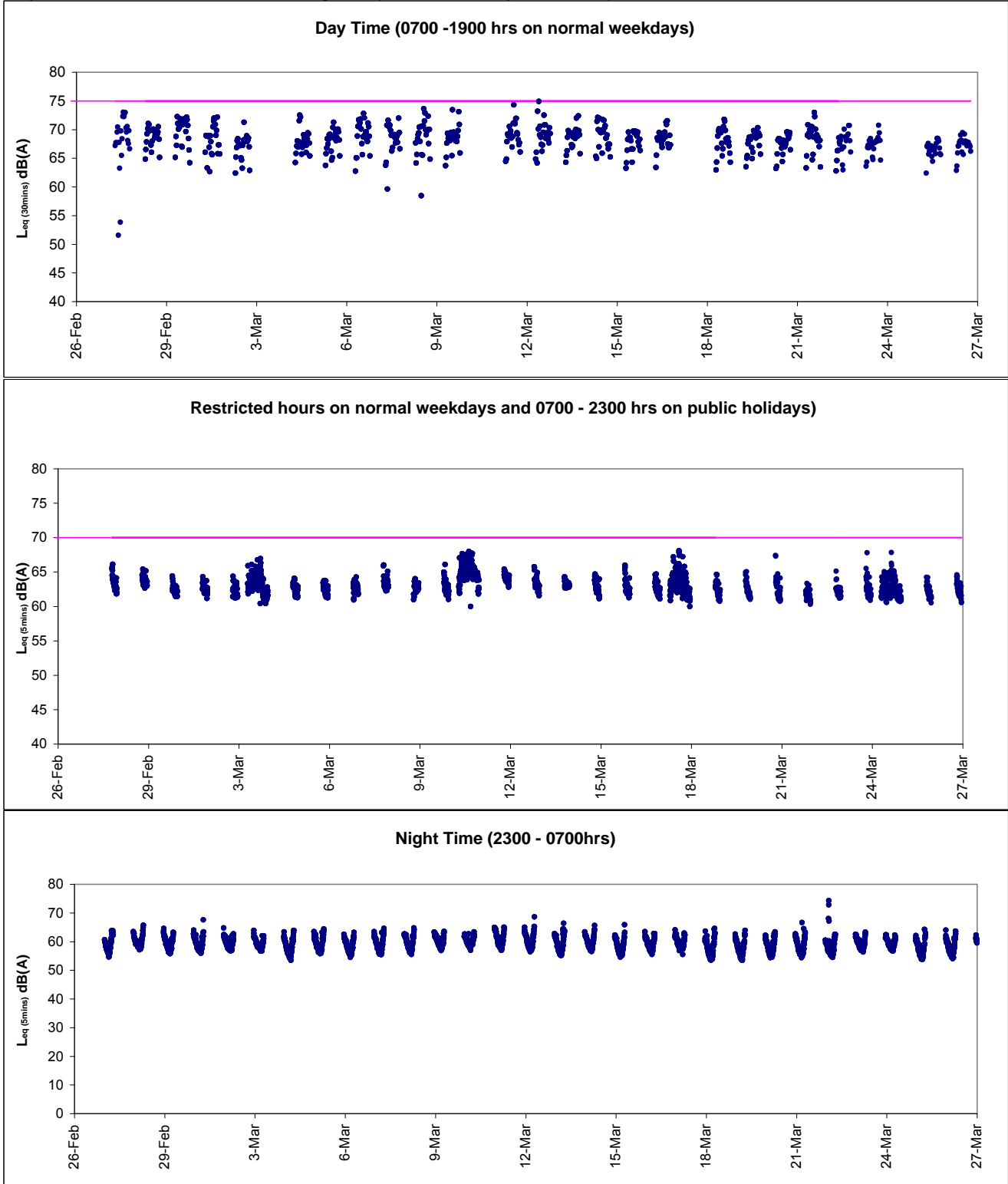


Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)





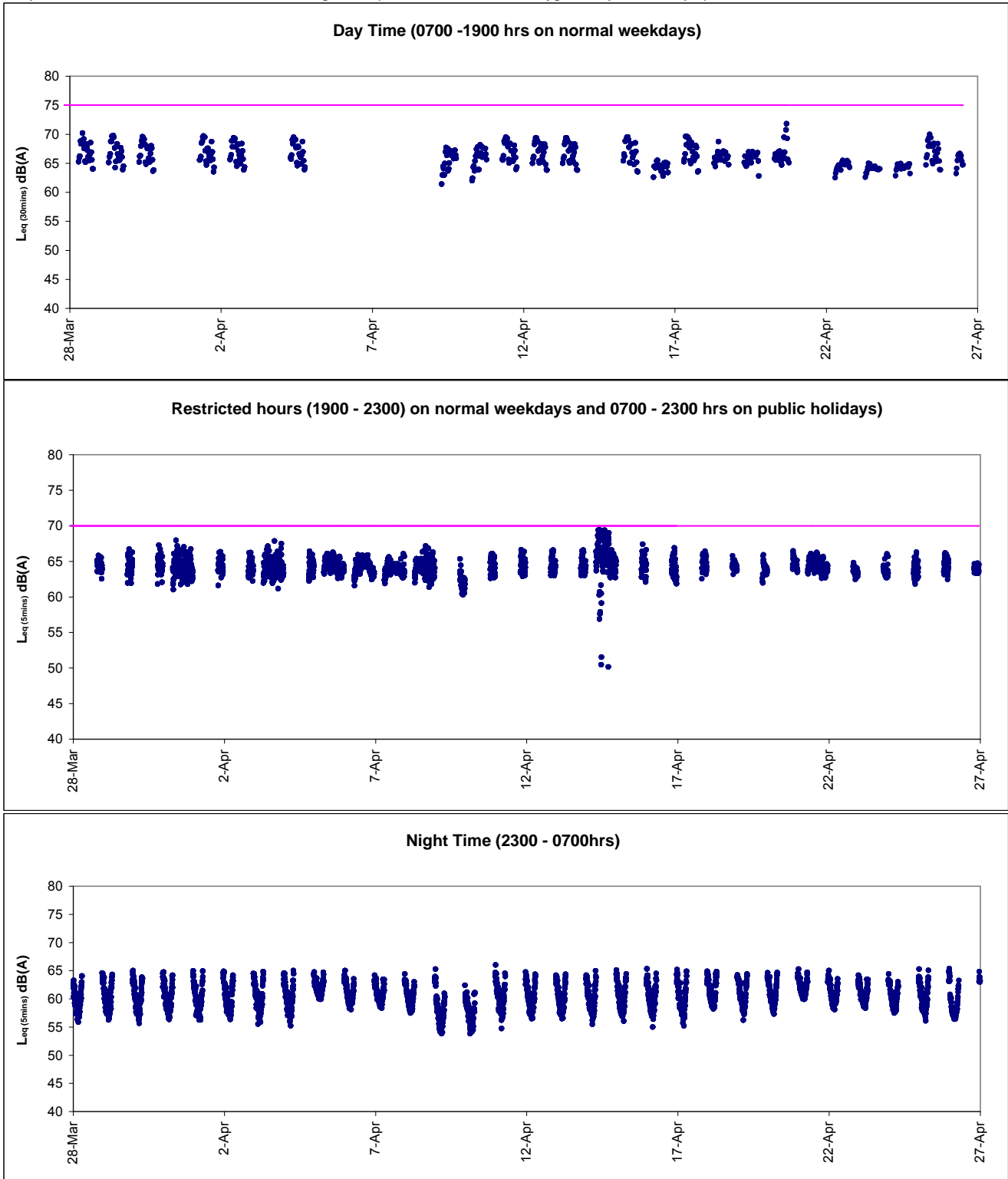
Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Center)





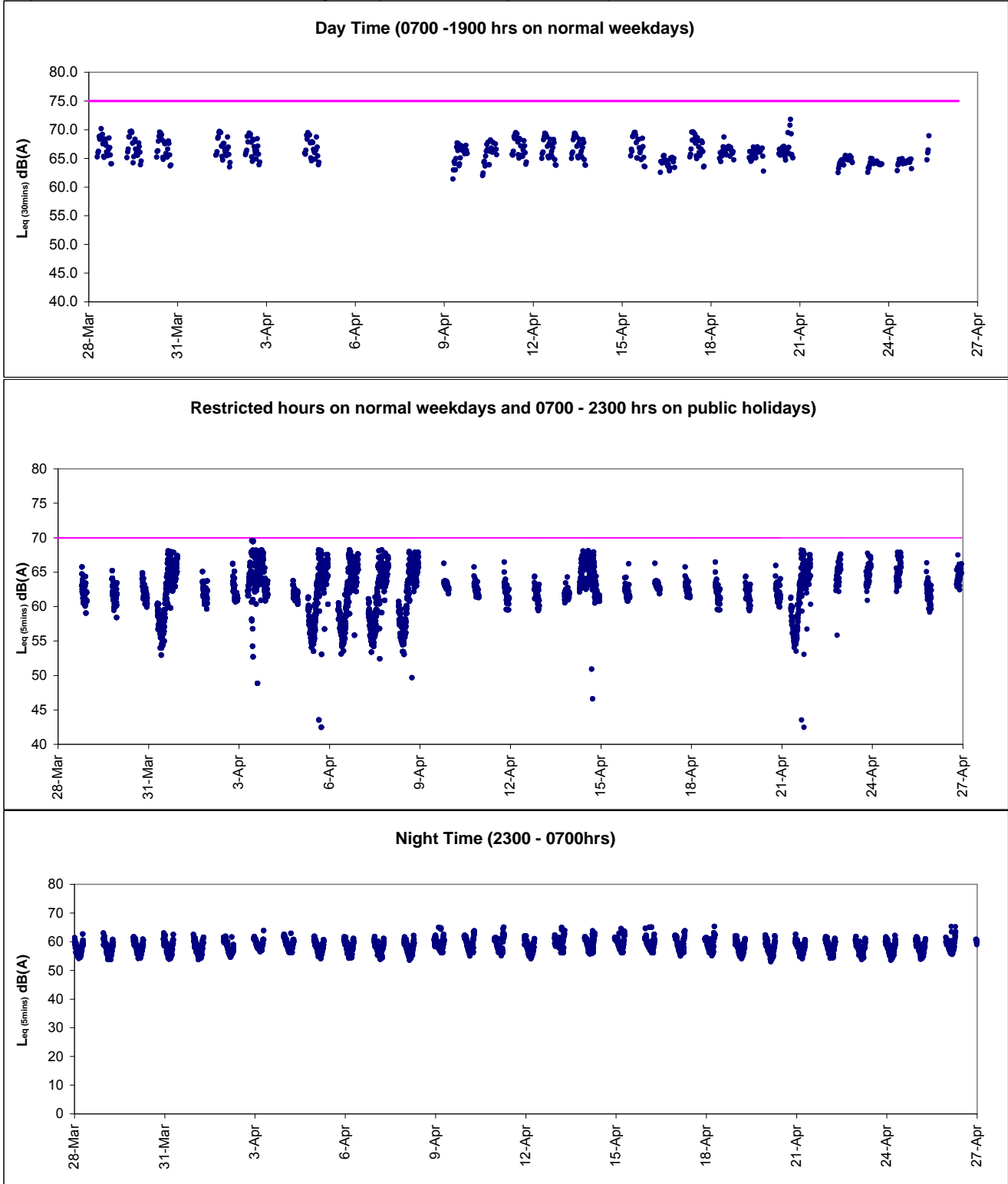


Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)



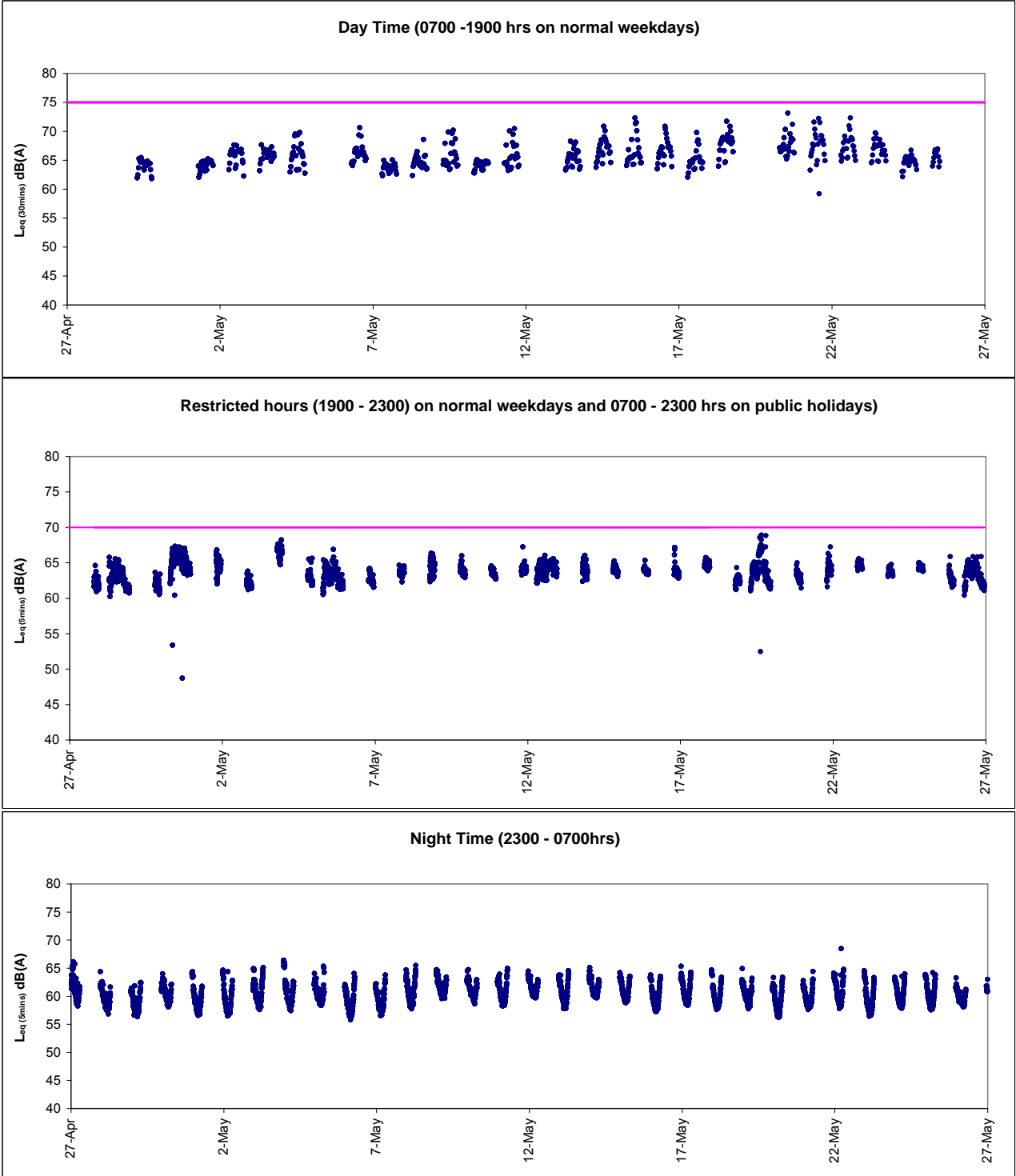


Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Center)



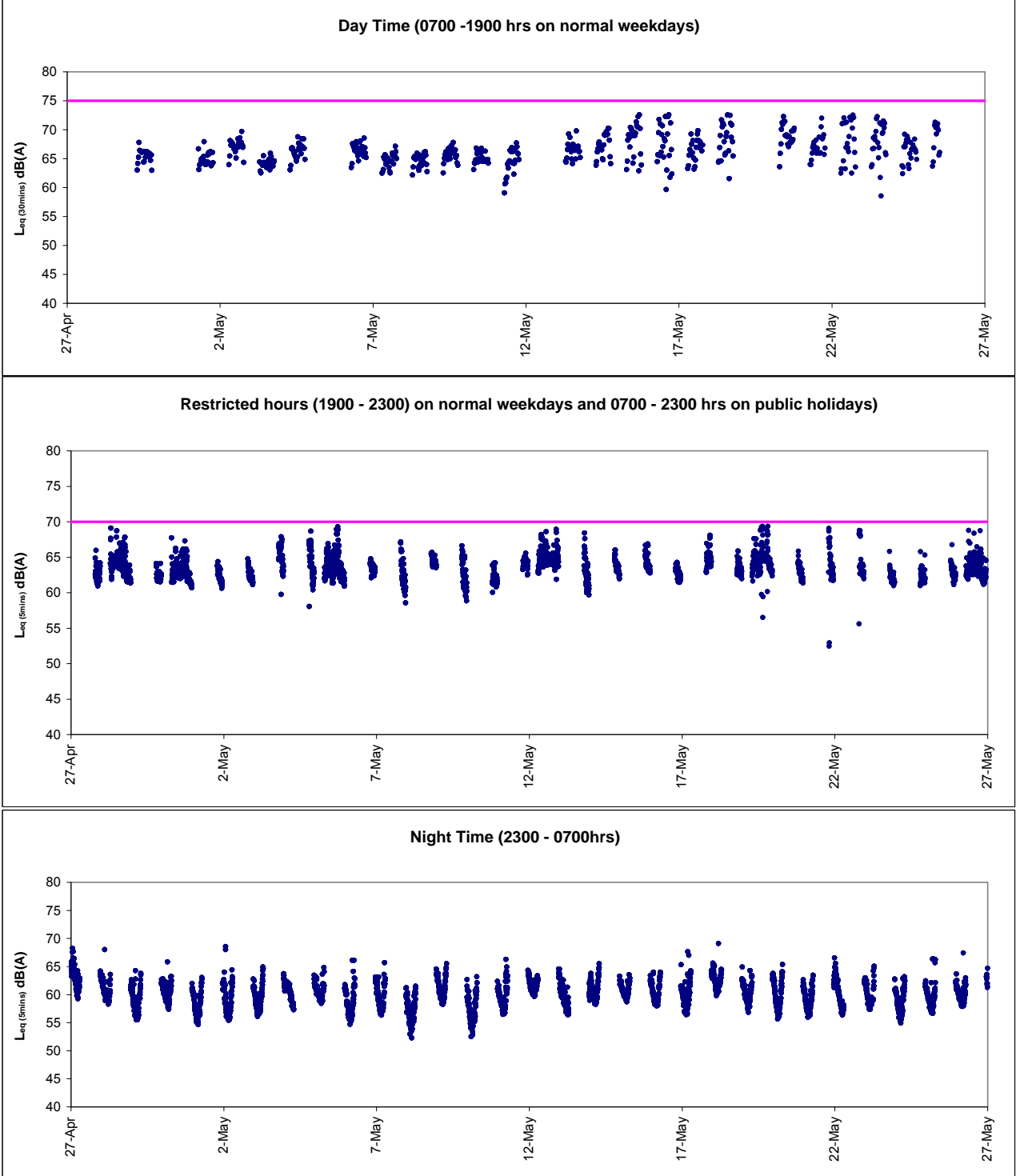


Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)





Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Centre)





***Appendix 5.1***

***Event Action Plans***



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none"><li>1. Notify ER, IEC and Contractor;</li><li>2. Carry out investigation;</li><li>3. Report the results of investigation to the IEC, ER and Contractor;</li><li>4. Discuss with the IEC and Contractor on remedial measures required;</li><li>5. Increase monitoring frequency to check mitigation effectiveness.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Review the investigation results submitted by the ET;</li><li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li><li>3. Advise the ER on the effectiveness of the proposed remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Confirm receipt of notification of failure in writing;</li><li>2. Notify Contractor;</li><li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li><li>4. Supervise the implementation of remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Submit noise mitigation proposals to IEC and ER;</li><li>2. Implement noise mitigation proposals.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	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. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



**Event / Action Plan for Construction Air Quality**

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
<b>ACTION LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Notify Contractor.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
<b>LIMIT LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>





**Event and Action Plan for Marine Water Quality**

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET , IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; 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. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)



***Appendix 6.1***

***Complaints Log***

**Environmental Complaints Log**

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	<ol style="list-style-type: none"><li>1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18<sup>th</sup> Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.</li><li>2) Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.</li><li>3) The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.</li><li>4) No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.</li><li>5) No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.</li></ol>	Closed
100321b	21/3/2010	Unknown	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March 2010(Monday).	<ol style="list-style-type: none"><li>1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18<sup>th</sup> Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.</li><li>2) Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.</li><li>3) No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.</li><li>4) No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</li><li>2) According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010.</li><li>3) No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.</li><li>2) There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.</li><li>3) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.</li><li>4) It is considered as invalid from the EP and CNP point of view.</li></ol>	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</li><li>2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.</li><li>3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no.. WSD15)	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen.</li><li>2) Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.</li><li>3) Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.</li></ol>	Closed
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	<ol style="list-style-type: none"><li>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</li><li>2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.</li><li>3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.</li></ol>	Closed
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine Department	North Point	Bad odour was generated from the dredging plant off North Point	<ol style="list-style-type: none"><li>1) The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.</li><li>2) A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.</li><li>3) Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.</li></ol>	Closed
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	<ol style="list-style-type: none"><li>1) ET confirmed the following information with resident site staff on the complaint:<ul style="list-style-type: none"><li>• It was referred to the filling operation at North Point</li></ul></li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1-266039336)		<p>filling operation was louder than the traffic noise &amp; visual impact was generated due to the spot-light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II;</p> <p>Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00-21:00.</p>	<p>Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II;</p> <ul style="list-style-type: none"> <li>• Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall;</li> <li>• Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights;</li> <li>• No starting work on 7 Dec 2010 at 0630hours.</li> </ul> <p>2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour;</p> <p>3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill;</p> <p>4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time.</p> <p>5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose;</p> <p>6) No further complaint was received after implementation of proposed measures</p>	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1-281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	<p>1) The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work.</p> <p>2) Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement.</p> <p>3) It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant.</p> <p>4) It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile</p> <p>5) The concern of mosquitoes breeding is out the scope of EM&amp;A, the follow-up action is not reported in this monthly EM&amp;A report.</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1-272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	<ol style="list-style-type: none"><li>1) According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period.</li><li>2) There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre.</li><li>3) It is considered as invalid complaint under this Project.</li></ol>	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	<ol style="list-style-type: none"><li>1) The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.</li><li>2) According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.</li><li>3) In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.</li><li>4) A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.</li><li>5) Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.</li></ol>	Closed





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon-wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	<ol style="list-style-type: none"><li>1) Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period</li><li>2) Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary.</li><li>3) Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation.</li><li>4) Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.</li></ol>	Closed
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309)	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	<ol style="list-style-type: none"><li>1) ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.</li><li>2) The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.</li><li>3) According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 28 July 2011</li> <li>2) RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.</li> <li>3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011.</li> <li>4) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.</li> <li>5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.</li> </ol>	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 8 August 2011</li> <li>2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring</li> <li>3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011.</li> <li>4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.</li> </ol>	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 28 July 2011</li> <li>2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents.</li> <li>3) No noise exceedance was recorded at construction noise</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	<p>monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.</p> <p>4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.</p>	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	<p>1) It was referred by AECOM to ET on 28 July 2011</p> <p>2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.</p> <p>3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.</p>	Closed
	08/08/2011				<p>4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.</p> <p>5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.</p> <p><i>Remarks: There will be counted as two complaints in this complaint log.</i></p>	
110810	10/08/2011	Mr. Yip by ICC no. 1 - 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	<p>1) It was referred by AECOM to ET on 17 August 2011.</p> <p>2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.</p> <p>3) Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid.</p> <p>4) Contractors were advised to relocate the loose materials</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	<ol style="list-style-type: none"> <li>1) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01.</li> <li>2) The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.</li> <li>3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.</li> <li>4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.</li> <li>5) Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.</li> <li>6) Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.</li> </ol>	Closed
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	<ol style="list-style-type: none"> <li>1) It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the <ul style="list-style-type: none"> <li>• construction works were referred to the Contractors HY/2009/11 and HY/2009/19.</li> <li>• The pump is located on the site area of HY/2009/19</li> <li>• A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to exclude the outfall.</li> <li>• An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project</li> </ul> </li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.</p> <ul style="list-style-type: none"> <li>• Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19.</li> <li>• In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed</li> </ul> <p>2) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying with their expectation.</p> <p>3) During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.</p> <p>4) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.</p> <p>5) It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.</p> <p>6) Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.</p> <p>7) Contractors have fulfilled the requirement of site cleanliness and no exceedance was recorded during Water Quality Monitoring. It is considered the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection</p>	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	<p>1) RSS notified ET to carry out investigation on 17 October 2011.</p> <p>2) ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main re-provision works along the Harbour Road. The plants including the excavator have been checked before using</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site.</p> <p>3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</p> <p>4) Contractor was reminded to enhance regular checking and maintenance to all plants at site.</p> <p>5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.</p>	
111104	04/11/2011	Mr. Liu from LCS D complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	<p>1) ET confirmed with the Resident Site Staff that</p> <ul style="list-style-type: none"><li>A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled.</li><li>Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate.</li></ul> <p>2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.</p>	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	<p>1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no</p>	Keep in view for three months from the date of complaint received



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>CNP was checked by the police officer.</p> <p>2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.</p> <p>3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.</p> <p>4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Furthermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour</p> <p>5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.</p>	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	<p>1) RSS notified ET on 5 April 2012.</p> <p>2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period.</p> <p>3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations.</p> <p>4) HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	





***Appendix 7.1***

***Construction Programme of Individual Contracts***

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	2011			
							Sep	Oct	Nov	Dec
<b>Reclamation in NPR3 ver.9.5 2011_11_21</b>		115	23	21-Jul-11 A	19-Dec-11	-39				
<b>Landside</b>		115	23	05-Aug-11 A	19-Dec-11	-39				
	Installation Seawall Blocks to B6 and B7	55	0	13-Aug-11 A	18-Oct-11 A					
	Construct the Concrete Coping at B6 and B7	82	0	13-Aug-11 A	07-Nov-11 A					
	Laying Geotextile & Filter Material	86	0	05-Aug-11 A	14-Nov-11 A					
	Construct Open Channel U under IEC	33	0	23-Sep-11 A	30-Oct-11 A					
	Construct Open Channel U outside IEC	32	20	30-Sep-11 A	15-Dec-11	-36				
	Construct the Drainage Pipeline at West of Open Channel U	34	0	30-Sep-11 A	31-Oct-11 A					
	Construct the Drainage Pipeline at East of Open Channel U	28	17	01-Nov-11 A	15-Dec-11	-31				
	Unloading Sorted Public Fill behind new seawall	53	0	15-Aug-11 A	20-Nov-11 A					
	Reclamation	98	23	13-Aug-11 A	19-Dec-11	-39				
<b>Seaside</b>		100	23	21-Jul-11 A	19-Dec-11	-39				
	Construction of Outlet Pipe from City Garden	54	20	12-Oct-11 A	19-Dec-11	-34				
	Construction of B8	13	13	15-Nov-11 A	09-Dec-11	-31				

█ Actual Work    
 █ Critical Remaining Work    
 ▼ Summary  
█ Remaining Work    
 ◆ Milestone

Contract No. HK/2009/01

Contract Title : Wan Chai Development Phase II - Central - Wan Chai Bypass at HKCEC

Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH	2010												2011												2012												2013											
			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Submissions before Works Commencement</b>																																																		
Submit silt curtain deployment plan	31/3/10	31/3/10	◆																																															
Submit silt screen deployment plan	31/3/10	31/3/10	◆																																															
Submit measures to mitigate noise impact	31/3/10	31/3/10	◆																																															
<b>Cross Harbour Watermains from WCN to TST (DP6)</b>																																																		
Trench dredging for marine watermains installation	29/4/10	28/10/10																																																
Backfilling for watermain	28/1/11	14/12/11																																																
<b>Reclamation Works at HKCEC Water Channel (DP3)</b>																																																		
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10																																																
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11																																																
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11																																																
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11																																																
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12																																																
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13																																																

**Dredging & Reclamation Works Programme Summary  
(based on Initial Works Programme Rev. 0)**

ID	Task Name	Duration	Start	2010 2011 2012 2013 2014 2015																							
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
1	<b>HK/2009/02-Marine &amp; Reclamation Works</b>	<b>2008 d</b>	<b>Thu 28/1/10</b>																								
2	Contract Commencement	0 d	Thu 28/1/10																								
3	<b>General</b>	<b>1879 d</b>	<b>Mon 22/2/10</b>																								
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10																								
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10																								
6	Engineer's Design review for Dredging of WCR1, WCR2 & WCR4	30 d	Mon 22/3/10																								
7	Relocation of New Star Ferry Pier	0 d	Tue 18/3/14																								
8	Demolition of Existing Star Ferry Pier	100 d	Tue 18/3/14																								
9	Stage 2 Marine GI for Reclamation	14 d	Tue 18/3/14																								
10	Engineer's Design review for Dredging of WCR3	21 d	Tue 25/3/14																								
11	Complete Diversion of Hung Hing Road Traffic Back to Original	20 d	Fri 6/2/15																								
12	Excavate & remove top of d-wall for permanent seawall construction	50 d	Wed 25/2/15																								
13	<b>Submarine Outfall</b>	<b>500 d</b>	<b>Tue 21/9/10</b>																								
14	Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea	500 d	Tue 21/9/10																								
15	<b>Phase 1 - WCR1</b>	<b>158 d</b>	<b>Wed 21/4/10</b>																								
16	Mobilization of plants	1 d	Wed 21/4/10																								
17	Seabed dredging	63 d	Wed 21/4/10																								
18	Bedding Filling and Permanent seawall (precast cassion)	60 d	Tue 22/6/10																								
19	Bulk reclamation	37 d	Fri 20/8/10																								
20	<b>Phase 2 - WCR2</b>	<b>149 d</b>	<b>Thu 1/3/12</b>																								
21	Mobilization of plants	1 d	Thu 1/3/12																								
22	Temp seawall and Seabed dredging	77 d	Thu 1/3/12																								
23	Bulk reclamation	73 d	Wed 16/5/12																								
24	<b>Phase 3 - TWCR4 &amp; WCR4</b>	<b>98 d</b>	<b>Sat 28/4/12</b>																								
25	Mobilization of plants	1 d	Sat 28/4/12																								
26	Temp Seawall and Seabed dredging	75 d	Sat 28/4/12																								
27	Bulk & temp reclamation	24 d	Wed 11/7/12																								
28	<b>Phase 4 - WCR3</b>	<b>294 d</b>	<b>Tue 18/3/14</b>																								
29	Mobilization of plants	1 d	Tue 18/3/14																								
30	Seabed dredging for Permanent Seawall	112 d	Tue 18/3/14																								
31	Backfill and permanent seawall (precast cassion)	108 d	Tue 8/7/14																								
32	Bulk reclamation	74 d	Fri 24/10/14																								
33	<b>Phase 5 - Construct Permanent Seawall Blocks along curved coastline &amp; Remove TWCR4</b>	<b>105 d</b>	<b>Wed 15/4/15</b>																								
34	Mobilization of plants	1 d	Wed 15/4/15																								
35	Dredging and Filling for permanent seawall construction	50 d	Wed 15/4/15																								
36	Construction of Permanent Seawall Blocks for curved coastline	56 d	Wed 3/6/15																								
37	Remove temp seawall and reinstate the location of TWCR4	30 d	Mon 29/6/15																								

Project: Reclamation Works Programme  
Date: Tue 9/3/10

Task		Summary		Rolled Up Progress		Project Summary	
Progress		Rolled Up Task		Split		Group By Summary	
Milestone		Rolled Up Milestone		External Tasks		Deadline	

Activity ID	Cal ID	Activity Description	Orig Dur	Early Start	Early Finish	Year																
						2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021					
<b>TCBR1E (TS1 Area)</b>																						
105	1	TCBR1E(TS1)-dredging+rockfill(pre. for seawall)	86	03DEC10*	26FEB11																	
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11																	
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12																	
<b>TCBR4</b>																						
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10																	
<b>TCBR2 + TCBR3 (TS2 Area)</b>																						
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10																	
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12																	
120	1	TCBR2&TCBR3(TS2) --temporary reclamation	115	26FEB12*	19JUN12																	
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	13OCT13																	
<b>TCBR1W (TS4 Area)</b>																						
125	1	TCBR1W(TS4)-dredging+rockfill(pre. for seawall)	40	19DEC10*	27JAN11																	
130	1	TCBR1W(TS4) --temporary reclamation	68	28JAN11	05APR11																	
165	1	TCBR1W(TS4)--removal temporary reclamation	26	27OCT13*	21NOV13																	
<b>TPCWAE</b>																						
135	1	TPCWAE-dredging+rockfill(pre. for seawall)	55	03DEC10*	26JAN11																	
140	1	TPCWAE --temporary reclamation	77	27JAN11	13APR11																	
170	1	TPCWAE--removal temporary reclamation	28	28SEP13*	25OCT13																	
<b>TPCWAW</b>																						
145	1	TPCWAW-dredging+rockfill(pre. for seawall)	47	28OCT13*	13DEC13																	
150	1	TPCWAW --temporary reclamation	83	14DEC13	06MAR14																	
175	1	TPCWAW--removal temporary reclamation	50	02JUL15*	20AUG15																	



Early Bar  
 Progress Bar  
 Critical Activity

Primavera Systems, Inc.

EP02 CHINA STATE CONSTRUCTION ENGG LTD Sheet 1 of 1  
 CONTRACT NO. HY/2009/15: CENTRAL WAN CHAI BYPASS- TUNNEL (CBTS SECTION)

Prepared based on IWP Rev. 0  
 Date Prepared: 28 Oct 2010

Act ID	Description	Orig Dur	Early Start	Early Finish	2011												2012												2013					
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR			
<b>Section I</b>																																		
<b>Contract Obligation</b>																																		
1000	Commencement of Section I of works	0	20JAN11 *		◆ Commencement of Section I of works																													
<b>Initial Works</b>																																		
1050	Apply Marine notice to Marine Department	30	21JAN11	19FEB11	■ Apply Marine notice to Marine Department (dredg)																													
1060	Apply Marine notice to Marine Dept. Piling	30	18FEB11	19MAR11	■ Apply Marine notice to Marine Dept. Piling																													
1080	Apply FEP under EP356/2009	21	28FEB11	20MAR11	■ Apply FEP under EP356/2009																													
1081	Submission of Works Schedule for FEP	14	05MAR11	21MAR11	■ Submission of Works Schedule for FEP																													
1082	Submission of Location Plan for FEP	14	05MAR11	21MAR11	■ Submission of Location Plan for FEP																													
1083	Submission of Silt Curtain Deployment	14	05MAR11	21MAR11	■ Submission of Silt Curtain Deployment Plan																													
1084	Submission of Silt Screen Deployment Plan	14	05MAR11	21MAR11	■ Submission of Silt Screen Deployment Plan																													
1085	Submission Noise Management Plan	14	05MAR11	21MAR11	■ Submission Noise Management Plan																													
1090	Apply Dumping Permit	30	18FEB11	19MAR11	■ Apply Dumping Permit																													
1100	Apply CNP	30	31JAN11	01MAR11	■ Apply CNP																													
1110	Apply C&D waste disposal	30	20JAN11	18FEB11	■ Apply C&D waste disposal																													
1120	Apply Discharge licence	30	18FEB11	19MAR11	■ Apply Discharge licence																													
1130	Notification of chemical waste Producer	30	20JAN11	18FEB11	■ Notification of chemical waste Producer																													
1140	Notification to Labor Dept-Works Commencement	30	20JAN11	18FEB11	■ Notification to Labor Dept-Works Commencement																													
1150	Submit Risk Ass to MTR	21	28FEB11	20MAR11	■ Submit Risk Ass to MTR																													
1260	Erect Hoarding	30	28FEB11	29MAR11	■ Erect Hoarding																													
1270	Demarcation of Marine Site Boundary	21	01MAR11	21MAR11	■ Demarcation of Marine Site Boundary																													
1280	Working Site Office establishment	14	27JAN11	09FEB11	■ Working Site Office establishment																													
<b>Monitoring</b>																																		
1160	Takeover monitoring system from C1	0	21MAR11 *		◆ Takeover monitoring system from C1																													
1180	Commence Monitoring- ADMS,etc	0	21MAR11		◆ Commence Monitoring- ADMS,etc																													
<b>Dredging Works</b>																																		
1070	Submit Dredging MS	30	18FEB11	19MAR11	■ Submit Dredging MS																													
1075	Acceptance of Dredging MS	0		19MAR11	◆ Acceptance of Dredging MS																													
1078	Initial Hydrographic Survey	1	20MAR11	20MAR11	■ Initial Hydrographic Survey																													
1200	Initial Dredging Works for Piling	15	22MAR11	05APR11	■ Initial Dredging Works for Piling																													
1210	Final Hydrographic survey	3	07MAY12	09MAY12	■ Final Hydrographic survey																													
1220	Final Dredging Works	7	10MAY12	16MAY12	■ Final Dredging Works																													
1230	Confirmation Hydrographic survey	70	17MAY12	25JUL12	■ Confirmation Hydrographic survey																													
<b>Piling Works</b>																																		
1240	Submit stage platform MS	30	10FEB11	11MAR11	■ Submit stage platform MS																													
1250	Submit piling MS	30	10FEB11	11MAR11	■ Submit piling MS																													
P1000	Erect temporary Piling Platform	120	06APR11	03AUG11	■ Erect temporary Piling Platform																													
P1020	Pre-drilling	150	06JUN11	02NOV11	■ Pre-drilling																													
P1040	Bored Piles Construction and Testing	250	06JUL11	11MAR12	■ Bored Piles Construction and Testing																													
P1060	Drive Sheet piles along Bored piles	140	03NOV11	21MAR12	■ Drive Sheet piles along Bored piles																													
P1080	Dismantle Temporary Piling Platform	50	25FEB12	14APR12	■ Dismantle Temporary Piling Platform																													
P1100	Dive sheet piles beyond precast seawall	90	17JAN12	15APR12	■ Dive sheet piles beyond precast seawall																													
P1120	Trim pilehead to cut-off level	210	29SEP11	25APR12	■ Trim pilehead to cut-off level																													
P1140	Cut steel casing of bore piles	210	06OCT11	02MAY12	■ Cut steel casing of bore piles																													
P1160	Cut sheet piles to design level for box units	120	08JAN12	06MAY12	■ Cut sheet piles to design level for box units																													

Start date 20JAN11  
 Finish date 19DEC12  
 Data date 20JAN11  
 Run date 05MAR11  
 Page number 1A  
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Contract no. HK/2010/06  
 Wan Chai Development Phase II- Central-Wan Chai By pass over MTR Tsuen Wan Line

GAMMON-LEADER JV

Works Schedule of Marine Works for EP-356/2009

- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

Activity ID	Activity Name	Rem Dur	Start	Finish	2012															
					January					February					March			April		
					26	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09
<b>3MRP - Jan 2012 to Apr 2012</b>																				
<b>01 - CONTRACT DATES</b>																				
01.1 - Conditions																				
0110-1100	PMI for Section 1 of the Works	0		21-Jan-12																
01.2 - Possession of Site																				
0120-2000	Possession to Portion X	0	21-Jan-12*																	
0120-2100	Possession to Portion III (Partial Possession)	0	31-Dec-11 A																	
0120-2200	Possession to Portion VA (Partial Possession)	0	31-Dec-11 A																	
0120-2300	Possession to Portion VB (Partial Possession)	0	31-Dec-11 A																	
0120-2400	Possession to Portion VC (Partial Possession)	0	31-Dec-11 A																	
0120-2500	Possession to Portion VD (Partial Possession)	0	31-Dec-11 A																	
01.5 - Period of Site Possession for each Portion																				
0150-1000	Site possession Period Portion VI	2070	20-Jan-11 A	20-Sep-17																
0150-1100	Site Possession Period Portion VIIA	2070	04-Aug-11 A	20-Sep-17																
0150-1200	Site Possession Period Portion VIIB	862	04-Aug-11 A	31-May-14																
0150-1300	Site Possession Period Portion VIIC	1208	04-Aug-11 A	12-May-15																
0150-1400	Site Possession Period Portion VIID	862	04-Aug-11 A	31-May-14																
0150-1500	Site Possession Period Portion XI	622	05-Oct-11 A	04-Oct-13																
0150-2000	Site Possession Period Portion X	2070	21-Jan-12	20-Sep-17																
0150-2500	Site Possession Period Portion VD	1293	31-Dec-11 A	05-Aug-15																
<b>02 - PRE-CONSTRUCTION WORKS</b>																				
02.2 - Contractor's Submission																				
0220-1200	Temp. Drainage Management Plan - Approval from ER	7	10-Sep-11 A	27-Jan-12																
0220-1250	Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval	8	04-Aug-11 A	28-Jan-12																
0220-1260	Drainage Pipes & Materials - Submission	14	15-Sep-11 A	03-Feb-12																
0220-1270	Drainage Pipes & Materials - ER Review/Comment	14	04-Feb-12	17-Feb-12																
0220-1280	Drainage Pipes & Materials - Resubmission	7	18-Feb-12	24-Feb-12																
0220-1290	Drainage Pipes & Materials - ER Approval	14	25-Feb-12	09-Mar-12																
0220-1300	Drainage Pipes & Materials - Procurement & Delivery	14	03-Mar-12	16-Mar-12																
0220-1360	Tunnel Structures Materials - Submission	28	15-Mar-12	11-Apr-12																
0220-1370	Tunnel Structures Materials - ER Review/Comment	28	12-Apr-12	09-May-12																
0220-1460	Bridge Bearing - Submission	15	10-Oct-11 A	04-Feb-12																
0220-1470	Bridge Bearing - ER Review/Comment	28	05-Feb-12	03-Mar-12																
0220-1480	Bridge Bearing - Resubmission	14	04-Mar-12	17-Mar-12																
0220-1490	Bridge Bearing - ER Approval	28	18-Mar-12	14-Apr-12																
02.3 - Method Statement / Shop Drawings																				
0230-1131	MS Marine Piling - Submission (low headroom)	28	13-Feb-12	11-Mar-12																
0230-1132	MS Marine Piling - ER Review & Comment (low headroom)	28	12-Mar-12	08-Apr-12																
0230-1133	MS Marine Piling - Resubmission (low headroom)	28	09-Apr-12	06-May-12																
0230-1260	MS Cut & Cover Tunnel - Submission	28	21-Jan-12	17-Feb-12																
0230-1270	MS Cut & Cover Tunnel - ER Review & Comment	28	18-Feb-12	16-Mar-12																
0230-1280	MS Cut & Cover Tunnel - Resubmission	28	17-Mar-12	13-Apr-12																
0230-1340	MS Pre-cast Segment Bridge - Submission	28	01-Apr-12	28-Apr-12																
0230-1460	MS Stressing/Destressing Tendons - Submission	28	01-Mar-12	28-Mar-12																

- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone

Contract HY/2009/19

Three Month Rolling Programme (21 JAN 2012 - 20 APR 2012)

3MRP

3MRP - Jan 2012 to Apr 2012

Activity ID	Activity Name	Rem Dur	Start	Finish	2012															
					January				February				March				April			
					26	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09
0230-1470	MS Stressing/Destressing Tendons - ER Review & Comment	28	29-Mar-12	25-Apr-12																
0230-1540	MS Precasting of Bridge Segment & Beam - Submission	30	14-Dec-11 A	19-Feb-12																
0230-1550	MS Precasting of Bridge Segment & Beam - ER Review & Comment	28	20-Feb-12	18-Mar-12																
0230-1560	MS Precasting of Bridge Segment & Beam - Resubmission	36	19-Mar-12	23-Apr-12																
<b>02.4 - Contractor's Design and Build Items</b>																				
0240-1010	Temp Bridge "TA" Design - Prep & Submit	102	16-Dec-11 A	01-May-12																
0240-1090	Int. Noise Enclosure Design - Public Consultation	126	29-Jul-11 A	25-May-12																
0240-1095	Int. Noise Enclosure Design - ACABAS/ER Consultation/Submission	81	16-Dec-11 A	10-Apr-12																
0240-1100	Int. Noise Enclosure Design - ER review & comment	28	11-Apr-12	08-May-12																
0240-1120	Noise Barrier Design - Public Consultation	126	29-Jul-11 A	25-May-12																
0240-1122	Noise Barrier Design - ACABAS/ER Consultation/Submission	81	16-Dec-11 A	10-Apr-12																
0240-1124	Noise Barrier Design - ER review & comment	28	11-Apr-12	08-May-12																
0240-1130	Perm. Noise Enclosure Design - Public Consultation	180	14-Feb-12	11-Aug-12																
0240-1371	Marine Bored Piling Platform Design (F9 to F14) - Submission	0	07-Nov-11 A	27-Dec-11 A																
0240-1372	Marine Bored Piling Platform Design (F9 to F14) - ER Review/Comment	0	28-Dec-11 A	10-Jan-12 A																
0240-1373	Marine Bored Piling Platform Design (F9 to F14) - Resubmission	3	11-Jan-12 A	23-Jan-12																
0240-1374	Marine Bored Piling Platform Design (F9 to F14) - ER Approval	14	23-Jan-12	06-Feb-12																
<b>02.5 - Bridge Segment/Beam Off-site Precasting</b>																				
0250-1000	Propose, approve and set-up Factory for Pre-cast Unit	114	14-Dec-11 A	13-May-12																
0250-1100	Geometric Design of the Bridge Segments/Beams	44	14-Dec-11 A	04-Mar-12																
0250-1200	Bridge Segment/Beam Mould Preparation	24	05-Mar-12	28-Mar-12																
0250-1300	Trial Casting for Bridge Segment/Beam	18	29-Mar-12	15-Apr-12																
<b>03 - PRELIMINARY WORKS</b>																				
<b>03.1 - Site Establishment</b>																				
0310-1290	Fabrication of Special Hoarding	19	24-Oct-11 A	15-Feb-12																
0310-1300	Hoarding at Portion VA & VB	40	15-Feb-12	02-Apr-12																
0310-1400	Move in Surcharge to Portion III & VD	6	02-Apr-12	12-Apr-12																
0310-1500	Surcharge kept on Site	90	12-Apr-12	11-Jul-12																
<b>03.2 - Geotechnical Instrumentation and Monitoring Works</b>																				
0320-1050	Geotechnical Instrumentation Portion IB, ID	0	14-Nov-11 A	20-Jan-12 A																
0320-1100	Geotechnical Instrumentation Portion X	60	21-Jan-12	03-Apr-12																
<b>03.3 - Interface Works</b>																				
0330-1100	Works at FEHD Permanent Depot (Stage 1)	36	21-Jan-12	06-Mar-12																
0330-1110	Submit to FEHD/ER Relocation Sequence & Programme	6	21-Jan-12	31-Jan-12																
0330-1120	Relocate FEHD to Permanent Depot at Portions IA & X	12	07-Mar-12	20-Mar-12																
<b>04 - SECTION 1 OF THE WORKS (Subject to Excision)</b>																				
<b>04.1 - Drainage &amp; Sewerage</b>																				
0410-0980	Ground investigation + CAR & RAP approval	2	19-Jul-11 A	27-Jan-12																
0410-0990	Engineer Instruction to excision of the works	0		27-Jan-12																
0410-1010	Confirmatory Investigation/Sample/Tests/Decontamination	60	27-Jan-12	10-Apr-12																
0410-1020	Utility Coordination and Liaison	48	27-Jan-12	23-Mar-12																
0410-1030	Setting Out and Utility Detection & Protection at Portion XI	18	10-Apr-12	02-May-12																
<b>05 - SECTION 2 &amp; 2A OF THE WORKS</b>																				
<b>05.2 - Cut &amp; Cover Tunnel Ch 4932-5149</b>																				

Remaining Level of Effort  
 Actual Level of Effort  
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Activity ID	Activity Name	Rem Dur	Start	Finish	2012															
					January				February				March				April			
					25	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09
<b>05.2.1 - D-Wall Construction</b>																				
0521-1667	Construction of Temporary Loading Ramp at Portion VIIA	14	05-Dec-11 A	10-Feb-12	Construction of Temporary Loading Ramp at Portion VIIA															
0521-1710.05	D-wall Panel N106 (6m - 441cu.m)	10	23-Mar-12	03-Apr-12	D-wall Panel N106 (6m - 441cu.m)															
0521-1710.10	D-wall Panel N105 (4.8m - 354cu.m)	10	29-Feb-12	10-Mar-12	D-wall Panel N105 (4.8m - 354cu.m)															
0521-1710.15	D-wall Panel N104 (3.4m - 257cu.m)	10	11-Feb-12	22-Feb-12	D-wall Panel N104 (3.4m - 257cu.m)															
0521-1710.20	D-wall Panel N103 (3.4m - 256cu.m)	10	21-Jan-12	04-Feb-12	D-wall Panel N103 (3.4m - 256cu.m)															
0521-1710.30	D-wall Panel N102 (6m - 452cu.m)	0	21-Dec-11 A	05-Jan-12 A	D-wall Panel N102 (6m - 452cu.m)															
0521-1710.35	D-wall Panel N100 (6m - 456cu.m)	10	12-Mar-12	22-Mar-12	D-wall Panel N100 (6m - 456cu.m)															
0521-1710.40	D-wall Panel N99 (6m - 459cu.m)	12	31-Jan-12	13-Feb-12	D-wall Panel N99 (6m - 459cu.m)															
0521-1710.45	D-wall Panel N98 (6m - 462cu.m)	0	03-Dec-11 A	28-Dec-11 A	D-wall Panel N98 (6m - 462cu.m)															
0521-1710.55	D-wall Panel N96 (6m - 488cu.m)	6	03-Jan-12 A	31-Jan-12	D-wall Panel N96 (6m - 488cu.m)															
0521-1710.60	D-wall Panel N95 (6m - 492cu.m)	10	06-Feb-12	16-Feb-12	D-wall Panel N95 (6m - 492cu.m)															
0521-1750.05	D-wall Panel N94 (6m - 497cu.m)	10	23-Feb-12	05-Mar-12	D-wall Panel N94 (6m - 497cu.m)															
0521-1750.10	D-wall Panel N93 (6m - 501cu.m)	10	17-Mar-12	28-Mar-12	D-wall Panel N93 (6m - 501cu.m)															
0521-1750.15	D-wall Panel N92 (6m - 503cu.m)	10	06-Mar-12	16-Mar-12	D-wall Panel N92 (6m - 503cu.m)															
0521-1750.20	D-wall Panel N91 (6m - 472cu.m)	10	17-Feb-12	28-Feb-12	D-wall Panel N91 (6m - 472cu.m)															
0521-1750.25	D-wall Panel N90 (4.16m - 349cu.m)	0	01-Dec-11 A	30-Dec-11 A	D-wall Panel N90 (4.16m - 349cu.m)															
0521-1750.30	D-wall Panel N89 (4.16m - 349cu.m)	0	03-Nov-11 A	28-Dec-11 A	D-wall Panel N89 (4.16m - 349cu.m)															
0521-1750.35	D-wall Panel N88 (6m - 505cu.m)	0	19-Dec-11 A	13-Jan-12 A	D-wall Panel N88 (6m - 505cu.m)															
0521-1750.40	D-wall Panel N87 (6m - 506cu.m)	10	06-Mar-12	16-Mar-12	D-wall Panel N87 (6m - 506cu.m)															
0521-1750.45	D-wall Panel N86 (6m - 507cu.m)	10	29-Feb-12	10-Mar-12	D-wall Panel N86 (6m - 507cu.m)															
0521-1750.50	D-wall Panel N85 (6m - 507cu.m)	10	17-Feb-12	28-Feb-12	D-wall Panel N85 (6m - 507cu.m)															
0521-1750.55	D-wall Panel N84 (6m - 511cu.m)	5	11-Jan-12 A	30-Jan-12	D-wall Panel N84 (6m - 511cu.m)															
0521-1750.60	D-wall Panel N83 (6m - 517cu.m)	0	15-Dec-11 A	09-Jan-12 A	D-wall Panel N83 (6m - 517cu.m)															
0521-1790.10	D-wall Panel N74 (6m - 562cu.m)	10	12-Mar-12	22-Mar-12	D-wall Panel N74 (6m - 562cu.m)															
0521-1790.15	D-wall Panel N75 (6m - 554cu.m)	10	23-Feb-12	05-Mar-12	D-wall Panel N75 (6m - 554cu.m)															
0521-1790.20	D-wall Panel N76 (6m - 585cu.m)	10	11-Feb-12	22-Feb-12	D-wall Panel N76 (6m - 585cu.m)															
0521-1795.10	D-wall Panel N77 (6m - 570cu.m)	10	31-Jan-12	10-Feb-12	D-wall Panel N77 (6m - 570cu.m)															
0521-1795.15	D-wall Panel N78 (6m - 554cu.m)	5	09-Jan-12 A	30-Jan-12	D-wall Panel N78 (6m - 554cu.m)															
0521-1795.25	D-wall Panel N80 (6m - 537cu.m)	10	06-Feb-12	16-Feb-12	D-wall Panel N80 (6m - 537cu.m)															
0521-1795.30	D-wall Panel N81 (6m - 530cu.m)	0	24-Dec-11 A	16-Jan-12 A	D-wall Panel N81 (6m - 530cu.m)															
0521-1800	D-wall N59-N70 Pre-drilling (6 nos. remaining - 1 rig@6d/hole)	36	19-Sep-11 A	06-Mar-12	D-wall N59-N70 Pre-drilling (6 nos. remaining - 1 rig@6d/hole)															
0521-1810	D-wall N59-N70 Grouting for Existing Seawall Rubble Mound	21	07-Mar-12	30-Mar-12	D-wall N59-N70 Grouting for Existing Seawall Rubble Mound															
0521-1820	D-wall N59-N70 Guide Wall	12	31-Mar-12	17-Apr-12	D-wall N59-N70 Guide Wall															
0521-1840	D-wall N52-N58 Pre-drilling (7 nos@3d - 2 rig)	21	07-Mar-12	30-Mar-12	D-wall N52-N58 Pre-drilling (7 nos@3d - 2 rig)															
0521-1850	D-wall N52-N58 Grouting for Existing Seawall Rubble Mound	21	31-Mar-12	27-Apr-12	D-wall N52-N58 Grouting for Existing Seawall Rubble Mound															
0521-1920	D-wall Temp Grouting for Existing Seawall Rubble Mound	18	23-Feb-12	14-Mar-12	D-wall Temp Grouting for Existing Seawall Rubble Mound															
0521-1930	D-wall Temp End-wall Guide Wall	12	15-Mar-12	28-Mar-12	D-wall Temp End-wall Guide Wall															
0521-1945.15	Slurry-wall TEW2 (Set 2)	4	29-Mar-12	02-Apr-12	Slurry-wall TEW2 (Set 2)															
0521-1945.25	Slurry-wall TEW4 (Set 2)	4	03-Apr-12	10-Apr-12	Slurry-wall TEW4 (Set 2)															
0521-1945.35	Slurry-wall TEW6 (Set 2)	4	11-Apr-12	14-Apr-12	Slurry-wall TEW6 (Set 2)															
0521-1960.10	Site Establishment - Haul Road / Access Road	0	15-Nov-11 A	27-Dec-11 A	Site Establishment - Haul Road / Access Road															
0521-1960.20	Site Establishment - Additional Bentonite Plant	8	03-Jan-12 A	07-Feb-12	Site Establishment - Additional Bentonite Plant															
0521-1990	D-wall S102-S113 Guide Wall	12	10-Jan-12 A	07-Feb-12	D-wall S102-S113 Guide Wall															

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Activity ID	Activity Name	Rem Dur	Start	Finish	2012																		
					2011			January				February				March				April			
					26	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09	16		
0521-1990.10	D-wall Panel S113 (3.28m - 244cu.m)	10	21-Jan-12	04-Feb-12	D-wall Panel S113 (3.28m - 244cu.m)																		
0521-1990.20	D-wall Panel S111 (7.65m - 575cu.m)	10	14-Mar-12	24-Mar-12	D-wall Panel S111 (7.65m - 575cu.m)																		
0521-1990.25	D-wall Panel S110 (5.4m - 409cu.m)	10	08-Feb-12	18-Feb-12	D-wall Panel S110 (5.4m - 409cu.m)																		
0521-1990.30	D-wall Panel S109 (6m - 455cu.m)	10	25-Feb-12	07-Mar-12	D-wall Panel S109 (6m - 455cu.m)																		
0521-1990.50	D-wall Panel S105 (6m - 458cu.m)	10	31-Mar-12	14-Apr-12	D-wall Panel S105 (6m - 458cu.m)																		
0521-1990.55	D-wall Panel S104 (6m - 481cu.m)	10	20-Mar-12	30-Mar-12	D-wall Panel S104 (6m - 481cu.m)																		
0521-1990.60	D-wall Panel S103 (6m - 484cu.m)	10	14-Feb-12	24-Feb-12	D-wall Panel S103 (6m - 484cu.m)																		
0521-1990.65	D-wall Panel S102 (5.96m - 483 cu.m)	10	02-Mar-12	13-Mar-12	D-wall Panel S102 (5.96m - 483 cu.m)																		
0521-2010	D-wall S90-S101 Guide Wall	15	21-Jan-12	10-Feb-12	D-wall S90-S101 Guide Wall																		
0521-2020.20	D-wall Panel S99	10	10-Apr-12	20-Apr-12	D-wall Panel S99																		
0521-2020.25	D-wall Panel S98	10	26-Mar-12	07-Apr-12	D-wall Panel S98																		
0521-2020.30	D-wall Panel S97	10	20-Feb-12	01-Mar-12	D-wall Panel S97																		
0521-2020.35	D-wall Panel S96	10	08-Mar-12	19-Mar-12	D-wall Panel S96																		
0521-2020.40	D-wall Panel S95	10	05-Apr-12	18-Apr-12	D-wall Panel S95																		
0521-2020.45	D-wall Panel S94	10	23-Mar-12	03-Apr-12	D-wall Panel S94																		
0521-2020.50	D-wall Panel S93	10	13-Apr-12	24-Apr-12	D-wall Panel S93																		
0521-2020.55	D-wall Panel S92	10	29-Mar-12	12-Apr-12	D-wall Panel S92																		
0521-2020.65	D-wall Panel S90	10	17-Mar-12	28-Mar-12	D-wall Panel S90																		
0521-2030	D-wall S78-S89 Pre-drilling	12	10-Nov-11 A	07-Feb-12	D-wall S78-S89 Pre-drilling																		
0521-2040	D-wall S81-S89 Guide Wall	15	08-Feb-12	24-Feb-12	D-wall S81-S89 Guide Wall																		
0521-2050.20	D-wall Panel S83 (6m - 517cu.m)	12	05-Apr-12	20-Apr-12	D-wall Panel S83 (6m - 517cu.m)																		
0521-2055.15	D-wall Panel S86 (6m - 507cu.m)	12	13-Apr-12	26-Apr-12	D-wall Panel S86 (6m - 507cu.m)																		
0521-2060	D-wall S66-S77 Pre-drilling	25	08-Feb-12	07-Mar-12	D-wall S66-S77 Pre-drilling																		
0521-2070	D-wall S66-S77 Guide Wall	15	08-Mar-12	24-Mar-12	D-wall S66-S77 Guide Wall																		
0521-2085	D-wall S66-S67 Construction (2 nos@8d - Team 4)	12	02-Apr-12*	18-Apr-12	D-wall S66-S67 Construction (2 nos@8d - Team 4)																		
0521-2090	D-wall S60-S65 Pre-drilling	25	29-Mar-12	30-Apr-12	D-wall S60-S65 Pre-drilling																		
0521-2150	D-wall N52-N106 G.I. Preliminary Report / Founding Level	37	07-Mar-12	21-Apr-12	D-wall N52-N106 G.I. Preliminary Report / Founding Level																		
<b>05.2.2 - Barrette Construction</b>																							
0522-2180	Barrette BC53-BC56 Pre-drilling	18	08-Mar-12	28-Mar-12	Barrette BC53-BC56 Pre-drilling																		
0522-2190	Barrette BC54-BC56 Grouting for Existing Seawall Rubble Mound	12	29-Mar-12	14-Apr-12	Barrette BC54-BC56 Grouting for Existing Seawall Rubble Mound																		
0522-2220	Barrette BC57-BC68 Pre-drilling	0	14-Nov-11 A	28-Dec-11 A	Barrette BC57-BC68 Pre-drilling																		
0522-2230	Barrette BC57-BC68 Grouting for Existing Seawall Rubble Mound	30	21-Jan-12	28-Feb-12	Barrette BC57-BC68 Grouting for Existing Seawall Rubble Mound																		
0522-2240	Barrette BC57-BC68 Guide Wall	24	15-Feb-12	13-Mar-12	Barrette BC57-BC68 Guide Wall																		
0522-2270	Barrette BC43-BC52 Pre-drilling	25	19-Mar-12	19-Apr-12	Barrette BC43-BC52 Pre-drilling																		
0522-2280	Barrette BC43-BC52 Grouting for Existing Seawall Rubble Mound	12	12-Apr-12	25-Apr-12	Barrette BC43-BC52 Grouting for Existing Seawall Rubble Mound																		
<b>05.2.3 - ELS</b>																							
0523-2398	Prepare & Submit Documents as per ETWB TCW No. 15/2005	30	21-Jan-12	28-Feb-12	Prepare & Submit Documents as per ETWB TCW No. 15/2005																		
<b>05.3 - Box Culvert T1</b>																							
0530-2990	Bay 4-5 Trench excavation	1	14-Nov-11 A	26-Jan-12	Bay 4-5 Trench excavation																		
0530-3000	Bay 4-5 Box Culvert Construction	42	26-Jan-12	15-Mar-12	Bay 4-5 Box Culvert Construction																		
0530-3010	Bay 4-5 Road Reinstatement	7	15-Mar-12	23-Mar-12	Bay 4-5 Road Reinstatement																		
0530-3020	Implement Watson Road TTM Stage 2	3	21-Mar-12	23-Mar-12	Implement Watson Road TTM Stage 2																		
0530-3030	Bay 1-3 Site Clearance/Formation	3	24-Mar-12	27-Mar-12	Bay 1-3 Site Clearance/Formation																		
0530-3040	Bay 1-3 Trench excavation	36	28-Mar-12	12-May-12	Bay 1-3 Trench excavation																		

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Activity ID	Activity Name	Rem Dur	Start	Finish	2012															
					January				February				March				April			
					26	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09
0530-3111	Bay 9 - Sheet Piling Works	12	15-Oct-11 A	11-Feb-12	Bay 9 - Sheet Piling Works															
0530-3113	Bay 9 - Excavation	12	23-Feb-12	07-Mar-12	Bay 9 - Excavation															
0530-3114	Bay 9 - Box Culvert/Outfall Construction	48	08-Mar-12	07-May-12																
0530-3200	Storm Drainage 1500 Dia. Within Portlon X (FEHD)	60	21-Mar-12	02-Jun-12																
<b>10 - SECTION X OF THE WORKS</b>																				
<b>10.1 - E/B Bridges (Bridge D, E and F)</b>																				
<b>10.1.1 - Marine Pier Construction</b>																				
<b>Prep F02 to F15</b>																				
1011-1420	Extract Existing Dolphin Front Pile pier F9	0	26-Dec-11 A	26-Dec-11 A	Extract Existing Dolphin Front Pile pier F9															
1011-1425	Remove Existing Dolphin pier F9	0	31-Dec-11 A	03-Jan-12 A	Remove Existing Dolphin pier F9															
1011-1430	Extract Existing Dolphin Front Pile pier F10	0	29-Dec-11 A	29-Dec-11 A	Extract Existing Dolphin Front Pile pier F10															
1011-1435	Remove Existing Dolphin pier F10	0	31-Dec-11 A	03-Jan-12 A	Remove Existing Dolphin pier F10															
1011-1570.30	F7 piling platform - temporary piles 5 & 6	0	16-Dec-11 A	29-Dec-11 A	F7 piling platform - temporary piles 5 & 6															
1011-1570.40	F7 piling platform - erect steel platform modules 3 & 4	0	27-Dec-11 A	07-Jan-12 A	F7 piling platform - erect steel platform modules 3 & 4															
1011-1570.50	F7 piling platform - ICE	0	04-Jan-12 A	18-Jan-12 A	F7 piling platform - ICE															
1011-1580.20	F8 piling platform - erect steel platform modules 1 & 2	0	16-Nov-11 A	26-Dec-11 A	F8 piling platform - erect steel platform modules 1 & 2															
1011-1580.30	F8 piling platform - temporary piles 5 & 6	0	27-Dec-11 A	03-Jan-12 A	F8 piling platform - temporary piles 5 & 6															
1011-1580.40	F8 piling platform - erect steel platform modules 3 & 4	0	04-Jan-12 A	11-Jan-12 A	F8 piling platform - erect steel platform modules 3 & 4															
1011-1580.50	F8 piling platform - ICE	0	12-Jan-12 A	16-Jan-12 A	F8 piling platform - ICE															
1011-1590	Erect marine piling platform pier F9	32	10-Jan-12 A	02-Mar-12	Erect marine piling platform pier F9															
1011-1600	Erect marine piling platform pier F10	32	10-Jan-12 A	02-Mar-12	Erect marine piling platform pier F10															
1011-1610	Erect marine piling platform pier F11	18	20-Oct-11 A	15-Feb-12	Erect marine piling platform pier F11															
1011-1620	Erect marine piling platform pier F12	18	26-Oct-11 A	14-Feb-12	Erect marine piling platform pier F12															
1011-1630	Erect marine piling platform pier F13	18	01-Nov-11 A	20-Apr-12	Erect marine piling platform pier F13															
1011-1640	Erect marine piling platform pier F14	18	08-Nov-11 A	09-May-12	Erect marine piling platform pier F14															
1011-1670	Pre-drill F7 raking dolphin piles (2 nos.)	3	03-Dec-11 A	27-Jan-12	Pre-drill F7 raking dolphin piles (2 nos.)															
1011-1680	Pre-drill F8 raking dolphin piles (2 nos.)	5	05-Jan-12 A	02-Feb-12	Pre-drill F8 raking dolphin piles (2 nos.)															
1011-1690	Pre-drill F9 raking dolphin piles (2 nos.)	10	02-Mar-12	14-Mar-12	Pre-drill F9 raking dolphin piles (2 nos.)															
1011-1700	Pre-drill F10 raking dolphin piles (2 nos.)	10	14-Mar-12	26-Mar-12	Pre-drill F10 raking dolphin piles (2 nos.)															
1011-1710	Pre-drill F11 raking dolphin piles (2 nos.)	10	16-Feb-12	27-Feb-12	Pre-drill F11 raking dolphin piles (2 nos.)															
1011-1720	Pre-drill F12 raking dolphin piles (2 nos.)	10	28-Feb-12	09-Mar-12	Pre-drill F12 raking dolphin piles (2 nos.)															
1011-1760.20	Pier F3 Marine Bore Pile - F3-4	0	24-Dec-11 A	17-Jan-12 A	Pier F3 Marine Bore Pile - F3-4															
1011-1760.30	Pier F3 Marine Bore Pile - F3-7	12	21-Jan-12	07-Feb-12	Pier F3 Marine Bore Pile - F3-7															
1011-1760.40	Pier F3 Marine Bore Pile - F3-3	12	08-Feb-12	21-Feb-12	Pier F3 Marine Bore Pile - F3-3															
1011-1760.50	Pier F3 Marine Bore Pile - F3-6	12	22-Feb-12	06-Mar-12	Pier F3 Marine Bore Pile - F3-6															
1011-1760.60	Pier F3 Marine Bore Pile - F3-2	12	07-Mar-12	20-Mar-12	Pier F3 Marine Bore Pile - F3-2															
1011-1760.70	Pier F3 Marine Bore Pile - F3-5	12	21-Mar-12	03-Apr-12	Pier F3 Marine Bore Pile - F3-5															
1011-1760.80	Pier F3 Marine Bore Pile - F3-1	12	05-Apr-12	20-Apr-12	Pier F3 Marine Bore Pile - F3-1															
1011-1790	Pier F6 Dolphin Pile (team 4)	72	16-Mar-12	13-Jun-12	Pier F6 Dolphin Pile (team 4)															
1011-1800.10	Pier F6 Marine Bore Pile - F6-2	10	15-Dec-11 A	04-Feb-12	Pier F6 Marine Bore Pile - F6-2															
1011-1800.20	Pier F6 Marine Bore Pile - F6-3	11	07-Jan-12 A	17-Feb-12	Pier F6 Marine Bore Pile - F6-3															
1011-1800.30	Pier F6 Marine Bore Pile - F6-1	12	17-Feb-12	02-Mar-12	Pier F6 Marine Bore Pile - F6-1															
1011-1800.40	Pier F6 Marine Bore Pile - F6-4	12	02-Mar-12	16-Mar-12	Pier F6 Marine Bore Pile - F6-4															
1011-1802	Pier F9 Dolphin Pile (team 4)	72	16-Mar-12	13-Jun-12	Pier F9 Dolphin Pile (team 4)															

Remaining Level of Effort  
 Actual Level of Effort  
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 Milestone

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


Activity ID	Activity Name	Rem Dur	Start	Finish	2012																
					January					February					March				April		
					26	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09	16
1011-1810	Pier F5 Dolphin Pile (team 3)	72	29-Feb-12	26-May-12																	
1011-1820.10	Pier F5 Marine Bore Pile - F5-4	0	09-Dec-11 A	07-Jan-12 A	Pier F5 Marine Bore Pile - F5-4																
1011-1820.20	Pier F5 Marine Bore Pile - F5-2	6	13-Jan-12 A	31-Jan-12	Pier F5 Marine Bore Pile - F5-2																
1011-1820.30	Pier F5 Marine Bore Pile - F5-1	12	01-Feb-12	14-Feb-12	Pier F5 Marine Bore Pile - F5-1																
1011-1820.40	Pier F5 Marine Bore Pile - F5-3	12	15-Feb-12	28-Feb-12	Pier F5 Marine Bore Pile - F5-3																
1011-1822	Pier F12 Dolphin Pile (team 3)	72	10-Mar-12	06-Jun-12																	
1011-1850	Pier F4 Dolphin Pile (team 2)	36	21-Mar-12	05-May-12																	
1011-1860.20	Pier F4 Marine Bore Pile - F4-6	0	19-Dec-11 A	14-Jan-12 A	Pier F4 Marine Bore Pile - F4-6																
1011-1860.30	Pier F4 Marine Bore Pile - F4-5	12	21-Jan-12	07-Feb-12	Pier F4 Marine Bore Pile - F4-5																
1011-1860.40	Pier F4 Marine Bore Pile - F4-2	12	08-Feb-12	21-Feb-12	Pier F4 Marine Bore Pile - F4-2																
1011-1860.50	Pier F4 Marine Bore Pile - F4-4	12	22-Feb-12	06-Mar-12	Pier F4 Marine Bore Pile - F4-4																
1011-1860.60	Pier F4 Marine Bore Pile - F4-1	12	07-Mar-12	20-Mar-12	Pier F4 Marine Bore Pile - F4-1																
1011-1864.10	Pier F8 Marine Bored Pile F8-4	8	16-Jan-12 A	03-Feb-12	Pier F8 Marine Bored Pile F8-4																
1011-1864.20	Pier F8 Marine Bored Pile F8-2	12	03-Feb-12	17-Feb-12	Pier F8 Marine Bored Pile F8-2																
1011-1864.30	Pier F8 Marine Bored Pile F8-3	12	17-Feb-12	02-Mar-12	Pier F8 Marine Bored Pile F8-3																
1011-1864.40	Pier F8 Marine Bored Pile F8-1	12	02-Mar-12	16-Mar-12	Pier F8 Marine Bored Pile F8-1																
1011-1910	Pier F7 Dolphin Pile (team 5)	72	19-Mar-12	15-Jun-12																	
1011-1920.10	Pier F7 Marine Bored Pile F7-4	11	19-Jan-12 A	06-Feb-12	Pier F7 Marine Bored Pile F7-4																
1011-1920.20	Pier F7 Marine Bored Pile F7-2	12	06-Feb-12	20-Feb-12	Pier F7 Marine Bored Pile F7-2																
1011-1920.30	Pier F7 Marine Bored Pile F7-3	12	20-Feb-12	05-Mar-12	Pier F7 Marine Bored Pile F7-3																
1011-1920.40	Pier F7 Marine Bored Pile F7-1	12	05-Mar-12	19-Mar-12	Pier F7 Marine Bored Pile F7-1																
1011-2010	Dismantle Piling Platform at Pier F5	6	21-Mar-12	27-Mar-12	Dismantle Piling Platform at Pier F5																
1011-2020	Dismantle Piling Platform at Pier F6	6	10-Apr-12	17-Apr-12	Dismantle Piling Platform at Pier F6																
1011-2100	Marine bored pile testing F5	18	29-Feb-12	20-Mar-12	Marine bored pile testing F5																
1011-2105	Marine bored pile testing F6	18	16-Mar-12	10-Apr-12	Marine bored pile testing F6																
<b>Pier F01 to F02</b>																					
1011-2540	Possession to Portion III	0	31-Dec-11 A		◆ Possession to Portion III																
1011-2550	Marine piling preparation works, portion III	0	31-Dec-11 A	06-Jan-12 A	Marine piling preparation works, portion III																
1011-2560	Erect Piling Platform pier F2B	7	09-Jan-12 A	01-Feb-12	Erect Piling Platform pier F2B																
1011-2570	Erect Pre-drilling Platform pier F2A	9	11-Feb-12	22-Feb-12	Erect Pre-drilling Platform pier F2A																
1011-2580	Erect Pre-drilling Platform pier F1B	9	01-Feb-12	11-Feb-12	Erect Pre-drilling Platform pier F1B																
1011-2590	Erect Pre-drilling Platform pier F1A	9	22-Feb-12	03-Mar-12	Erect Pre-drilling Platform pier F1A																
1011-2600	Pre-drilling pier F2B	10	22-Feb-12	05-Mar-12	Pre-drilling pier F2B																
1011-2610	Pre-drilling pier F2A	15	22-Feb-12	10-Mar-12	Pre-drilling pier F2A																
1011-2620	Pre-drilling pier F1B	10	05-Mar-12	16-Mar-12	Pre-drilling pier F1B																
1011-2630	Pre-drilling pier F1A	15	05-Mar-12	22-Mar-12	Pre-drilling pier F1A																
1011-2635	Portion III Marine Pile G.I. Final Report / Founding Level	30	22-Mar-12	30-Apr-12																	
1011-2680	Remove existing dolphin pier F2	0	31-Dec-11 A	03-Jan-12 A	Remove existing dolphin pier F2																
1011-2690	Remove existing dolphin pier F1	0	31-Dec-11 A	03-Jan-12 A	Remove existing dolphin pier F1																
1011-2770	Marine bored pile F2B	48	29-Mar-12	29-May-12																	
1011-2780	Marine bored pile F1B	48	29-Mar-12	29-May-12																	
<b>10.1.2 - Land Pier Construction</b>																					
<b>Pier D08 to D11</b>																					
1012-1010	Site Survey and Setting Out at Portion III	0	31-Dec-11 A	06-Jan-12 A	Site Survey and Setting Out at Portion III																

- Remaining Level of Effort
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Activity ID	Activity Name	Rem Dur	Start	Finish	2012																															
					2011							January							February							March							April			
					26	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09	16	23	30	06	13	20	27	05	12	19	26	02	09	16		
1012-1015	Pre-drilling for Piling (D08 to D12) at III (28 no.) (4set)	16	03-Jan-12 A	13-Feb-12	Pre-drilling for Piling (D08 to D12) at III (28 no.) (4set)																															
1012-1020	Portion III Land Pile G.I. Prelim Report / Founding Level	6	13-Feb-12	20-Feb-12	Portion III Land Pile G.I. Prelim Report / Founding Level																															
1012-1025	Portion III Land Pile G.I. Final Report / Founding Level	24	20-Feb-12	19-Mar-12	Portion III Land Pile G.I. Final Report / Founding Level																															
1012-1030.10	Pier D08 Bored Pile D8-1	12	13-Feb-12	27-Feb-12	Pier D08 Bored Pile D8-1																															
1012-1030.20	Pier D08 Bored Pile D8-6	12	27-Feb-12	12-Mar-12	Pier D08 Bored Pile D8-6																															
1012-1030.30	Pier D08 Bored Pile D8-2	12	12-Mar-12	26-Mar-12	Pier D08 Bored Pile D8-2																															
1012-1030.40	Pier D08 Bored Pile D8-5	12	26-Mar-12	12-Apr-12	Pier D08 Bored Pile D8-5																															
1012-1030.50	Pier D08 Bored Pile D8-3	12	12-Apr-12	26-Apr-12	Pier D08 Bored Pile D8-3																															
1012-1040.10	Pier D09 Bored Pile D9-1	12	13-Feb-12	27-Feb-12	Pier D09 Bored Pile D9-1																															
1012-1040.20	Pier D09 Bored Pile D9-6	12	27-Feb-12	12-Mar-12	Pier D09 Bored Pile D9-6																															
1012-1040.30	Pier D09 Bored Pile D9-2	12	12-Mar-12	26-Mar-12	Pier D09 Bored Pile D9-2																															
1012-1040.40	Pier D09 Bored Pile D9-5	12	26-Mar-12	12-Apr-12	Pier D09 Bored Pile D9-5																															
1012-1040.50	Pier D09 Bored Pile D9-3	12	12-Apr-12	26-Apr-12	Pier D09 Bored Pile D9-3																															
1012-1050.10	Pier D10 Bored Pile D10-1	12	20-Feb-12	05-Mar-12	Pier D10 Bored Pile D10-1																															
1012-1050.20	Pier D10 Bored Pile D10-6	12	05-Mar-12	19-Mar-12	Pier D10 Bored Pile D10-6																															
1012-1050.30	Pier D10 Bored Pile D10-2	12	19-Mar-12	02-Apr-12	Pier D10 Bored Pile D10-2																															
1012-1050.40	Pier D10 Bored Pile D10-5	12	02-Apr-12	19-Apr-12	Pier D10 Bored Pile D10-5																															
1012-1060.10	Pier D11 Bored Pile D11-1	12	05-Mar-12	19-Mar-12	Pier D11 Bored Pile D11-1																															
1012-1060.20	Pier D11 Bored Pile D11-6	12	19-Mar-12	02-Apr-12	Pier D11 Bored Pile D11-6																															
1012-1060.30	Pier D11 Bored Pile D11-2	12	02-Apr-12	19-Apr-12	Pier D11 Bored Pile D11-2																															
<b>Pier D05 to D07</b>																																				
1012-1260	Pre-drilling for 18 nos Piling at VIIB ( 2set)	11	08-Aug-11 A	06-Feb-12	Pre-drilling for 18 nos Piling at VIIB ( 2set)																															
1012-1265	Portion VIIB Land Pile G.I. Final Report / Founding Level	15	03-Oct-11 A	23-Feb-12	Portion VIIB Land Pile G.I. Final Report / Founding Level																															
1012-1270	Pier D07 Bored Piles (6 piles)	108	23-Feb-12	05-Jul-12	Pier D07 Bored Piles (6 piles)																															
1012-1280.50	Pier D06 Bored Pile D06-4	8	03-Jan-12 A	02-Feb-12	Pier D06 Bored Pile D06-4																															
1012-1280.60	Pier D06 Bored Pile D06-3	0	21-Dec-11 A	18-Jan-12 A	Pier D06 Bored Pile D06-3																															
1012-1290.20	Pier D05 Bored Pile D05-1	13	02-Dec-11 A	19-Apr-12	Pier D05 Bored Pile D05-1																															
<b>10.1.3 - E/B Bridge Construction</b>																																				
<b>Bridge D3</b>																																				
1013-1000	Design & Procurement of Launching Girder	75	21-Jan-12	24-Apr-12	Design & Procurement of Launching Girder																															
<b>14 - SECTION 14 OF THE WORKS</b>																																				
<b>14.1 - Soft Landscape</b>																																				
1410-1000	Transplant. of ex. Trees to Nursery & upkeep	1515	21-Jan-12	09-Feb-17	Transplant. of ex. Trees to Nursery & upkeep																															

-  Remaining Level of Effort
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Activity ID	Activity Name	Rem Dur	Start	Finish	2012																	
					March					April					May				June			
					20	27	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18
<b>3MRP - MAR 2012 to JUN 2012</b>																						
<b>01 - CONTRACT DATES</b>																						
<b>01.1 - Conditions</b>																						
0110-1100	PMI for Section 1 of the Works	0		21-Mar-12																		
<b>01.5 - Period of Site Possession for each Portion</b>																						
0150-1000	Site possession Period Portion VI	2030	20-Jan-11 A	10-Oct-17																		
0150-1100	Site Possession Period Portion VIIA	2030	04-Aug-11 A	10-Oct-17																		
0150-1200	Site Possession Period Portion VIIIB	732	04-Aug-11 A	22-Mar-14																		
0150-1300	Site Possession Period Portion VIIC	1169	04-Aug-11 A	02-Jun-15																		
0150-1400	Site Possession Period Portion VIID	732	04-Aug-11 A	22-Mar-14																		
0150-1500	Site Possession Period Portion XI	622	05-Oct-11 A	03-Dec-13																		
0150-1700	Site Possession Period Portion IB	732	10-Nov-11 A	22-Mar-14																		
0150-1800	Site Possession Period Portion IC	1169	10-Nov-11 A	02-Jun-15																		
0150-1900	Site Possession Period Portion ID	732	10-Nov-11 A	22-Mar-14																		
0150-2000	Site Possession Period Portion X	2030	10-Nov-11 A	10-Oct-17																		
0150-2100	Site Possession Period Portion III	2030	31-Dec-11 A	10-Oct-17																		
0150-2200	Site Possession Period Portion VA	2030	31-Dec-11 A	10-Oct-17																		
0150-2300	Site Possession Period Portion VB	976	31-Dec-11 A	21-Nov-14																		
0150-2400	Site Possession Period Portion VC	2030	31-Dec-11 A	10-Oct-17																		
0150-2500	Site Possession Period Portion VD	1233	31-Dec-11 A	05-Aug-15																		
<b>02 - PRE-CONSTRUCTION WORKS</b>																						
<b>02.2 - Contractor's Submission</b>																						
0220-1250	Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval	8	04-Aug-11 A	28-Mar-12																		
0220-1260	Drainage Pipes & Materials - Submission	7	15-Sep-11 A	27-Mar-12																		
0220-1270	Drainage Pipes & Materials - ER Review/Comment	14	28-Mar-12	10-Apr-12																		
0220-1280	Drainage Pipes & Materials - Resubmission	7	11-Apr-12	17-Apr-12																		
0220-1290	Drainage Pipes & Materials - ER Approval	14	18-Apr-12	01-May-12																		
0220-1300	Drainage Pipes & Materials - Procurement & Delivery	14	25-Apr-12	08-May-12																		
0220-1360	Tunnel Structures Materials - Submission	28	21-Mar-12	17-Apr-12																		
0220-1370	Tunnel Structures Materials - ER Review/Comment	28	18-Apr-12	15-May-12																		
0220-1380	Tunnel Structures Materials - Resubmission	14	16-May-12	29-May-12																		
0220-1390	Tunnel Structures Materials - ER Approval	21	30-May-12	19-Jun-12																		
0220-1460	Bridge Bearing - Submission	15	10-Oct-11 A	04-Apr-12																		
0220-1470	Bridge Bearing - ER Review/Comment	28	05-Apr-12	02-May-12																		
0220-1480	Bridge Bearing - Resubmission	14	03-May-12	16-May-12																		
0220-1490	Bridge Bearing - ER Approval	28	17-May-12	13-Jun-12																		
<b>02.3 - Method Statement / Shop Drawings</b>																						
0230-1131	MS Marine Piling - Submission (low headroom)	28	21-Mar-12	17-Apr-12																		
0230-1132	MS Marine Piling - ER Review & Comment (low headroom)	28	18-Apr-12	15-May-12																		
0230-1133	MS Marine Piling - Resubmission (low headroom)	28	16-May-12	12-Jun-12																		
0230-1260	MS Cut & Cover Tunnel - Submission	28	21-Mar-12	17-Apr-12																		
0230-1270	MS Cut & Cover Tunnel - ER Review & Comment	28	18-Apr-12	15-May-12																		
0230-1280	MS Cut & Cover Tunnel - Resubmission	28	16-May-12	12-Jun-12																		
0230-1340	MS Pre-cast Segment Bridge - Submission	28	01-Apr-12	28-Apr-12																		

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**Three Month Rolling Programme (21 MAR 2012 to 20 JUN 2012)**

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Activity ID	Activity Name	Rem Dur	Start	Finish	2012																	
					March					April				May				June				
					20	27	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18
0230-1350	MS Pre-cast Segment Bridge - ER Review & Comment	28	29-Apr-12	26-May-12																		
0230-1360	MS Pre-cast Segment Bridge - Resubmission	28	27-May-12	23-Jun-12																		
0230-1460	MS Stressing/Destressing Tendons - Submission	28	21-Mar-12	17-Apr-12																		
0230-1470	MS Stressing/Destressing Tendons - ER Review & Comment	28	18-Apr-12	15-May-12																		
0230-1480	MS Stressing/Destressing Tendons - Resubmission	28	16-May-12	12-Jun-12																		
0230-1540	MS Precasting of Bridge Segment & Beam - Submission	18	14-Dec-11 A	07-Apr-12																		
0230-1550	MS Precasting of Bridge Segment & Beam - ER Review & Comment	28	08-Apr-12	05-May-12																		
0230-1560	MS Precasting of Bridge Segment & Beam - Resubmission	36	06-May-12	10-Jun-12																		
0230-1570	MS Precasting of Bridge Segment & Beam - ER Approval	28	11-Jun-12	08-Jul-12																		
0230-1700	MS Temporary Bridge TA - Submission	28	03-Jun-12	30-Jun-12																		
<b>02.4 - Contractor's Design and Build Items</b>																						
0240-1010	Temp Bridge "TA" Design - Prep & Submit	60	16-Dec-11 A	19-May-12																		
0240-1020	Temp Bridge "TA" Design - ER review and comment	28	20-May-12	16-Jun-12																		
0240-1041	Temp Bridge "TD" Design - Prep & Submit	120	14-Apr-12	11-Aug-12																		
0240-1090	Int. Noise Enclosure Design - Public Consultation	90	29-Jul-11 A	18-Jun-12																		
0240-1095	Int. Noise Enclosure Design - ACABAS/ER Consultation/Submission	81	16-Dec-11 A	09-Jun-12																		
0240-1100	Int. Noise Enclosure Design - ER review & comment	28	10-Jun-12	07-Jul-12																		
0240-1120	Noise Barrier Design - Public Consultation	90	29-Jul-11 A	18-Jun-12																		
0240-1122	Noise Barrier Design - ACABAS/ER Consultation/Submission	81	16-Dec-11 A	09-Jun-12																		
0240-1124	Noise Barrier Design - ER review & comment	28	10-Jun-12	07-Jul-12																		
0240-1130	Perm. Noise Enclosure Design - Public Consultation	166	14-Feb-12 A	02-Sep-12																		
<b>02.5 - Bridge Segment/Beam Off-site Precasting</b>																						
0250-1000	Propose, approve and set-up Factory for Pre-cast Unit	61	14-Dec-11 A	20-May-12																		
0250-1100	Geometric Design of the Bridge Segments/Beams	26	14-Dec-11 A	15-Apr-12																		
0250-1200	Bridge Segment/Beam Mould Preparation	24	15-Apr-12	09-May-12																		
0250-1300	Trial Casting for Bridge Segment/Beam	18	09-May-12	27-May-12																		
0250-1400	Preparation for Bridge Segment /Beam Production	30	27-May-12	26-Jun-12																		
<b>03 - PRELIMINARY WORKS</b>																						
<b>03.1 - Site Establishment</b>																						
0310-1290	Fabrication of Special Hoarding	64	24-Oct-11 A	07-Jun-12																		
0310-1300	Hoarding at Portion VA & VB	40	07-Jun-12	26-Jul-12*																		
0310-1400	Move in Surcharge to Portion III & VD	6	21-Mar-12	27-Mar-12																		
0310-1500	Surcharge kept on Site	90	28-Mar-12	25-Jun-12																		
<b>03.2 - Geotechnical Instrumentation &amp; Monitoring Works</b>																						
0320-1100	Geotechnical Instrumentation Portion X	60	21-Mar-12	02-Jun-12																		
<b>03.3 - Interface Works</b>																						
0330-1100	Works at FEHD Permanent Depot (Stage 1)	36	21-Mar-12	05-May-12																		
0330-1110	Submit to FEHD/ER Relocation Sequence & Programme	6	21-Mar-12	27-Mar-12																		
0330-1120	Relocate FEHD to Permanent Depot at Portions IA & X	12	07-May-12	19-May-12																		
<b>04 - SECTION 1 OF THE WORKS (Subject to Excision)</b>																						
<b>04.1 - Drainage &amp; Sewerage</b>																						
0410-0980	Ground investigation + CAR & RAP approval	2	19-Jul-11 A	23-Mar-12																		
0410-0990	Engineer Instruction to excision of the works	0		23-Mar-12																		
0410-1010	Confirmatory Investigation/Sample/Tests/Decontamination	60	23-Mar-12	06-Jun-12																		

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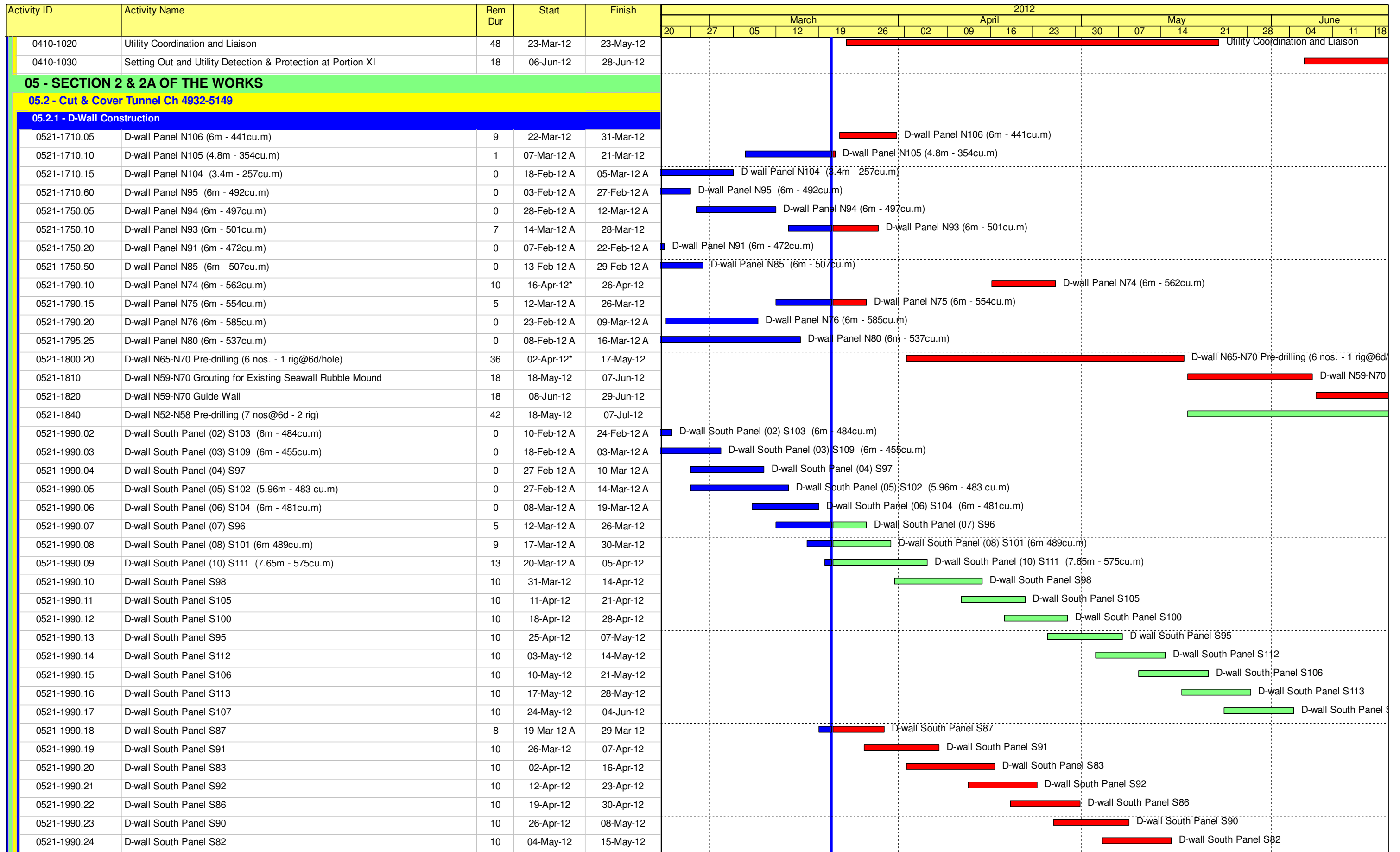
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- ◆ Milestone

**Contract HY/2009/19**

**Three Month Rolling Programme (21 MAR 2012 to 20 JUN 2012)**

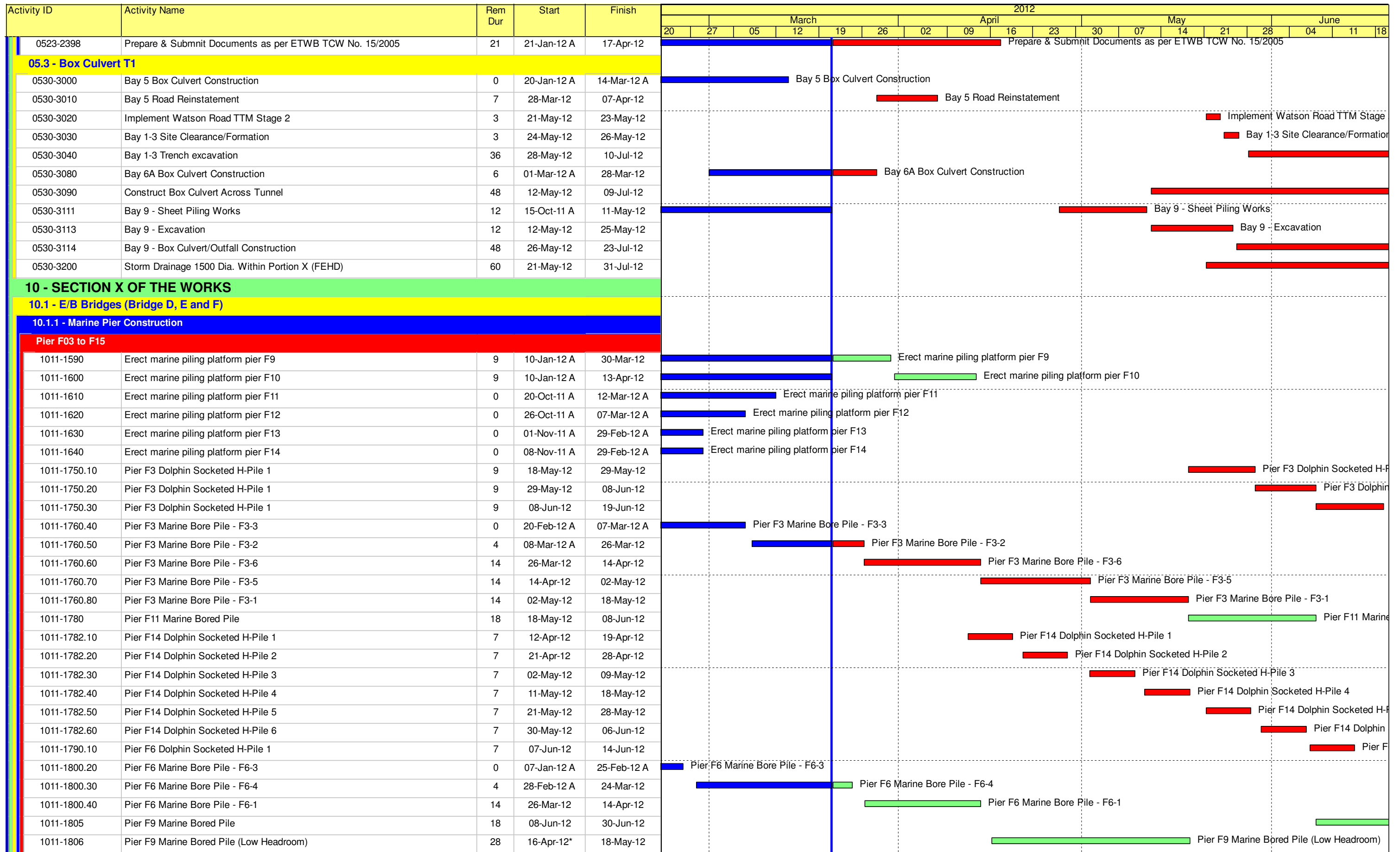
3MRP

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- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

**Contract HY/2009/19**

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Activity ID	Activity Name	Rem Dur	Start	Finish	2012																							
					March						April						May						June					
					20	27	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18						
<b>Abutment D12</b>																												
1012-1071	Abutment E/B Bridge Bored Pile D12-1	0	21-Feb-12 A	17-Mar-12 A	Abutment E/B Bridge Bored Pile D12-1																							
1012-1072	Abutment E/B Bridge Bored Pile D12-8	9	17-Mar-12 A	30-Mar-12	Abutment E/B Bridge Bored Pile D12-8																							
1012-1073	Abutment E/B Bridge Bored Pile D12-3	12	31-Mar-12	17-Apr-12	Abutment E/B Bridge Bored Pile D12-3																							
1012-1074	Abutment E/B Bridge Bored Pile D12-4	12	18-Apr-12	02-May-12	Abutment E/B Bridge Bored Pile D12-4																							
1012-1090	Abutment D12 E/B Bridge Bored Pile Testing	18	03-May-12	23-May-12	Abutment D12 E/B Bridge Bored Pile																							
1012-1220	Abutment D12 construction (E/B Bridge)	42	24-May-12	13-Jul-12																								
<b>Pier D08 to D11</b>																												
1012-1015	Pre-drilling for Pilings (D08 to D12) at III (28 no.) (4set)	0	03-Jan-12 A	07-Mar-12 A	Pre-drilling for Pilings (D08 to D12) at III (28 no.) (4set)																							
1012-1020	Portion III Land Pile G.I. Prelim Report / Founding Level	6	21-Mar-12	27-Mar-12	Portion III Land Pile G.I. Prelim Report / Founding Level																							
1012-1025	Portion III Land Pile G.I. Final Report / Founding Level	24	28-Mar-12	27-Apr-12	Portion III Land Pile G.I. Final Report / Founding Level																							
1012-1040.20	Pier D09 Bored Pile D9-2	0	20-Feb-12 A	02-Mar-12 A	Pier D09 Bored Pile D9-2																							
1012-1040.30	Pier D09 Bored Pile D9-1	0	03-Mar-12 A	17-Mar-12 A	Pier D09 Bored Pile D9-1																							
1012-1040.40	Pier D09 Bored Pile D9-4	10	19-Mar-12 A	31-Mar-12	Pier D09 Bored Pile D9-4																							
1012-1040.50	Pier D09 Bored Pile D9-3	12	02-Apr-12	18-Apr-12	Pier D09 Bored Pile D9-3																							
1012-1040.60	Pier D09 Bored Pile D9-6	12	19-Apr-12	03-May-12	Pier D09 Bored Pile D9-6																							
1012-1050.10	Pier D10 Bored Pile D10-2	0	29-Feb-12 A	12-Mar-12 A	Pier D10 Bored Pile D10-2																							
1012-1050.20	Pier D10 Bored Pile D10-5	3	11-Mar-12 A	23-Mar-12	Pier D10 Bored Pile D10-5																							
1012-1050.30	Pier D10 Bored Pile D10-2	12	24-Mar-12	10-Apr-12	Pier D10 Bored Pile D10-2																							
1012-1050.40	Pier D10 Bored Pile D10-5	12	11-Apr-12	24-Apr-12	Pier D10 Bored Pile D10-5																							
1012-1050.50	Pier D10 Bored Pile D10-3	12	25-Apr-12	09-May-12	Pier D10 Bored Pile D10-3																							
1012-1050.60	Pier D10 Bored Pile D10-4	12	10-May-12	23-May-12	Pier D10 Bored Pile D10-4																							
1012-1060.10	Pier D11 Bored Pile D11-5	0	13-Feb-12 A	27-Feb-12 A	Pier D11 Bored Pile D11-5																							
1012-1060.20	Pier D11 Bored Pile D11-2	6	28-Feb-12 A	27-Mar-12	Pier D11 Bored Pile D11-2																							
1012-1060.30	Pier D11 Bored Pile D11-2	12	28-Mar-12	13-Apr-12	Pier D11 Bored Pile D11-2																							
1012-1060.40	Pier D11 Bored Pile D11-1	12	14-Apr-12	27-Apr-12	Pier D11 Bored Pile D11-1																							
1012-1060.50	Pier D11 Bored Pile D11-3	12	28-Apr-12	12-May-12	Pier D11 Bored Pile D11-3																							
1012-1060.60	Pier D11 Bored Pile D11-4	12	14-May-12	26-May-12	Pier D11 Bored Pile D11-4																							
1012-1130	Pier D09 Construct Pile Cap	18	18-May-12	07-Jun-12	Pier D09 Constr																							
1012-1140	Pier D09 Construct Pier/Column	12	08-Jun-12	21-Jun-12																								
1012-1190	Pier D11 Construct Pile Cap	18	11-Jun-12	03-Jul-12																								
<b>Pier D05 to D07</b>																												
1012-1270	Pier D07 Bored Piles (6 piles)	108	04-May-12	08-Sep-12																								
1012-1290.20	Pier D05 Bored Pile D05-1	13	02-Dec-11 A	07-Jun-12	Pier D05 Bored																							
1012-1300	Pier D05/D06/D07 Bored Piles Testing	18	07-Jun-12	29-Jun-12																								
<b>10.1.3 - E/B Bridge Construction</b>																												
<b>Bridge D3</b>																												
1013-1000	Design & Procurement of Launching Girder	68	21-Jan-12 A	12-Jun-12	Design &																							
1013-1010	Fabrication & Delivery of Launching Girder	75	12-Jun-12	10-Sep-12																								

- █ Remaining Level of Effort
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