

Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link –
Southern Connection Viaduct Section

Fifth Monthly EM&A Report

14 April 2014

Environmental Resources Management
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Contract No. HY/2012/07



Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

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Fifth Monthly EM&A Report

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| Client: | | Project No: | | | |
| Gammon | | 0215660 | | | |
| Summary: | | Date: | | | |
| This document presents the Fifth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section. | | 14 April 2014 | | | |
| | | Approved by: | | | |
| | |  | | | |
| | | Mr Craig Reid Partner | | | |
| | | Certified by: | | | |
| | |  | | | |
| | | Mr Jovy Tam ET Leader | | | |
| | | | | | |
| | | | | | |
| Rev a | Fifth Monthly EM&A Report | CL | JT | CAR | 14/04/14 |
| Revision | Description | By | Checked | Approved | Date |
| <p>This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.</p> <p>We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.</p> | | <p>Distribution</p> <p><input type="checkbox"/> Internal</p> <p><input checked="" type="checkbox"/> Public</p> <p><input type="checkbox"/> Confidential</p> | | | |



Ref.: HYDHZMBEEM00_0_1851L.14

14 April 2014

AECOM
Supervising Officer Representative's Office
6 Hoi Kok Street,
Tsuen Wan, N.T.

By Fax (2492 2057) and By Post

Attention: Mr. Daniel Ip

Dear Sir,

**Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section
Monthly EM&A Report for March 2014 (EP-354/2009/B)**

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (for March 2013) certified by the ET Leader (ET's ref.: "0215660_5th Monthly EM&A.pdf" dated 14 April 2014) and provided to us via email on 14 April 2014.

We are pleased to inform you that we have no adverse comments on the captioned monthly EM&A Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/B.

Thank you for your kind attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y H Hui should you have any queries.

Yours sincerely,



Tony Cheng
Independent Environmental Checker
Tuen Mun – Chek Lap Kok Link

c.c. HyD – Mr. Stephen Chan (By Fax: 3188 6614)
HyD – Mr. Matthew Fung (By Fax: 3188 6614)
AECOM – Mr. Conrad Ng (By Fax: 3922 9797)
ERM – Mr. Jovy Tam (By Fax: 2723 5660)
Gammon – Mr. Roy Leung (By Fax: 2750 0922)

Internal: DY, YH, ENPO Site

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EXECUTIVE SUMMARY

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). ENVIRON Hong Kong Ltd. was employed by the HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Another application for variation of environmental permit (VEP) (*EP-354/2009/B*) was granted on 28 January 2014.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively be completed by 2018. The impact monitoring of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well as environmental site inspections, commenced on 31 October 2013.

This is the fifth monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 March 2014 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Marine-based Works

- Marine piling platform installation;
- Marine Piling at Viaduct B;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Satellite container offices erection along seawall;
- Fence installation and relocation of Area 2, Viaduct A, B, C & D;
- Land Piling at Viaduct B;
- Piling platform installation for Viaducts B, D & E;
- Additional land ground investigation (GI), trial pits & laboratory testing;
- Utility surveys; and
- Slope work of 9SE-B/C8 and 9SE-B/C9.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

| | |
|------------------------|------------|
| 24-hour TSP monitoring | 5 sessions |
|------------------------|------------|

| | |
|-------------------------------------|-------------|
| 1-hour TSP monitoring | 5 sessions |
| Noise monitoring | 5 sessions |
| Impact Water Quality Monitoring | 13 sessions |
| Impact dolphin monitoring | 2 sessions |
| Joint Environmental site inspection | 4 sessions |

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for impact air quality monitoring in the reporting month.

Breaches of Action and Limit Levels for Noise

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting month.

Breaches of Action and Limit Levels for Water Quality

No exceedance of Action and Limit Levels was recorded for impact water quality monitoring in the reporting month.

Impact Dolphin Monitoring

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Daily marine mammal exclusion zone monitoring was undertaken. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* was recorded in March 2014 during the exclusion zone monitoring.

Environmental Complaints, Non-compliance & Summons

No complaint, notification of summons and successful prosecution was received in the reporting month.

Reporting Change

There was no reporting change required in the reporting period.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the next monitoring period of April 2014 include the following:

Marine Works

- Marine piling platform installation;
- Marine piling at Viaduct B;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Satellite container offices erection along seawall;
- Fence installation and relocation of Area 2, Viaducts A, B, C & D;
- Land piling at Viaduct B, C and E;
- Piling platform installation for Viaducts B, D & E;
- Additional land ground investigation (GI), trial pits & laboratory testing;
- Utility surveys; and
- Slope work at 9SE-B/C8 and 9SE-B/C9.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of April 2014 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

1.1

BACKGROUND

According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-145/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (EP-354/2009A) was issued on 8 December 2010.

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of TM-CLKL (“the Contract”) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). ENVIRON Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Another application for variation of environmental permit (VEP) (*EP-354/2009/B*) was granted on 28 January 2014.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively be completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well as environmental site inspections, commenced on 31 October 2013.

1.2 SCOPE OF REPORT

This is the fifth monthly EM&A Report under the *Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section*. This report presents a summary of the environmental monitoring and audit works in March 2014.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

Table 1.1 *Contact Information of Key Personnel*

| Party | Position | Name | Telephone | Fax |
|--|------------------------------|--------------|-----------|-----------|
| SOR (AECOM Asia Company Limited) | Chief Resident Engineer | Daniel Ip | 3553 3800 | 2492 2057 |
| | Resident Engineer | Kingman Chan | 3691 3950 | 3691 2899 |
| ENPO / IEC (ENVIRON Hong Kong Ltd.) | ENPO Leader | Y.H. Hui | 3465 2888 | 3465 2899 |
| | IEC | Tony Cheng | 3465 2888 | 3465 2899 |
| Contractor (Gammon Construction Limited) | Environmental Manager | Brian Kam | 3520 0387 | 3520 0486 |
| | Environmental Officer | Roy Leung | 3520 0387 | 3520 0486 |
| | 24-hour Complaint Hotline | | 9738 4332 | |
| ET (ERM-HK) | ET Leader | Jovy Tam | 2271 3113 | 2723 5660 |

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract commenced on 31 October 2013. The three-month rolling construction programme is shown in *Appendix B*.

As informed by the Contractor, details of the major works carried out in this reporting period are listed below:

Marine-based Works

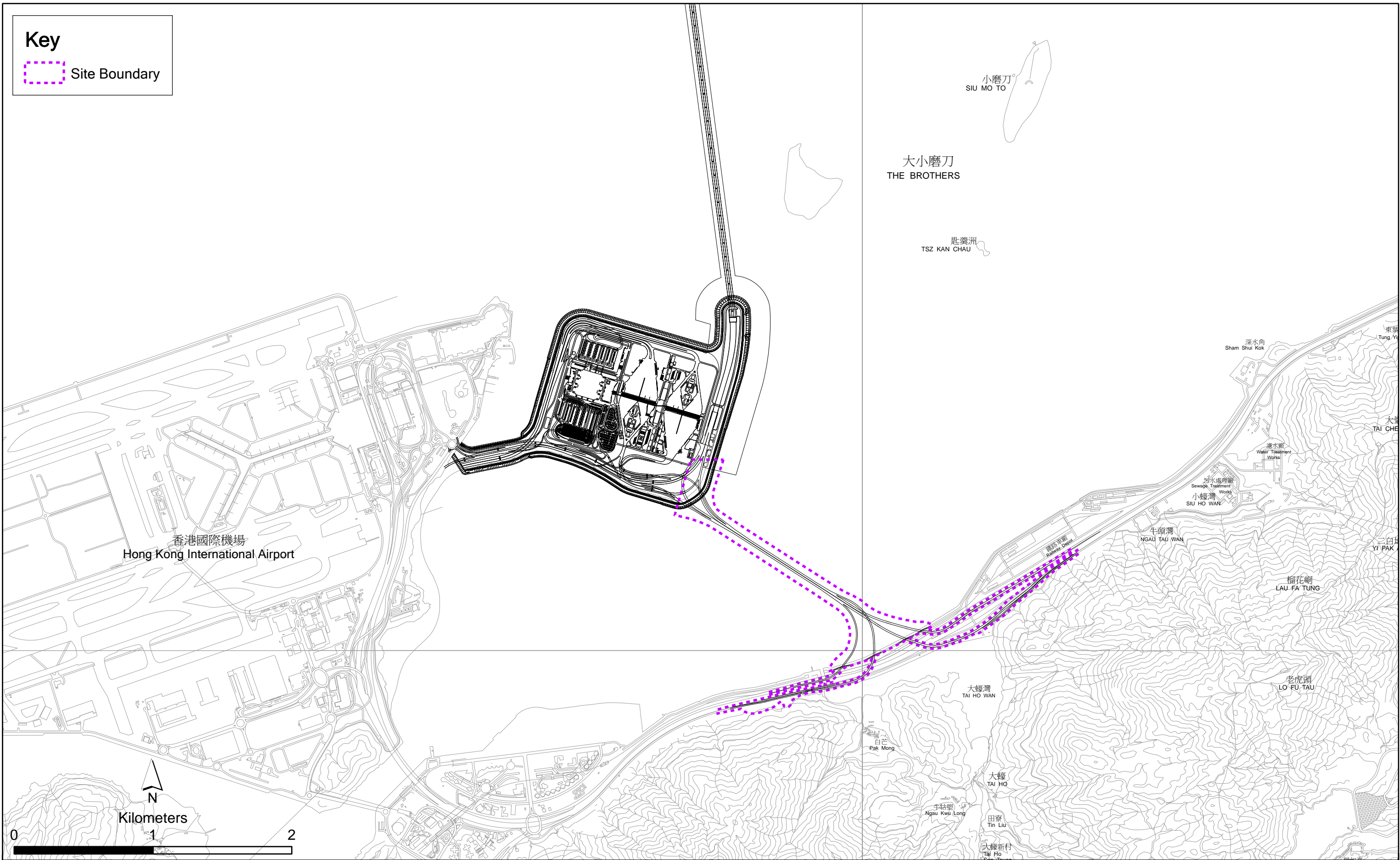
- Marine piling platform installation;
- Marine Piling at Viaduct B;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

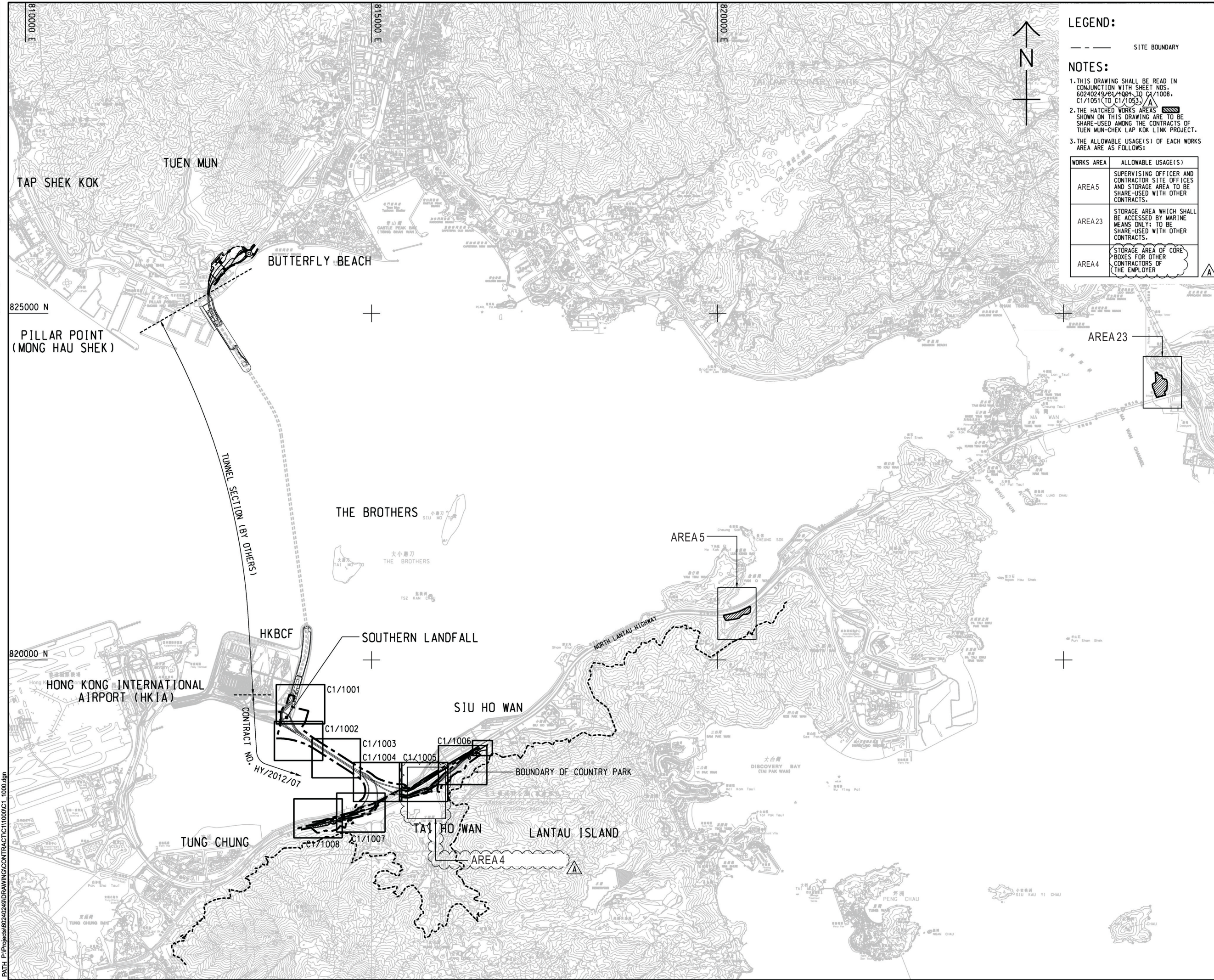
Land-based Works

- Satellite container offices erection along seawall;
- Fence installation and relocation of Area 2, Viaduct A, B, C & D;
- Land Piling at Viaduct B;
- Piling platform installation for Viaducts B, D & E;
- Additional land ground investigation (GI), trial pits & laboratory testing;
- Utility surveys; and
- Slope work of 9SE-B/C8 and 9SE-B/C9.

The general layout plan of the site showing the detailed works areas is shown in *Figures 1.1 to 1.12*. The Environmental Sensitive Receivers in the vicinity of the Project is shown in *Figure 1.13*.

The environmental mitigation measures implementation schedule are presented in *Appendix C*.





LEGEND:

--- SITE BOUNDARY

NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET NOS. 60240249/C1/1001 TO C1/1008, C1/1051 TO C1/1053.
- THE HATCHED WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TUEN MUN-CHEK LAP KOK LINK PROJECT.
- THE ALLOWABLE USAGE(S) OF EACH WORKS AREA ARE AS FOLLOWS:

| WORKS AREA | ALLOWABLE USAGE(S) |
|------------|---|
| AREA5 | SUPERVISING OFFICER AND CONTRACTOR SITE OFFICES AND STORAGE AREA TO BE SHARE-USED WITH OTHER CONTRACTS. |
| AREA23 | STORAGE AREA WHICH SHALL BE ACCESSED BY MARINE MEANS ONLY; TO BE SHARE-USED WITH OTHER CONTRACTS. |
| AREA4 | STORAGE AREA OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER |



PROJECT

TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

CLIENT

路政署
HONG KONG PROJECT MANAGEMENT OFFICE

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

Fig1.2

ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK |
|-----|---------|----------------------|-----|
| A | NOV. 12 | TENDER ADDENDUM NO.1 | CWN |
| - | OCT. 12 | TENDER DRAWING | CWN |

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A1 1:25000

DIMENSION UNIT

尺寸单位

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KEY PLAN

索引图

PROJECT NO.

项目编号

60240249

CONTRACT NO.

合约编号

HY/2012/07

SHEET TITLE

图名

LOCATION PLAN AND KEY PLAN

SHEET NUMBER

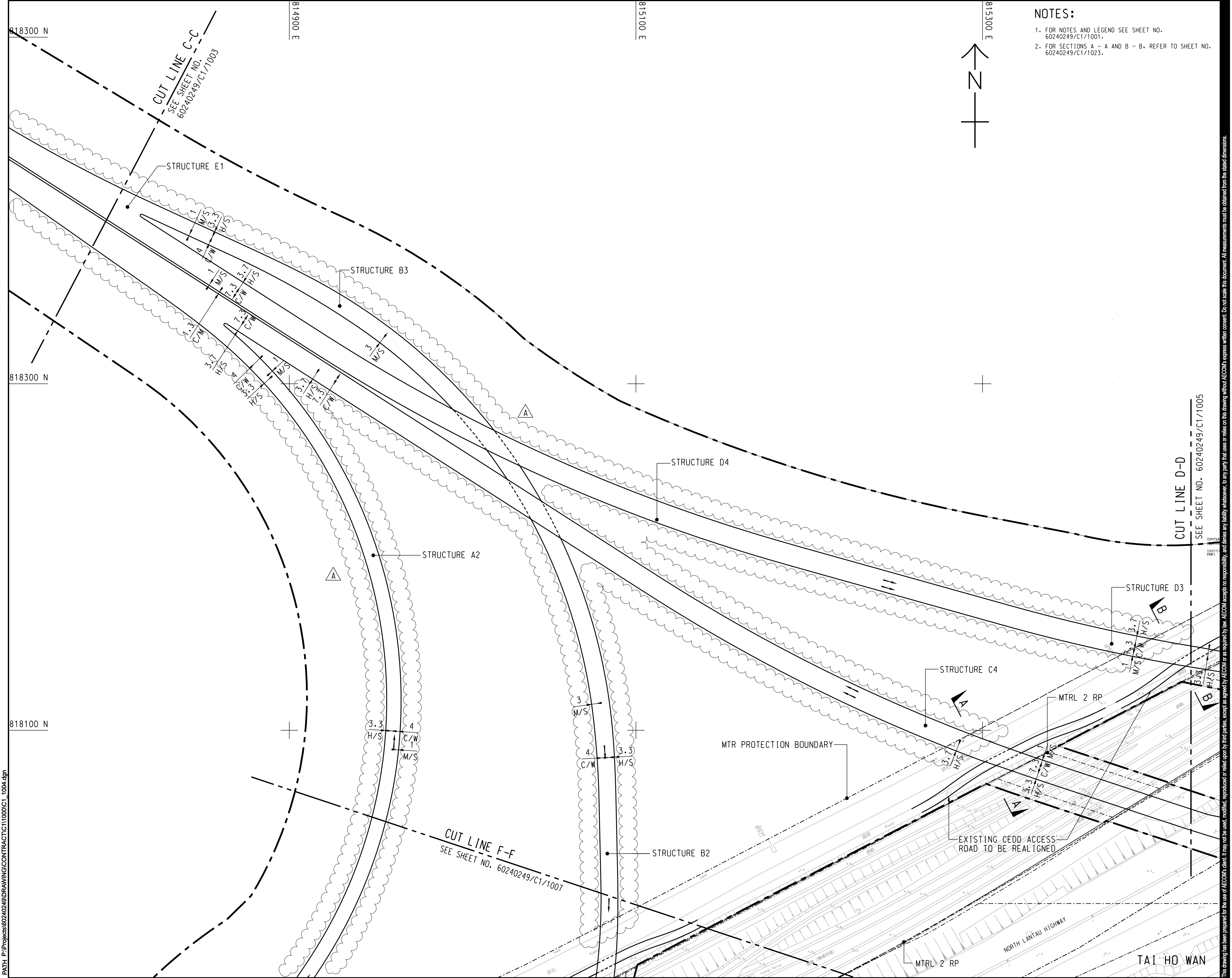
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60240249/C1/1000A

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- NOTES:
1. FOR NOTES AND LEGEND SEE SHEET NO. 60240249/C1/1001.
 2. FOR SECTIONS A - A AND B - B, REFER TO SHEET NO. 60240249/C1/1023.

PROJECT
項目

TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

CLIENT
業主
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
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SUB-CONSULTANTS
分判工程顧問公司

Fig1.3

| ISSUE/REVISION | | | | |
|----------------|---------|----------------------|------|--|
| 修訂 | | | | |
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| A | DEC. 12 | TENDER ADDENDUM NO.4 | CW | |
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| 修訂 | 日期 | 內容摘要 | 校核 | |

| STATUS | |
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SCALE
比例

A1 1:1000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

1 : 100000

PROJECT NO.
項目編號

60240249

CONTRACT NO.
合約編號

HY/2012/07

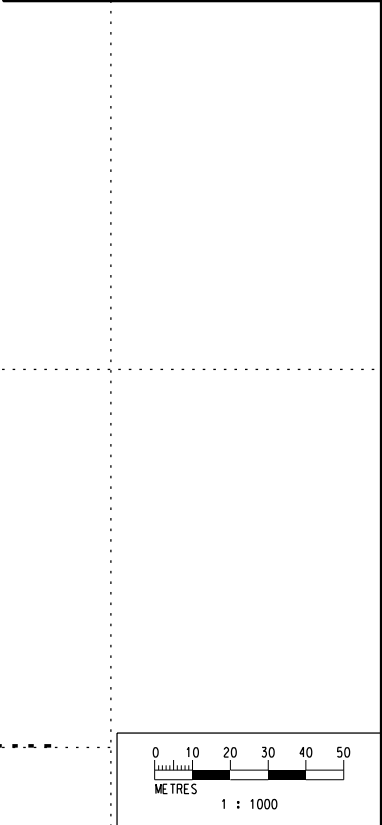
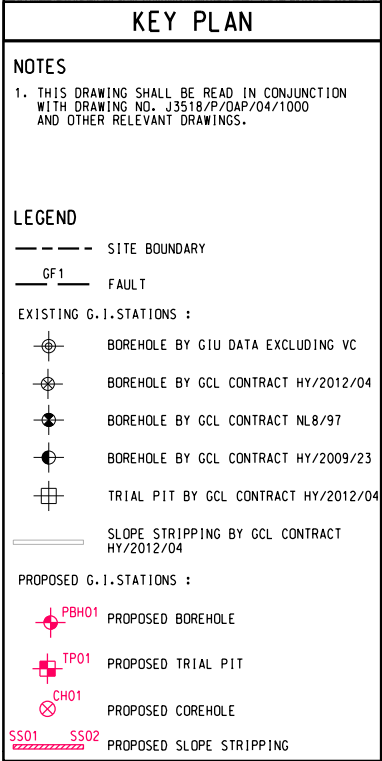
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
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SHEET 4 OF 8



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| A | SUBMISSION | RC | 07/13 | | | | | RL | 07/13 |
| B | SUBMISSION | RC | 07/13 | | | | | | |
| C | SUBMISSION | RC | 09/13 | | | | | | |
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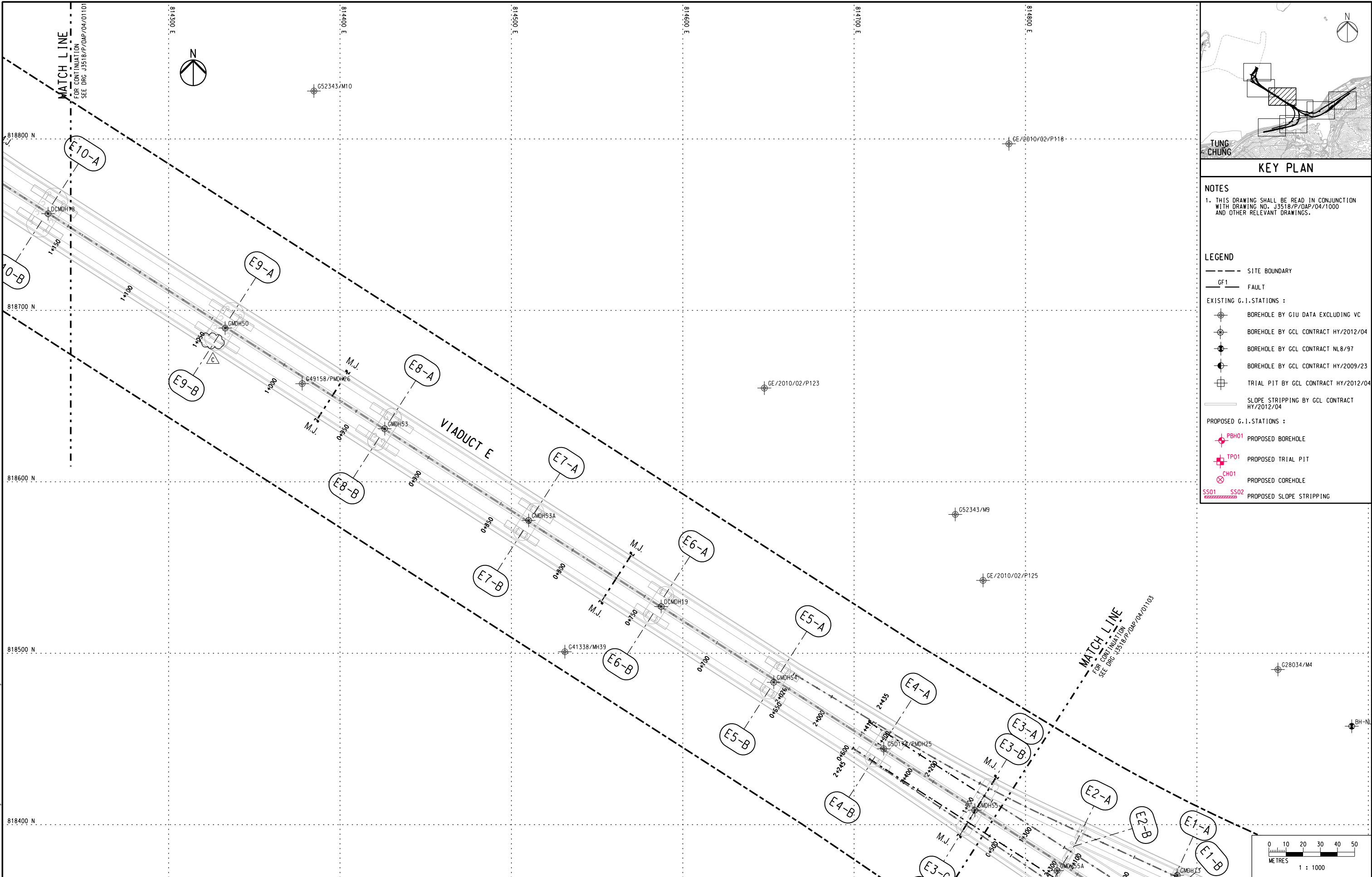
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| <p>Client</p>  <p>路政署 HIGHWAYS DEPARTMENT</p> <p>港澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office</p> | | | |
| <p>Supervising Officer</p>  | | <p>Contractor</p>  | |





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|--|---------------------------|
| Project Title Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section | |
| Common | Originator ARUP |

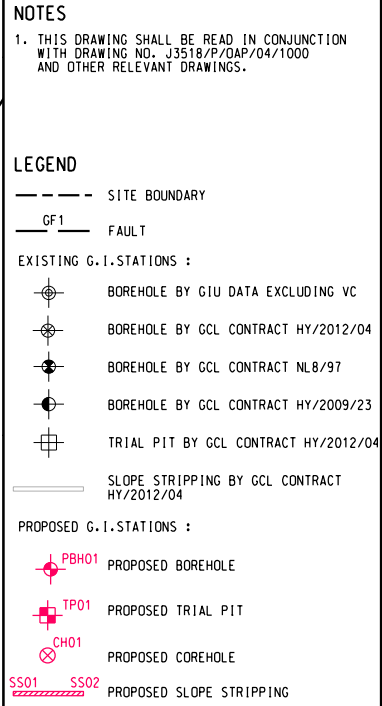
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| Drawing title | |
| PROPOSED GROUND INVESTIGATION PLAN (1) | |
| Fig 1.4 | |
| Drawing no. | Rev. |
| J3518/P/OAP/04/01100 | C |



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| A | SUBMISSION | RC | 07/13 | | | | | RL | 07/13 |  路政署 HIGHWAYS DEPARTMENT 港澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office | Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section | PROPOSED GROUND INVESTIGATION PLAN (3) Fig 1.6 |
| B | SUBMISSION | RC | 07/13 | | | | | Checked | Approved | | | |
| C | SUBMISSION | RC | 09/13 | | | | | DS | DOP | | | |
| | | | | | | | | Scale | | Supervising Officer | Contractor | Originator |
| | | | | | | | | 1:1000 @ A1 / 1:2000 @ A3 | |  |  |  |
| | | | | | | | | | | Drawing no. J3518/P/OAP/04/01102 Rev. C | | |

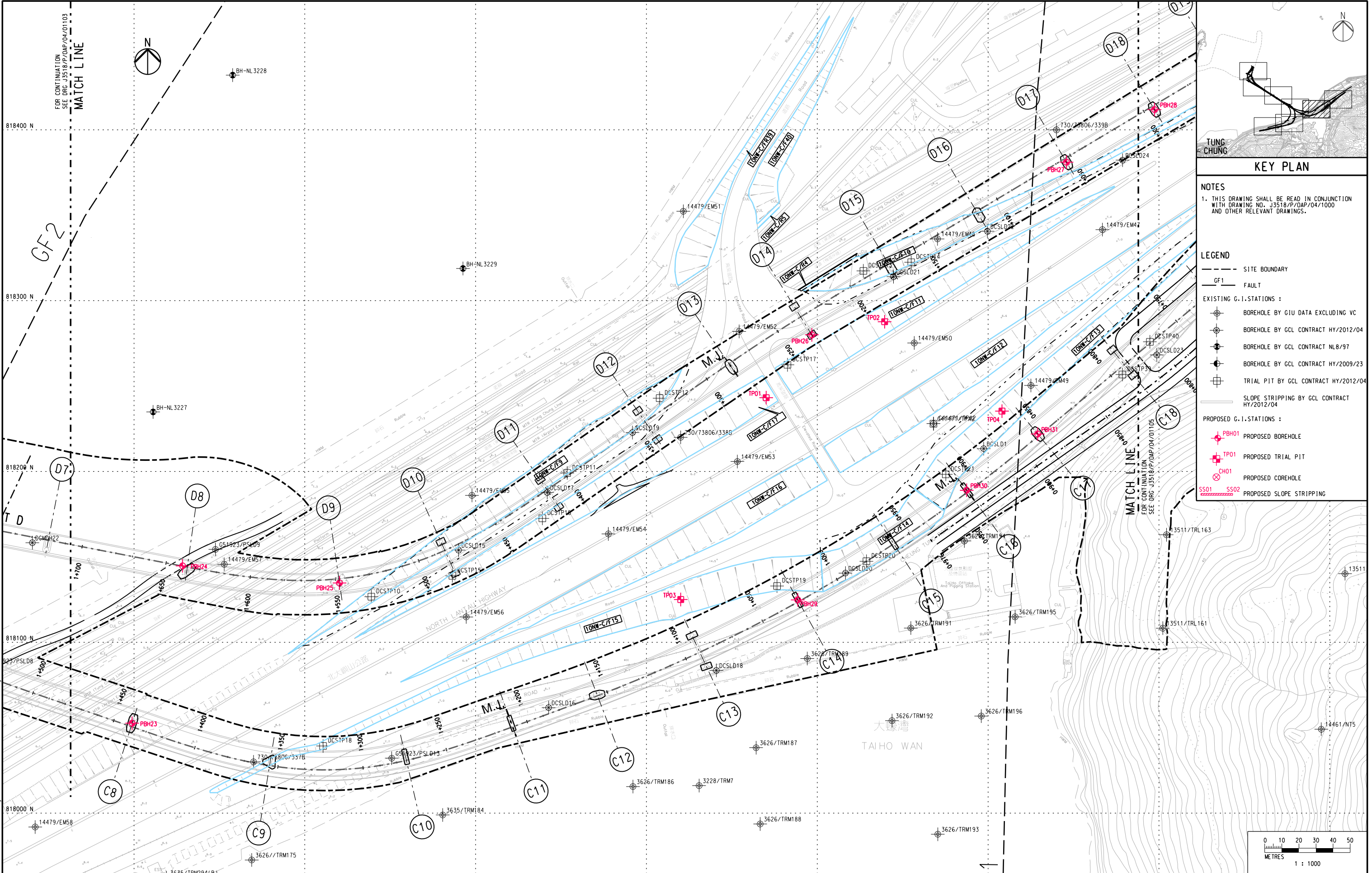


| Rev | Description | By | Date | Rev | Description | By | Date | Drawn | Date | Client | Project Title | Drawing title | | | |
|-----|-------------|----|-------|-----|-------------|----|------|---------------------------|----------|--|--|--|---------------------|------------|------------|
| A | SUBMISSION | RC | 07/13 | | | | | RL | 07/13 |  路政署 HIGHWAYS DEPARTMENT  港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office | Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section | PROPOSED GROUND INVESTIGATION PLAN (4) Fig 1.7 | | | |
| B | SUBMISSION | RC | 07/13 | | | | | Checked | Approved | | | | Supervising Officer | Contractor | Originator |
| C | SUBMISSION | RC | 09/13 | | | | | DS | DOP | | | | | | |
| | | | | | | | | Scale | | | | | | | |
| | | | | | | | | 1:1000 @ A1 / 1:2000 @ A3 | | | | | | | |

Drawing no. **J3518/P/OAP/04/01103**

Rev. **C**

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KEY PLAN

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO. J3518/P/OAP/04/1000 AND OTHER RELEVANT DRAWINGS.

LEGEND

- SITE BOUNDARY
GF1 FAULT
- EXISTING G.I. STATIONS :
- BOREHOLE BY GIU DATA EXCLUDING VC
 - BOREHOLE BY GCL CONTRACT HY/2012/04
 - BOREHOLE BY GCL CONTRACT NL8/97
 - BOREHOLE BY GCL CONTRACT HY/2009/23
 - TRIAL PIT BY GCL CONTRACT HY/2012/04
 - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
- PROPOSED G.I. STATIONS :
- PBH01 PROPOSED BOREHOLE
 - TP01 PROPOSED TRIAL PIT
 - CH01 PROPOSED COREHOLE
 - SS01 SS02 PROPOSED SLOPE STRIPPING

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| A | SUBMISSION | RC | 07/13 | | | | | RL | 07/13 |
| B | SUBMISSION | RC | 07/13 | | | | | Checked | Approved |
| C | SUBMISSION | RC | 09/13 | | | | | DS | DOP |
| | | | | | | | | Scale | |
| | | | | | | | | 1:1000 @ A1 / 1:2000 @ A3 | |

Client

路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Supervising Officer

AECOM

Project Title

Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

Contractor

Gammon

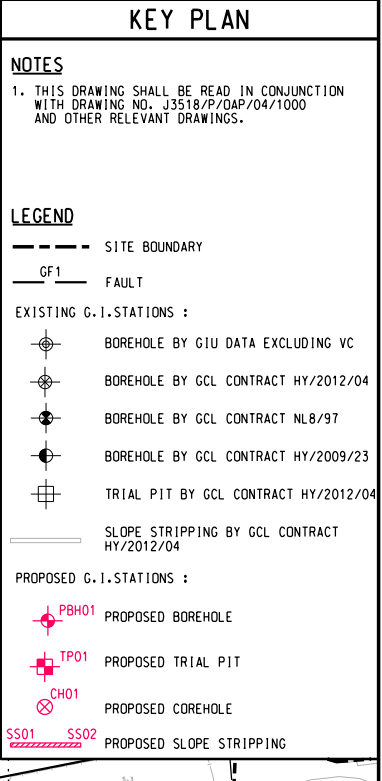
Drawing title






PROPOSED GROUND INVESTIGATION PLAN
(5)

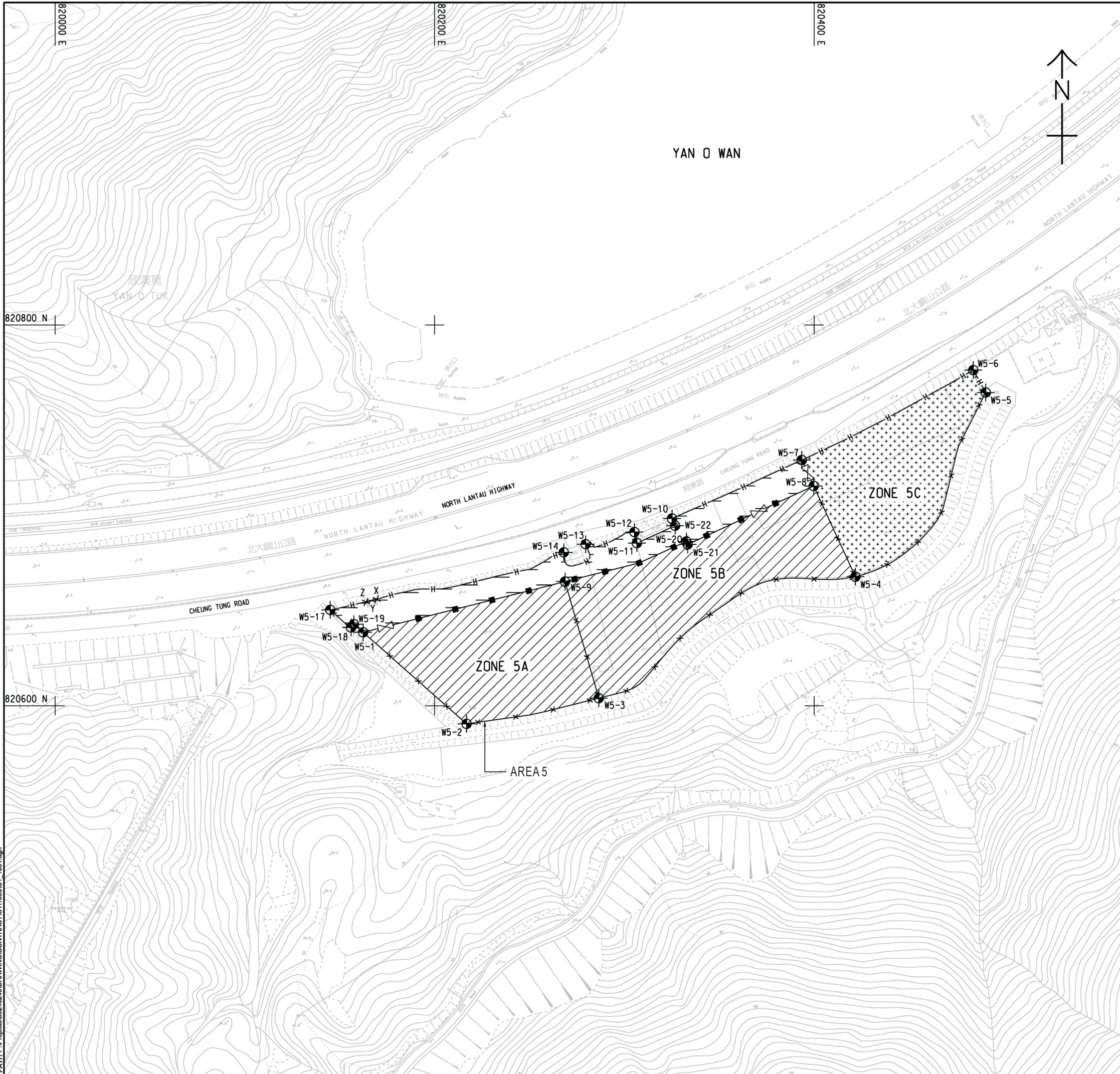
Fig 1.8

Drawing no. J3518/P/OAP/04/01104


Rev. C






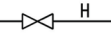
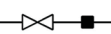
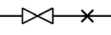
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|-----|---------------------|----|-------|-----|-------------|----|------|---------------------------|----------|---|---|---|
| Rev | Description | By | Date | Rev | Description | By | Date | Drawn | Date | Client | Project Title | Drawing title |
| A | SUBMISSION | RC | 07/13 | | | | | RL | 07/13 |  路政署 HIGHWAYS DEPARTMENT  港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office | Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section | PROPOSED GROUND INVESTIGATION PLAN (6) Fig 1.9 |
| B | SUBMISSION | RC | 07/13 | | | | | | | | | |
| C | SUBMISSION | RC | 09/13 | | | | | | | | | |
| D1 | FOR INTERNAL REVIEW | RC | 11/13 | | | | | | | | | |
| | | | | | | | | Checked | Approved | Supervising Officer  | Contractor  | Originator  |
| | | | | | | | | DS | DOP | | | |
| | | | | | | | | Scale | | | | |
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| | | | | | | | | | | | | Drawing no. J3518/P/OAP/04/01107 Rev. D1 |



NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
- THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. T15 619. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
- DEMARCATON OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6110 AND H6111 FOR DETAILS OF HOARDING.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
- CHAIN LINK FENCE SHALL BE ERECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- NO STRUCTURES SHALL BE ERECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
- THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
- THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-CLKL RELATED CONTRACTS. THE AREAS HATCHED WITH  ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.
- THE COMMON AREA SHALL BE CONCRETE PAVED BY THE CONTRACTOR.

LEGEND:

-  WORKS AREA UNDER THIS CONTRACT
-  COMMON AREA (MAINTAINED UNDER THIS CONTRACT) TO BE SHARE-USED WITH OTHER CONTRACTS
-  WORKS AREA FOR THIS CONTRACT TO BE EARLY HANDED OVER BY THE CONTRACTOR.
-  HOARDING AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
-  CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED BY OTHERS)
-  CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)

SETTING OUT COORDINATES OF AREA 5

| POINT | COORDINATES | |
|-------|-------------|------------|
| | EASTING | NORTHING |
| W5-1 | 820162.308 | 820638.492 |
| W5-2 | 820216.839 | 820590.455 |
| W5-3 | 820286.496 | 820603.985 |
| W5-4 | 820421.757 | 820667.742 |
| W5-5 | 820490.425 | 820764.554 |
| W5-6 | 820483.839 | 820776.180 |
| W5-7 | 820393.451 | 820728.958 |
| W5-8 | 820399.746 | 820715.343 |
| W5-9 | 820268.674 | 820665.173 |
| W5-10 | 820325.075 | 820698.276 |
| W5-11 | 820306.587 | 820685.458 |
| W5-12 | 820305.269 | 820691.287 |
| W5-13 | 820279.580 | 820684.863 |
| W5-14 | 820268.027 | 820680.572 |
| X | 820169.407 | 820655.859 |
| Y | 820166.601 | 820655.172 |
| Z | 820163.794 | 820654.484 |
| W5-17 | 820144.957 | 820650.334 |
| W5-18 | 820155.899 | 820641.093 |
| W5-19 | 820157.432 | 820642.788 |
| W5-20 | 820332.642 | 820686.314 |
| W5-21 | 820333.350 | 820684.738 |
| W5-22 | 820326.723 | 820694.608 |

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

CLIENT

路政署
HIGHWAYS DEPARTMENT
香港廣大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

CONSULTANT

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SUB-CONSULTANTS

分判工程顧問公司

Fig 1.10

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|---------|----------------|------|
| 1 | OCT. 12 | TENDER DRAWING | CWN |
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STATUS

階段

SCALE

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DIMENSION UNIT

METRES

KEY PLAN

索引圖

PROJECT NO.

項目編號

SHEET TITLE

WORKS AREA AND
HOARDING PLAN

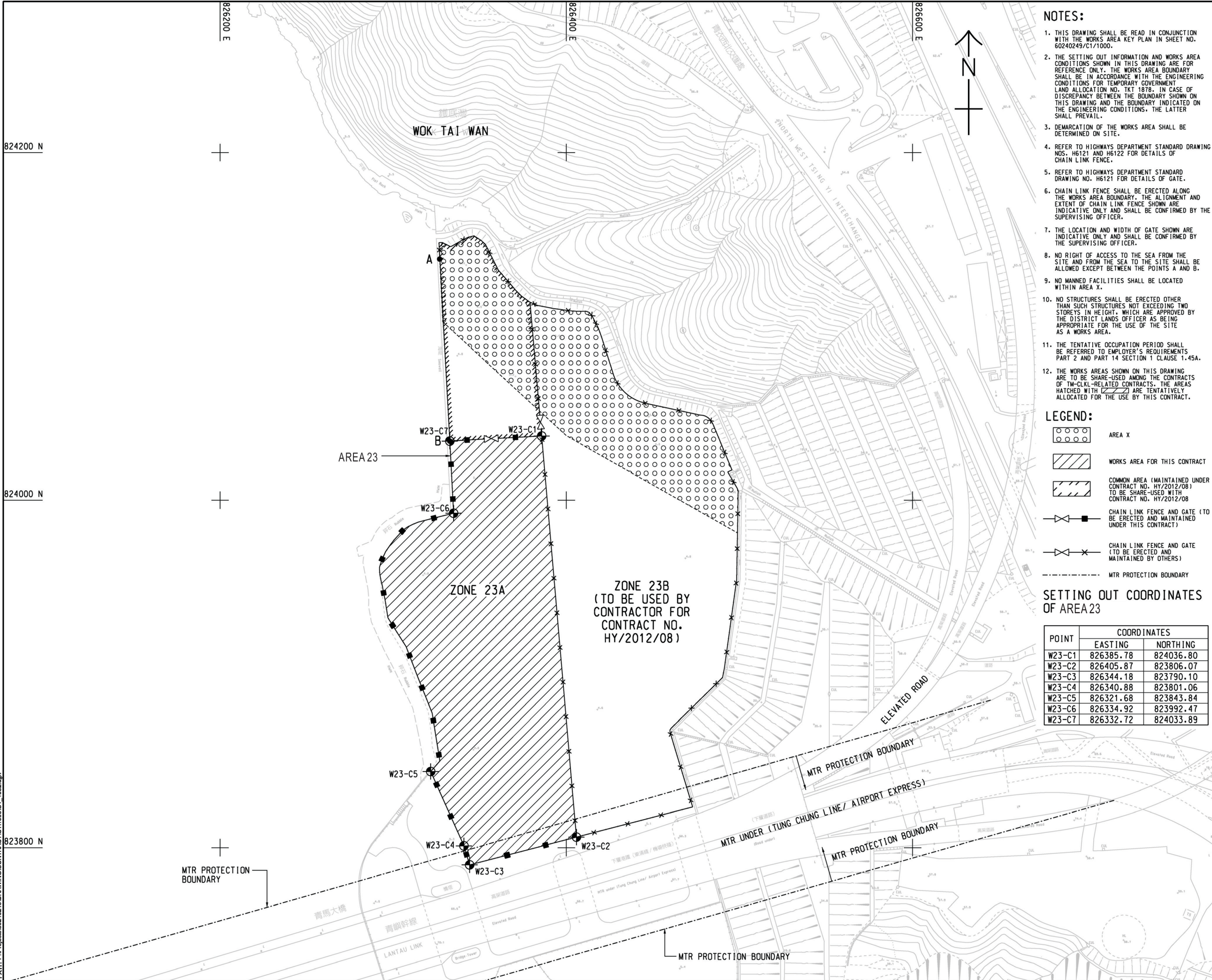
SHEET NUMBER

圖紙編號

CONTRACT NO.

合約編號

Plot File by: LULJ3 2012-10-24
PATH: P:\Projects\60240249\DRAWING\CONTRACT\11000\1052.dgn
Project Management Initials: Designer: PLCK Checked: SLVY Approved: CWN
ISO A1 594mm x 841mm



NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
2. THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TKT 1878. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
3. DEMARCATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
4. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
5. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
6. CHAIN LINK FENCE SHALL BE ERECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
7. THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
8. NO RIGHT OF ACCESS TO THE SEA FROM THE SITE AND FROM THE SEA TO THE SITE SHALL BE ALLOWED EXCEPT BETWEEN THE POINTS A AND B.
9. NO MANNED FACILITIES SHALL BE LOCATED WITHIN AREA X.
10. NO STRUCTURES SHALL BE ERECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
11. THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
12. THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-CLKL-RELATED CONTRACTS. THE AREAS HATCHED WITH ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.

LEGEND:

- AREA X
- WORKS AREA FOR THIS CONTRACT
- COMMON AREA (MAINTAINED UNDER CONTRACT NO. HY/2012/08) TO BE SHARE-USED WITH CONTRACT NO. HY/2012/08
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED BY OTHERS)
- MTR PROTECTION BOUNDARY

SETTING OUT COORDINATES OF AREA 23

| POINT | COORDINATES | |
|--------|-------------|-----------|
| | EASTING | NORTHING |
| W23-C1 | 826385.78 | 824036.80 |
| W23-C2 | 826405.87 | 823806.07 |
| W23-C3 | 826344.18 | 823790.10 |
| W23-C4 | 826340.88 | 823801.06 |
| W23-C5 | 826321.68 | 823843.84 |
| W23-C6 | 826334.92 | 823992.47 |
| W23-C7 | 826332.72 | 824033.89 |

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

CLIENT

路政署
HIGHWAYS DEPARTMENT
香港及大馬路工程管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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Fig 1.11

ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK. |
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| 1 | OCT. 12 | TENDER DRAWING | CWN |

STATUS

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DIMENSION UNIT

METRES

KEY PLAN

PROJECT NO.

60240249

CONTRACT NO.

HY/2012/07

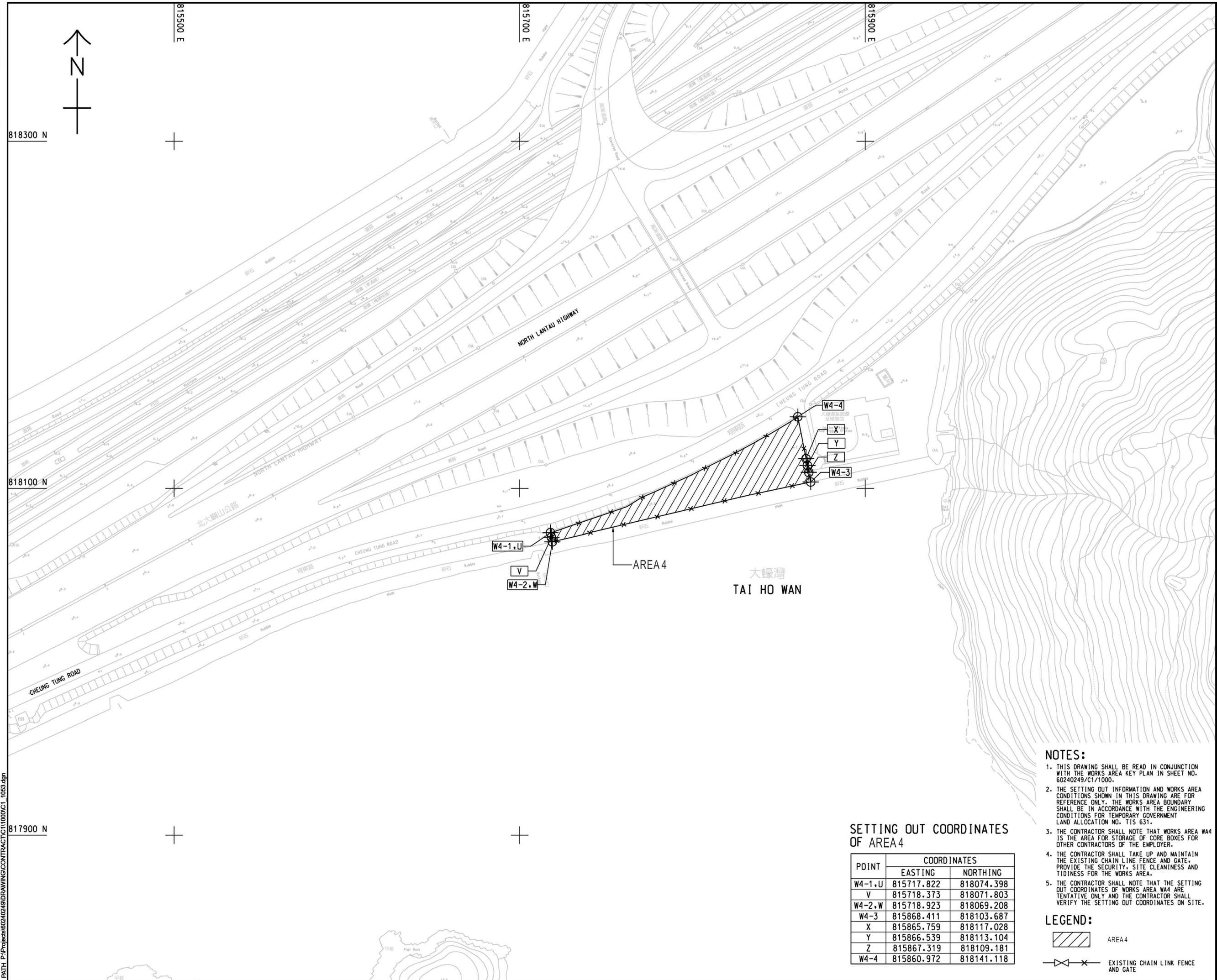
SHEET TITLE

WORKS AREA AND
HOARDING PLAN

SHEET NUMBER

60240249/C1/1052

SHEET 2 OF 2



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PROJECT

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK
- SOUTHERN CONNECTION
VIADUCT SECTION

CLIENT
業主



路政署
HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

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工程顧問公司

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Fig 1.12

ISSUE/REVISION

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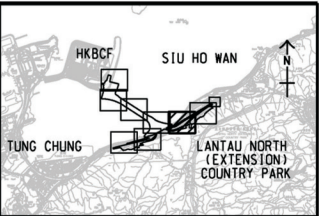
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KEY PLAN



PROJECT NO.
項目編號

60240249

SHEET TITLE
圖紙名稱

LOCATION OF AREA 4

SHEET NUMBER
圖紙編號

60240249/C1/1053

CONTRACT NO.
合約編號

HY/2012/07

Key

Air Sensitive Receiver

- Air Sensitive Receiver
- Noise Sensitive Receiver
- Water Sensitive Receiver
- ▲ Site of Special Scientific Interest (SSSI)
- Known Coral Communities
- Site Boundary

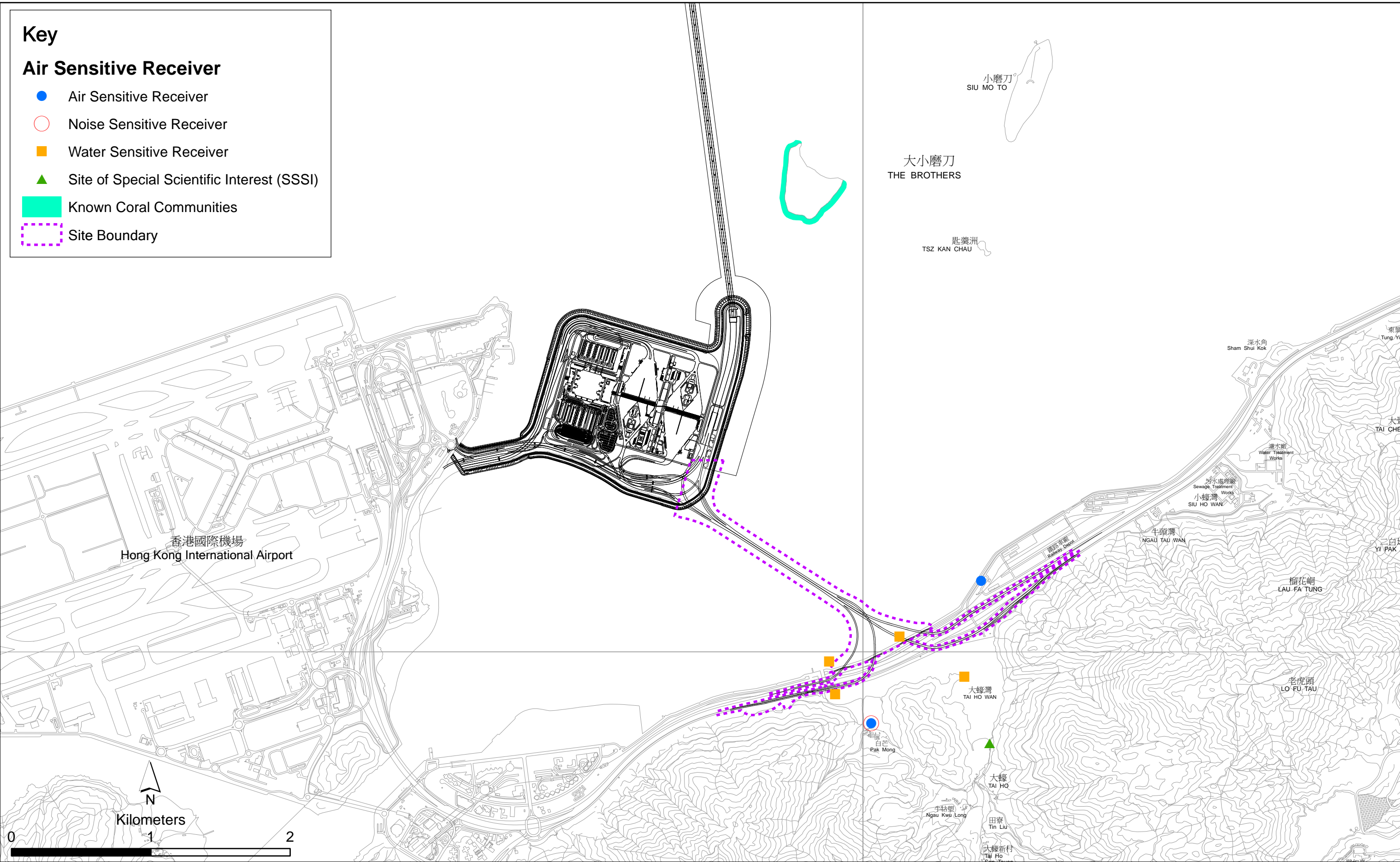


Figure 1.13

Environmental Sensitive Receivers in the Vicinity of Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section

The EM&A programme required environmental monitoring for air quality, noise, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections.

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. The Action and Limit Level of the air quality monitoring is provided in *Appendix D*.

Table 2.1 *Locations of Impact Air Quality Monitoring Stations*




| Monitoring Station | Location | Description | Monitoring Dates |
|--------------------|------------------------------|-------------------------|------------------------------|
| ASR 8 | Pak Mong Village Watch Tower | Rooftop of the premise | 6, 12, 18, 24, 28 March 2014 |
| ASR 8A | Area 4 | On ground at the Area 4 | |

High Volume Samplers (HVSs) were used for carrying out 1-hour and 24-hr TSP monitoring on 6, 12, 18, 24 and 28 March 2014 at ASR8 (Pak Mong Village Watch Tower) and ASR8A (Area 4) (*Figure 2.1; Table 2.1*) in accordance with the requirements stipulated in the Updated EM&A Manual. Wind anemometer was installed at the rooftop of Pak Mong Village Watch Tower for logging wind speed and wind direction. Details of the equipment deployed are given in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.2 *Air Quality Monitoring Equipment*

| Equipment | Brand and Model |
|---|--|
| High Volume Sampler (1-hour TSP and 24-hour TSP) | Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Sampler (Model No. TE-5170) |
| Wind Anemometer | Global Water: Wind Speed Sensor WE550, Wind Direction Sensor WE570 |

Key

-  Original Monitoring Station
-  Alternative Monitoring Station
-  Site Boundary

| AQMS | X | Y |
|-------|-----------|-----------|
| ASR9A | 815847.40 | 818508.64 |
| ASR9C | 816399.52 | 818946.65 |
| ASR8 | 815059.45 | 817488.99 |
| ASR8A | 815856.14 | 818118.14 |

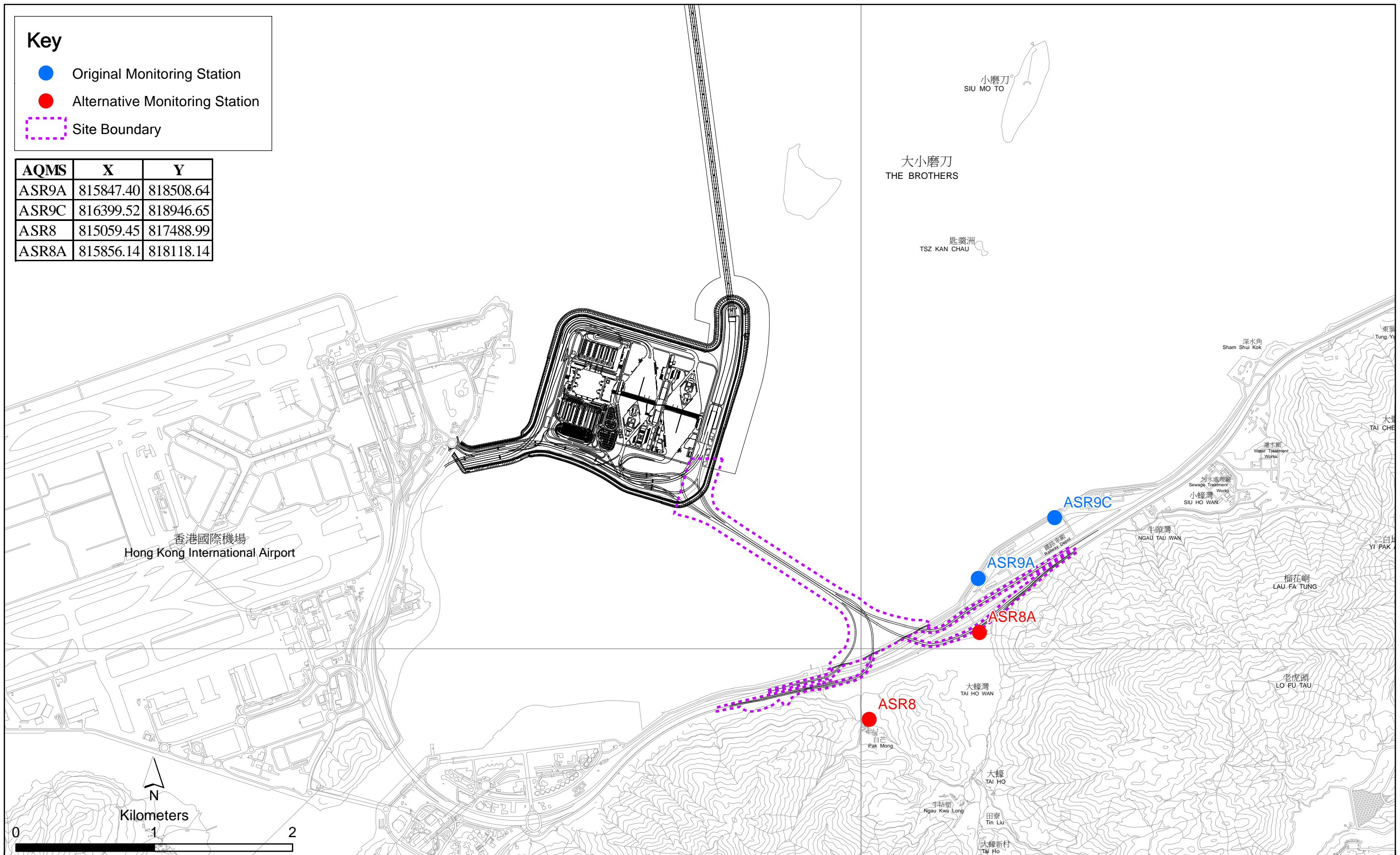


Figure 2.1

Locations of Air Quality Monitoring Stations

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Date: 6/12/2013

Remark: Air Quality Monitoring Stations ASR9A and ASR9C (Siu Ho Wan MTRC Depot) proposed in accordance with the Updated EM&A were temporarily relocated to ASR8A and ASR8, respectively.

Environmental Resources Management



2.1.2 *Monitoring Schedule for the Reporting Month*

The schedule for air quality monitoring in March 2014 is provided in *Appendix F*.

2.1.3 *Results and Observations*

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3 and 2.4* respectively. Detailed impact air quality monitoring results are presented in *Appendix G*.

Table 2.3 *Summary of 1-hour TSP Monitoring Results in the Reporting Period*

| | Average (µg/m ³) | Range (µg/m ³) | Action Level (µg/m ³) | Limit Level (µg/m ³) |
|--------|------------------------------|----------------------------|-----------------------------------|----------------------------------|
| ASR 8A | 120 | 58 - 240 | 394 | 500 |
| ASR 8 | 118 | 70 - 175 | 393 | 500 |

Table 2.4 *Summary of 24-hour TSP Monitoring Results in the Reporting Period*

| | Average (µg/m ³) | Range (µg/m ³) | Action Level (µg/m ³) | Limit Level (µg/m ³) |
|--------|------------------------------|----------------------------|-----------------------------------|----------------------------------|
| ASR 8A | 56 | 37 - 83 | 178 | 260 |
| ASR 8 | 64 | 45 - 83 | 178 | 260 |

The major dust source in the reporting period included construction activities such as excavation works under the Contract as well as nearby traffic emissions.

All 1-hour and 24-hour TSP results were below the Action and Limit level at all monitoring locations in the reporting period. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

Meteorological information collected from the wind station, including wind speed and wind direction, is provided in *Appendix H*.

2.2 *NOISE MONITORING*

2.2.1 *Monitoring Requirements and Equipment*

In accordance with the Updated EM&A Manual, impact noise monitoring was conducted once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in *Appendix D*.

Noise monitoring was performed on 6, 12, 18, 24 and 28 March 2014 using sound level meter at the designated monitoring station NSR 1 (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the equipment deployed are

Key

- Noise Monitoring Station
- Site Boundary

| NMS | X | Y |
|------|-----------|-----------|
| NSR1 | 815059.45 | 817488.99 |

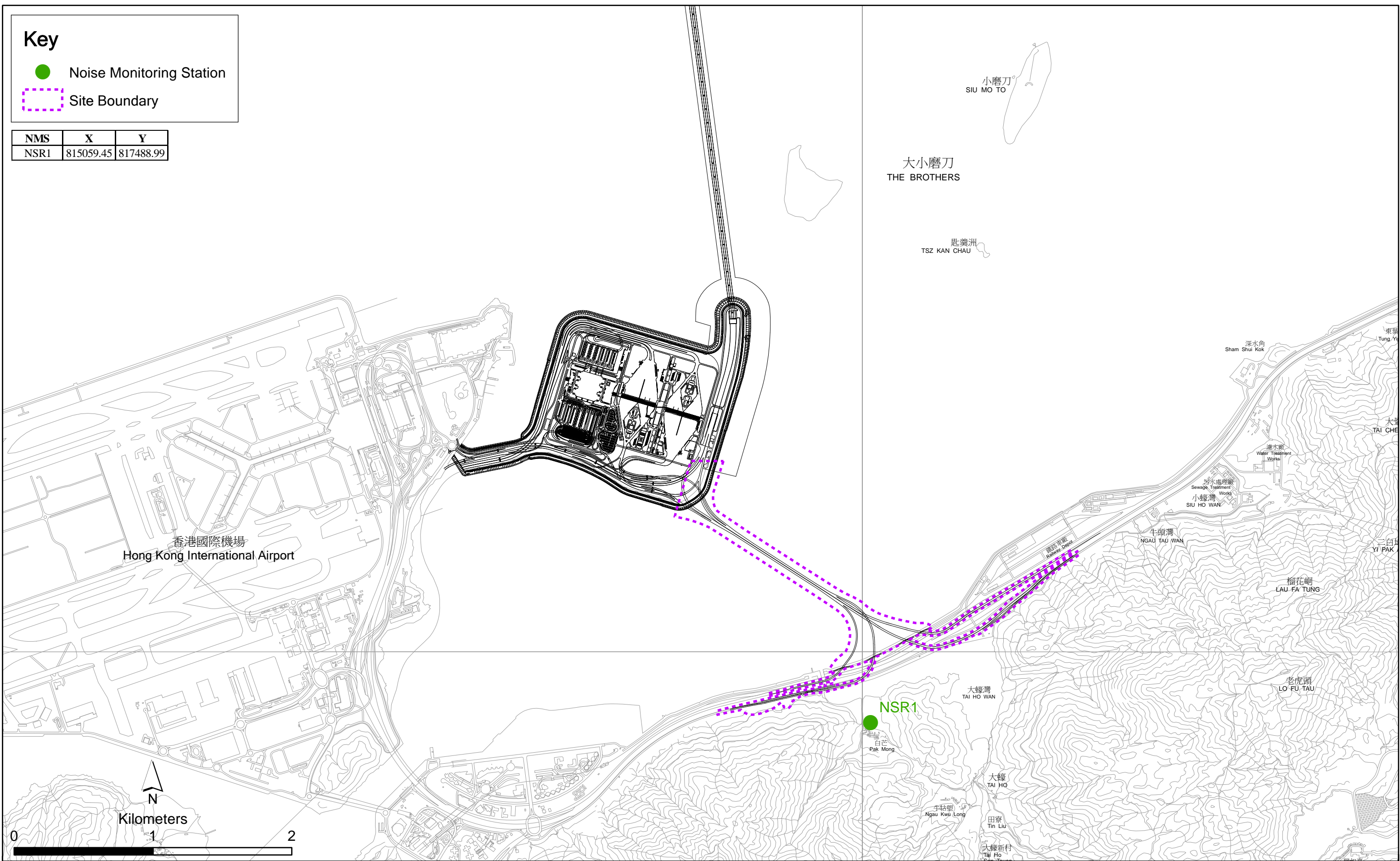


Figure 2.2

Locations of Noise Monitoring Stations

provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.5 ***Location of Impact Noise Monitoring Station***

| Monitoring Station | Location | Description | Parameter | Frequency and Duration | Monitoring Dates |
|--------------------|------------------------------|------------------------|---|------------------------|------------------------------|
| NSR 1 | Pak Mong Village Watch Tower | Rooftop of the premise | 30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq} , L_{10} and L_{90} would be recorded. | At least once per week | 6, 12, 18, 24, 28 March 2014 |

Table 2.6 ***Noise Monitoring Equipment***

| Equipment | Brand and Model |
|------------------------------|-----------------|
| Integrated Sound Level Meter | Rion NL-31 |
| Acoustic Calibrator | Rion NC-73 |

2.2.2 ***Monitoring Schedule for the Reporting Month***

The schedule for construction noise monitoring in the reporting period is provide in *Appendix F*.

2.2.3 ***Monitoring Results***

Results for noise monitoring are summarized in *Table 2.7* and the monitoring data is provided in *Appendix I*.

Table 2.7 ***Summary of Construction Noise Monitoring Results in the Reporting Period***

| | Average , dB(A), L_{eq} (30mins) | Range, dB(A), L_{eq} (30mins) | Limit Level, dB(A), L_{eq} (30mins) |
|-------|------------------------------------|---------------------------------|---------------------------------------|
| NSR 1 | 59 | 58 - 60 | 75 |

No noise Action Level and Limit level exceedance was recorded at all monitoring stations in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

Major noise sources during the noise monitoring included noise from crane operation and excavation works, nearby traffic noise and aircraft noise.

2.3 WATER QUALITY MONITORING

2.3.1 Monitoring Requirements and Equipment

Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. Impact water quality monitoring was undertaken three days per week during the construction period in accordance with the Updated EM&A Manual. The Action and Limit Level of the water quality monitoring is provided in *Appendix D*.

The locations of the monitoring stations under the Contract are shown in *Figure 2.3* and *Table 2.8*.

Table 2.8 *Locations of Impact Water Quality Monitoring Stations and its Corresponding Monitoring Requirements*

| Station ID | Type | Coordinates | | *Parameters, unit | Frequency | Depth |
|------------|--|-------------|----------|---|---|---|
| | | Easting | Northing | | | |
| IS(Mf)9 | Impact Station (Close to HKBCF construction site) | 813273 | 818850 | <ul style="list-style-type: none"> • Temperature(°C) • pH(pH unit) • Turbidity (NTU) | Impact monitoring: 3 days per week, at mid-flood and mid-ebb tides during the construction period of the Contract | 3 water depths: 1m below sea surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid-depth sampling only. If water depth less than 6m, mid-depth will be omitted |
| IS(Mf)16 | Impact Station (Close to HKBCF construction site) | 814328 | 819497 | <ul style="list-style-type: none"> • Water depth (m) • Salinity (ppt) • DO (mg/L and % of saturation) • SS (mg/L) | | |
| IS8 | Impact Station(Close to HKBCF construction site) | 814251 | 818412 | | | |
| SR4 | Sensitive receiver (Tai Ho Inlet) | 814760 | 817867 | | | |
| SR4a | Sensitive receiver | 815247 | 818067 | | | |
| CS(Mf)3 | Control Station | 809989 | 821117 | | | |
| CS(Mf)5 | Control Station | 817990 | 821129 | | | |

***Notes:**

In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded.

Table 2.9 summarises the equipment used in the impact water quality monitoring programme. Copies of the calibration certificates are attached in Appendix E.

Table 2.9 **Water Quality Monitoring Equipment**

| Equipment | Brand and Model | Quantity |
|------------------------------------|--|-----------------|
| DO, Temperature meter and Salinity | YSI Pro2030 | 1 |
| Turbidimeter | HACH Model 2100Q | 1 |
| pH meter | HANNA HI8314 | 1 |
| Positioning Equipment | Koden913MK2 with KBG-3 DGPS antenna | 1 |
| Water Depth Detector | Speedtech Instrument SM-5 | 1 |
| Water Sampler | Kemmerer 1520 (1520-C25) 2.2L with messenger | 1 |

2.3.2 **Monitoring Schedule for the Reporting Month**

The schedule for water quality monitoring in March 2014 is provided in Appendix F.

2.3.3 **Results and Observations**

Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in Appendix J.

No Action and Limit level exceedance was recorded at all monitoring stations for impact water quality monitoring in the reporting month, during which marine piling platform installation, marine piling at Viaduct B and rockfill platform construction at Viaduct D landing were the major marine construction works involved. No action is thus required to be undertaken in accordance with the Event Action Plan presented in Appendix L.

2.4 DOLPHIN MONITORING

2.4.1 Monitoring Requirements

Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. In order to fulfil the EM&A requirements and make good use of available resources, the on-going impact line transect dolphin monitoring data collected by HyD's Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge. Hong Kong Link Road - Section between Scenic Hill and Hong Kong Boundary Crossing Facilities on the monthly basis is adopted to avoid duplicates of survey effort.

2.4.2 Monitoring equipment

Table 2.10 summarises the equipment used for the impact dolphin monitoring.

Table 2.10 Dolphin Monitoring Equipment

| Equipment | Model |
|---------------------------------|--|
| Global Positioning System (GPS) | Garmin 18X-PC |
| Camera | Geo One Phottix Nikon D90 300m 2.8D fixed focus Nikon D90 20-300m zoom lens |
| Laser Binoculars | Infinitor LRF 1000 |
| Marine Binocular | Bushell 7 x 50 marine binocular with compass and reticules |
| Vessel for Monitoring | 65 foot single engine motor vessel with viewing platform 4.5m above water level |

2.4.3 Monitoring Parameter, Frequencies and Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period. The monitoring data should be compatible with, and should be made available for, long-term studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring.

2.4.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in Figure 2.4. The co-ordinates of all transect lines are shown in Table 2.11 below.

Table 2.11 Impact Dolphin Monitoring Line Transect Co-ordinates

| Line No. | | Easting | Northing | | Line No. | | Easting | Northing |
|----------|-------------|---------|----------|--|----------|-------------|---------|----------|
| 1 | Start Point | 804671 | 814577 | | 13 | Start Point | 816506 | 819480 |
| 1 | End Point | 804671 | 831404 | | 13 | End Point | 816506 | 824859 |
| 2 | Start Point | 805475 | 815457 | | 14 | Start Point | 817537 | 820220 |

| Line No. | | Easting | Northing | | Line No. | | Easting | Northing |
|----------|-------------|---------|----------|--|----------|-------------|---------|----------|
| 2 | End Point | 805477 | 826654 | | 14 | End Point | 817537 | 824613 |
| 3 | Start Point | 806464 | 819435 | | 15 | Start Point | 818568 | 820735 |
| 3 | End Point | 806464 | 822911 | | 15 | End Point | 818568 | 824433 |
| 4 | Start Point | 807518 | 819771 | | 16 | Start Point | 819532 | 821420 |
| 4 | End Point | 807518 | 829230 | | 16 | End Point | 819532 | 824209 |
| 5 | Start Point | 808504 | 820220 | | 17 | Start Point | 820451 | 822125 |
| 5 | End Point | 808504 | 828602 | | 17 | End Point | 820451 | 823671 |
| 6 | Start Point | 809490 | 820466 | | 18 | Start Point | 821504 | 822371 |
| 6 | End Point | 809490 | 825352 | | 18 | End Point | 821504 | 823761 |
| 7 | Start Point | 810499 | 820690 | | 19 | Start Point | 822513 | 823268 |
| 7 | End Point | 810499 | 824613 | | 19 | End Point | 822513 | 824321 |
| 8 | Start Point | 811508 | 820847 | | 20 | Start Point | 823477 | 823402 |
| 8 | End Point | 811508 | 824254 | | 20 | End Point | 823477 | 824613 |
| 9 | Start Point | 812516 | 820892 | | 21 | Start Point | 805476 | 827081 |
| 9 | End Point | 812516 | 824254 | | 21 | End Point | 805476 | 830562 |
| 10 | Start Point | 813525 | 820872 | | 22 | Start Point | 806464 | 824033 |
| 10 | End Point | 813525 | 824657 | | 22 | End Point | 806464 | 829598 |
| 11 | Start Point | 814556 | 818449 | | 23 | Start Point | 814559 | 821739 |
| 11 | End Point | 814556 | 820992 | | 23 | End Point | 814559 | 824768 |
| 12 | Start Point | 815542 | 818807 | | | | | |
| 12 | End Point | 815542 | 824882 | | | | | |

2.4.5 *Action & Limit Levels*

The action and limit levels of dolphin impact monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix L*.

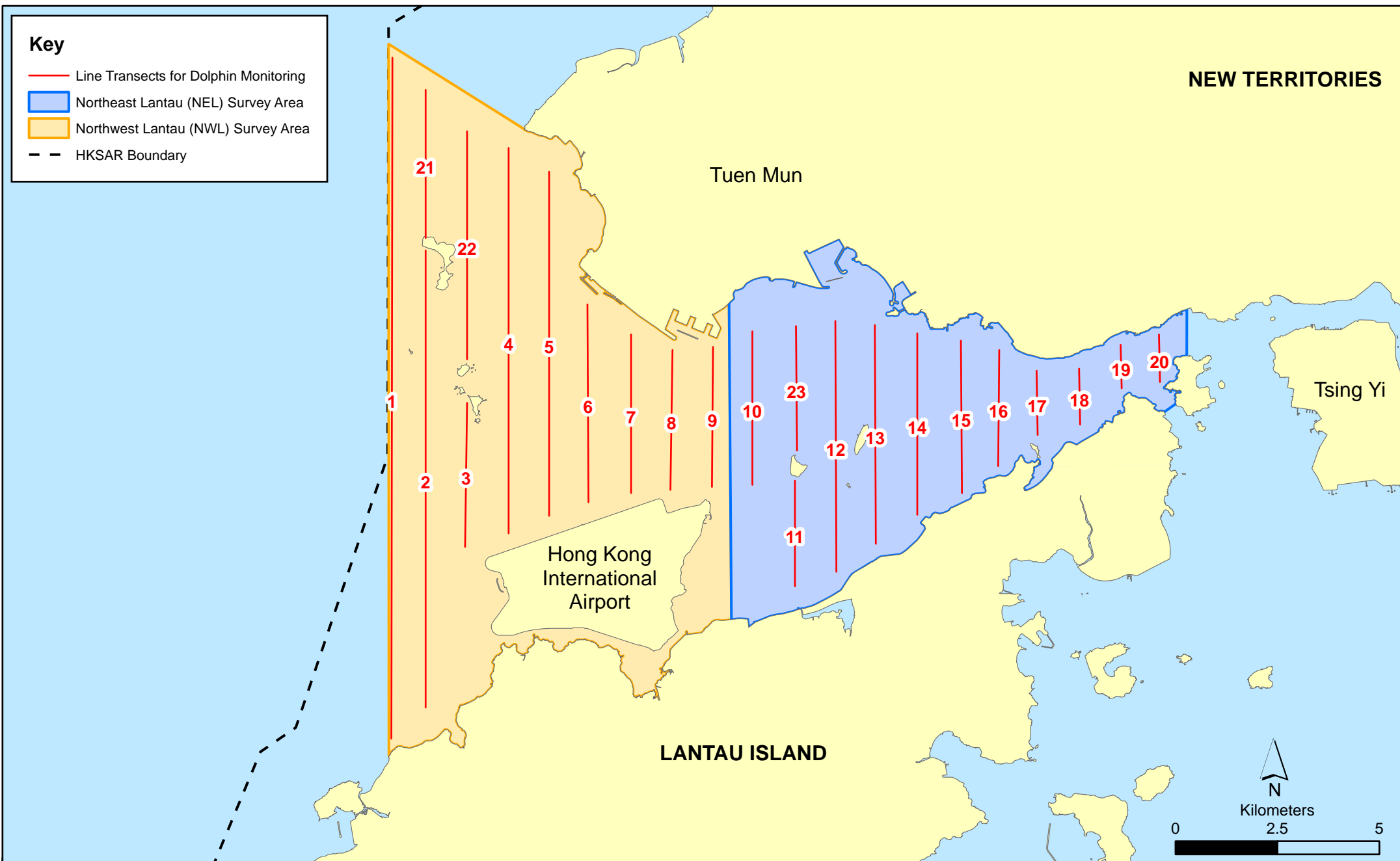


Figure 2.4

Layout of Transect Lines of Dolphin Monitoring in Northwest and Northeast Lantau Areas

2.4.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 5, 11, 17 and 25 March 2014 (*Appendix F*).

2.4.7 *Results and Observations*

A total of 296.83 km of survey effort was collected, with 89.0% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the February's surveys. Among the two areas, 117.30 km and 179.53 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 211.71 km and 85.12 km, respectively. The survey efforts are summarized in *Appendix K*.

A total of 14 groups of 43 Chinese White Dolphin sightings were recorded during the two sets of surveys in March 2014. All sightings were made in NWL during the two sets of surveys in March, with no dolphin being sighted at all in NEL. All except two sightings were made on primary lines during on-effort search, and none of the dolphin groups was associated with operating fishing vessel.

The majority of these dolphin sightings in March 2014 were made at the northwestern portion of NWL survey area, especially to the north of Lung Kwu Chau. Another two sightings were made at the north of the airport and between the River Trade Terminal and airport platform respectively. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.5*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below with good visibility) in March 2014 with the results presented in *Tables 2.12* and *2.13*.

Table 2.12 *Individual Survey Event Encounter Rates*

| | | Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort) | Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort) |
|-----|--|---|--|
| | | Primary Lines Only | Primary Lines Only |
| NEL | Set 1: Mar 5 th / 11 th | 0.0 | 0.0 |
| | Set 2: Mar 17 th / 25 th | 0.0 | 0.0 |
| NWL | Set 1: Mar 5 th / 11 th | 6.4 | 23.6 |
| | Set 2: Mar 17 th / 25 th | 13.2 | 24.8 |

Note: Dolphin Encounter Rates are deduced from the two sets of surveys (ie two Surveys in each set) in March 2014 in Northeast (NEL) and Northwest Lantau (NWL)

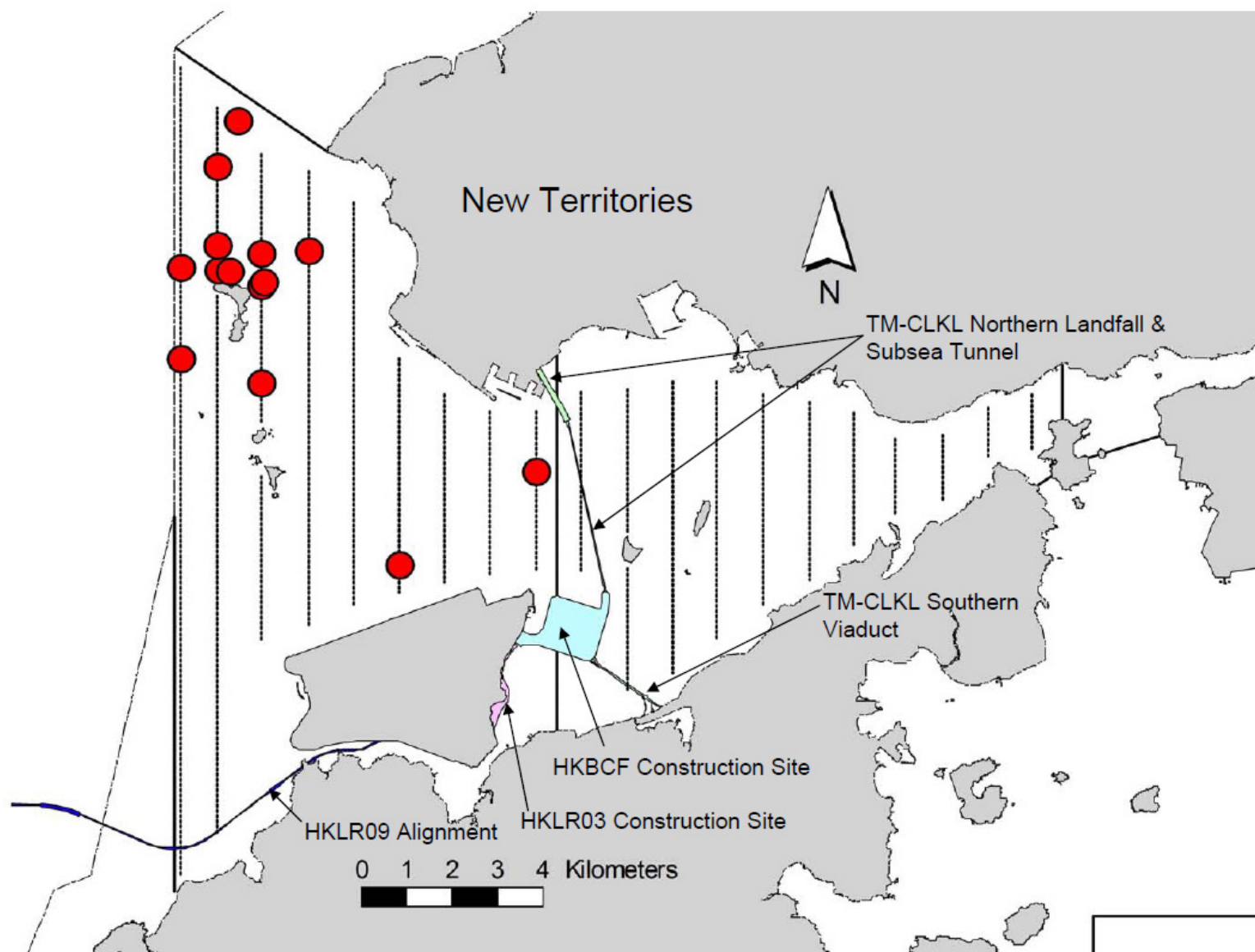


Figure 2.5

HY/2012/07 TM-CLKL Southern Connection Viaduct Section
 The distribution of dolphin sightings during the reporting period
 (Source: Adopted from HKLR03 Monitoring Survey in March 2014)

Date 07/03/2014

Environmental
 Resources
 Management



Table 2.13 Monthly Average Encounter Rates

| | Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort) | | Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort) | |
|-------------------------|---|--|--|--|
| | Primary Lines Only | Both Primary and Secondary Lines | Primary Lines Only | Both Primary and Secondary Lines |
| Northeast Lantau | 0.0 | 0.0 | 0.0 | 0.0 |
| Northwest Lantau | 10.4 | 8.6 | 24.3 | 19.9 |

Note: Overall dolphin encounter rates (sightings per 100km of survey effort) from all four surveys are conducted in March 2014 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

The average group size of Chinese White Dolphins in March 2014 was 3.07 individuals per group, which was lower than the previous three months of dolphin monitoring. Most dolphin groups were composed of 1-3 animals, with only one large group of 13 animals sighted near Lung Kwu Chau. Detailed results of dolphin monitoring in this reporting month are presented in *Appendix K*.

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations

Due to monthly variation in dolphin occurrence within the Study area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

2.4.8 Marine Mammal Exclusion Zone Monitoring

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of dredging activities being undertaken. No sighting of Indo-Pacific humpback dolphin *Sousa chinensis* were recorded in March 2014 during the exclusion zone monitoring.

2.4.9 Marine Bored Piling Monitoring

Marine bored piling monitoring programme for dolphins (ie Land-based Theodolite Tracking, Underwater Noise Monitoring and Acoustic Behavioural Monitoring) was undertaken since 3 March 2014. No sightings of Indo-Pacific humpback dolphins *Sousa chinensis* were recorded during the bored

piling monitoring in March 2014. The monitoring schedule for bored piling monitoring in March 2014 is presented in *Appendix F*.

2.5 CORAL MONITORING

No Post-Translocation Monitoring Exercise was conducted in the reporting month in March 2014.

2.6 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, five (5) site inspections were carried out on 5, 12, 19 and 26 March 2014.

Key observations and recommendations during the site inspections are summarized in *Table 2.14*.

Table 2.14 *Specific Observations and Recommendations during the Weekly Site Inspection in this Reporting Month*

| Inspection Date | Observations | Remarks |
|-----------------|---|--|
| 5 March 2014 | <ul style="list-style-type: none"> • Stoppers of two drip trays were missing at seafront site. • Several chemical drums were not placed in drip tray. | <ul style="list-style-type: none"> • The Contractor was reminded to replace the stopper. • The Contractor was reminded to place them properly and immediate rectification has been done accordingly. |
| 12 March 2014 | <ul style="list-style-type: none"> • Some oil trace was observed around one of the bored piles with unidentified source. | <ul style="list-style-type: none"> • The Contractor carried out immediate rectification action by deploying absorbent to absorb the floating oil trace. |
| 19 March 2014 | <ul style="list-style-type: none"> • Watering programme was recommended to be carried out more regularly to suppress dust. | <ul style="list-style-type: none"> • The Contractor was reminded to carry out watering programme or dust-suppression measures more regularly. |
| 26 March 2014 | <ul style="list-style-type: none"> • Oil stain was observed underneath a vibration hammer at B1. • Five cans of chemicals were placed along the road of the rockfill platform without any drip trays. | <ul style="list-style-type: none"> • Immediate rectification action was undertaken by the Contractor to absorb the oil stain. • The Contractor was reminded to place them properly in timely manner. |

The Contractor has rectified all observations as identified during environmental site inspection in the reporting month.

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

As advised by the Contractor, 3223 m³ of inert C&D Materials are generated and disposed of in the reporting period and 221 m³ of inert C&D Materials are disposed of as public fill. 12.39 tonnes of general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in *Appendix M*.

The Contractor is advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

The Contractor is reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

The status of environmental licensing and permit is summarized in *Table 2.15* below.

Table 2.15 Summary of Environmental Licensing and Permit Status

| Statutory Reference | License/ Permit | License or Permit No. | Date of Issue | Date of Expiry | License/ Permit Holder | Remarks |
|---------------------|-------------------------------------|-----------------------|-------------------------|----------------|------------------------|--|
| EIAO | Environmental Permit | EP-354/2009/A | 8 Dec 2010 | NA | HyD | Tuen Mun- Chek Lap Kok Link |
| EIAO | Environmental Permit | EP-354/2009/B | 28 Jan 2014 | NA | HyD | Tuen Mun- Chek Lap Kok Link |
| APCO | Construction Dust Notification | 361571 | 5 Jul 2013 | NA | GCL | - |
| APCO | Construction Dust Notification | 362093 | 17 Jul 2013 | NA | GCL | for Area 23 |
| WDO | Billing Account for Disposal | 7017735 | 10 Jul 2013 | End of Project | GCL | - |
| WDO | Chemical Waste Registration | 5213-961-G2380-13 | 10 Oct 2013 | NA | GCL | Chemical waste produced in Contract HY/2012/07 |
| WDO | Chemical Waste Registration | 5213-961-G2380-14 | 10 Oct 2013 | NA | GCL | Chemical waste produced in Contract HY/2012/07 |
| WDO | Chemical Waste Registration | 5213-974-G2588-03 | 4 Nov 2013 | NA | GCL | Chemical waste produced in Contract HY/2012/07 |
| WDO | Construction Waste Disposal Account | 7017735 | 10 Jul 2013 | NA | GCL | Waste disposal in Contract HY/2012/07 |
| WPCO | Waste Water Discharge License | Nil | Application Ref. 368337 | NA | GCL | Discharge for discharge points for Viaduct A & B |
| NCO | Construction Noise Permit | Nil | Application in | NA | GCL | For Piling Works |

| Statutory Reference | License/ Permit | License or Permit No. | Date of Issue | Date of Expiry | License/ Permit Holder | Remarks |
|---------------------|---------------------------|-----------------------|------------------------|----------------|------------------------|---|
| NCO | Construction Noise Permit | GW-RW0660-13 | process 27 Sep 2013 | 02 Feb 2014 | GCL | For night works and works in general holidays |
| NCO | Construction Noise Permit | GW-RS1129-13 | 31 Oct 2013 | 30 Apr 2014 | GCL | For night works and works in general holidays |
| NCO | Construction Noise Permit | GW-RS1186-13 | 23 Oct 2013 | 24 Dec 2013 | GCL | For night works and works in general holidays |
| NCO | Construction Noise Permit | GW-RS1187-13 | 24 Oct 2013 | 28 Feb 2014 | GCL | For night |
| NCO | Construction Noise Permit | GW-RW0925-13 | 19 Dec 2013 | 17 Apr 2014 | GCL | Renewal of WA5 site office erection |
| NCO | Construction Noise Permit | GW-RS1423-13 | 11 Dec 2013 | 30 Apr 2014 | GCL | Renewal for marine portion |
| NCO | Construction Noise Permit | GW-RS1413-13 | 17 Dec 2013 | 26 Mar 2014 | GCL | For loading and unloading on NLH near viaduct A & B |
| NCO | Construction Noise Permit | GW-RS0034-14 | 14 Jan 2014 | 29 Mar 2014 | GCL | For night works and works in general holiday |
| NCO | Construction Noise Permit | GW-RW0123-14 | 27 Feb 2014 | 27 Aug 2014 | GCL | For night works and works in general holiday |
| NCO | Construction Noise Permit | GW-RS0236-14 | 27 Mar 2014 | 14 May 2014 | GCL | For loading & unloading on NLH near Viaduct A & B |
| NCO | Construction Noise Permit | GW-RS0226-14 | 30 Mar 2014 | 29 Sep 2014 | GCL | For loading & unloading on NLH near |

| Statutory Reference | License/ Permit | License or Permit No. | Date of Issue | Date of Expiry | License/ Permit Holder | Remarks |
|---|---|-----------------------|-----------------|----------------|------------------------|--|
| | | | | | | Viaduct D |
| NCO | Construction Noise Permit | GW-RS0280-14 | 31 Mar 2014 | 31 May 2014 | GCL | For excavation at Pier B9 |
| DASO | Dumping Permit/ Loading Permit (Type 1 – Open Sea Disposal) | (4) in EP/MD/14-075 | 25 Sep 2013 | NA | GCL | - |
| DASO | Marine Dumping Permit | EP/MD/14-075 | 28 January 2014 | 27 July 2014 | GCL | For dumping Type I Sediment |
| DASO | Marine Dumping Permit | EP/MD/14-155 | 1 April 2014 | 30 April 2014 | GCL | For dumping Type I (Dedicated Site) and Type II Sediment |
| Note: Statutory Reference: EIAO – Environmental Impact Assessment Ordinance; NCO – Noise Control Ordinance; APCO – Air Pollution Control Ordinance; WDO – Waste Disposal Ordinance; WPCO – Water Pollution Control Ordinance; DASO – Dumping At Sea Ordinance. License/ Permit Holder: HyD – Highway Department; GCL – Gammon Construction Limited. | | | | | | |

2.9 *IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES*

In response to the site audit findings, the Contractors carried out corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures were implemented properly for this Contract.

2.10 *SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT*

Results for 1-hour, 24-hour TSP, construction noise monitoring and impact water quality monitoring complied with the Action/ Limit levels in the reporting period.

Cumulative statistics on exceedances is provided in *Appendix N*.

2.11 *SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS*

The Environmental Complaint Handling Procedure is provided in *Figure 2.6*.

No complaints, notification of summons and prosecution were received in the reporting period.

Statistics on complaints, notifications of summons and successful prosecutions are summarized in *Appendix N*.

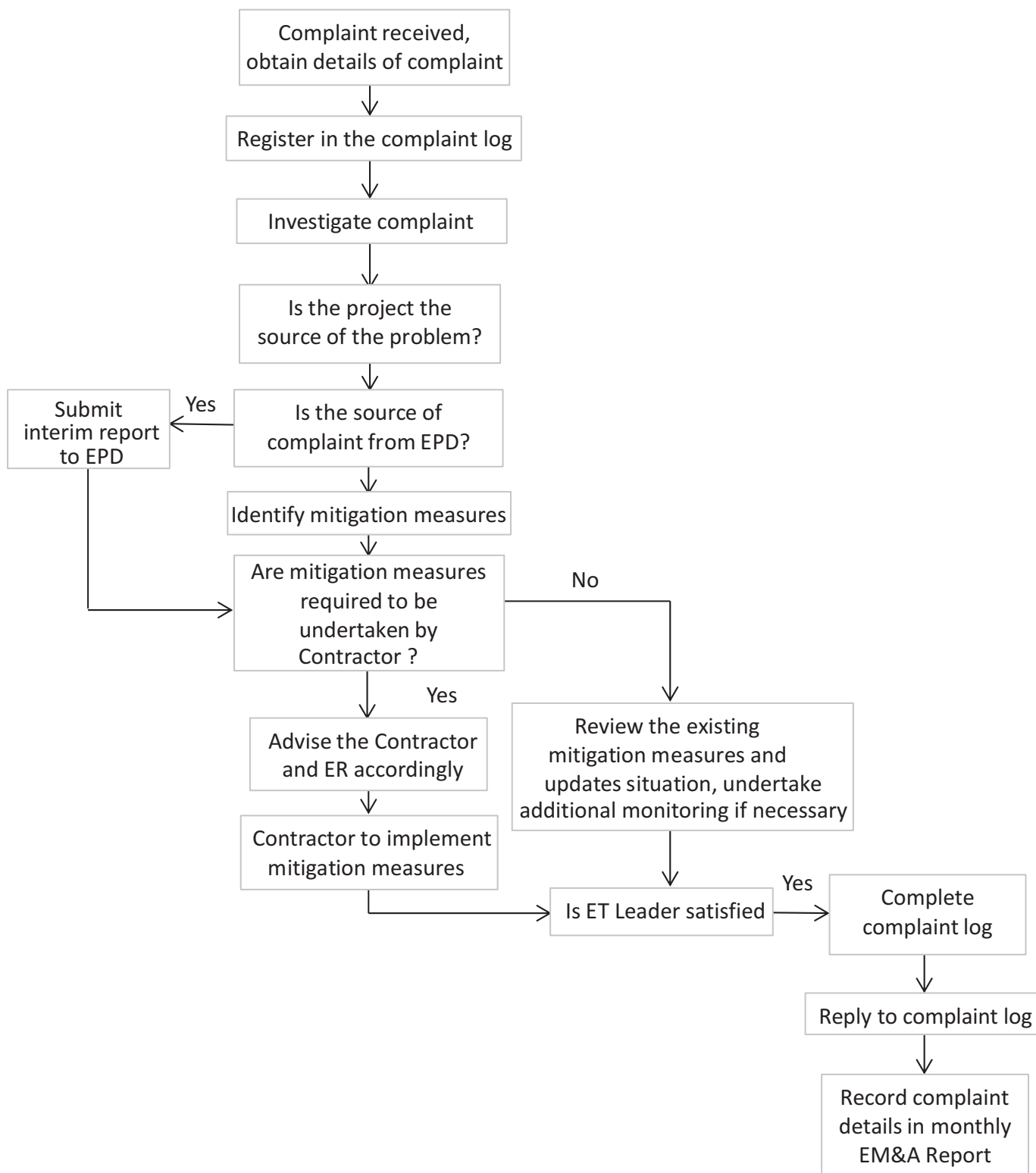


Figure 2.6

Environmental Complaint Handling Procedure

3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTHS

As informed by the Contractor, the major works for the Contract in April 2014 will be:

Marine Works

- Marine piling platform installation;
- Marine piling at Viaduct B;
- Construction of rockfill platform at Viaduct D landing; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Satellite container offices erection along seawall;
- Fence installation and relocation of Area 2, Viaducts A, B, C & D;
- Land piling at Viaduct B, C and E;
- Piling platform installation for Viaducts B, D & E;
- Additional land ground investigation (GI), trial pits & laboratory testing;
- Utility surveys; and
- Slope work at 9SE-B/C8 and 9SE-B/C9.

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of April 2014 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedule for environmental monitoring in April 2014 is provided in *Appendix F*.

Marine bored piling monitoring programme for dolphins (ie Land-based Theodolite Tracking, Underwater Noise Monitoring and Acoustic Behavioural Monitoring) will be carried out in April 2014. The preliminary schedule for the marine bored piling monitoring in the coming reporting month is provide in *Appendix F*.

This Fifth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 March 2014, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/A.

Air quality (including 1-hour TSP and 24-hour TSP), noise, water quality and dolphin monitoring were carried out in the reporting period. Results for noise, 1-hr, 24-hr TSP monitoring, noise and impact water quality monitoring complied with the Action/ Limit levels in the reporting period.

A total of fourteen (14) groups of forty-three (43) dolphin sightings were recorded during the two sets of surveys. All sightings were made in NWL during the two sets of surveys in March, with no dolphin being sighted at all in NEL. During this reporting period of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations.

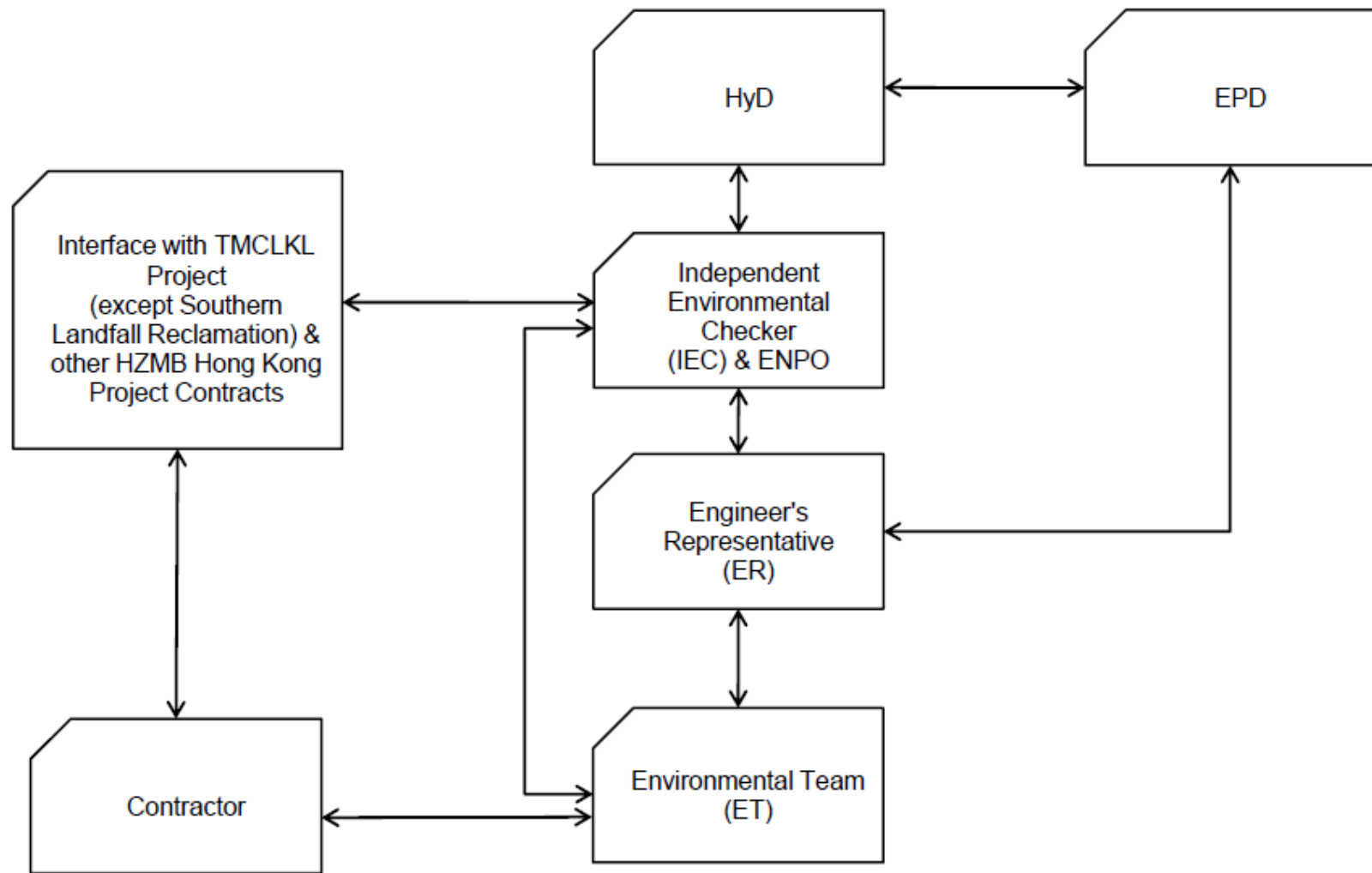
Environmental site inspection was carried out four (4) times in March 2014. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

No environmental complaint, notification of summons and prosecution were received in the reporting month.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A

Project Organization for Environmental Works



↔ Line of Communication

Appendix B

Three-Month Rolling Construction Programme

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HY/2012/07 - TM-CLK Link-SC [DWP rD] TARGET - 3MRP Status Update 21-03-2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[illegible]

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | |
|--|---|-------------|-----------------------------|---------------------|---------------------|------------|-------------------------------|------------|-------------|-------------|------------|-------|----|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|--|--|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | |
| ARDD0014-1 | Receipt of Additional GI Data E5-E8 | 0 | | 0% | 0% | 0 | 07-Apr-14 | | 26-Jul-18 | 1124 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0014-2 | Receipt of Additional GI Data - Other areas | 0 | | 0% | 0% | 0 | 10-Apr-14 | | 20-Dec-13 | -79 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0015-1 | E5-E8 Interpretation | 15 | 07-Apr-14 | 0% | 0% | 15 | 28-Apr-14 | 26-Jul-18 | 16-Aug-18 | 1124 | 1124 | | | | | | | | | | | | | | | | | | | |
| ARDD0015-2 | Additional GI Interpretative Report - AP03.00 | 15 | 11-Apr-14 | 0% | 0% | 15 | 01-May-14 | 23-Dec-13 | 10-Jan-14 | -79 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0017-1 | Earliest IC certificate for DDA-AP03.00 | 0 | | 0% | 0% | 0 | 12-Jun-14 | | 26-Feb-14 | -76 | 3 | | | | | | | | | | | | | | | | | | | |
| ARDD0017-2 | IC/SO Approval of Additional GI Interpretative Report - AP03.00 | 75 | 02-May-14 | 0% | 0% | 75 | 14-Aug-14 | 13-Jan-14 | 25-Apr-14 | -79 | 0 | | | | | | | | | | | | | | | | | | | |
| Surveys and Investigations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0022 | Fieldwork and Permitting | 60 | 08-Jul-13 A | 90% | 90% | 6 | 28-Mar-14 | 08-Aug-18 | 16-Aug-18 | 1144 | 1144 | | | | | | | | | | | | | | | | | | | |
| ARDD0025 | IC/SO Approval of Utility Report - AP04.00 | 75 | 22-Oct-13 A | 40% | 70% | 23 | 22-Apr-14 | 06-Jun-14 | 08-Jul-14 | 56 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0025-1 | IC/SO Approval of Utility Report - AP04.00 | 0 | | 0% | 0% | 0 | 22-Apr-14 | | 08-Jul-14 | 56 | 0 | | | | | | | | | | | | | | | | | | | |
| General Submissions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0035 | IC/SO Approval of of Durability Assessment Report - AP06.00 | 75 | 08-Aug-13 A | 100% | 100% | 0 | 05-Mar-14 A | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0035-1 | IC/SO Approval of of Durability Assessment Report - AP06.00 | 0 | | 100% | 100% | 0 | 05-Mar-14 A | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0038 | Preparation of Maintenance Matrix - AP07.00 | 30 | 19-May-14 | 0% | 0% | 30 | 27-Jun-14 | 15-Apr-15 | 26-May-15 | 237 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0041-1 | Preparation of O&M Facility Provisions - BP11.00 | 50 | 10-Feb-14 A | 80% | 18% | 41 | 16-May-14 | 21-Oct-14 | 16-Dec-14 | 152 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0041-2 | IC/SO Approval of O&M Facility Provisions - BP11.00 | 75 | 19-May-14 | 0% | 0% | 75 | 29-Aug-14 | 17-Dec-14 | 31-Mar-15 | 152 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0461 | Prepare CTIA Report submission - AP05.00 | 20 | 30-Jan-14 A | 100% | 100% | 0 | 21-Mar-14 | 31-Mar-17 | 31-Mar-17 | 791 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0462 | Govt depts, IC/SO approval of CTIA Report submission - AP05.00 | 75 | 24-Feb-14 A | 30% | 30% | 53 | 03-Jun-14 | 01-Apr-14 | 13-Jun-14 | 8 | 0 | | | | | | | | | | | | | | | | | | | |
| ACABAS Submission | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0049 | 2nd ACABAS Meeting | 0 | | 100% | 100% | 0 | 21-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | |
| GCL Erection Sequence and Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0060-4 | Receipt of Final Erection Sequence and Loads - Bridge C | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 12-Aug-14 | 103 | 15 | | | | | | | | | | | | | | | | | | | |
| ARDD0060-7 | Receipt of Final Erection Sequence and Loads - Bridge F | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 30-May-14 | 51 | 33 | | | | | | | | | | | | | | | | | | | |
| Gazette and Alignment (assume no gazette change) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0071 | IC/SO Approval of Alignment DDA - BP01.01 | 75 | 23-Jan-14 A | 40% | 60% | 30 | 01-May-14 | 19-Mar-14 | 29-Apr-14 | -2 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0071-1 | Earliest Approval of Alignment DDA - BP01.01 | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 29-Apr-14 | 28 | 30 | | | | | | | | | | | | | | | | | | | |
| ARDD0071-2 | IC/SO Approval of Alignment DDA - BP01.01 | 0 | | 0% | 0% | 0 | 01-May-14 | | 29-Apr-14 | -2 | 0 | | | | | | | | | | | | | | | | | | | |
| General Viaduct Submission | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0076 | IC/SO Approval of AIP - BP21.00 | 68 | 14-Mar-14 A | 40% | 40% | 41 | 16-Jul-14 | 19-May-14 | 14-Jul-14 | -2 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0077 | Preparation of Viaduct E&M Works DDA - BP21.01 | 30 | 09-May-14 | 0% | 0% | 30 | 19-Jun-14 | 29-Jul-14 | 08-Sep-14 | 57 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0078 | IC/SO Approval of DDA BP21.01 | 75 | 20-Jun-14 | 0% | 0% | 75 | 02-Oct-14 | 09-Sep-14 | 22-Dec-14 | 57 | 0 | | | | | | | | | | | | | | | | | | | |
| Viaduct B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0096 | Viaduct B - Preparation of Substructure DDA - DP12.03 | 50 | 04-Nov-13 A | 100% | 100% | 0 | 04-Mar-14 A | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0097 | Viaduct B - Preparation of Superstructure DDA - DP12.03 | 70 | 04-Nov-13 A | 100% | 100% | 0 | 04-Mar-14 A | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0098 | Viaduct B - Submission of Sub & Superstructure DDA - DP12.03 | 0 | | 100% | 100% | 0 | 04-Mar-14 A | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0099-1 | Viaduct B - Earliest IC Certificate for DP12.03 | 0 | | 100% | 100% | 0 | 04-Mar-14 A | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0099-2 | Viaduct B - IC/SO Approval Pile Cap Precast Shells of DDA DP12.02 | 75 | 30-Nov-13 A | 60% | 60% | 30 | 01-May-14 | 17-Mar-14 | 25-Apr-14 | -4 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0099-3 | Viaduct B - IC/SO Approval of Sub & Superstrucrue DDA - DP12.03 | 75 | 04-Mar-14 A | 40% | 40% | 45 | 23-May-14 | 14-Apr-14 | 13-Jun-14 | 15 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0099-5 | Viaduct B - IC/SO Approval of Sub & Superstrucrue DDA - DP12.03 | 0 | | 0% | 0% | 0 | 23-May-14 | | 13-Jun-14 | 15 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0099-7 | Viaduct B - IC/SO Approval Pile Cap Precast Shells of DDA DP12.02 | 0 | | 0% | 0% | 0 | 01-May-14 | | 25-Apr-14 | -4 | 7 | | | | | | | | | | | | | | | | | | | |
| Associated Construction Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0127 | Viaduct B - Commencement of Piling | 0 | 21-Mar-14 | 0% | 0% | 0 | | 14-Feb-14 | | -24 | 11 | | | | | | | | | | | | | | | | | | | |
| ARDD0128-1 | Viaduct B - Commencement of Pilecaps (Land) | 0 | 26-May-14 | 0% | 0% | 0 | | 05-Sep-14 | | 75 | 0 | | | | | | | | | | | | | | | | | | | |
| ARDD0129 | Viaduct B - Initial Segment Casting on Approval of DDA | 0 | 24-May-14 | 0% | 0% | 0 | | 14-Jun-14 | | 21 | 95 | | | | | | | | | | | | | | | | | | | |
| Viaduct E5 and E6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------|-----------------------------|---------------------|---------------------|------------|-------------------------------|------------|-------------|-------------|------------|-------|--|----|----------|-------|---------|----|----------|-----|-----------|----|----|------|----|----|------------------------|----|----|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | | | | | | | | |
| ARDD0140 | Viaduct E5 & E6 - IC/SO Approval of Sub & Superstructure AIP - DP15.00 | 68 | 01-Oct-13 A | 100% | 100% | 0 | 24-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0140-1 | Viaduct E5 & E6 - IC/SO Approval of Sub & Superstructure AIP - DP15.00 | 0 | | 100% | 100% | 0 | 24-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0145-1 | Viaduct E5 & E6 - Earliest IC/SO Certificate for Foundation DDA - DP15.07 | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 25-Apr-14 | 26 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0146 | Viaduct E5 & E6 - Preparation of Pilecap Precast Shells DDA - DP15.08 | 40 | 04-Nov-13 A | 80% | 90% | 4 | 26-Mar-14 | 29-Apr-14 | 02-May-14 | 27 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0147 | Viaduct E5 & E6 - Preparation of Substructure DDA - DP15.09 | 60 | 04-Nov-13 A | 80% | 80% | 12 | 07-Apr-14 | 17-Apr-14 | 02-May-14 | 19 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0148 | Viaduct E5 & E6 - Preparation of Superstructure DDA - DP15.09 | 90 | 04-Nov-13 A | 80% | 80% | 18 | 15-Apr-14 | 09-Apr-14 | 02-May-14 | 13 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0149 | Viaduct E5 & E6 - Submission of DDA for Viaduct Sub & Superstructure E5 & E6 - I | 0 | | 0% | 0% | 0 | 15-Apr-14 | | 02-May-14 | 13 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0149-1 | Viaduct E5 & E6 - Submission of DDA for Viaduct Pile Cap Precast Shells E5 & E6 | 0 | | 0% | 0% | 0 | 26-Mar-14 | | 07-May-14 | 30 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0150-1 | Viaduct E5 & E6 - Earliest IC certificate for DDA for Viaduct E5 & E6 - DP15.09 | 0 | | 0% | 0% | 0 | 07-May-14 | | 09-Jul-14 | 45 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0150-3 | Viaduct E5 & E6 - IC/SO Approval of Pile Cap Precast Shells DDA DP15.08 | 75 | 27-Mar-14 | 0% | 0% | 75 | 09-Jul-14 | 08-May-14 | 20-Aug-14 | 30 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0150-4 | Viaduct E5 & E6 - IC/SO Approval (late) of Sub & Superstructure DDA DP15.09 | 75 | 16-Apr-14 | 0% | 0% | 75 | 29-Jul-14 | 08-May-14 | 20-Aug-14 | 16 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Information to Contractor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0160 | Viaduct E5 & E6 - Final Pilecap Reinforcement | 0 | | 0% | 0% | 0 | 07-Apr-14 | | 24-Jul-14 | 78 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0162 | Viaduct E5 & E6 - Final Pier Shapes and Reinforcement | 0 | | 0% | 0% | 0 | 07-Apr-14 | | 12-Aug-14 | 91 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0165 | Viaduct E5 & E6 - Final Segment Types and Reinforcement | 0 | | 0% | 0% | 0 | 15-Apr-14 | | 13-May-14 | 20 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0167 | Viaduct E5 & E6 - Final Anchorage and PT Requirements | 0 | | 0% | 0% | 0 | 15-Apr-14 | | 13-May-14 | 20 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct E7 & E8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0185 | Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure AIP - DP15.00 | 68 | 01-Oct-13 A | 100% | 100% | 0 | 24-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0185-1 | Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure AIP - DP15.00 | 0 | | 100% | 100% | 0 | 24-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0190-1 | Viaduct E7 & E8 - Earliest IC Certificate for Foundation DDA - DP15.07 | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 25-Apr-14 | 26 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0191 | Viaduct E7 & E8 - Preparation of Pilecap Precast Shells DDA - DP15.08 | 40 | 04-Nov-13 A | 80% | 80% | 8 | 01-Apr-14 | 17-Feb-14 | 26-Feb-14 | -24 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0192 | Viaduct E7 & E8 - Preparation of Substructure DDA - 15.09 | 60 | 04-Nov-13 A | 40% | 40% | 36 | 09-May-14 | 03-Feb-14 | 24-Mar-14 | -34 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0193 | Viaduct E7 & E8 - Preparation of Superstructure DDA - DP15.09 | 90 | 04-Nov-13 A | 40% | 40% | 54 | 04-Jun-14 | 18-Feb-14 | 02-May-14 | -23 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0194 | Viaduct E7 & E8 - Submission of Sub & Superstructure DDA - DP15.09 | 0 | | 0% | 0% | 0 | 04-Jun-14 | | 02-May-14 | -23 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0194-2 | Viaduct E7 & E8 - Submission of Pilecap Precast Shells DDA - DP15.08 | 0 | | 0% | 0% | 0 | 01-Apr-14 | | 21-Mar-14 | -7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0195-1 | Viaduct E7 & E8 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.08 | 0 | | 0% | 0% | 0 | 13-May-14 | | 02-May-14 | -7 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0195-3 | Viaduct E7 & E8 - IC/SO Approval of Pilecap Precast Shells DDA - DP15.08 | 75 | 02-Apr-14 | 0% | 0% | 75 | 15-Jul-14 | 24-Mar-14 | 04-Jul-14 | -7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0195-4 | Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure DDA - DP15.09 | 75 | 05-Jun-14 | 0% | 0% | 75 | 17-Sep-14 | 09-May-14 | 21-Aug-14 | -19 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Information to Contractor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0205 | Viaduct E7 & E8 - Final Pilecap Reinforcement | 0 | | 0% | 0% | 0 | 09-May-14 | | 19-Jun-14 | 29 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0207 | Viaduct E7 & E8 - Final Pier Shapes and Reinforcement | 0 | | 0% | 0% | 0 | 09-May-14 | | 23-Oct-14 | 119 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0210 | Viaduct E7 & E8 - Final Segment Types and Reinforcement | 0 | | 0% | 0% | 0 | 04-Jun-14 | | 13-May-14 | -16 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0212 | Viaduct E7 & E8 - Final Anchorage and PT Requirements | 0 | | 0% | 0% | 0 | 04-Jun-14 | | 13-May-14 | -16 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct E2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0231 | Viaduct E2 - IC/SO Approval of Sub & Superstructure AIP - DP15.00 | 68 | 01-Oct-13 A | 100% | 100% | 0 | 24-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0231-1 | Viaduct E2 - IC/SO Approval of Sub & Superstructure AIP - DP15.00 | 0 | | 100% | 100% | 0 | 24-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0236-1 | Viaduct E2 - Earliest IC Certificate for Foundation DDA - DP15.04 | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 15-Apr-14 | 18 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0236-2 | Viaduct E2 - IC/SO Approval of Foundation (Early) DDA - DP15.04 | 55 | 16-Dec-13 A | 60% | 60% | 22 | 21-Apr-14 | 17-Mar-14 | 15-Apr-14 | -4 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0236-3 | Viaduct E2 - IC/SO Approval of Foundation (Late) DDA - DP15.04 | 75 | 16-Dec-13 A | 60% | 60% | 30 | 01-May-14 | 05-Mar-14 | 15-Apr-14 | -12 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0236-5 | Viaduct E2 - IC/SO Approval of Foundation (Late) DDA - DP15.04 | 0 | | 0% | 0% | 0 | 01-May-14 | | 15-Apr-14 | -12 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0237 | Viaduct E2 - Preparation of Pilecap Precast Shells DDA - DP15.05 | 40 | 04-Nov-13 A | 80% | 80% | 8 | 01-Apr-14 | 29-Apr-14 | 09-May-14 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0238 | Viaduct E2 - Preparation of Substructure DDA - DP15.06 | 60 | 04-Nov-13 A | 80% | 80% | 12 | 07-Apr-14 | 28-May-14 | 13-Jun-14 | 49 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0239 | Viaduct E2 - Preparation of Superstructure DDA - DP15.06 | 90 | 04-Nov-13 A | 80% | 100% | 0 | 21-Mar-14 | 15-Apr-14 | 15-Apr-14 | 18 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0240 | Viaduct E2 - Submission of Sub & Superstructure DDA - DP15.06 | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 14-Jul-14 | 82 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0240-2 | Viaduct E2 - Submission of Pilecap Precast Shell DDA - DP15.05 | 0 | | 0% | 0% | 0 | 01-Apr-14 | | 09-May-14 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project ID: J3518DWPrD-U05 Layout: J3518-DWP-3MRP submission Filter: TASK filters: 3-Month Lookahead, No Level of Effort, TCSS Design Excluded. | | | | | | | | | | | | | Date | | Revision | | Checked | | Approved | | DWG. No.: | | | | | | J3518/GCL/PGM/3MRP-M10 | | | | | | | | | | | |
| | | | | | | | | | | | | | 21-Mar-14 | | | | HW | | | | | | | | | | | | | | | | | | | | | |
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| Actual Work Planned Bar Critical Bar Milestone | | | | | | | | | | | | | Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 4 of 18 Pages) (Progress as of 21-Mar-14) | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0241-1 | Viaduct E2 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.05 | 0 | | 0% | 0% | 0 | 13-May-14 | | 28-Aug-14 | 77 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

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[illegible]

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | |
|--|---|-------------|-----------------------------|---------------------|---------------------|------------|-------------------------------|------------|-------------|-------------|------------|-------|----|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|--|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | |
| ARDD0624 | Preparation of Waterworks, Drainage & Utility DDA - BP20.01 | 40 | 16-May-14 | 0% | 0% | 40 | 11-Jul-14 | 25-Jun-14 | 19-Aug-14 | 27 | 0 | | | | | | | | | | | | | | | | | | |
| Viaduct Approach Ramp Retaining Walls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Ramp D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0648 | Approach D - Receipt of Topographic and Utility Survey | 0 | | 0% | 0% | 0 | 01-May-14 | | 25-Jul-14 | 61 | 3 | | | | | | | | | | | | | | | | | | |
| ARDD0649 | Approach D - Preparation of Approach Ramp D AIP Submission - DP20.00 | 55 | 04-Nov-13 A | 95% | 95% | 3 | 25-Mar-14 | 11-Jun-14 | 13-Jun-14 | 58 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0650 | Approach D - IC/SO Approval of Approach Ramp D AIP - DP20.00 | 68 | 25-Mar-14 | 0% | 0% | 68 | 27-Jun-14 | 16-Jun-14 | 17-Sep-14 | 58 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0651 | Approach D - Preparation of Approach Ramp D DDA Submission - DP20.04 | 30 | 06-May-14 | 0% | 0% | 30 | 17-Jun-14 | 28-Jul-14 | 05-Sep-14 | 58 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0652 | Approach D - IC/SO Approval of Approach Ramp D DDA - DP20.04 | 75 | 17-Jun-14 | 0% | 0% | 75 | 30-Sep-14 | 08-Sep-14 | 19-Dec-14 | 58 | 0 | | | | | | | | | | | | | | | | | | |
| Approach Ramp C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0654 | Approach C - Receipt of Topographic and Utility Survey | 0 | | 0% | 0% | 0 | 17-Jun-14 | | 17-Oct-14 | 88 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0655 | Approach C - Preparation of Approach Ramp C AIP Submission -DP20.00 Update | 30 | 21-Mar-14 | 0% | 0% | 30 | 01-May-14 | 28-Jul-14 | 05-Sep-14 | 91 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0656 | Approach C - IC/SO Approval of Approach Ramp C AIP -DP20.00 | 68 | 02-May-14 | 0% | 0% | 68 | 05-Aug-14 | 08-Sep-14 | 10-Dec-14 | 91 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0657 | Approach C - Preparation of Approach Ramp C DDA Submission - DP20.03 | 30 | 17-Jun-14 | 0% | 0% | 30 | 29-Jul-14 | 20-Oct-14 | 28-Nov-14 | 88 | 0 | | | | | | | | | | | | | | | | | | |
| Approach Ramp B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0660 | Approach B - Receipt of Topographic and Utility Survey | 0 | | 0% | 0% | 0 | 01-May-14 | | 03-Jun-14 | 23 | 3 | | | | | | | | | | | | | | | | | | |
| ARDD0661 | Approach B - Preparation of Approach Ramp B AIP Submission - DP20.00 Update | 55 | 09-Dec-13 A | 95% | 95% | 3 | 25-Mar-14 | 18-Apr-14 | 22-Apr-14 | 20 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0662 | Approach B - IC/SO Approval of Approach Ramp B AIP -DP20.00 | 68 | 25-Mar-14 | 0% | 0% | 68 | 27-Jun-14 | 23-Apr-14 | 25-Jul-14 | 20 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0663 | Approach B - Preparation of Approach Ramp B DDA Submission -DP20.02 | 30 | 06-May-14 | 0% | 0% | 30 | 17-Jun-14 | 04-Jun-14 | 15-Jul-14 | 20 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0664 | Approach B - IC/SO Approval of Approach Ramp B DDA -DP20.02 | 75 | 17-Jun-14 | 0% | 0% | 75 | 30-Sep-14 | 16-Jul-14 | 28-Oct-14 | 20 | 0 | | | | | | | | | | | | | | | | | | |
| Approach A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0666 | Approach A - Receipt of Topographic and Utility Survey | 0 | | 0% | 0% | 0 | 17-Jun-14 | | 30-Oct-14 | 97 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0667 | Approach A - Preparation of Approach Ramp A AIP Submission -DP20.00 Update | 30 | 21-Mar-14 | 0% | 0% | 30 | 01-May-14 | 08-Aug-14 | 18-Sep-14 | 100 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0668 | Approach A - IC/SO Approval of Approach Ramp AAIP -DP20.00 | 68 | 02-May-14 | 0% | 0% | 68 | 05-Aug-14 | 19-Sep-14 | 23-Dec-14 | 100 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0669 | Approach A - Preparation of Approach Ramp A DDA Submission -DP20.01 | 30 | 17-Jun-14 | 0% | 0% | 30 | 29-Jul-14 | 31-Oct-14 | 11-Dec-14 | 97 | 0 | | | | | | | | | | | | | | | | | | |
| Approach F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0672 | Approach F - Receipt of Topographic and Utility Survey | 0 | | 0% | 0% | 0 | 17-Jun-14 | | 29-Sep-14 | 74 | 7 | | | | | | | | | | | | | | | | | | |
| ARDD0673 | Approach F - Preparation of Approach Ramp F AIP Submission -DP21.00 Update | 40 | 21-Mar-14 | 0% | 0% | 40 | 15-May-14 | 24-Jun-14 | 18-Aug-14 | 67 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0674 | Approach F - IC/SO Approval of Approach Ramp F AIP -DP21.00 | 68 | 16-May-14 | 0% | 0% | 68 | 19-Aug-14 | 19-Aug-14 | 20-Nov-14 | 67 | 0 | | | | | | | | | | | | | | | | | | |
| Viaduct Pavement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD865 | Viaduct Pavement - Preparation of AIP Submission - BP02.00 | 20 | 25-Mar-14* | 0% | 0% | 20 | 22-Apr-14 | 21-May-14 | 17-Jun-14 | 40 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD867 | Viaduct Pavement - IC/SO Approval of AIP - BP02.00 | 68 | 22-Apr-14 | 0% | 0% | 68 | 25-Jul-14 | 18-Jun-14 | 19-Sep-14 | 40 | 0 | | | | | | | | | | | | | | | | | | |
| Signs, Markings and Street Furniture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0683 | IC/SO Approval of Signs, Markings & Street Furniture AIP - BP03.00 | 68 | 21-Mar-14 | 0% | 0% | 68 | 24-Jun-14 | 05-Jun-14 | 08-Sep-14 | 54 | 0 | | | | | | | | | | | | | | | | | | |
| Landscape | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0691 | Confirm Acceptance of Reference Design LVIA | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 20-Nov-14 | 175 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0692 | Prepare Outline Planting Plans | 20 | 21-Mar-14 | 0% | 0% | 20 | 17-Apr-14 | 21-Nov-14 | 18-Dec-14 | 175 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0693 | Prepare Outline Irrigtaion Plans | 20 | 21-Mar-14 | 0% | 0% | 20 | 17-Apr-14 | 21-Nov-14 | 18-Dec-14 | 175 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0694 | Preparation of AIP Submission for landscape works | 10 | 18-Apr-14 | 0% | 0% | 10 | 01-May-14 | 19-Dec-14 | 01-Jan-15 | 175 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0695 | Updated LVIA Submission to Gov't Depts | 10 | 02-May-14 | 0% | 0% | 10 | 15-May-14 | 02-Jan-15 | 15-Jan-15 | 175 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0696 | IC/SO Approval of AIP for landscape works - BP22.00 | 68 | 16-May-14 | 0% | 0% | 68 | 19-Aug-14 | 16-Jan-15 | 21-Apr-15 | 175 | 0 | | | | | | | | | | | | | | | | | | |
| Remaining Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0704 | Preparation of Remaining Works AIP - ZP01.00 | 30 | 29-May-14 | 0% | 0% | 30 | 09-Jul-14 | 22-Aug-14 | 02-Oct-14 | 61 | 0 | | | | | | | | | | | | | | | | | | |
| Segment Target Geometry And Erection Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0712 | Viaduct B - Erection Sequence Analysis | 20 | 17-Jan-14 A | 70% | 70% | 6 | 28-Mar-14 | 02-Apr-14 | 10-Apr-14 | 8 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0713 | Viaduct B - Target Geomtery Analysis | 20 | 10-Feb-14 A | 70% | 70% | 6 | 28-Mar-14 | 02-Apr-14 | 10-Apr-14 | 8 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0714 | Viaduct B - Segment Geometry Schedules | 10 | 10-Feb-14 A | 70% | 70% | 3 | 25-Mar-14 | 07-Apr-14 | 10-Apr-14 | 11 | 3 | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | |
|--|--|-------------|-----------------------------|---------------------|---------------------|------------|-------------------------------|------------|-------------|-------------|------------|-------|----|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|--|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | |
| ARDD0714-1 | Viaduct B - Final Erection Geometry | 0 | | 0% | 0% | 0 | 28-Mar-14 | | 10-Apr-14 | 8 | 0 | | | | | | | | | | | | | | | | | | |
| Viaduct E5 and E6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0732 | Viaduct E5 & E6 - Erection Sequence Analysis | 30 | 17-Jan-14 A | 20% | 20% | 24 | 23-Apr-14 | 14-May-14 | 16-Jun-14 | 38 | 13 | | | | | | | | | | | | | | | | | | |
| ARDD0733 | Viaduct E5 & E6 - Target Geometry Analysis | 30 | 10-Feb-14 A | 10% | 10% | 27 | 28-Apr-14 | 25-Apr-14 | 02-Jun-14 | 25 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0734 | Viaduct E5 & E6 - Segment Geometry Schedules | 10 | 29-Apr-14 | 0% | 0% | 10 | 12-May-14 | 03-Jun-14 | 16-Jun-14 | 25 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0734-1 | Viaduct E5 & E6 - Final Erection Geometry | 0 | | 0% | 0% | 0 | 12-May-14 | | 16-Jun-14 | 25 | 38 | | | | | | | | | | | | | | | | | | |
| Viaduct E7 & E8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0737 | Viaduct E7 & E8 - Erection Sequence Analysis | 30 | 17-Jan-14 A | 20% | 20% | 24 | 23-Apr-14 | 19-Mar-14 | 21-Apr-14 | -2 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0738 | Viaduct E7 & E8 - Target Geometry Analysis | 30 | 24-Apr-14 | 0% | 0% | 30 | 04-Jun-14 | 22-Apr-14 | 02-Jun-14 | -2 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0739 | Viaduct E7 & E8 - Segment Geometry Schedules | 10 | 05-Jun-14 | 0% | 0% | 10 | 18-Jun-14 | 03-Jun-14 | 16-Jun-14 | -2 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0739-1 | Viaduct E7 & E8 - Final Erection Geometry | 0 | | 0% | 0% | 0 | 18-Jun-14 | | 16-Jun-14 | -2 | 17 | | | | | | | | | | | | | | | | | | |
| Viaduct E2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0747 | Viaduct E2 - Erection Sequence Analysis | 30 | 17-Jan-14 A | 20% | 20% | 24 | 23-Apr-14 | 22-Jul-14 | 22-Aug-14 | 87 | 10 | | | | | | | | | | | | | | | | | | |
| ARDD0748 | Viaduct E2 - Target Geometry Analysis | 30 | 10-Feb-14 A | 20% | 20% | 24 | 23-Apr-14 | 08-Jul-14 | 08-Aug-14 | 77 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0749 | Viaduct E2 - Segment Geometry Schedules | 10 | 24-Apr-14 | 0% | 0% | 10 | 07-May-14 | 11-Aug-14 | 22-Aug-14 | 77 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0749-1 | Viaduct E2 - Final Erection Geometry | 0 | | 0% | 0% | 0 | 07-May-14 | | 22-Aug-14 | 77 | 6 | | | | | | | | | | | | | | | | | | |
| Reprovisioning Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chung Tung Road Realignment Viaduct B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0804 | Viaduct B - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP33.00 | 68 | 30-Dec-13 A | 40% | 40% | 41 | 16-May-14 | 19-Mar-14 | 14-May-14 | -2 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0804-1 | Viaduct B - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP33.00 | 0 | | 0% | 0% | 0 | 16-May-14 | | 14-May-14 | -2 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0805 | Viaduct B - Preparation of CTR Reprovisioning Works DDA - BP33.01 | 30 | 26-Dec-13 A | 50% | 50% | 15 | 10-Apr-14 | 14-Apr-14 | 02-May-14 | 16 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0806 | Viaduct B - Submission of CTR Reprovisioning Works DDA - BP33.01 | 0 | | 0% | 0% | 0 | 10-Apr-14 | | 02-May-14 | 16 | 11 | | | | | | | | | | | | | | | | | | |
| ARDD0807 | Viaduct B - IC/SO Approval of CTR Reprovisioning Works DDA - BP33.01 | 75 | 25-Apr-14 | 0% | 0% | 75 | 08-Aug-14 | 05-May-14 | 15-Aug-14 | 5 | 0 | | | | | | | | | | | | | | | | | | |
| Chung Tung Road Realignment Viaduct C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0881 | Viaduct C - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP34.00 | 68 | 04-Feb-14 A | 80% | 80% | 14 | 09-Apr-14 | 09-Jun-14 | 26-Jun-14 | 56 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0881-1 | Viaduct C - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP34.00 | 0 | | 0% | 0% | 0 | 09-Apr-14 | | 26-Jun-14 | 56 | 22 | | | | | | | | | | | | | | | | | | |
| ARDD0883 | Viaduct C - Preparation of CTR Reprovisioning Works DDA - BP34.01 | 30 | 26-Dec-13 A | 30% | 30% | 21 | 18-Apr-14 | 08-May-14 | 05-Jun-14 | 34 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0885 | Viaduct C - Submission of CTR Reprovisioning Works DDA - BP34.01 | 0 | | 0% | 0% | 0 | 18-Apr-14 | | 05-Jun-14 | 34 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0887 | Viaduct C - IC/SO Approval of CTR Reprovisioning Works DDA - BP34.01 | 75 | 21-Apr-14 | 0% | 0% | 75 | 01-Aug-14 | 06-Jun-14 | 18-Sep-14 | 34 | 0 | | | | | | | | | | | | | | | | | | |
| Remaining Reprovisioning Works (Viaduct A&D) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0812 | Viaduct A&D - Preparation of AIP Remaining Reprovisioning Works V-A&D BP35.00 | 20 | 06-Mar-14 A | 80% | 80% | 4 | 26-Mar-14 | 16-Jun-14 | 19-Jun-14 | 61 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0813 | Viaduct A&D - IC/SO Approval of AIP for Remaining Reprovisioning Works V-A&D BP35.00 | 68 | 27-Mar-14 | 0% | 0% | 68 | 30-Jun-14 | 20-Jun-14 | 23-Sep-14 | 61 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0814 | Viaduct A&D - Preparation of DDA of Remaining Reprovisioning Works V-A&D BP35.00 | 20 | 01-May-14 | 0% | 0% | 20 | 28-May-14 | 25-Jul-14 | 21-Aug-14 | 61 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0815 | Viaduct A&D - IC/SO Approval of DDA of Remaining Reprovisioning Works BP35.00 | 75 | 29-May-14 | 0% | 0% | 75 | 10-Sep-14 | 24-Sep-14 | 07-Jan-15 | 84 | 0 | | | | | | | | | | | | | | | | | | |
| Emergency Gates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0854 | IC/SO Approval of Combined AIP/DDA for Emergency Gates - BP30.01 | 75 | 26-Nov-13 A | 50% | 50% | 38 | 13-May-14 | 08-Jan-14 | 28-Feb-14 | -52 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0854-1 | IC/SO Approval of Combined AIP/DDA for Emergency Gates - BP30.01 | 0 | | 0% | 0% | 0 | 13-May-14 | | 28-Feb-14 | -52 | 0 | | | | | | | | | | | | | | | | | | |
| ESS Substation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0819 | IC/SO Approval of Combined AIP/DDA for ESS Substation - BP31.01 | 75 | 11-Nov-13 A | 50% | 50% | 38 | 13-May-14 | 24-Mar-14 | 14-May-14 | 2 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0821 | IC/SO Approval of Combined AIP/DDA for ESS Substation - BP31.01 | 0 | | 0% | 0% | 0 | 13-May-14 | | 14-May-14 | 2 | 0 | | | | | | | | | | | | | | | | | | |
| CEDD Access Track | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0808 | Preparation of Combined AIP/DDA for CEDD Access Track - BP32.01 | 30 | 09-Sep-13 A | 50% | 50% | 15 | 10-Apr-14 | 05-Nov-15 | 25-Nov-15 | 424 | 0 | | | | | | | | | | | | | | | | | | |
| Construction Traffic Impact Assessment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0810 | Prepare CTIA - AP05.00 | 20 | 08-Jul-13 A | 100% | 100% | 0 | 24-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | |
| ARDD0811 | IC/SO Approval of CTIA - AP05.00 | 75 | 24-Feb-14 A | 40% | 40% | 45 | 22-May-14 | 11-Apr-14 | 13-Jun-14 | 15 | 0 | | | | | | | | | | | | | | | | | | |
| ARDD0816 | IC/SO Approval of CTIA - AP05.00 | 0 | | 0% | 0% | 0 | 22-May-14 | | 13-Jun-14 | 15 | 95 | | | | | | | | | | | | | | | | | | |
| Major Procurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Actual Work

Planned Bar

Critical Bar

Milestone

Project ID: J3518DWP-rD-U05
Layout: J3518-DWP-3MRP submission
Filter: TASK filters: 3-Month Lookahead, No Level of Effort, TCSS Design Excluded.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 9 of 18 Pages)
(Progress as of 21-Mar-14)

Date

Revision

Checked

Approved

DWG. No.:

J3518/GCL/PGM/3MRP-M10

[illegible]

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | |
|--|---------------|--|-----------------------------|---|---------------------|------------|-------------------------------|-------------|-------------|-------------|------------|----------|------------------------|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | |
| | | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 |
| | PP7110 | Rebar - Cut, Bend & Fabricate for Viaduct E5 & E6 Pile Caps | 204 | 08-Apr-14 | 0% | 0% | 204 | 12-Dec-14 | 25-Jul-14 | 30-Mar-15 | 86 | 0 | | | | | | | | | | | | | | | | |
| | PP7250 | Rebar - Cut, Bend & Fabricate for Viaduct E2 Pile Caps | 154 | 08-Apr-14 | 0% | 0% | 154 | 15-Oct-14 | 13-Jun-14 | 15-Dec-14 | 52 | 20 | | | | | | | | | | | | | | | | |
| | PP7400 | Rebar - Cut, Bend & Fabricate for Viaduct D Marine Pile Caps | 39 | 02-May-14 | 0% | 0% | 39 | 18-Jun-14 | 07-May-15 | 23-Jun-15 | 300 | 129 | | | | | | | | | | | | | | | | |
| Marine Piers - Viaduct E | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP7130 | Rebar - Cut, Bend & Fabricate for Viaduct E5 & E6 Piers | 120 | 30-May-14 | 0% | 0% | 120 | 22-Oct-14 | 11-Sep-14 | 03-Feb-15 | 86 | 34 | | | | | | | | | | | | | | | | |
| Land Pile Caps | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP7752 | Rebar - Cut, Bend & Fabricate for Viaduct B Land Pile Caps | 22 | 21-Mar-14 | 0% | 0% | 22 | 16-Apr-14 | 18-Jun-14 | 14-Jul-14 | 69 | 0 | | | | | | | | | | | | | | | | |
| | PP7754 | Rebar - Cut, Bend & Fabricate for Viaduct D Land Pile Caps | 24 | 31-May-14 | 0% | 0% | 24 | 28-Jun-14 | 30-Aug-14 | 27-Sep-14 | 76 | 33 | | | | | | | | | | | | | | | | |
| Land / Marine Piers - Viaduct A, B, C, D & F | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP7060 | Bending of Rebar for Viaduct B Piers | 64 | 17-Apr-14 | 0% | 0% | 64 | 08-Jul-14 | 15-Jul-14 | 27-Sep-14 | 69 | 26 | | | | | | | | | | | | | | | | |
| In-Situ Formworks / Falseworks | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP7140 | Preparation & Assembly of Formwork for Viaduct E5 & E6 Piers | 90 | 12-May-14 | 0% | 0% | 90 | 26-Aug-14 | 03-Nov-14 | 23-Feb-15 | 146 | 230 | | | | | | | | | | | | | | | | |
| | PP7280 | Preparation & Assembly of Formwork for Viaduct E2 Piers | 90 | 12-May-14 | 0% | 0% | 90 | 26-Aug-14 | 19-Jul-14 | 04-Nov-14 | 57 | 37 | | | | | | | | | | | | | | | | |
| | PPPF02 | Design & Fabrication of Falsework / Formwork & Delivery | 120 | 20-Feb-14 A | 40% | 20.83% | 95 | 18-Jul-14 | 21-Mar-14 | 19-Jul-14 | 0 | 0 | | | | | | | | | | | | | | | | |
| Pre-cast Pile Caps Shells | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP7050 | Production of Viaduct B Marine Precast Pile Cap Shells | 60 | 12-May-14 | 0% | 0% | 60 | 23-Jul-14 | 26-Apr-14 | 10-Jul-14 | -11 | 0 | | | | | | | | | | | | | | | | |
| | PP7190 | Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells | 140 | 10-Apr-14 | 0% | 0% | 140 | 30-Sep-14 | 24-Jul-14 | 09-Jan-15 | 83 | 0 | | | | | | | | | | | | | | | | |
| | PP7260 | Production of Viaduct E2 Marine Precast Pile Cap Shells | 70 | 10-Apr-14 | 0% | 0% | 70 | 09-Jul-14 | 30-May-14 | 22-Aug-14 | 39 | 0 | | | | | | | | | | | | | | | | |
| Bearings | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PPBRB1 | Design & Approval of Bearings Viaduct B | 90 | 11-Feb-14 A | 75% | 38.89% | 55 | 14-May-14 | 15-Feb-14 | 11-Apr-14 | -34 | 0 | | | | | | | | | | | | | | | | |
| | PPBRB1-1 | Design & Approval of Bearings Viaduct E5 & E6, E7 & E8 | 90 | 11-Feb-14 A | 75% | 38.89% | 55 | 14-May-14 | 16-Nov-13 | 10-Jan-14 | -124 | 0 | | | | | | | | | | | | | | | | |
| | PPBRB2 | Fabrication of Bearing & Delivery Viaduct B | 166 | 15-May-14 | 0% | 0% | 166 | 27-Oct-14 | 11-Apr-14 | 24-Sep-14 | -34 | 0 | | | | | | | | | | | | | | | | |
| | PPBRB2-1 | Fabrication of Bearing & Delivery Viaduct E5 & E6, E7 & E8 | 166 | 15-May-14 | 0% | 0% | 166 | 27-Oct-14 | 10-Jan-14 | 25-Jun-14 | -124 | 0 | | | | | | | | | | | | | | | | |
| | PPBRD1-1 | Design & Approval of Bearings Viaduct D | 90 | 21-Feb-14 A | 25% | 25% | 68 | 27-May-14 | 31-Jul-14 | 06-Oct-14 | 133 | 80 | | | | | | | | | | | | | | | | |
| | PPBRE1-1 | Design & Approval of Bearings Viaduct E1 | 90 | 11-Feb-14 A | 25% | 25% | 68 | 27-May-14 | 31-Aug-14 | 06-Nov-14 | 164 | 23 | | | | | | | | | | | | | | | | |
| | PPBRE2-1 | Design & Approval of Bearings Viaduct E2 | 90 | 21-Mar-14 | 0% | 0% | 90 | 18-Jun-14 | 09-Aug-14 | 06-Nov-14 | 141 | 0 | | | | | | | | | | | | | | | | |
| | PPBRE2-2 | Fabrication of Bearing & Delivery Viaduct E1 & E2 | 155 | 19-Jun-14 | 0% | 0% | 155 | 20-Nov-14 | 07-Nov-14 | 10-Apr-15 | 141 | 0 | | | | | | | | | | | | | | | | |
| Other Sub-Contract Procurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Structural Health Monitoring System (SHMS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PP7770 | Procure SHMS Sub-Contractor | 42 | 10-Dec-13 A | 70% | 70% | 13 | 04-Apr-14 | 21-Mar-14 | 04-Apr-14 | 0 | 0 | | | | | | | | | | | | | | | | |
| | PP7772 | SHMS - Prepare & Submit Preliminary System Proposal | 30 | 04-Apr-14 | 0% | 0% | 30 | 16-May-14 | 07-Apr-14 | 16-May-14 | 0 | 0 | | | | | | | | | | | | | | | | |
| | PP7774 | SHMS - So approval of Preliminary System Proposal | 30 | 16-May-14 | 0% | 0% | 30 | 21-Jun-14 | 16-Jun-14 | 21-Jul-14 | 24 | 18 | | | | | | | | | | | | | | | | |
| | PP7776 | SHMS - Prepare & Submit Final System Proposal | 48 | 16-May-14 | 0% | 0% | 48 | 14-Jul-14 | 24-May-14 | 21-Jul-14 | 6 | 0 | | | | | | | | | | | | | | | | |
| | PP7780 | SHMS - Prepare Civil Work Provision | 90 | 16-May-14 | 0% | 0% | 90 | 01-Sep-14 | 17-May-14 | 01-Sep-14 | 0 | 0 | | | | | | | | | | | | | | | | |
| | PP7782 | SHMS - Submit Precast Pile Cap Shell SHMS details for E5-E6-E7-E8 | 0 | 14-Jun-14 | 0% | 0% | 0 | | 02-Aug-14 | | 41 | 67 | | | | | | | | | | | | | | | | |
| Site Preparation / Mobilisations | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temp Traffic Mgt Submission & Approval | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TTM00280 | Earliest Implementation of TTM after TMLG Meeting No. 6 | 0 | 21-Feb-14 A | 100% | 100% | 0 | | | | | | | | | | | | | | | | | | | | | |
| | TTM00290 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 7 | 0 | | 100% | 100% | 0 | 06-Mar-14 A | | | | | | | | | | | | | | | | | | | | |
| | TTM00300 | TMLG Meeting No. 7 | 0 | | 100% | 100% | 0 | 11-Mar-14 A | | | | | | | | | | | | | | | | | | | | |
| | TTM00310 | Earliest Implementation of TTM after TMLG Meeting No. 7 | 0 | 25-Mar-14 | 0% | 0% | 0 | | 18-Jun-14 | | 61 | 20 | | | | | | | | | | | | | | | | |
| | TTM00320 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 8 | 0 | | 0% | 0% | 0 | 24-Mar-14 | | 26-Mar-14 | 1 | 0 | | | | | | | | | | | | | | | | |
| | TTM00330 | TMLG Meeting No. 8 | 0 | | 0% | 0% | 0 | 07-Apr-14* | | 09-Apr-14 | 1 | 0 | | | | | | | | | | | | | | | | |
| | TTM00340 | Earliest Implementation of TTM after TMLG Meeting No. 8 | 0 | 22-Apr-14 | 0% | 0% | 0 | | 18-Jun-14 | | 41 | 20 | | | | | | | | | | | | | | | | |
| | TTM00350 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 9 | 0 | | 0% | 0% | 0 | 21-Apr-14 | | 23-Apr-14 | 1 | 0 | | | | | | | | | | | | | | | | |
| | TTM00360 | TMLG Meeting No. 9 | 0 | | 0% | 0% | 0 | 05-May-14* | | 07-May-14 | 1 | 0 | | | | | | | | | | | | | | | | |
| | TTM00370 | Earliest Implementation of TTM after TMLG Meeting No. 9 | 0 | 20-May-14 | 0% | 0% | 0 | | 18-Jun-14 | | 21 | 23 | | | | | | | | | | | | | | | | |
| <div><div></div>Actual Work</div> <div><div></div>Planned Bar</div> <div><div></div>Critical Bar</div> <div><div></div>Milestone</div> | | Project ID: J3518DWP rD-U05 Layout: J3518-DWP-3MRP submission Filter: TASK filters: 3-Month Lookahead, No Level of Effort, TCSS Design Excluded. | | Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 11 of 18 Pages) (Progress as of 21-Mar-14) | | | | | Date | Revision | Checked | Approved | DWG. No.: | | | | | | | | | | | | | | | |
| | | | | | | | | | 21-Mar-14 | | HW | | J3518/GCL/PGM/3MRP-M10 | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | |
|--|--|---|-----------------------------|---|---------------------|------------|-------------------------------|------------|-------------------|-------------|---------------|----------|---|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 |
| TTM00380 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 10 | 0 | | 0% | 0% | 0 | 19-May-14 | | 21-May-14 | 1 | 3 | | | | | | | | | | | | | | | | | |
| TTM00390 | TMLG Meeting No. 10 | 0 | | 0% | 0% | 0 | 05-Jun-14* | | 04-Jun-14 | -2 | 0 | | | | | | | | | | | | | | | | | |
| TTM00400 | Earliest Implementation of TTM after TMLG Meeting No. 10 | 0 | 20-Jun-14 | 0% | 0% | 0 | | 18-Jun-14 | | -2 | 0 | | | | | | | | | | | | | | | | | |
| TTM00410 | Send TTMs to SO & Govt Depts for TMLG Meeting No. 11 | 0 | | 0% | 0% | 0 | 19-Jun-14 | | 10-Oct-14 | 81 | 0 | | | | | | | | | | | | | | | | | |
| Tree Felling / Transplant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approved Trees in Contract | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TR00140 | SO Approval of Base Tree Survey Report | 30 | 14-Oct-13 A | 90% | 90% | 3 | 25-Mar-14 | 13-Aug-18 | 16-Aug-18 | 1147 | 1147 | | | | | | | | | | | | | | | | | |
| TR00200 | Tree transplant for Viaduct B - affecting Piers B11 to B17 | 90 | 17-Feb-14 A | 30% | 30% | 63 | 10-Jun-14 | 20-Mar-14 | 09-Jun-14 | -1 | 1242 | | | | | | | | | | | | | | | | | |
| TR00220 | Tree transplant for Viaduct B - affecting Pier B18 & Abutment B | 90 | 17-Feb-14 A | 30% | 30% | 63 | 10-Jun-14 | 29-May-14 | 12-Aug-14 | 53 | 125 | | | | | | | | | | | | | | | | | |
| TR00240 | Tree transplant for Viaduct B - affecting realigned CTR | 90 | 17-Feb-14 A | 30% | 30% | 63 | 10-Jun-14 | 15-Mar-14 | 04-Jun-14 | -5 | 41 | | | | | | | | | | | | | | | | | |
| TR00250 | Tree felling for Viaduct B - affecting Slopes 9SE-B/F9, C8 & C9 | 48 | 03-Jun-14 | 0% | 0% | 48 | 29-Jul-14 | 02-Apr-14 | 04-Jun-14 | -46 | 0 | | | | | | | | | | | | | | | | | |
| TR00260 | Tree felling for Viaduct C - affecting Piers C9 to Abutment C | 24 | 30-Jan-14 A | 25% | 25% | 18 | 11-Apr-14 | 04-Oct-14 | 24-Oct-14 | 158 | 119 | | | | | | | | | | | | | | | | | |
| TR00270 | Tree transplant for Viaduct C - affecting Piers C9 to Abutment C | 90 | 17-Feb-14 A | 25% | 25% | 68 | 16-Jun-14 | 04-Aug-14 | 24-Oct-14 | 109 | 70 | | | | | | | | | | | | | | | | | |
| TR00280 | Tree felling for Viaduct C - affecting realigned CTR | 30 | 30-Jan-14 A | 25% | 25% | 23 | 17-Apr-14 | 18-Jun-14 | 15-Jul-14 | 69 | 45 | | | | | | | | | | | | | | | | | |
| TR00290 | Tree transplant for Viaduct C - affecting realigned CTR | 90 | 17-Feb-14 A | 25% | 25% | 68 | 16-Jun-14 | 16-Jun-14 | 03-Sep-14 | 68 | 0 | | | | | | | | | | | | | | | | | |
| Site Set Up for Works Area along CTR for Viaduct B | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PR22040-1 | Pier B10 (B2c) - Implement TTM for constructing new Emergency Access Gates G&E | 2 | 13-May-14 | 0% | 0% | 2 | 16-May-14 | 03-Mar-14 | 04-Mar-14 | -50 | 0 | | | | | | | | | | | | | | | | | |
| PR22040-2 | Pier B10 (B2c) - Construct fencing / roadside beam barriers between new Gates G&E | 20 | 16-May-14 | 0% | 0% | 20 | 21-Jun-14 | 05-Mar-14 | 27-Mar-14 | -50 | 0 | | | | | | | | | | | | | | | | | |
| ZB40260 | Abutment B - Trial trench | 24 | 02-Dec-13 A | 80% | 80% | 5 | 26-Mar-14 | 10-Aug-18 | 16-Aug-18 | 1152 | 1152 | | | | | | | | | | | | | | | | | |
| Site Set Up for Works Area 3 and Site Offices along CEDD Access Road | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PR30030 | Works Area 3-A1/3-A2 - Construct 1.5m steel access bridge | 30 | 21-Mar-14 | 0% | 0% | 30 | 07-May-14 | 07-Dec-13 | 14-Jan-14 | -83 | 0 | | | | | | | | | | | | | | | | | |
| PR30040 | Set up container site offices at crest of CEDD Seawall | 60 | 16-Oct-13 A | 80% | 80% | 12 | 04-Apr-14 | 31-Dec-13 | 14-Jan-14 | -65 | 18 | | | | | | | | | | | | | | | | | |
| PR30050-1 | Construct temp. road at CEDD track for piling at A8 | 12 | 10-Jun-14 | 0% | 0% | 12 | 23-Jun-14 | 08-Nov-14 | 22-Nov-14 | 126 | 8 | | | | | | | | | | | | | | | | | |
| PR30050-2 | Construct temp. road at CEDD track for piling at C7 | 12 | 26-May-14 | 0% | 0% | 12 | 09-Jun-14 | 08-Apr-14 | 24-Apr-14 | -36 | 0 | | | | | | | | | | | | | | | | | |
| PR30050-3 | Construct temp. road at CEDD track for piling at D8 | 12 | 08-May-14 | 0% | 0% | 12 | 24-May-14 | 15-Jan-14 | 28-Jan-14 | -83 | 0 | | | | | | | | | | | | | | | | | |
| PR30050-4 | Construct temp. road at CEDD track for piling at B8 | 12 | 10-Feb-14 A | 10% | 10% | 11 | 07-May-14 | 02-Jan-14 | 14-Jan-14 | -83 | 0 | | | | | | | | | | | | | | | | | |
| Temporary Working Platform at North Lantau | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PR08020 | Temp. Working Platform at N.Lantau - Install MTR protection fence | 22 | 21-Mar-14 | 0% | 0% | 22 | 23-Apr-14 | 20-Jul-18 | 16-Aug-18 | 1135 | 1135 | | | | | | | | | | | | | | | | | |
| PR08030 | Temp. Working Platform at N.Lantau - Modify top of existing seawall | 24 | 25-Nov-13 A | 80% | 80% | 5 | 26-Mar-14 | 14-Mar-14 | 19-Mar-14 | -6 | 16 | | | | | | | | | | | | | | | | | |
| PR08040 | Temp. Working Platform at N.Lantau - Temp.Seawall & Precast cover slab for culve | 30 | 25-Nov-13 A | 30% | 30% | 21 | 22-Apr-14 | 22-Feb-14 | 19-Mar-14 | -22 | 0 | | | | | | | | | | | | | | | | | |
| PR08050 | Temp. Working Platform at N.Lantau - Temp. rockfill & paving between existing & Tr | 30 | 17-Feb-13 A | 40% | 40% | 18 | 12-May-14 | 12-Mar-14 | 03-Apr-14 | -22 | 2 | | | | | | | | | | | | | | | | | |
| PR08060 | Temp. Working Platform at N.Lantau - Install pipe piles for steel platform | 30 | 15-Mar-14 A | 25% | 25% | 23 | 25-Apr-14 | 21-Feb-14 | 19-Mar-14 | -24 | 0 | | | | | | | | | | | | | | | | | |
| PR08070 | Temp. Working Platform at N.Lantau - Construct steel deck / bollards / fenders | 24 | 25-Apr-14 | 0% | 0% | 24 | 03-Jun-14 | 19-Mar-14 | 25-Apr-14 | -24 | 0 | | | | | | | | | | | | | | | | | |
| PR08080 | Temp. Working Platform at N.Lantau - Inst.Lifting Gantry incl. Test/Commissioning fi | 37 | 26-May-14 | 0% | 0% | 37 | 10-Jul-14 | 13-Jun-14 | 26-Jul-14 | 14 | 18 | | | | | | | | | | | | | | | | | |
| Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Marine Crossing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct E1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct E1 - Marine Foundation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX023A-1 | E1a1 - Start date for piling (On DDA & After Pre-Drill) | 0 | 30-May-14 | 0% | 0% | 0 | | 02-Aug-14 | | 54 | 89 | | | | | | | | | | | | | | | | | |
| GFXX023A-2 | E1a2 - Start date for piling (On DDA & After Pre-Drill) | 0 | 14-Jun-14 | 0% | 0% | 0 | | 02-Sep-14 | | 68 | 77 | | | | | | | | | | | | | | | | | |
| Pier E1 (E1a1-2-3-4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX021 | E01 (E1a1/2) - Inst.Temp.Working Platform | 14 | 04-Apr-14 | 0% | 0% | 14 | 24-Apr-14 | 29-Apr-14 | 17-May-14 | 18 | 0 | | | | | | | | | | | | | | | | | |
| GFXX021-2 | E01 (E1a3/4) - Inst.Temp.Working Platform | 16 | 25-Apr-14 | 0% | 0% | 16 | 15-May-14 | 17-May-14 | 06-Jun-14 | 18 | 0 | | | | | | | | | | | | | | | | | |
| GFXX022-1 | E01 (E1a1) - Predrilling (2 nos) | 12 | 16-May-14 | 0% | 0% | 12 | 29-May-14 | 06-Jun-14 | 20-Jun-14 | 18 | 0 | | | | | | | | | | | | | | | | | |
| GFXX022-2 | E01 (E1a2) - Predrilling (2 nos) | 12 | 30-May-14 | 0% | 0% | 12 | 13-Jun-14 | 20-Jun-14 | 05-Jul-14 | 18 | 0 | | | | | | | | | | | | | | | | | |
| GFXX022-3 | E01 (E1a3) - Predrilling (2 nos) | 12 | 14-Jun-14 | 0% | 0% | 12 | 27-Jun-14 | 05-Jul-14 | 19-Jul-14 | 18 | 0 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div></div> Actual Work</div> <div><div></div> Planned Bar</div> <div><div></div> Critical Bar</div> <div><div></div> Milestone</div> | | Project ID: J3518DWPrD-U05 Layout: J3518-DWP-3MRP submission Filter: TASK filters: 3-Month Lookahead, No Level of Effort, TCSS Design Excluded. | | Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 12 of 18 Pages) (Progress as of 21-Mar-14) | | | | | Date 21-Mar-14 | Revision | Checked HW | Approved | DWG. No.: J3518/GCL/PGM/3MRP-M10 | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pier E2 (E1b1-2-3-4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------|-----------------------------|---------------------|---------------------|------------|-------------------------------|------------|-------------|-------------|------------|-------|----|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|--|--|--|--|--|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | | | | |
| Pier E13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E13 (E5cE6c) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX093 | E13B (E5c/E6c, Dolphin E5c) - Inst.Temp.Working Platform | 28 | 21-Mar-14 | 0% | 0% | 28 | 26-Apr-14 | 05-Mar-14 | 07-Apr-14 | -14 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX094 | E13B (E5c/E6c Dolphin E5c) - Predrilling (11 nos) | 14 | 28-Apr-14 | 0% | 0% | 14 | 15-May-14 | 08-Apr-14 | 26-Apr-14 | -14 | 76 | | | | | | | | | | | | | | | | | | | | | | |
| Approach from Lantau | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct A Foundation Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct A - Marine Foundation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pier A1 (A2e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX142 | A01 (A2e) - Inst.Temp.Working Platform | 15 | 23-Apr-14 | 0% | 0% | 15 | 12-May-14 | 13-Mar-15 | 31-Mar-15 | 266 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX143 | A01 (A2e) - Pre-drilling (3 nos) | 15 | 13-May-14 | 0% | 0% | 15 | 29-May-14 | 31-Mar-15 | 22-Apr-15 | 266 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX144 | A01 (A2e) - Bored Piles (1.80m dia. x 3 nos) | 88 | 30-May-14 | 0% | 0% | 88 | 12-Sep-14 | 22-Apr-15 | 07-Aug-15 | 266 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct A - Land Foundation - North Lantau | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preliminary Works for Land Piling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZA10010 | MTR approval of protection measures | 0 | | 0% | 0% | 0 | 21-Mar-14 | | 11-Dec-14 | 216 | 82 | | | | | | | | | | | | | | | | | | | | | | |
| Socketted H-Pile Installation (38nos.; 1no. Rig) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pier A11 (A1a) (Workfront no. Awf1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZA20020 | A9 (A1c) to Abutment A - Approval of TTMS | 0 | | 0% | 0% | 0 | 20-Jun-14 | | 18-Jun-14 | -2 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| ZA20030 | A9 (A1c) to Abutment A - Implement TTMS along north side of NLH E/B | 2 | 20-Jun-14 | 0% | 0% | 2 | 21-Jun-14 | 18-Jun-14 | 20-Jun-14 | -2 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct B Foundation Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viaduct B - Marine Foundation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX152-1 | B07 (B2f) - Fnds start date for piling | 0 | 05-Jun-14 | 0% | 0% | 0 | | 10-Apr-14 | | -42 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX157-1 | B06 (B3a) - Fnds start date for piling | 0 | 19-May-14 | 0% | 0% | 0 | | 11-Apr-14 | | -27 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX162-1 | B05 (B3b) - Fnds start date for piling | 0 | 23-Apr-14 | 0% | 0% | 0 | | 10-Apr-14 | | -8 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX167-1 | B04 (B3c) - Fnds start date for piling | 0 | 14-Apr-14 | 0% | 0% | 0 | | 26-Apr-14 | | 9 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX170-1 | B04 (B3c) - Completion of piling works | 0 | | 0% | 0% | 0 | 20-Jun-14 | | 30-Jun-14 | 9 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX172-1 | B03 (B3d) - Fnds start date for piling | 0 | 07-Apr-14 | 0% | 0% | 0 | | 15-Feb-14 | | -42 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX177-1 | B02 (B3e) - Fnds start date for piling | 0 | 10-Mar-14 A | 100% | 100% | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX180-1 | B02 (B3e) - Completion of piling works | 0 | | 0% | 0% | 0 | 26-May-14 | | 11-Jul-14 | 38 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX182-1 | B01 (B3f) - Fnds start date for piling | 0 | 28-Feb-14 A | 100% | 100% | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX185-1 | B01 (B3f) - Completion of piling works | 0 | | 0% | 0% | 0 | 14-May-14 | | 04-Jun-14 | 17 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Pier B1 (B3f) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX182 | B01 (B3f) - Pre-drilling (3 nos) | 10 | 18-Feb-14 A | 100% | 100% | 0 | 27-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX183 | B01 (B3f) - Bored Piles (1.80m dia. x 3 nos) | 45 | 28-Feb-14 A | 80% | 46.67% | 24 | 22-Apr-14 | 11-Apr-14 | 15-May-14 | 17 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX184 | B01 (B3f) - Sonic & Interface Coring | 12 | 23-Apr-14 | 0% | 0% | 12 | 08-May-14 | 15-May-14 | 29-May-14 | 17 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX185 | B01 (B3f) - Demob from platform | 4 | 09-May-14 | 0% | 0% | 4 | 13-May-14 | 29-May-14 | 04-Jun-14 | 17 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Pier B2 (B3e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX176 | B02 (B3e) - Inst.Temp.Working Platform | 10 | 14-Feb-14 A | 100% | 100% | 0 | 26-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX177 | B02 (B3e) - Predrilling (2 nos) | 8 | 04-Mar-14 A | 100% | 100% | 0 | 07-Mar-14 A | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX178 | B02 (B3e) - Bored Piles (2.20m dia. x 2 nos) | 45 | 10-Mar-14 A | 32% | 24.44% | 34 | 05-May-14 | 01-Mar-14 | 11-Apr-14 | -17 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX179 | B02 (B3e) - Sonic & Interface Coring | 12 | 07-May-14 | 0% | 0% | 12 | 20-May-14 | 21-Jun-14 | 07-Jul-14 | 38 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| GFXX180 | B02 (B3e) - Demob from platform | 4 | 21-May-14 | 0% | 0% | 4 | 24-May-14 | 07-Jul-14 | 11-Jul-14 | 38 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Pier B3 (B3d) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GFXX171 | B03 (B3d) - Inst.Temp.Working Platform | 10 | 14-Mar-14 A | 50% | 50% | 5 | 26-Mar-14 | 28-Jan-14 | 06-Feb-14 | -42 | 0 | | | | | | | | | | | | | | | | | | | | | | |
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[illegible]

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | |
|--|---|---|-----------------------------|---|---------------------|------------|-------------------------------|------------|-------------|-------------|------------|----------|------------------------|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|--|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | |
| | GFXX322- Pier B11 (B2b) - Complete Civil Preparation Works for piling to commence | 0 | | 0% | 0% | 0 | 05-Jun-14 | | 04-Aug-14 | 49 | 23 | | | | | | | | | | | | | | | | | | |
| | GFXX333- B11 (B2b) - Predrilling (1 nos) | 8 | 09-May-14 | 0% | 0% | 8 | 17-May-14 | 08-Jul-14 | 17-Jul-14 | 49 | 0 | | | | | | | | | | | | | | | | | | |
| | ZB90150-4 B11 (B2b) - Formation for piling platform (after predrilling) | 15 | 19-May-14 | 0% | 0% | 15 | 05-Jun-14 | 17-Jul-14 | 04-Aug-14 | 49 | 0 | | | | | | | | | | | | | | | | | | |
| Pier B12 (B2a) - Workfront no. Bwf3 - Phase 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GFXX322- Pier B12 (B2a) - Complete Civil Preparation Works for piling to commence | 0 | | 0% | 0% | 0 | 05-Jun-14 | | 24-Jul-14 | 40 | 23 | | | | | | | | | | | | | | | | | | |
| | GFXX333- B12 (B2a) - Predrilling (1 nos) | 8 | 09-May-14 | 0% | 0% | 8 | 17-May-14 | 26-Jun-14 | 07-Jul-14 | 40 | 0 | | | | | | | | | | | | | | | | | | |
| | ZB90150-3 B12 (B2a) - Formation for piling platform (after predrilling) | 15 | 19-May-14 | 0% | 0% | 15 | 05-Jun-14 | 07-Jul-14 | 24-Jul-14 | 40 | 0 | | | | | | | | | | | | | | | | | | |
| Pier B13 (B1g) - Workfront no. Bwf3 - Phase 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GFXX322- Pier B13 (B1g) - Complete Civil Preparation Works for piling to commence | 0 | | 0% | 0% | 0 | 05-Jun-14 | | 19-May-14 | -14 | 23 | | | | | | | | | | | | | | | | | | |
| | GFXX333- B13 (B1g) - Predrilling (1 nos) | 8 | 09-May-14 | 0% | 0% | 8 | 17-May-14 | 17-Apr-14 | 29-Apr-14 | -14 | 0 | | | | | | | | | | | | | | | | | | |
| | ZB90150-2 B13 (B1g) - Formation for piling platform (after predrilling) | 15 | 19-May-14 | 0% | 0% | 15 | 05-Jun-14 | 30-Apr-14 | 19-May-14 | -14 | 0 | | | | | | | | | | | | | | | | | | |
| Pier B14 (B1f) - Workfront no. Bwf3 - Phase 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GFXX322- Pier B14 (B1f) - Complete Civil Preparation Works for piling to commence | 0 | | 0% | 0% | 0 | 31-May-14 | | 19-May-14 | -11 | 0 | | | | | | | | | | | | | | | | | | |
| | GFXX333- B14 (B1f) - Predrilling (1 nos) | 8 | 09-May-14 | 0% | 0% | 8 | 17-May-14 | 24-Apr-14 | 03-May-14 | -11 | 0 | | | | | | | | | | | | | | | | | | |
| | ZB00100 Pier B14 (B1f) - Fnds. Start date for piling | 0 | 03-Jun-14 | 0% | 0% | 0 | | 20-May-14 | | -11 | 26 | | | | | | | | | | | | | | | | | | |
| | ZB50050-1 B14 (B1f) - Formation for piling platform (after predrilling) | 12 | 19-May-14 | 0% | 0% | 12 | 31-May-14 | 05-May-14 | 19-May-14 | -11 | 0 | | | | | | | | | | | | | | | | | | |
| Pier B15 (B1e) - Workfront no. Bwf1 - Phase 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GFXX316- Pier B15 (B1e) - Complete Civil Preparation Works for piling to commence | 0 | | 100% | 100% | 0 | 27-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | |
| | GFXX318- B15 (B1e) - Install SH Pile (13 nr) | 34 | 27-Feb-14 A | 32% | 64.71% | 12 | 03-Apr-14 | 05-May-14 | 19-May-14 | 33 | 0 | | | | | | | | | | | | | | | | | | |
| | ZB15000 B15 (B1e) Set up piling platform | 12 | 03-Feb-14 A | 100% | 100% | 0 | 27-Feb-14 A | | | | | | | | | | | | | | | | | | | | | | |
| | ZB15010 Pier B15 (B1e) - Fnds. Start date for piling | 0 | 27-Feb-14 A | 100% | 100% | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Pier B16 (B1d) - Workfront no. Bwf1 - Phase 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GFXX316- Pier B16 (B1d) - Complete Civil Preparation Works for piling to commence | 0 | | 0% | 0% | 0 | 22-May-14 | | 02-Apr-14 | -37 | 0 | | | | | | | | | | | | | | | | | | |
| | GFXX318- B16 (B1d) - Install SH Pile (10 nr) | 34 | 23-May-14 | 0% | 0% | 34 | 03-Jul-14 | 03-Apr-14 | 19-May-14 | -37 | 0 | | | | | | | | | | | | | | | | | | |
| | ZB16000 B16 (B1d) - Set up piling platform | 12 | 09-May-14 | 0% | 0% | 12 | 22-May-14 | 20-Mar-14 | 02-Apr-14 | -37 | 0 | | | | | | | | | | | | | | | | | | |
| | ZB16010 Pier B16 (B1d) - Fnds. Start date for piling | 0 | 23-May-14 | 0% | 0% | 0 | | 03-Apr-14 | | -37 | 0 | | | | | | | | | | | | | | | | | | |
| Viaduct B Substructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Structure B1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pier B15 (B1e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pile Cap Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SB1E0094 B15 (B1e) - Pile cap Excavation / ELS (incl. sheet piling) | 16 | 04-Apr-14 | 0% | 0% | 16 | 26-Apr-14 | 30-Jan-15 | 18-Feb-15 | 245 | 0 | | | | | | | | | | | | | | | | | | |
| | SB1E0096 B15 (B1e) - Pile Breakdown to cut-off etc. | 4 | 28-Apr-14 | 0% | 0% | 4 | 02-May-14 | 23-Feb-15 | 26-Feb-15 | 245 | 18 | | | | | | | | | | | | | | | | | | |
| | SB1E0102 B15 (B1e) - Pile cap Blinding | 1 | 26-May-14 | 0% | 0% | 1 | 26-May-14 | 27-Feb-15 | 27-Feb-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| | SB1E0112 B15 (B1e) - Pile cap Formwork | 3 | 27-May-14 | 0% | 0% | 3 | 29-May-14 | 28-Feb-15 | 03-Mar-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| | SB1E0124 B15 (B1e) - Pile cap Rebarwork | 4 | 30-May-14 | 0% | 0% | 4 | 04-Jun-14 | 04-Mar-15 | 07-Mar-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| | SB1E0126 B15 (B1e) - Pile cap Kicker Formwork | 2 | 05-Jun-14 | 0% | 0% | 2 | 06-Jun-14 | 09-Mar-15 | 10-Mar-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| | SB1E0132 B15 (B1e) - Pile cap Concreting | 1 | 07-Jun-14 | 0% | 0% | 1 | 07-Jun-14 | 11-Mar-15 | 11-Mar-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| | SB1E0142 B15 (B1e) - Pile cap Curing & Striking of Forms incl. CJ prep | 6 | 09-Jun-14 | 0% | 0% | 6 | 14-Jun-14 | 12-Mar-15 | 18-Mar-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| Pier Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SB1E0150 B15 (B1e) - Type 5B Pier Scaffolding (1st Lift) | 4 | 16-Jun-14 | 0% | 0% | 4 | 19-Jun-14 | 19-Mar-15 | 23-Mar-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| | SB1E0160 B15 (B1e) - Type 5B Pier Rebarwork (1st Lift) | 4 | 20-Jun-14 | 0% | 0% | 4 | 24-Jun-14 | 24-Mar-15 | 27-Mar-15 | 227 | 0 | | | | | | | | | | | | | | | | | | |
| Structure B3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pier B4 (B3c) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pile Cap Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SB3C0070 B04 (B3c) - Marine Pile Cap - Install prefabricated collar frame to permanent casing | 4 | 20-Jun-14 | 0% | 0% | 4 | 24-Jun-14 | 24-Jul-14 | 30-Jul-14 | 29 | 4 | | | | | | | | | | | | | | | | | | |
| Pier B2 (B3e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pile Cap Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div></div> Actual Work</div> <div><div></div> Planned Bar</div> <div><div></div> Critical Bar</div> <div><div></div> Milestone</div> | | Project ID: J3518DWPrD-U05 Layout: J3518-DWP-3MRP submission Filter: TASK filters: 3-Month Lookahead, No Level of Effort, TCSS Design Excluded. | | Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 16 of 18 Pages) (Progress as of 21-Mar-14) | | | | | Date | Revision | Checked | Approved | DWG. No.: | | | | | | | | | | | | | | | | |
| | | | | | | | | | 21-Mar-14 | | HW | | J3518/GCL/PGM/3MRP-M10 | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | March | | | | | April | | | | May | | | | June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SB3E0070 | B02 (B3e) - Marine Pile Cap - Inst.prefab.collar frame to permanent casing of Bore | 4 | 26-May-14 | 0% | 0% | 4 | 29-May-14 | 11-Jul-14 | 16-Jul-14 | 38 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Physical % Complete | Duration % Complete | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Float | Free Float | 2014 | | | | | | | | | | | | | | | | | | |
|--|---------------|--|-----------------------------|---------------------|---------------------|------------|-------------------------------|------------|-------------|-------------|------------|-------|----|----|----|-------|----|----|----|-----|----|----|----|------|----|----|----|----|--|--|
| | | | | | | | | | | | | March | | | | April | | | | May | | | | June | | | | | | |
| | | | | | | | | | | | | 24 | 03 | 10 | 17 | 24 | 31 | 07 | 14 | 21 | 28 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | | |
| | RP00010 | Apply for relocation of ESS affected by CTR re-alignment adj. to Viaduct B | 12 | 16-May-14 | 0% | 0% | 12 | 30-May-14 | 15-May-14 | 28-May-14 | -2 | 0 | | | | | | | | | | | | | | | | | | |
| | RP00020 | Construct new ESSA SubStn.adjacent to Viaduct B | 60 | 30-May-14 | 0% | 0% | 60 | 11-Aug-14 | 29-May-14 | 08-Aug-14 | -2 | 0 | | | | | | | | | | | | | | | | | | |
| Viaduct B Slope Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SWVB0010 | Setup TTM for slopework for Slope 9SE-B/C8, B/C9, B/F9 | 2 | 21-Mar-14 | 0% | 0% | 2 | 22-Mar-14 | 24-Jan-14 | 25-Jan-14 | -46 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB0020 | Slope 9SE-B/C8, B/C9, B/F9 - Erect safety fence on CTR | 24 | 24-Mar-14 | 0% | 0% | 24 | 24-Apr-14 | 27-Jan-14 | 25-Feb-14 | -46 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB0030-1 | Slope 9SE-B/C8 - Form haul road | 30 | 25-Apr-14 | 0% | 0% | 30 | 31-May-14 | 26-Feb-14 | 01-Apr-14 | -46 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB0030-2 | Slope 9SE-B/C9 - Form haul road | 30 | 25-Apr-14 | 0% | 0% | 30 | 31-May-14 | 26-Feb-14 | 01-Apr-14 | -46 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB0030-3 | Slope 9SE-B/F9 - Form haul road | 30 | 25-Apr-14 | 0% | 0% | 30 | 31-May-14 | 26-Feb-14 | 01-Apr-14 | -46 | 0 | | | | | | | | | | | | | | | | | | |
| Slope 9SE-B/C9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SWVB1010 | 9SE-B/C9 Zone A - Form access track over crest of slope | 6 | 25-Apr-14 | 0% | 0% | 6 | 02-May-14 | 27-Feb-14 | 05-Mar-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1020 | 9SE-B/C9 Zone A - Excav. to +25.00 | 2 | 03-May-14 | 0% | 0% | 2 | 05-May-14 | 06-Mar-14 | 07-Mar-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1030 | 9SE-B/C9 Zone A - Soil nail pull out test | 6 | 07-May-14 | 0% | 0% | 6 | 13-May-14 | 08-Mar-14 | 14-Mar-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1040 | 9SE-B/C9 Zone A - Soil nail 18 nr.@ +26.5 | 10 | 14-May-14 | 0% | 0% | 10 | 24-May-14 | 15-Mar-14 | 26-Mar-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1050 | 9SE-B/C9 Zone A - Excav. to +23.00 | 3 | 26-May-14 | 0% | 0% | 3 | 28-May-14 | 27-Mar-14 | 29-Mar-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1060 | 9SE-B/C9 Zone A - Soil nail 24 nr.@ +24.5 | 11 | 29-May-14 | 0% | 0% | 11 | 11-Jun-14 | 31-Mar-14 | 12-Apr-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1070 | 9SE-B/C9 Zone A - Excav. to +22.00 | 3 | 12-Jun-14 | 0% | 0% | 3 | 14-Jun-14 | 14-Apr-14 | 16-Apr-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1080 | 9SE-B/C9 Zone A - Raking Drain 11 nr @ +23.5 | 4 | 16-Jun-14 | 0% | 0% | 4 | 19-Jun-14 | 17-Apr-14 | 24-Apr-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB1090 | 9SE-B/C9 Zone A - Excav. to +21.00 | 5 | 20-Jun-14 | 0% | 0% | 5 | 25-Jun-14 | 25-Apr-14 | 30-Apr-14 | -45 | 0 | | | | | | | | | | | | | | | | | | |
| Slope 9SE-B/C8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SWVB2010 | 9SE-B/C8 - Form access track over crest of slope | 2 | 25-Apr-14 | 0% | 0% | 2 | 26-Apr-14 | 22-Jul-14 | 23-Jul-14 | 71 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB2020 | 9SE-B/C8 -Soil nail pull out test | 3 | 28-Apr-14 | 0% | 0% | 3 | 30-Apr-14 | 24-Jul-14 | 26-Jul-14 | 71 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB2030 | 9SE-B/C8 -Soil nail 39 nr. @ +21.0 | 10 | 02-May-14 | 0% | 0% | 10 | 14-May-14 | 28-Jul-14 | 07-Aug-14 | 71 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB2040 | 9SE-B/C8 -Excav. to +18.50 | 4 | 15-May-14 | 0% | 0% | 4 | 19-May-14 | 08-Aug-14 | 12-Aug-14 | 71 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB2050 | 9SE-B/C8 -Soil nail 44 nr. @ +19.0 | 11 | 20-May-14 | 0% | 0% | 11 | 31-May-14 | 13-Aug-14 | 25-Aug-14 | 71 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB2060 | 9SE-B/C8 -Excav. to +16.50 | 5 | 03-Jun-14 | 0% | 0% | 5 | 07-Jun-14 | 26-Aug-14 | 30-Aug-14 | 71 | 0 | | | | | | | | | | | | | | | | | | |
| | SWVB2070 | 9SE-B/C8 -Soil nail 53 nr. @ +17.0 | 12 | 09-Jun-14 | 0% | 0% | 12 | 21-Jun-14 | 01-Sep-14 | 15-Sep-14 | 71 | 26 | | | | | | | | | | | | | | | | | | |
| Re-alignment of Cheung Tung Road adjacent to Viaduct C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RP10010 | Apply for relocation of ESS near Viaduct C | 12 | 13-May-14 | 0% | 0% | 12 | 27-May-14 | 04-Jun-14 | 17-Jun-14 | 18 | 0 | | | | | | | | | | | | | | | | | | |
| | RP10020 | Construct new ESS-C Sub.Strn. adjacent to Viaduct C | 60 | 27-May-14 | 0% | 0% | 60 | 07-Aug-14 | 18-Jun-14 | 27-Aug-14 | 18 | 0 | | | | | | | | | | | | | | | | | | |
| Viaduct C Slope Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Slope 10NW-C/C22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SWVC1000 | 10NW-C/C22 - Slope works | 18 | 16-Jun-14 | 0% | 0% | 18 | 08-Jul-14 | 04-Sep-14 | 25-Sep-14 | 68 | 0 | | | | | | | | | | | | | | | | | | |

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

(Adopted from: CINOTECH (2011) Agreement No.
CE35/2011 EP Baseline Environmental Monitoring for
Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chek Lap
Kok Link – Investigation. Updated EM&A Manual for
Tuen Mun-Chek Lap Kok Link)

*Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link
Southern Connection Viaduct Section
Environmental Mitigation and Enhancement Measure Implementation Schedule*

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|---|--|----------------------|---|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| AIR QUALITY | | | | | | | | | |
| 4.8.1 | 3.8 | An effective watering programme of eight daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum; | All areas / throughout construction period | Contractor | TMEIA Avoid smoke impacts and disturbance | | Y | | ✓ |
| 4.8.1 | 3.8 | The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ✓ |
| 4.8.1 | 3.8 | The Contractor shall not burn debris or other materials on the works areas. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ✓ |
| 4.8. 1 | 3.8 | In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet. | All unpaved haul roads / throughout construction period in hot, dry or windy weather | Contractor | TMEIA Avoid smoke impacts and disturbance | | Y | | <> |
| 4.8.1 | 3.8 | Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ✓ |
| 4.8. 1 | 3.8 | Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | <> |
| 4.8.1 | 3.8 | During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|-----------------------------|-----------------------|---|--|----------------------|---|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| 4.8.1 | 3.8 | Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ✓ |
| 4.8.1 | 3.8 | No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site. | All site exits / throughout construction period | Contractor | TMEIA Avoid dust | | Y | | <> |
| 4.8.1 | 3.8 | Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable. | All exposed surfaces / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ✓ |
| 4.8.1 | 3.8 | All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | <> |
| 4.11 | Section 3 | EM&A in the form of 1 hour and 24 hour dust monitoring and site audit | All representative existing ASRs / throughout construction period | Contractor | EM&A Manual | | Y | | ✓ |
| NOISE | | | | | | | | | |
| 5.11 | Section 4 | Noise monitoring | All existing representative sensitive receivers / during North Lantau Viaduct construction | Contractor | EM&A Manual | | Y | | ✓ |
| WATER QUALITY | | | | | | | | | |
| <i>General Marine Works</i> | | | | | | | | | |
| 6.10 | - | Bored piling to be undertaken within a metal casing. | Marine viaducts of TM-CLKL and HKLR/ bored piling | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|-------------------------------|-----------------------|--|---|----------------------|---|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| 6.10 | - | Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | <> |
| 6.10 | - | Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 6.10 | - | Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | <> |
| 6.10 | - | Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 6.10 | - | All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 6.10 | - | The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | <> |
| <i>Temporary Staging work</i> | | | | | | | | | |
| | 5.2 | Regular inspection for the accumulation of floating refuse and collection of floating refuse if required | During temporary staging works | Contractor | | | Y | | ✓ |
| | 5.2 | Provision of temporary drainage system on the temporary staging for collection of construction site runoff to allow appropriate treatment before discharge into the sea | During temporary staging works | Contractor | | | Y | | ✓ |
| | 5.2 | Wastewater generated from construction works such as bored / drilling water will be collected, treated, neutralized and de-silted through silt trap or sedimentation tank before disposal | During temporary staging works | Contractor | | | Y | | ✓ |
| | 5.2 | One additional water quality monitoring station is | During temporary | Contractor | | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|-------------------|-----------------------|--|---|----------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| | | proposed at station SR4a In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a, | staging works | | | | | | |
| <i>Land Works</i> | | | | | | | | | |
| 6.10 | - | Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Temporary access roads should be surfaced with crushed stone or gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | <> |
| 6.10 | - | Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|---|---|----------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| 6.10 | - | Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | <> |
| 6.10 | 5.8 | Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | <> |
| 6.10 | - | Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | <> |
| 6.10 | - | Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | <> |
| 6.10 | - | Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance. | All areas/ throughout construction period | Contractor | TM-EIAO Waste Disposal Ordinance | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------------------------|-----------------------|---|---|-------------------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| 6.10 | - | All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | <> |
| 6.10 | - | Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals. | Roadside/ design and operation | Design Consultant/ Contractor | TM-EIAO | Y | | Y | ✓ |
| 6.10 | Section 5 | All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice. | All areas/ throughout construction period | Contractor | EM&A Manual | | Y | | ✓ |
| Water Quality Monitoring | | | | | | | | | |
| 6.10 | Section 5 | Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations | Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year. | Contractor | EM&A Manual | | Y | Y | ✓ |
| ECOLOGY | | | | | | | | | |
| 8.14 | 6.3 | Specification for and implement pre, during and post construction dolphin abundance monitoring. | All Areas/Detailed Design/ during construction works/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | Y | ✓ |
| 8.14 | 6.3 | Specification for bored piling monitoring | Detailed Design | Design Consultant | TMEIA | Y | | | ✓ |
| 8.14 | 6.3 | Implement any recommendations of the bored piling monitoring | Southern marine viaduct/Throughout | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|---|--|---|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| | | | construction during bored piling | | | | | | |
| 8.14 | 6.3,6.5 | Avoidance of peak CWD calving season in May and June for driving of metal caissons during bored piling works | Southern marine viaduct/ May and June during bored piling | Contractor | TMEIA | | Y | | n/a |
| 8.14 | 6.3,6.5 | Specification and implementation of 250m dolphin exclusion zone. | All marine bored piling and temporary staging works areas/Detailed Design/during all marine bored piling and temporary staging works | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 8.15 | 6.3, 6.5 | Specification and deployment of an artificial reef of an area of 3,600m2 in an area where fishing activities are prohibited. | Area of prohibited fishing activities/Detailed Design/towards end of construction period | TM-CLKL/ HKBCF Design Consultant/ TM-CLKL/ HKBCF Contractor | TMEIA | Y | | Y | AFCD |
| 8.14 | 6.3, 6.5 | Specification and implementation of marine vessel control specifications | All areas/Detailed Design/during construction works | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 8.14 | 6.3, 6.5 | Design and implementation of acoustic decoupling methods for marine bored piling and the whole lifespan of temporary staging works. | All areas/ Detailed Design/during marine bored piling and temporary staging works | Design Consultant/ Contractor | TMEIA | Y | Y | | <> |
| 8.15 | 6.3, 6.4 | Pre-construction phase survey and coral translocation | Tai Ho Wan (donar site) and Yam Tsui Wan (receptor site) /Detailed Design/Prior to construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 8.15 | 6.5 | Audit coral translocation success | Yam Tsui Wan (receptor site)/Post translocation | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Undertaken gabion wall works in Stream NL1 in the dry season | North Lantau slope works/dry | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|-----------------------------|-----------------------|--|--|----------------------------------|----------------------------------|-----------------------|---|---|-----------|
| | | | | | | D | C | O | |
| | | | season/construction phase | | | | | | |
| 7.13 | 6.5 | The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule. | All areas / As soon as accessible | Contractor | TMEIA | | Y | | AFCD/LCSD |
| 7.13 | 6.5 | Spoil heaps shall be covered at all times. | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Avoid damage and disturbance to the remaining and surrounding natural habitat | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Placement of equipment in designated areas within the existing disturbed land | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Disturbed areas to be reinstated immediately after completion of the works. | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Construction activities should be restricted to the proposed works boundary | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| LANDSCAPE AND VISUAL | | | | | | | | | |
| 10.9 | 7.6 | Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission (DM3) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Details of the street furniture will be developed in the detailed design stage (DM4) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|---|---|-------------------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| | | protection measures will be detailed at Tree Removal Application stage) (CM1) | | | | | | | |
| 10.9 | 7.6 | Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2) | All areas/ detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 10.9 | 7.6 | Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3). | All areas/ detailed design/ during construction/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 10.9 | 7.6 | Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4) | All areas/ detailed design/ during construction/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 10.9 | 7.6 | Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5) | All areas/ detailed design/ during construction/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 10.9 | 7.6 | Control night-time lighting and glare by hooding all lights (CM6) | All areas/ detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | n/a |
| 10.9 | 7.6 | Ensure no run-off into water body adjacent to the Project Area (CM7) | All areas/ detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | <> |
| 10.9 | 7.6 | Avoidance of excessive height and bulk of buildings and structures (CM8) | All areas/ detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 10.9 | 7.6 | Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9) | All areas/ detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|---|---|-------------------------------|----------------------------------|-----------------------|---|---|----------------|
| | | | | | | D | C | O | |
| 10.9 | 7.6 | Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10). | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ |
| 10.9 | 7.6 | Re-vegetation of affected woodland/shrubland with native species (OM1) | All areas/detailed design/ during construction/ during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | AFCD/HyD/ LCSD |
| 10.9 | 7.6 | Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2) | All areas/detailed design/ during construction/ during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | HyD/LCSD |
| 10.9 | 7.6 | Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3) | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | HyD/LCSD |
| 10.9 | 7.6 | Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement (OM4) | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | HyD/LCSD |
| 10.9 | 7.6 | Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | HyD |
| WASTE | | | | | | | | | |
| 12.6 | | The Contractor shall identify a coordinator for the management of waste. | Contract mobilisation | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | | The Contractor shall prepare and implement a Waste | Contract mobilisation | Contractor | TMEIA, Works | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|--|--|----------------------|---|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| | | Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established. | | | Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material | | | | |
| 12.6 | | The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges. | Contract mobilisation | Contractor | TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance. | | Y | | ✓ |
| 12.6 | 8.1 | Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling. | Contract Mobilisation | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | The site and surroundings shall be kept tidy and litter free. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | No waste shall be burnt on site. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|--|--|----------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| 12.6 | 8.1 | Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate. | Detailed Design | Design Consultant | TMEIA | Y | | | ✓ |
| 12.6 | 8.1 | The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|---|--|----------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| | | scrap steel mills. Different areas of the sites should be considered for segregation and storage activities. | | | | | | | |
| 12.6 | 8.1 | All falsework will be steel instead of wood. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | <p>Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:</p> <ul style="list-style-type: none"> - suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated. | All areas / throughout construction period | Contractor | TMEIA | | Y | | <> |
| 12.6 | 8.1 | Waste oils, chemicals or solvents shall not be disposed of to drain, | All areas / throughout | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---------------|-----------------------|--|--|----------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| | | | construction period | | | | | | |
| 12.6 | 8.1 | Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Night soil should be regularly collected by licensed collectors. | All areas / throughout construction period | Contractor | TMEIA | | Y | | n/a |
| 12.6 | 8.1 | General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited. | All areas / throughout construction period | Contractor | TMEIA | | Y | | <> |
| 12.6 | 8.1 | All waste containers shall be in a secure area on hardstanding; | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site. | Site Offices/ throughout construction period | Contractor | TMEIA | | Y | | <> |
| 12.6 | Section 8 | EM&A of waste handling, storage, transportation, disposal procedures and documentation through | All areas / throughout | Contractor | EM&A Manual | | Y | | <> |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|---|-----------------------|--|--|----------------------|----------------------------------|-----------------------|---|---|--------|
| | | | | | | D | C | O | |
| | | the site audit programme shall be undertaken. | construction period | | | | | | |
| CULTURAL HERITAGE | | | | | | | | | |
| 11.8 | Section 9 | EM&A in the form of audit of the mitigation measures | All areas / throughout construction period | Highways Department | EIAO-TM | | Y | | n/a |
| Notes: Legend: D=Design, C=Construction, O=Operation Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government Status: ✓ Compliance of Mitigation Measures <> Compliance of Mitigation but need improvement x Non-compliance of Mitigation Measures ▲ Non-compliance of Mitigation Measures but rectified by Contractor Δ Deficiency of Mitigation Measures but rectified by Contractor N/A Not Applicable in Reporting Period | | | | | | | | | |

Proforma for Construction Phase EM&A Programme

Ref: _____

COMPLAINT LOG

| Log Ref. | Date / Location | Complainant/ Date of Contract | Details of Complaint | Investigation / Mitigation Action | File Closed |
|----------|-----------------|-------------------------------|----------------------|-----------------------------------|-------------|
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Filed by Environmental Team Leader: _____

Date: _____

Ref: _____

IMPLEMENTATION SCHEDULE

| EIA Ref* | EM&A Log Ref | Environmental Protection Measures* | Location/ Timing | Implementation Agent | Implementation Stages** | | | |
|-------------|-----------------|------------------------------------|---------------------|-------------------------|-------------------------|---|---|-----|
| | | | | | Des | C | O | Dec |
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* All recommendations and requirements resulted during the Course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project

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

Signed by Project Proponent: _____

Date: _____

Ref: _____

IMPLEMENTATION STATUS PROFORMA

| Ref** | Environmental Protection Measures* | Implementation Status |
|-------|------------------------------------|-----------------------|
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* All recommendations and requirements resulted during the Course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project

** EIA Ref / EM&A Log Ref / Design Document Ref

Signed by Environmental Team Leader: _____ Date: _____

Audited by Independent Environment Checker: _____ Date: _____

Ref: _____

DATA RECOVERY SCHEDULE

| Date | Air Quality Monitoring Monitoring Station* | | | | | | | | | Noise Monitoring Monitoring Station* | | | | | | |
|--------|---|-----|-----|-----|-----|-----|-----|-----|-----|---|----|----|-----|-----|-----|-----|
| | A02 | A06 | A07 | A21 | A24 | A34 | A36 | A40 | A42 | R2 | R5 | R7 | R14 | R16 | R21 | R24 |
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| 30 | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | |
| % of R | | | | | | | | | | | | | | | | |

* Research type of parameters
 % of R The percentage of Data Recovery is the natural monitoring over the scheduled monitoring

Signed by Environmental Team Leader: _____

Date: _____

Ref: _____

SITE INSPECTION PROFORMA

| Date | Location | Req t Ref.* | Observation / Deficiency | Mitigation Action** (Responsible Agency) | Date*** of Confirmation |
|------|----------|----------------|--------------------------|--|----------------------------|
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* EIA Ref / EM&A Log Ref / Design Document Ref / Environmental Protection Contract Clause

** Specific Environmental Mitigation Measures should be stated, such as, equipment, processes, systems, practices or technologies

*** The required completion date to confirm the specified Environmental Protection Action

This Proforma is an Environmental Protection Instruction for: _____ Date: _____

Signed by Environmental Team Leader: _____ Date: _____

Ref: _____

PROACTIVE ENVIRONMENTAL PROTECTION PROFORMA

| Ref* | Proposed Construction Method* | Location/ Working Period | Anticipated Impacts | Recommended Mitigation Measures |
|------|-------------------------------|--------------------------------|---------------------|---------------------------------|
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* EIA Ref / EM&A Log Ref / Design Ref

** Details of equipment, vehicles, plants, processes, technologies for the option of construction method

Signed by Environmental Team Leader: _____ Date: _____

Audited by Independent Environment Checker: _____ Date: _____

Ref: _____

REGULATORY COMPLIANCE PROFORMA

| Ref* | Environmental License / Permit* | Control Area / Facility / Location | Effective Date |
|------|---------------------------------|------------------------------------|----------------|
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* Name of Applicant, Business Corporation, relevant regulation and remark of license / permit conditions

** File reference of the licensee / permittee

Signed by Environmental Team Leader: _____ Date: _____

Audited by Independent Environment Checker: _____ Date: _____

Appendix D

Summary of Action and Limit Levels

Table D1 **Action and Limit Levels for 1-hour and 24-hour TSP**

| Parameters | Action | Limit |
|---|---------------------------------------|-------|
| 24 Hour TSP Level in $\mu\text{g}/\text{m}^3$ | ASR9A/ASR8A = 178 ASR9C/ASR8 = 178 | 260 |
| 1 Hour TSP Level in $\mu\text{g}/\text{m}^3$ | ASR9A/ASR8A = 394 ASR9C/ASR8 = 393 | 500 |

Table D2 **Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)**

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

Table D3 **Action and Limit Levels for Water Quality**

| Parameter | Action Level# | Limit Level# |
|--|---|---|
| DO in mg/L ^(a) | <u>Surface and Middle</u> 5.0 mg/L | <u>Surface and Middle</u> 4.2 mg/L |
| | <u>Bottom</u> 4.7 mg/L | <u>Bottom</u> 3.6 mg/L |
| Turbidity in NTU (Depth-averaged ^{(b), (c)}) | 120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 27.5 NTU | 130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e., 47.0 NTU |
| SS in mg/L (Depth-averaged ^{(b), (c)}) | 120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 23.5 mg/L | 130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e., 34.4 mg/L |

Notes:

Baseline data: data from HKZMB Baseline Water Quality Monitoring between 6 and 31 October 2011.

- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary

| Parameter | Action Level# | Limit Level# |
|--|---------------|--------------|
| (e) The 1%-ile of baseline data for surface and middle DO is 4.2 mg/L, whilst for bottom DO is 3.6 mg/L. | | |

Table D4 **Action and Limit Levels for Impact Dolphin Monitoring**

| | North Lantau Social Cluster | |
|---------------|--|--|
| | NEL | NWL |
| Action Level | STG < 70% of baseline & ANI < 70% of baseline | STG < 70% of baseline & ANI < 70% of baseline |
| Limit Level | [STG < 40% of baseline & ANI < 40% of baseline] and STG < 40% of baseline & ANI < 40% of baseline | |
| Notes: | | |
| 1. | STG means quarterly encounter rate of number of dolphin sightings, which is 6.00 in NEL and 9.85 in NWL during the baseline monitoring period | |
| 2. | ANI means quarterly encounter rate of total number of dolphins, which is 22.19 in NEL and 44.66 in NWL during the baseline monitoring period | |
| 3. | For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria. | |

Table D5 **Derived Value of Action Level (AL) and Limit Level (LL)**

| | North Lantau Social Cluster | |
|--------------|--|------------------------|
| | NEL | NWL |
| Action Level | STG < 4.2 & ANI < 15.5 | STG < 6.9 & ANI < 31.3 |
| Limit Level | [STG < 2.4 & ANI < 8.9] and [STG < 3.9 & ANI < 17.9] | |

Appendix E

Calibration Certificates of Monitoring Equipments

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 8(A)
Calibrated by : P.F. Yeung
Date : 05/01/2014

Sampler

Model : TE-5170
Serial Number : S/N 3956

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 12 Mar 2013
Slope (m) : 2.05818
Intercept (b) : 0.01929
Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1018
Ta(K) : 290

| Resistance Plate | | dH [green liquid] (inch water) | Z | X=Qstd (cubic meter/min) | IC (chart) | Y (corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1 | 18 holes | 12.4 | 3.578 | 1.729 | 63 | 64.02 |
| 2 | 13 holes | 10.0 | 3.214 | 1.552 | 57 | 57.92 |
| 3 | 10 holes | 7.4 | 2.764 | 1.334 | 51 | 51.83 |
| 4 | 7 holes | 5.0 | 2.272 | 1.095 | 44 | 44.71 |
| 5 | 5 holes | 3.0 | 1.760 | 0.846 | 37 | 37.60 |

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 29.648 Intercept(b): 12.345 Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan

Date: 08/01/2014

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR8
Calibrated by : P.F. Yeung
Date : 05/01/2014

Sampler

Model : TE-5170
Serial Number : S/N 3958

Calibration Office and Standard Calibration Relationship

Serial Number : 2454
Service Date : 12 Mar 2013
Slope (m) : 2.05818
Intercept (b) : 0.01929
Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1018
Ta(K) : 290

| Resistance Plate | | dH [green liquid] (inch water) | Z | X=Qstd (cubic meter/min) | IC (chart) | Y (corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1 | 18 holes | 11.6 | 3.461 | 1.672 | 53 | 53.86 |
| 2 | 13 holes | 9.2 | 3.082 | 1.488 | 48 | 48.78 |
| 3 | 10 holes | 6.8 | 2.650 | 1.278 | 42 | 42.68 |
| 4 | 7 holes | 4.4 | 2.132 | 1.026 | 35 | 35.57 |
| 5 | 5 holes | 2.8 | 1.700 | 0.817 | 28 | 28.45 |

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 29.478 Intercept(b): 4.834 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan

Date: 08/01/2014

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR 8(A)
Calibrated by : P.F.Yeung
Date : 05/03/2014

Sampler

Model : TE-5170
Serial Number : S/N 3956

Calibration Office and Standard Calibration Relationship

Serial Number : 2454
Service Date : 12 Mar 2013
Slope (m) : 2.05818
Intercept (b) : 0.01929
Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1018
Ta(K) : 290

| Resistance Plate | | dH [green liquid] (inch water) | Z | X=Qstd (cubic meter/min) | IC (chart) | Y (corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1 | 18 holes | 12.5 | 3.593 | 1.736 | 62 | 63.00 |
| 2 | 13 holes | 10.2 | 3.245 | 1.567 | 57 | 57.92 |
| 3 | 10 holes | 7.5 | 2.783 | 1.343 | 51 | 51.83 |
| 4 | 7 holes | 5.0 | 2.272 | 1.095 | 45 | 45.73 |
| 5 | 5 holes | 2.9 | 1.731 | 0.831 | 37 | 37.60 |

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{dH(Pa/Pstd)(Tstd/Ta)}\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 27.595 Intercept(b): 14.942 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan

Date: 20/03/2014

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR8
Calibrated by : P.F.Yeung
Date : 05/03/2014

Sampler

Model : TE-5170
Serial Number : S/N 3958

Calibration Office and Standard Calibration Relationship

Serial Number : 2454
Service Date : 12 Mar 2013
Slope (m) : 2.05818
Intercept (b) : 0.01929
Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1018
Ta(K) : 290

| Resistance Plate | | dH [green liquid] (inch water) | Z | X=Qstd (cubic meter/min) | IC (chart) | Y (corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1 | 18 holes | 12.0 | 3.520 | 1.701 | 53 | 53.86 |
| 2 | 13 holes | 9.5 | 3.132 | 1.512 | 48 | 48.78 |
| 3 | 10 holes | 7.0 | 2.689 | 1.297 | 42 | 42.68 |
| 4 | 7 holes | 4.5 | 2.156 | 1.038 | 36 | 36.58 |
| 5 | 5 holes | 2.8 | 1.700 | 0.817 | 30 | 30.49 |

Notes: $Z = \sqrt{\frac{dH(Pa/Pstd)(Tstd/Ta)}{}}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{\frac{Pa/Pstd}{Tstd/Ta}}\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 26.248 Intercept(b): 9.062 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 20/03/2014

Certification of Quality

This product has been tested in accordance with procedures established through Global Water Instrumentation's Quality Management System. This product meets or exceeds its manufacturing acceptance criteria.

| | |
|----------------------------|------------------------------------|
| ITEM DESCRIPTION: | Wind Speed Sensor |
| MODEL NAME/ NUMBER: | WE550 |
| PART NUMBER: | EC0000 |
| SENSOR RANGE: | 0-110 MPH |
| SENSOR OUTPUT: | 4.00-19.91 mA |
| ACCURACY: | .2 MPH over the range 11 to 55 MPH |
| POWER REQUIRED | 10-36 VDC |
| SERIAL NUMBER: | 1337005099 |
| CABLE LENGTH: | 25 ft |
| CERTIFICATES: | CE Compliant |

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Water Flow
Water Samplers
Water Quality
Weather
Remote Monitoring
Control

Technician: *Wright, Jess*

Date: 9/10/2013

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WATER

Certification of Quality

This product has been tested in accordance with procedures established through Global Water Instrumentation's Quality Management System. This product meets or exceeds its manufacturing acceptance criteria.

| | |
|----------------------------|------------------|
| ITEM DESCRIPTION: | Wind Direction |
| MODEL NAME/ NUMBER: | WE570 |
| PART NUMBER: | ED0000 |
| SENSOR RANGE: | 0-360 ° |
| SENSOR OUTPUT: | 4.01-20.03 mA |
| ACCURACY: | 1% of full scale |
| POWER REQUIRED | 10-36 VDC |
| SERIAL NUMBER: | 1337005143 |
| CABLE LENGTH: | 25 ft |
| CERTIFICATES: | CE Compliant |

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Water Quality

Weather

Remote Monitoring

Control

Technician: *Wright, Jess*

Date: 9/12/2013

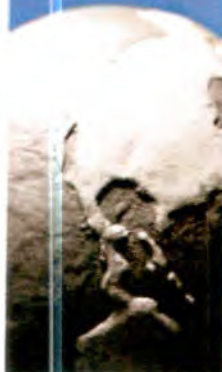
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 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 12, 2013 Rootsmeter S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 748.03

| PLATE OR Run # | VOLUME START (m3) | VOLUME STOP (m3) | DIFF VOLUME (m3) | DIFF TIME (min) | METER DIFF Hg (mm) | ORIFICE DIFF H2O (in.) |
|----------------------|-------------------------|------------------------|------------------------|-----------------------|-----------------------------|---------------------------------|
| 1 | NA | NA | 1.00 | 1.4750 | 3.2 | 2.00 |
| 2 | NA | NA | 1.00 | 1.0290 | 6.4 | 4.00 |
| 3 | NA | NA | 1.00 | 0.9170 | 8.0 | 5.00 |
| 4 | NA | NA | 1.00 | 0.8740 | 8.9 | 5.50 |
| 5 | NA | NA | 1.00 | 0.7220 | 12.8 | 8.00 |

DATA TABULATION

| Vstd | (x axis) Qstd | (y axis) | Va | (x axis) Qa | (y axis) |
|-------------------------------------|------------------|----------|---------------------------|----------------|----------|
| 0.9967 | 0.6757 | 1.4150 | 0.9957 | 0.6750 | 0.8851 |
| 0.9925 | 0.9645 | 2.0010 | 0.9915 | 0.9635 | 1.2517 |
| 0.9902 | 1.0799 | 2.2372 | 0.9892 | 1.0788 | 1.3995 |
| 0.9891 | 1.1317 | 2.3464 | 0.9881 | 1.1305 | 1.4678 |
| 0.9839 | 1.3627 | 2.8299 | 0.9828 | 1.3613 | 1.7702 |
| Qstd slope (m) = 2.05818 | | | Qa slope (m) = 1.28880 | | |
| intercept (b) = 0.01929 | | | intercept (b) = 0.01207 | | |
| coefficient (r) = 0.99991 | | | coefficient (r) = 0.99991 | | |
| y axis = SQRT[H2O(Pa/760) (298/Ta)] | | | y axis = SQRT[H2O(Ta/Pa)] | | |

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Certificate of Calibration

校正證書

Certificate No. : C133573
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC13-1422)

Description / 儀器名稱 : Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-31
Serial No. / 編號 : 00410224
Supplied By / 委託者 : Envirotech Services Co.
Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 June 2013

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).


The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By
測試

: 
K C Lee

Certified By
核證

: 
K K Wong

Date of Issue
簽發日期

17 June 2013

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C133573
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

| Equipment ID | Description | Certificate No. |
|--------------|-------------------------------------|-----------------|
| CL280 | 40 MHz Arbitrary Waveform Generator | C130019 |
| CL281 | Multifunction Acoustic Calibrator | DC110233 |

- Test procedure : MA101N.

- Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

| UUT Setting | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|------------------------------|
| Range (dB) | Mode | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | | |
| 30 - 120 | L _A | A | Fast | 94.00 | 1 | 93.6 | ± 1.1 |

6.1.2 Linearity

| UUT Setting | | | | Applied Value | | UUT Reading (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|
| Range (dB) | Mode | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | |
| 30 - 120 | L _A | A | Fast | 94.00 | 1 | 93.6 (Ref.) |
| | | | | 104.00 | | 103.6 |
| | | | | 114.00 | | 113.6 |

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

| UUT Setting | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|------------------------------|
| Range (dB) | Mode | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | | |
| 30 - 120 | L _A | A | Fast | 94.00 | 1 | 93.6 | Ref. |
| | | | Slow | | | 93.5 | ± 0.3 |

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C134307

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC13-1709)

Description / 儀器名稱 : Sound Level Calibrator
Manufacturer / 製造商 : Rion
Model No. / 型號 : NC-73
Serial No. / 編號 : 10997142
Supplied By / 委託者 : Envirotech Services Co.
Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 12 July 2013

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By

測試

: 
K C Lee

Certified By

核證

: 
K M Wu

Date of Issue

簽發日期

:

15 July 2013

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Certificate of Calibration

校正證書

Certificate No. : C134307
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. Test equipment :

| Equipment ID | Description | Certificate No. |
|--------------|-----------------------------------|-----------------|
| CL130 | Universal Counter | C133632 |
| CL281 | Multifunction Acoustic Calibrator | DC130171 |
| TST150A | Measuring Amplifier | C120886 |

4. Test procedure : MA100N.
5. Results :

5.1 Sound Level Accuracy

| UUT Nominal Value | Measured Value (dB) | Mfr's Spec. (dB) | Uncertainty of Measured Value (dB) |
|----------------------|------------------------|---------------------|---------------------------------------|
| 94 dB, 1 kHz | 93.7 | ± 0.5 | ± 0.2 |

5.2 Frequency Accuracy

| UUT Nominal Value (kHz) | Measured Value (kHz) | Mfr's Spec. | Uncertainty of Measured Value (Hz) |
|----------------------------|-------------------------|-----------------|---------------------------------------|
| 1 | 0.988 | 1 kHz $\pm 2\%$ | ± 1 |

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

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

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c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel 電話: 2927 2606

Fax 傳真: 2744 8986

E-mail 電郵: callab@suncreation.com

Website 網址: www.suncreation.com



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010 Manufacturer : HACH
Model No. : 2100Q Serial No. : 11110 C 014260
Date of Calibration : 07/01/2014 Due Date : 06/04/2014

| Theoretical Value of Turbidity Standard (NTU) | Measured Value (NTU) | Difference % * |
|---|----------------------|----------------|
| 20 | 19.2 | -4.08 |
| 100 | 104 | 3.92 |
| 800 | 793 | -0.88 |

(*) Difference = (Measured Value – Theoretical Value) / Theoretical Value

Acceptance Criteria

Difference : -5 % to 5 %

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

Prepared by : 

Checked by : 

Certificate of Calibration 校正證書

Certificate No. : C133573
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

| UUT Setting | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|---------------|----------------|------------------------|-------------------|---------------|----------|------------------------|------------------------------------|
| Range (dB) | Mode | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 30 - 120 | L _A | A | Fast | 94.00 | 63 Hz | 67.3 | -26.2 ± 1.5 |
| | | | | | 125 Hz | 77.3 | -16.1 ± 1.5 |
| | | | | | 250 Hz | 84.9 | -8.6 ± 1.4 |
| | | | | | 500 Hz | 90.3 | -3.2 ± 1.4 |
| | | | | | 1 kHz | 93.6 | Ref. |
| | | | | | 2 kHz | 94.9 | +1.2 ± 1.6 |
| | | | | | 4 kHz | 94.8 | +1.0 ± 1.6 |
| | | | | | 8 kHz | 92.6 | -1.1 (+2.1 ; -3.1) |
| | | | | | 12.5 kHz | 89.7 | -4.3 (+3.0 ; -6.0) |

6.3.2 C-Weighting

| UUT Setting | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|---------------|----------------|------------------------|-------------------|---------------|----------|------------------------|------------------------------------|
| Range (dB) | Mode | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 30 - 120 | L _C | C | Fast | 94.00 | 63 Hz | 92.7 | -0.8 ± 1.5 |
| | | | | | 125 Hz | 93.4 | -0.2 ± 1.5 |
| | | | | | 250 Hz | 93.6 | 0.0 ± 1.4 |
| | | | | | 500 Hz | 93.7 | 0.0 ± 1.4 |
| | | | | | 1 kHz | 93.7 | Ref. |
| | | | | | 2 kHz | 93.5 | -0.2 ± 1.6 |
| | | | | | 4 kHz | 93.0 | -0.8 ± 1.6 |
| | | | | | 8 kHz | 90.7 | -3.0 (+2.1 ; -3.1) |
| | | | | | 12.5 kHz | 87.9 | -6.2 (+3.0 ; -6.0) |

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 307154

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB
250 Hz - 500 Hz : ± 0.30 dB
1 kHz : ± 0.20 dB
2 kHz - 4 kHz : ± 0.35 dB
8 kHz : ± 0.45 dB
12.5 kHz : ± 0.70 dB
104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

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

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Internal Calibration Report of Dissolved Oxygen Meter

| | |
|---|--|
| Equipment Ref. No. : <u>ET/EW/008/005</u> | Manufacturer : <u>YSI</u> |
| Model No. : <u>Pro 2030</u> | Serial No. : <u>12A 100353</u> |
| Date of Calibration : <u>29/01/2014</u> | Calibration Due Date : <u>28/04/2014</u> |

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/008

Ref. No. of Water Bath : ---

| Temperature (°C) | | | | |
|-------------------------------|----------|------|------------|------|
| Reference Thermometer reading | Measured | 20.2 | Corrected | 19.8 |
| DO Meter reading | Measured | 19.7 | Difference | 0.1 |

Standardization of sodium thiosulphate ($\text{Na}_2\text{S}_2\text{O}_3$) solution

| | | | |
|---|-------------------|---|--------------------|
| Reagent No. of $\text{Na}_2\text{S}_2\text{O}_3$ titrant | CPE/012/4.5/001/8 | Reagent No. of 0.025N $\text{K}_2\text{Cr}_2\text{O}_7$ | CPE/012/4.4/001/24 |
| | | Trial 1 | Trial 2 |
| Initial Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml) | | 0.00 | 10.50 |
| Final Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml) | | 10.50 | 20.95 |
| Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ used (ml) | | 10.50 | 10.45 |
| Normality of $\text{Na}_2\text{S}_2\text{O}_3$ solution (N) | | 0.02381 | 0.02392 |
| Average Normality (N) of $\text{Na}_2\text{S}_2\text{O}_3$ solution (N) | | 0.02387 | |
| Acceptance criteria, Deviation | | Less than $\pm 0.001\text{N}$ | |

Calculation: Normality of $\text{Na}_2\text{S}_2\text{O}_3$, $N = 0.25 / \text{ml } \text{Na}_2\text{S}_2\text{O}_3 \text{ used}$

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

| Purging Time (min) | 2 | | 5 | | 10 | |
|---|---------------------|-------|---------------------|------|---------------------|-------|
| Trial | 1 | 2 | 1 | 2 | 1 | 2 |
| Initial Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml) | 0.00 | 11.90 | 23.50 | 0.00 | 8.20 | 13.20 |
| Final Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml) | 11.90 | 23.50 | 31.90 | 8.20 | 13.20 | 17.90 |
| Vol. (V) of $\text{Na}_2\text{S}_2\text{O}_3$ used (ml) | 11.90 | 11.60 | 8.40 | 8.20 | 5.00 | 4.70 |
| Dissolved Oxygen (DO), mg/L | 7.63 | 7.43 | 5.38 | 5.25 | 3.20 | 3.01 |
| Acceptance criteria, Deviation | Less than + 0.3mg/L | | Less than + 0.3mg/L | | Less than + 0.3mg/L | |

Calculation: $\text{DO (mg/L)} = V \times N \times 8000/298$

| Purging time, min | DO meter reading, mg/L | | | Winkler Titration result *, mg/L | | | Difference (%) of DO Content |
|-------------------------------|------------------------|------|---------|----------------------------------|------|---------|------------------------------|
| | 1 | 2 | Average | 1 | 2 | Average | |
| 2 | 7.65 | 7.41 | 7.53 | 7.63 | 7.43 | 7.53 | 0.00 |
| 5 | 5.38 | 5.21 | 5.30 | 5.38 | 5.25 | 5.32 | 0.38 |
| 10 | 3.22 | 3.09 | 3.16 | 3.20 | 3.01 | 3.11 | 1.59 |
| Linear regression coefficient | | | | 0.9998 | | | |



Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

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

Salinity Checking

| | | | |
|-----------------------------|--------------------|-----------------------------|--------------------|
| Reagent No. of NaCl (10ppt) | CPE/012/4.7/002/15 | Reagent No. of NaCl (30ppt) | CPE/012/4.8/002/15 |
|-----------------------------|--------------------|-----------------------------|--------------------|

Determination of dissolved oxygen content by Winkler Titration **

| Salinity (ppt) | 10 | | 30 | |
|---|---------------------|-------|---------------------|-------|
| Trial | 1 | 2 | 1 | 2 |
| Initial Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml) | 0.00 | 12.30 | 24.40 | 35.80 |
| Final Vol. of $\text{Na}_2\text{S}_2\text{O}_3$ (ml) | 12.30 | 24.40 | 35.80 | 47.00 |
| Vol. (V) of $\text{Na}_2\text{S}_2\text{O}_3$ used (ml) | 12.30 | 12.10 | 11.40 | 11.20 |
| Dissolved Oxygen (DO), mg/L | 7.88 | 7.75 | 7.31 | 7.18 |
| Acceptance criteria, Deviation | Less than + 0.3mg/L | | Less than + 0.3mg/L | |

Calculation: $\text{DO (mg/L)} = V \times N \times 8000/298$

| Salinity (ppt) | DO meter reading, mg/L | | | Winkler Titration result**, mg/L | | | Difference (%) of DO Content |
|----------------|------------------------|------|---------|----------------------------------|------|---------|------------------------------|
| | 1 | 2 | Average | 1 | 2 | Average | |
| 10 | 7.88 | 7.65 | 7.77 | 7.88 | 7.75 | 7.82 | 0.64 |
| 30 | 7.23 | 7.14 | 7.19 | 7.31 | 7.18 | 7.25 | 0.83 |

Acceptance Criteria

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

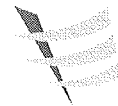
The equipment complies # / does not comply # with the specified requirements and is deemed acceptable # / unacceptable # for use.

Delete as appropriate

Calibrated by

:

Approved by :



Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/005 Manufacturer : YSI
Model No. : Pro 2030 Serial No. : 12A 100353
Date of Calibration : 29/01/2014 Due Date : 28/04/2014

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

S/001/5


| Salinity Standard (ppt) | Measured Salinity (ppt) | Difference % |
|----------------------------|----------------------------|--------------|
| 30.0 | 30.9 | 3.00 |

Acceptance Criteria

Difference : <10 %

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

Checked by : 

Approved by : 



Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/003

Manufacturer : HANNA

Model No. : HI 8314

Serial No. : 674469

Date of Calibration : 10/02/2014

Calibration Due Date : 09/03/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate

Ref No. of Primary Solution: 003/5.2/001/17

Temperature of Solution : 20.0

$\Delta\text{pH}_{1/2} = +0.08$

pH value of diluted buffer : 6.80

pH (S) = 6.881

$\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.081}$ (Observed Deviation)

Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{1/2} = \underline{0.001}$

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s = \underline{6.87}$

Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{-0.012}$

Noise

Noise, ΔpH_n = difference between max and min reading : 0.00

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008 °C

Temperature record from the reference thermometer (T_R): 20.0 °C

Temperature record from the ATC (T_{ATC}): 19.9 °C

Temperature Difference, $|T_R - T_{ATC}|$: 0.1 °C

Acceptance Criteria

| Performance Characteristic | | Acceptable Range |
|----------------------------|------------------------|--------------------------|
| Liquid Junction Error | ΔpH_j | ≤ 0.05 |
| Shift on Stirring | ΔpH_s | ≤ 0.02 |
| Noise | ΔpH_n | ≤ 0.02 |
| Verification of ATC | Temperature Difference | $\leq 0.5^\circ\text{C}$ |

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

* Delete as appropriate

Calibrated by : 

Checked by : 



Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/003 Manufacturer : HANNA
Model No. : HI 8314 Serial No. : 674469
Date of Calibration : 10/03/2014 Calibration Due Date : 09/04/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/17
Temperature of Solution : 20.0 $\Delta\text{pH}_{1/2} = +0.08$
pH value of diluted buffer : 6.79 pH (S) = 6.881
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.091}$ (Observed Deviation)
Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{1/2} = \underline{0.011}$

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s = \underline{6.90}$
Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.008}$

Noise

Noise, ΔpH_n = difference between max and min reading : 0.00

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008
Temperature record from the reference thermometer (T_R): 20.0 °C
Temperature record from the ATC (T_{ATC}): 19.9 °C
Temperature Difference, $|T_R - T_{ATC}|$: 0.1 °C

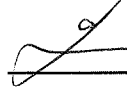
Acceptance Criteria

| Performance Characteristic | | Acceptable Range |
|----------------------------|------------------------|--------------------------|
| Liquid Junction Error | ΔpH_j | ≤ 0.05 |
| Shift on Stirring | ΔpH_s | ≤ 0.02 |
| Noise | ΔpH_n | ≤ 0.02 |
| Verification of ATC | Temperature Difference | $\leq 0.5^\circ\text{C}$ |

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

* Delete as appropriate

Calibrated by : 

Checked by : 

Appendix F

EM&A Monitoring Schedules

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Marine Water Quality Monitoring (WQM) Schedule (Mar 14)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|---|-----------|---|--------|---|
| | | | | | | 01-Mar |
| | | | | | | WQM Mid-Ebb 13:17 (11:29 - 14:59) Mid-Flood 18:54 (17:09 - 20:39) |
| 02-Mar | 03-Mar | 04-Mar | 05-Mar | 06-Mar | 07-Mar | 08-Mar |
| | | WQM Mid-Flood 9:00 (07:15 - 10:45) Mid-Ebb 15:09 (13:24 - 16:54) | | WQM Mid-Flood 9:56 (08:11 - 11:41) Mid-Ebb 16:35 (14:50 - 18:20) | | WQM Mid-Flood 11:00 (09:15 - 12:45) Mid-Ebb 18:27 (16:42 - 20:12) |
| 09-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar | 15-Mar |
| | | WQM Mid-Ebb 10:13 (09:25 - 11:05) Mid-Flood 14:53 (13:08 - 16:38) | | WQM Mid-Ebb 11:36 (09:51 - 13:21) Mid-Flood 17:03 (15:18 - 18:48) | | WQM Mid-Ebb 12:27 (10:42 - 14:12) Mid-Flood 18:21 (16:36 - 20:06) |
| 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar | 22-Mar |
| | | WQM Mid-Flood 7:55 (06:10 - 09:40) Mid-Ebb 13:57 (12:12 - 15:42) | | WQM Mid-Flood 8:50 (07:05 - 10:35) Mid-Ebb 15:08 (13:23 - 16:53) | | WQM Mid-Flood 9:55 (08:10 - 11:40) Mid-Ebb 16:40 (14:55 - 18:25) |
| 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-Mar | 29-Mar |
| | | WQM Mid-Ebb 8:39 (07:20 - 10:00) Mid-Flood 13:16 (11:31 - 15:01) | | WQM Mid-Ebb 10:52 (09:07 - 12:37) Mid-Flood 16:05 (14:20 - 17:50) | | WQM Mid-Ebb 12:16 (10:31 - 14:01) Mid-Flood 18:00 (16:15 - 19:45) |
| 30-Mar | 31-Mar | | | | | |
| | | | | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Noise Monitoring Schedule (1 Mar to 31 Mar 2014)

Noise Monitoring at the rooftop of Pak Mong Village Watch Tower

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|------------------|------------------|------------------|------------------|------------------|----------|
| | | | | | | 01-Mar |
| | | | | | | |
| 02-Mar | 03-Mar | 04-Mar | 05-Mar | 06-Mar | 07-Mar | 08-Mar |
| | | | | Noise Monitoring | | |
| 09-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar | 15-Mar |
| | | | Noise Monitoring | | | |
| 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar | 22-Mar |
| | | Noise Monitoring | | | | |
| 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-Mar | 29-Mar |
| | Noise Monitoring | | | | Noise Monitoring | |
| 30-Mar | 31-Mar | | | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Air Quality Monitoring Schedule (1 Mar to 31 Mar 2014)

Air Quality Monitoring at WA4 and rooftop of Pak Mong Village Watch Tower

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--|--|--|--|--|----------|
| | | | | | | 01-Mar |
| | | | | | | |
| 02-Mar | 03-Mar | 04-Mar | 05-Mar | 06-Mar | 07-Mar | 08-Mar |
| | | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | |
| 09-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar | 15-Mar |
| | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | | |
| 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar | 22-Mar |
| | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | | | |
| 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-Mar | 29-Mar |
| | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | |
| 30-Mar | 31-Mar | | | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Dolphin Monitoring Survey Schedule (1 March to 31 March 2014)**

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---------------------------|------------------------------|------------------------------|----------|--------|----------|
| | | | | | | 1-Mar |
| | | | | | | |
| 2-Mar | 3-Mar | 4-Mar | 5-Mar | 6-Mar | 7-Mar | 8-Mar |
| | | | Impact Dolphin Monitoring | | | |
| 9-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar | 15-Mar |
| | | Impact Dolphin Monitoring | | | | |
| 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar | 22-Mar |
| | Impact Dolphin Monitoring | | | | | |
| 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-Mar | 29-Mar |
| | | Impact Dolphin Monitoring | | | | |
| 30-Mar | 31-Mar | | | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Monitoring on Underwater Noise and Dolphin Acoustic Behaviour in Relation to Marine Bored Piling Activities (1 Mar to 31 Mar 2014)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|
| | | | | | | 1-Mar |
| | | | | | | |
| 2-Mar | 3-Mar | 4-Mar | 5-Mar | 6-Mar | 7-Mar | 8-Mar |
| | Acoustic Monitoring Survey (Day 1) | Acoustic Monitoring Survey (Day 2) | Acoustic Monitoring Survey (Day 3) | | Acoustic Monitoring Survey (Day 4) | |
| 9-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar | 15-Mar |
| | Acoustic Monitoring Survey (Day 5) | Acoustic Monitoring Survey (Day 6) | Acoustic Monitoring Survey (Day 7) | Acoustic Monitoring Survey (Day 8) | Acoustic Monitoring Survey (Day 9) | |
| 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar | 22-Mar |
| | Acoustic Monitoring Survey (Day 9) | Acoustic Monitoring Survey (Day 10) | Acoustic Monitoring Survey (Day 11) | Acoustic Monitoring Survey (Day 12) | Acoustic Monitoring Survey (Day 13) | |
| 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-Mar | 29-Mar |
| | Acoustic Monitoring Survey (Day 14) | Acoustic Monitoring Survey (Day 15) | Acoustic Monitoring Survey (Day 16) | Acoustic Monitoring Survey (Day 17) | Acoustic Monitoring Survey (Day 18) | |
| 30-Mar | 31-Mar | | | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Monitoring on Shored-based Theodolite Tracking to Investigate Dolphin Behaviour and Movement in Relation to Marine Bored Piling Activities (1 Mar to 31 Mar 2014)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|
| | | | | | | 1-Mar |
| | | | | | | |
| 2-Mar | 3-Mar | 4-Mar | 5-Mar | 6-Mar | 7-Mar | 8-Mar |
| | Theodolite Tracking Survey (Day 1) | Theodolite Tracking Survey (Day 2) | Theodolite Tracking Survey (Day 3) | | Theodolite Tracking Survey (Day 4) | |
| 9-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar | 15-Mar |
| | Theodolite Tracking Survey (Day 5) | Theodolite Tracking Survey (Day 6) | Theodolite Tracking Survey (Day 7) | Theodolite Tracking Survey (Day 8) | Theodolite Tracking Survey (Day 9) | |
| 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar | 22-Mar |
| | Theodolite Tracking Survey (Day 10) | Theodolite Tracking Survey (Day 11) | Theodolite Tracking Survey (Day 12) | Theodolite Tracking Survey (Day 13) | Theodolite Tracking Survey (Day 14) | |
| 23-Mar | 24-Mar | 25-Mar | 26-Mar | 27-Mar | 28-Mar | 29-Mar |
| | Theodolite Tracking Survey (Day 15) | Theodolite Tracking Survey (Day 16) | Theodolite Tracking Survey (Day 17) | Theodolite Tracking Survey (Day 18) | Theodolite Tracking Survey (Day 19) | |
| 30-Mar | 31-Mar | | | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Marine Water Quality Monitoring (WQM) Schedule (Mar 14)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|--|-----------|--|--------|--|
| | | 01-Apr | 02-Apr | 03-Apr | 04-Apr | 05-Apr |
| | | WQM Mid-Flood 7:46 (06:01 - 09:31) Mid-Ebb 14:04 (12:19 - 15:49) | | WQM Mid-Flood 8:43 (06:57 - 10:27) Mid-Ebb 15:22 (13:37 - 17:07) | | WQM Mid-Flood 9:41 (07:56 - 11:26) Mid-Ebb 16:48 (15:03 - 18:33) |
| 06-Apr | 07-Apr | 08-Apr | 09-Apr | 10-Apr | 11-Apr | 12-Apr |
| | | WQM Mid-Flood 7:26 (05:41 - 09:11) Mid-Ebb 20:03 (18:18 - 21:48) | | WQM Mid-Ebb 10:34 (08:49 - 12:19) Mid-Flood 15:54 (14:09 - 17:39) | | WQM Mid-Ebb 11:33 (09:48 - 13:18) Mid-Flood 17:28 (15:43 - 19:13) |
| 13-Apr | 14-Apr | 15-Apr | 16-Apr | 17-Apr | 18-Apr | 19-Apr |
| | | WQM Mid-Ebb 13:02 (11:17 - 14:47) Mid-Flood 19:31 (17:46 - 21:16) | | WQM Mid-Flood 7:46 (06:01 - 09:31) Mid-Ebb 14:12 (12:27 - 15:57) | | WQM Mid-Flood 8:53 (07:08 - 10:38) Mid-Ebb 15:36 (13:51 - 17:21) |
| 20-Apr | 21-Apr | 22-Apr | 23-Apr | 24-Apr | 25-Apr | 26-Apr |
| | | WQM Mid-Flood 11:29 (09:44 - 13:14) Mid-Ebb 18:35 (16:50 - 20:20) | | WQM Mid-Ebb 9:39 (07:54 - 11:24) Mid-Flood 14:48 (13:03 - 16:33) | | WQM Mid-Ebb 11:15 (09:30 - 13:00) Mid-Flood 17:01 (15:16 - 18:46) |
| 27-Apr | 28-Apr | 29-Apr | 30-Apr | | | |
| | | WQM Mid-Ebb 13:06 (11:21 - 14:51) Mid-Flood 19:40 (17:55 - 21:25) | | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section

Impact Noise Monitoring Schedule (1 Apr to 30 Apr 2014)

Noise Monitoring at the rooftop of Pak Mong Village Watch Tower

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|------------------|------------------|------------------|------------------|----------|
| | | 01-Apr | 02-Apr | 03-Apr | 04-Apr | 05-Apr |
| | | | | Noise Monitoring | | |
| 06-Apr | 07-Apr | 08-Apr | 09-Apr | 10-Apr | 11-Apr | 12-Apr |
| | | | Noise Monitoring | | | |
| 13-Apr | 14-Apr | 15-Apr | 16-Apr | 17-Apr | 18-Apr | 19-Apr |
| | | Noise Monitoring | | | Noise Monitoring | |
| 20-Apr | 21-Apr | 22-Apr | 23-Apr | 24-Apr | 25-Apr | 26-Apr |
| | | | | Noise Monitoring | | |
| 27-Apr | 28-Apr | 29-Apr | 30-Apr | | | |
| | | | Noise Monitoring | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section

Impact Air Quality Monitoring Schedule (1 Apr to 30 Apr 2014)

Air Quality Monitoring at WA4 and rooftop of Pak Mong Village Watch Tower

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|--|--|--|--|----------|
| | | 01-Apr | 02-Apr | 03-Apr | 04-Apr | 05-Apr |
| | | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | |
| 06-Apr | 07-Apr | 08-Apr | 09-Apr | 10-Apr | 11-Apr | 12-Apr |
| | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | | |
| 13-Apr | 14-Apr | 15-Apr | 16-Apr | 17-Apr | 18-Apr | 19-Apr |
| | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | |
| 20-Apr | 21-Apr | 22-Apr | 23-Apr | 24-Apr | 25-Apr | 26-Apr |
| | | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | |
| 27-Apr | 28-Apr | 29-Apr | 30-Apr | | | |
| | | | 1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Dolphin Monitoring Survey Schedule (1 April to 30 April 2014)

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

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Monitoring on Underwater Noise and Dolphin Acoustic Behaviour in Relation to Marine Bored Piling Activities (1 Apr to 30 Apr 2014)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|
| | | 1-Apr | 2-Apr | 3-Apr | 4-Apr | 5-Apr |
| | | Acoustic Monitoring Survey (Day 19) | Acoustic Monitoring Survey (Day 20) | | Acoustic Monitoring Survey (Day 21) | |
| 6-Apr | 7-Apr | 8-Apr | 9-Apr | 10-Apr | 11-Apr | 12-Apr |
| | | Acoustic Monitoring Survey (Day 22) | Acoustic Monitoring Survey (Day 23) | Acoustic Monitoring Survey (Day 24) | Acoustic Monitoring Survey (Day 25) | |
| 13-Apr | 14-Apr | 15-Apr | 16-Apr | 17-Apr | 18-Apr | 19-Apr |
| | Acoustic Monitoring Survey (Day 26) | Acoustic Monitoring Survey (Day 27) | Acoustic Monitoring Survey (Day 28) | Acoustic Monitoring Survey (Day 29) | | |
| 20-Apr | 21-Apr | 22-Apr | 23-Apr | 24-Apr | 25-Apr | 26-Apr |
| | | Acoustic Monitoring Survey (Day 30) | | | | |
| 27-Apr | 28-Apr | 29-Apr | 30-Apr | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Monitoring on Shored-based Theodolite Tracking to Investigate Dolphin Behaviour and Movement in Relation to
Marine Bored Piling Activities (1 Apr to 30 Apr 2014)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|
| | | 1-Apr | 2-Apr | 3-Apr | 4-Apr | 5-Apr |
| | | | Theodolite Tracking Survey (Day 20) | | Theodolite Tracking Survey (Day 21) | |
| 6-Apr | 7-Apr | 8-Apr | 9-Apr | 10-Apr | 11-Apr | 12-Apr |
| | | Theodolite Tracking Survey (Day 22) | Theodolite Tracking Survey (Day 23) | Theodolite Tracking Survey (Day 24) | Theodolite Tracking Survey (Day 25) | |
| 13-Apr | 14-Apr | 15-Apr | 16-Apr | 17-Apr | 18-Apr | 19-Apr |
| | Theodolite Tracking Survey (Day 26) | Theodolite Tracking Survey (Day 27) | Theodolite Tracking Survey (Day 28) | Theodolite Tracking Survey (Day 29) | | |
| 20-Apr | 21-Apr | 22-Apr | 23-Apr | 24-Apr | 25-Apr | 26-Apr |
| | | Theodolite Tracking Survey (Day 30) | | | | |
| 27-Apr | 28-Apr | 29-Apr | 30-Apr | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Appendix G

Impact Air Quality Monitoring Results and Graphical Presentation

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A

| Project | Works | Date (yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|-------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8A | 8:25 | 1-hr TSP | 115 | 394 | 500 |
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8A | 9:27 | 1-hr TSP | 69 | | |
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8A | 10:29 | 1-hr TSP | 240 | | |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8A | 8:15 | 1-hr TSP | 168 | | |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8A | 9:17 | 1-hr TSP | 124 | | |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8A | 10:19 | 1-hr TSP | 149 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8A | 8:20 | 1-hr TSP | 139 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8A | 9:22 | 1-hr TSP | 90 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8A | 10:24 | 1-hr TSP | 58 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8A | 8:30 | 1-hr TSP | 147 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8A | 9:32 | 1-hr TSP | 100 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8A | 10:34 | 1-hr TSP | 99 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8A | 8:20 | 1-hr TSP | 121 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8A | 9:22 | 1-hr TSP | 100 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8A | 10:24 | 1-hr TSP | 83 | | |
| Average | | | | | | 120 | | |
| Min. | | | | | | 58 | | |
| Max. | | | | | | 240 | | |

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8

| Project | Works | Date (yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|-------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8 | 8:36 | 1-hr TSP | 136 | 393 | 500 |
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8 | 9:38 | 1-hr TSP | 86 | | |
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8 | 10:40 | 1-hr TSP | 70 | | |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8 | 8:27 | 1-hr TSP | 148 | | |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8 | 9:29 | 1-hr TSP | 132 | | |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8 | 10:31 | 1-hr TSP | 175 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8 | 8:31 | 1-hr TSP | 138 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8 | 9:33 | 1-hr TSP | 85 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8 | 10:35 | 1-hr TSP | 74 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8 | 8:40 | 1-hr TSP | 160 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8 | 9:42 | 1-hr TSP | 94 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8 | 10:44 | 1-hr TSP | 168 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8 | 8:32 | 1-hr TSP | 123 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8 | 9:34 | 1-hr TSP | 97 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8 | 10:36 | 1-hr TSP | 79 | | |
| Average | | | | | | 118 | | |
| Min. | | | | | | 70 | | |
| Max. | | | | | | 175 | | |

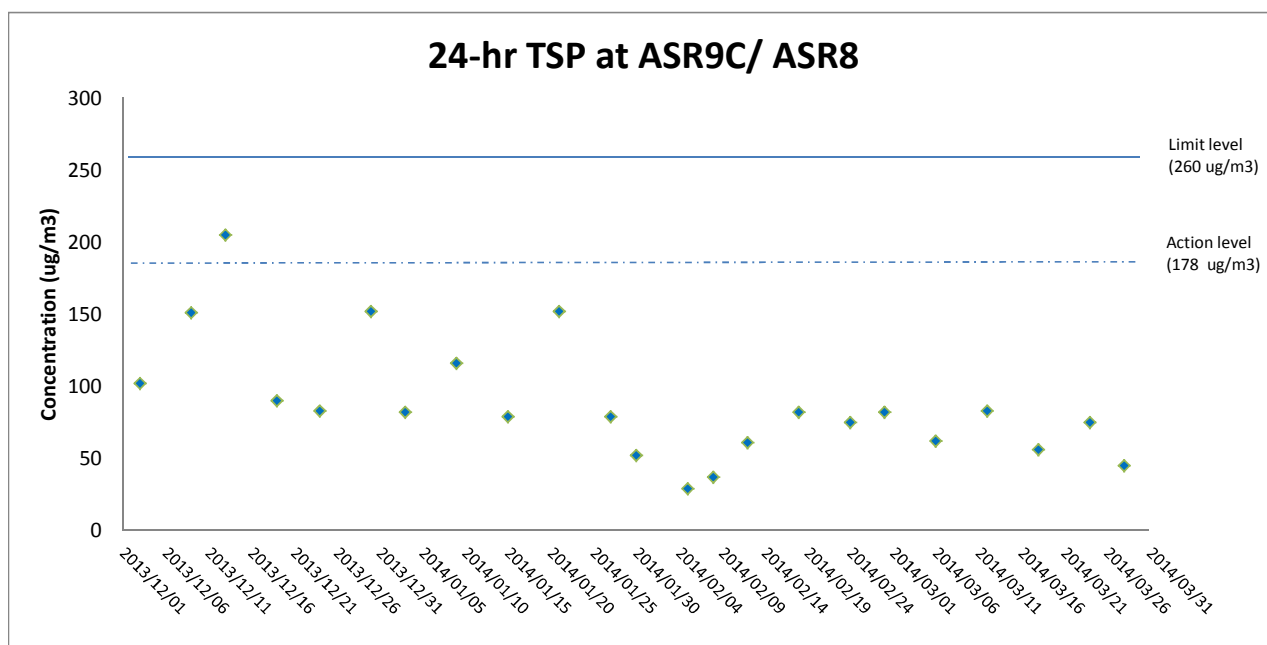
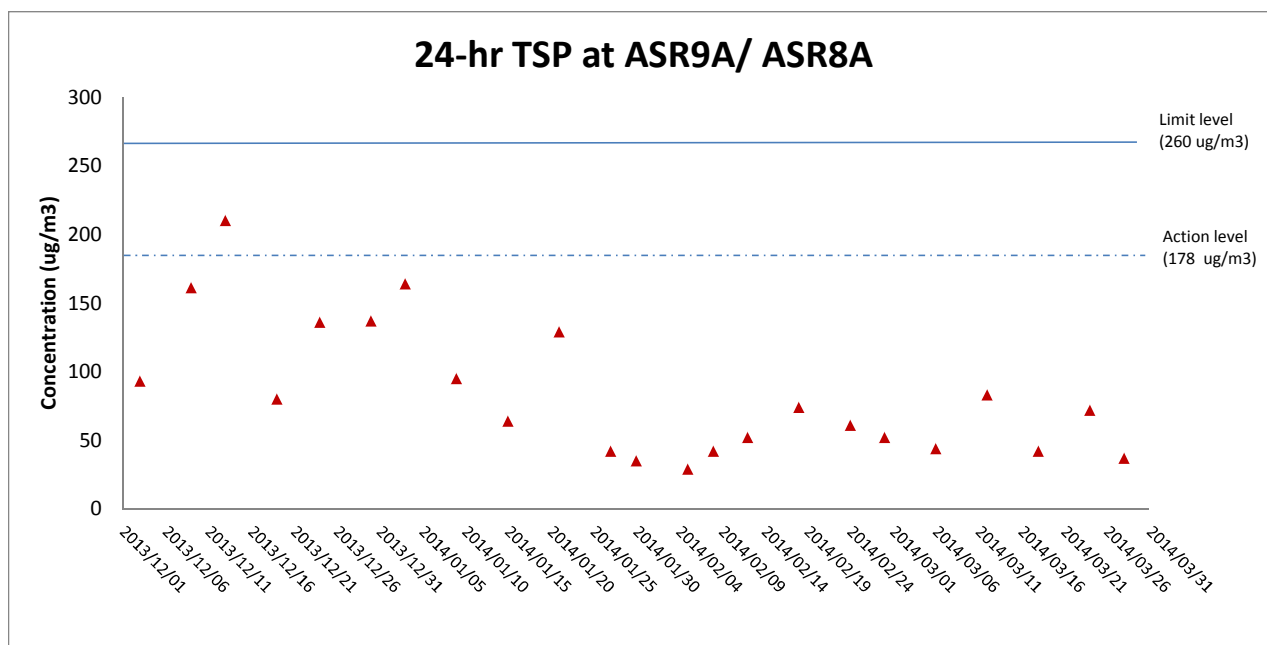
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A

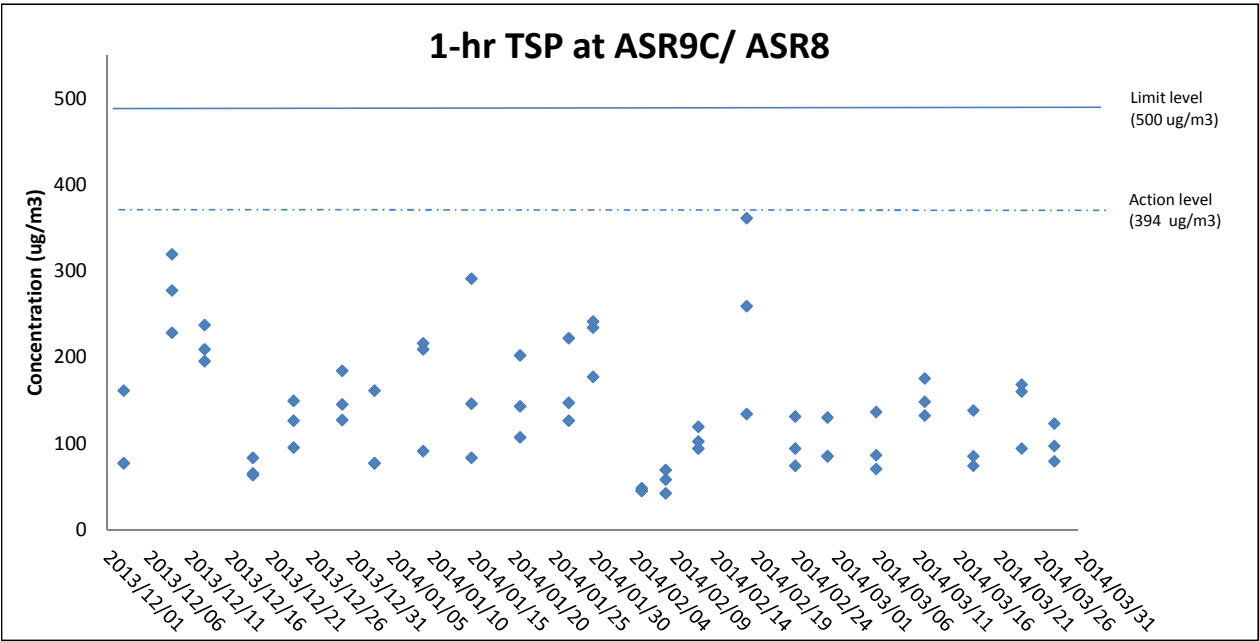
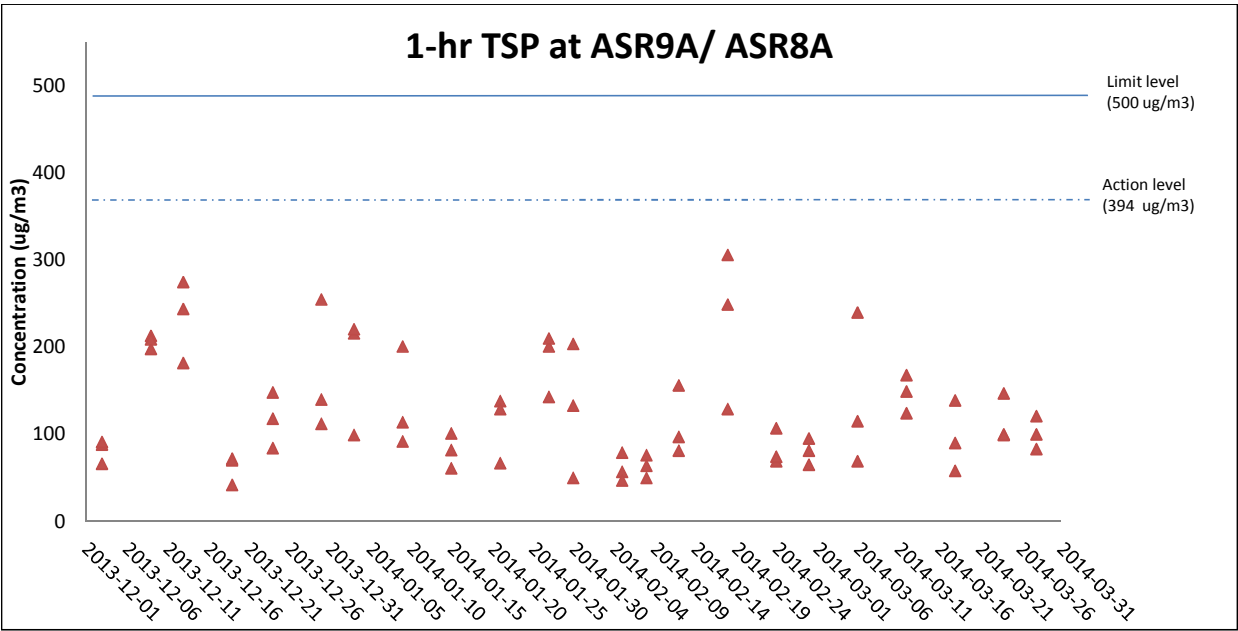
| Project | Works | Date (yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|-------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8A | 11:31 | 24-hr TSP | 44 | 178 | 260 |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8A | 11:21 | 24-hr TSP | 83 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8A | 11:26 | 24-hr TSP | 42 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8A | 11:36 | 24-hr TSP | 72 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8A | 11:26 | 24-hr TSP | 37 | | |
| Average | | | | | | 56 | | |
| Min. | | | | | | 37 | | |
| Max. | | | | | | 83 | | |

24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8

| Project | Works | Date (yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|-------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2014-03-06 | ASR8 | 11:42 | 24-hr TSP | 62 | 178 | 260 |
| TMCLKL | HY/2012/07 | 2014-03-12 | ASR8 | 11:33 | 24-hr TSP | 83 | | |
| TMCLKL | HY/2012/07 | 2014-03-18 | ASR8 | 11:37 | 24-hr TSP | 56 | | |
| TMCLKL | HY/2012/07 | 2014-03-24 | ASR8 | 11:46 | 24-hr TSP | 75 | | |
| TMCLKL | HY/2012/07 | 2014-03-28 | ASR8 | 11:38 | 24-hr TSP | 45 | | |
| Average | | | | | | 64 | | |
| Min. | | | | | | 45 | | |
| Max. | | | | | | 83 | | |

Action Level Exceedance**Limit Level Exceedance**





Appendix H

Meteorological Data for the Reporting Month

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|----------|--------------|------------------|-------------------------|
| 2014/3/6 | 00:01:42 | 0.86 | 50.92 |
| 2014/3/6 | 00:06:42 | 0.02 | 107.52 |
| 2014/3/6 | 00:11:42 | 0.05 | 0.22 |
| 2014/3/6 | 00:16:42 | 2.95 | 76.10 |
| 2014/3/6 | 00:21:42 | 0.02 | 256.71 |
| 2014/3/6 | 00:26:42 | 1.15 | 55.71 |
| 2014/3/6 | 00:31:42 | 1.67 | 161.56 |
| 2014/3/6 | 00:36:42 | 2.74 | 155.65 |
| 2014/3/6 | 00:41:42 | 0.05 | 146.18 |
| 2014/3/6 | 00:46:42 | 0.44 | 192.87 |
| 2014/3/6 | 00:51:42 | 0.43 | 165.46 |
| 2014/3/6 | 00:56:42 | 2.19 | 137.38 |
| 2014/3/6 | 01:01:42 | 1.58 | 103.51 |
| 2014/3/6 | 01:06:42 | 0.08 | 113.31 |
| 2014/3/6 | 01:11:42 | 0.40 | 80.33 |
| 2014/3/6 | 01:16:42 | 0.38 | 57.49 |
| 2014/3/6 | 01:21:42 | 0.47 | 4.23 |
| 2014/3/6 | 01:26:42 | 2.23 | 168.02 |
| 2014/3/6 | 01:31:42 | 1.15 | 149.97 |
| 2014/3/6 | 01:36:42 | 3.20 | 160.78 |
| 2014/3/6 | 01:41:42 | 2.25 | 126.57 |
| 2014/3/6 | 01:46:42 | 4.80 | 136.94 |
| 2014/3/6 | 01:51:42 | 1.25 | 61.73 |
| 2014/3/6 | 01:56:42 | 0.66 | 120.00 |
| 2014/3/6 | 02:01:42 | 1.15 | 52.81 |
| 2014/3/6 | 02:06:42 | 0.61 | 117.33 |
| 2014/3/6 | 02:11:42 | 4.19 | 170.81 |
| 2014/3/6 | 02:16:42 | 0.32 | 129.14 |
| 2014/3/6 | 02:21:42 | 0.60 | 111.75 |
| 2014/3/6 | 02:26:42 | 0.12 | 53.93 |
| 2014/3/6 | 02:31:42 | 5.31 | 133.59 |
| 2014/3/6 | 02:36:42 | 3.24 | 134.82 |
| 2014/3/6 | 02:41:42 | 1.58 | 147.97 |
| 2014/3/6 | 02:46:42 | 0.05 | 238.77 |
| 2014/3/6 | 02:51:42 | 0.96 | 157.10 |
| 2014/3/6 | 02:56:42 | 0.80 | 207.58 |
| 2014/3/6 | 03:01:42 | 1.58 | 97.05 |
| 2014/3/6 | 03:06:42 | 0.37 | 181.06 |
| 2014/3/6 | 03:11:42 | 0.03 | 101.17 |
| 2014/3/6 | 03:16:42 | 0.02 | 178.83 |
| 2014/3/6 | 03:21:42 | 0.14 | 117.77 |
| 2014/3/6 | 03:26:42 | 0.31 | 0.22 |
| 2014/3/6 | 03:31:42 | 0.57 | 17.83 |
| 2014/3/6 | 03:36:42 | 1.44 | 121.67 |
| 2014/3/6 | 03:41:42 | 5.26 | 162.79 |
| 2014/3/6 | 03:46:42 | 2.51 | 116.21 |
| 2014/3/6 | 03:51:42 | 3.61 | 70.53 |
| 2014/3/6 | 03:56:42 | 4.76 | 74.87 |
| 2014/3/6 | 04:01:42 | 0.24 | 67.08 |
| 2014/3/6 | 04:06:42 | 0.15 | 111.09 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|----------|--------------|------------------|-------------------------|
| 2014/3/6 | 04:11:42 | 1.64 | 129.92 |
| 2014/3/6 | 04:16:42 | 1.10 | 137.72 |
| 2014/3/6 | 04:21:42 | 1.59 | 91.03 |
| 2014/3/6 | 04:26:42 | 1.51 | 247.69 |
| 2014/3/6 | 04:31:42 | 0.76 | 44.90 |
| 2014/3/6 | 04:36:42 | 0.34 | 112.65 |
| 2014/3/6 | 04:41:42 | 0.29 | 311.64 |
| 2014/3/6 | 04:46:42 | 2.26 | 112.87 |
| 2014/3/6 | 04:51:42 | 0.80 | 154.21 |
| 2014/3/6 | 04:56:42 | 0.83 | 102.40 |
| 2014/3/6 | 05:01:42 | 2.66 | 121.56 |
| 2014/3/6 | 05:06:42 | 1.51 | 57.72 |
| 2014/3/6 | 05:11:42 | 1.76 | 103.96 |
| 2014/3/6 | 05:16:42 | 0.80 | 103.06 |
| 2014/3/6 | 05:21:42 | 3.78 | 180.61 |
| 2014/3/6 | 05:26:42 | 0.17 | 47.47 |
| 2014/3/6 | 05:31:42 | 1.97 | 97.72 |
| 2014/3/6 | 05:36:42 | 0.34 | 71.09 |
| 2014/3/6 | 05:41:42 | 0.17 | 42.45 |
| 2014/3/6 | 05:46:42 | 0.67 | 88.80 |
| 2014/3/6 | 05:51:42 | 1.33 | 150.64 |
| 2014/3/6 | 05:56:42 | 0.29 | 133.70 |
| 2014/3/6 | 06:01:42 | 3.36 | 51.14 |
| 2014/3/6 | 06:06:42 | 0.80 | 62.62 |
| 2014/3/6 | 06:11:42 | 1.21 | 149.30 |
| 2014/3/6 | 06:16:42 | 6.26 | 53.70 |
| 2014/3/6 | 06:21:42 | 0.69 | 200.22 |
| 2014/3/6 | 06:26:42 | 3.33 | 187.86 |
| 2014/3/6 | 06:31:42 | 1.21 | 354.65 |
| 2014/3/6 | 06:36:42 | 0.55 | 109.19 |
| 2014/3/6 | 06:41:42 | 1.87 | 91.48 |
| 2014/3/6 | 06:46:42 | 1.01 | 145.63 |
| 2014/3/6 | 06:51:42 | 0.15 | 298.94 |
| 2014/3/6 | 06:56:42 | 2.19 | 190.75 |
| 2014/3/6 | 07:01:42 | 2.83 | 131.14 |
| 2014/3/6 | 07:06:42 | 2.39 | 31.31 |
| 2014/3/6 | 07:11:42 | 1.76 | 94.71 |
| 2014/3/6 | 07:16:42 | 3.35 | 64.40 |
| 2014/3/6 | 07:21:42 | 5.31 | 152.20 |
| 2014/3/6 | 07:26:42 | 2.16 | 168.69 |
| 2014/3/6 | 07:31:42 | 2.63 | 75.10 |
| 2014/3/6 | 07:36:42 | 4.21 | 135.93 |
| 2014/3/6 | 07:41:42 | 4.33 | 154.21 |
| 2014/3/6 | 07:46:42 | 1.56 | 177.38 |
| 2014/3/6 | 07:51:42 | 1.59 | 162.45 |
| 2014/3/6 | 07:56:42 | 1.04 | 205.24 |
| 2014/3/6 | 08:01:42 | 7.63 | 136.71 |
| 2014/3/6 | 08:06:42 | 3.61 | 80.11 |
| 2014/3/6 | 08:11:42 | 2.37 | 160.78 |
| 2014/3/6 | 08:16:42 | 1.94 | 76.10 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|----------|--------------|------------------|-------------------------|
| 2014/3/6 | 08:21:42 | 1.24 | 65.40 |
| 2014/3/6 | 08:26:42 | 0.06 | 69.08 |
| 2014/3/6 | 08:31:42 | 2.26 | 58.38 |
| 2014/3/6 | 08:36:42 | 0.95 | 196.99 |
| 2014/3/6 | 08:41:42 | 5.72 | 133.26 |
| 2014/3/6 | 08:46:42 | 1.94 | 151.09 |
| 2014/3/6 | 08:51:42 | 0.26 | 344.07 |
| 2014/3/6 | 08:56:42 | 2.32 | 171.03 |
| 2014/3/6 | 09:01:42 | 1.88 | 178.83 |
| 2014/3/6 | 09:06:42 | 0.86 | 79.67 |
| 2014/3/6 | 09:11:42 | 0.64 | 87.47 |
| 2014/3/6 | 09:16:42 | 1.47 | 88.13 |
| 2014/3/6 | 09:21:42 | 0.72 | 114.32 |
| 2014/3/6 | 09:26:42 | 0.34 | 85.13 |
| 2014/3/6 | 09:31:42 | 0.11 | 306.85 |
| 2014/3/6 | 09:36:42 | 0.38 | 181.73 |
| 2014/3/6 | 09:41:42 | 2.03 | 119.89 |
| 2014/3/6 | 09:46:42 | 1.19 | 337.38 |
| 2014/3/6 | 09:51:42 | 0.12 | 104.29 |
| 2014/3/6 | 09:56:42 | 2.08 | 4.35 |
| 2014/3/6 | 10:01:42 | 0.67 | 357.21 |
| 2014/3/6 | 10:06:42 | 0.96 | 49.92 |
| 2014/3/6 | 10:11:42 | 1.36 | 111.09 |
| 2014/3/6 | 10:16:42 | 0.54 | 109.08 |
| 2014/3/6 | 10:21:42 | 0.02 | 186.96 |
| 2014/3/6 | 10:26:42 | 1.82 | 147.19 |
| 2014/3/6 | 10:31:42 | 2.10 | 180.06 |
| 2014/3/6 | 10:36:42 | 2.75 | 44.90 |
| 2014/3/6 | 10:41:42 | 0.46 | 245.57 |
| 2014/3/6 | 10:46:42 | 0.09 | 6.69 |
| 2014/3/6 | 10:51:42 | 0.58 | 175.04 |
| 2014/3/6 | 10:56:42 | 2.78 | 71.87 |
| 2014/3/6 | 11:01:42 | 5.05 | 113.98 |
| 2014/3/6 | 11:06:42 | 0.05 | 8.13 |
| 2014/3/6 | 11:11:42 | 0.26 | 75.21 |
| 2014/3/6 | 11:16:42 | 0.90 | 39.22 |
| 2014/3/6 | 11:21:42 | 0.83 | 53.82 |
| 2014/3/6 | 11:26:42 | 4.05 | 150.86 |
| 2014/3/6 | 11:31:42 | 0.66 | 279.11 |
| 2014/3/6 | 11:36:42 | 2.20 | 187.63 |
| 2014/3/6 | 11:41:42 | 1.35 | 17.49 |
| 2014/3/6 | 11:46:42 | 0.90 | 170.25 |
| 2014/3/6 | 11:51:42 | 4.07 | 96.94 |
| 2014/3/6 | 11:56:42 | 4.21 | 169.58 |
| 2014/3/6 | 12:01:42 | 0.02 | 206.80 |
| 2014/3/6 | 12:06:42 | 2.68 | 46.57 |
| 2014/3/6 | 12:11:42 | 3.17 | 85.35 |
| 2014/3/6 | 12:16:42 | 1.33 | 176.49 |
| 2014/3/6 | 12:21:42 | 0.03 | 40.78 |
| 2014/3/6 | 12:26:42 | 2.29 | 139.50 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|----------|--------------|------------------|-------------------------|
| 2014/3/6 | 12:31:42 | 3.10 | 177.83 |
| 2014/3/6 | 12:36:42 | 4.01 | 168.69 |
| 2014/3/6 | 12:41:42 | 0.73 | 241.11 |
| 2014/3/6 | 12:46:42 | 0.75 | 65.85 |
| 2014/3/6 | 12:51:42 | 2.10 | 70.86 |
| 2014/3/6 | 12:56:42 | 1.61 | 87.91 |
| 2014/3/6 | 13:01:42 | 0.93 | 99.05 |
| 2014/3/6 | 13:06:42 | 1.53 | 341.73 |
| 2014/3/6 | 13:11:42 | 2.57 | 63.51 |
| 2014/3/6 | 13:16:42 | 0.02 | 275.54 |
| 2014/3/6 | 13:21:42 | 0.02 | 80.33 |
| 2014/3/6 | 13:26:42 | 4.99 | 69.53 |
| 2014/3/6 | 13:31:42 | 1.32 | 96.49 |
| 2014/3/6 | 13:36:42 | 0.03 | 281.67 |
| 2014/3/6 | 13:41:42 | 1.36 | 99.39 |
| 2014/3/6 | 13:46:42 | 4.31 | 149.30 |
| 2014/3/6 | 13:51:42 | 0.98 | 149.64 |
| 2014/3/6 | 13:56:42 | 1.36 | 122.34 |
| 2014/3/6 | 14:01:42 | 1.79 | 316.66 |
| 2014/3/6 | 14:06:42 | 0.02 | 351.53 |
| 2014/3/6 | 14:11:42 | 2.19 | 155.43 |
| 2014/3/6 | 14:16:42 | 4.50 | 65.40 |
| 2014/3/6 | 14:21:42 | 2.17 | 61.50 |
| 2014/3/6 | 14:26:42 | 0.35 | 166.13 |
| 2014/3/6 | 14:31:42 | 1.73 | 123.34 |
| 2014/3/6 | 14:36:42 | 0.49 | 135.71 |
| 2014/3/6 | 14:41:42 | 0.32 | 326.35 |
| 2014/3/6 | 14:46:42 | 0.02 | 113.43 |
| 2014/3/6 | 14:51:42 | 0.76 | 71.09 |
| 2014/3/6 | 14:56:42 | 0.23 | 342.06 |
| 2014/3/6 | 15:01:42 | 0.03 | 356.66 |
| 2014/3/6 | 15:06:42 | 0.29 | 133.59 |
| 2014/3/6 | 15:11:42 | 2.60 | 67.41 |
| 2014/3/6 | 15:16:42 | 0.86 | 57.83 |
| 2014/3/6 | 15:21:42 | 0.61 | 90.81 |
| 2014/3/6 | 15:26:42 | 2.77 | 65.29 |
| 2014/3/6 | 15:31:42 | 2.69 | 117.55 |
| 2014/3/6 | 15:36:42 | 1.54 | 43.12 |
| 2014/3/6 | 15:41:42 | 0.02 | 338.16 |
| 2014/3/6 | 15:46:42 | 0.81 | 228.19 |
| 2014/3/6 | 15:51:42 | 0.02 | 203.34 |
| 2014/3/6 | 15:56:42 | 0.72 | 152.98 |
| 2014/3/6 | 16:01:42 | 0.02 | 30.08 |
| 2014/3/6 | 16:06:42 | 0.29 | 95.60 |
| 2014/3/6 | 16:11:42 | 0.23 | 129.92 |
| 2014/3/6 | 16:16:42 | 0.05 | 69.19 |
| 2014/3/6 | 16:21:42 | 0.08 | 75.99 |
| 2014/3/6 | 16:26:42 | 0.43 | 120.33 |
| 2014/3/6 | 16:31:42 | 1.13 | 42.67 |
| 2014/3/6 | 16:36:42 | 0.31 | 28.52 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|----------|--------------|------------------|-------------------------|
| 2014/3/6 | 16:41:42 | 0.66 | 59.50 |
| 2014/3/6 | 16:46:42 | 0.47 | 110.19 |
| 2014/3/6 | 16:51:42 | 0.50 | 124.12 |
| 2014/3/6 | 16:56:42 | 0.02 | 68.75 |
| 2014/3/6 | 17:01:42 | 0.34 | 153.76 |
| 2014/3/6 | 17:06:42 | 0.02 | 72.53 |
| 2014/3/6 | 17:11:42 | 0.69 | 160.89 |
| 2014/3/6 | 17:16:42 | 3.59 | 129.03 |
| 2014/3/6 | 17:21:42 | 0.29 | 107.74 |
| 2014/3/6 | 17:26:42 | 0.87 | 98.94 |
| 2014/3/6 | 17:31:42 | 1.45 | 33.09 |
| 2014/3/6 | 17:36:42 | 1.79 | 139.83 |
| 2014/3/6 | 17:41:42 | 0.03 | 96.71 |
| 2014/3/6 | 17:46:42 | 5.28 | 144.85 |
| 2014/3/6 | 17:51:42 | 0.61 | 43.12 |
| 2014/3/6 | 17:56:42 | 1.97 | 99.72 |
| 2014/3/6 | 18:01:42 | 0.96 | 60.84 |
| 2014/3/6 | 18:06:42 | 0.54 | 118.11 |
| 2014/3/6 | 18:11:42 | 0.86 | 113.31 |
| 2014/3/6 | 18:16:42 | 4.66 | 99.16 |
| 2014/3/6 | 18:21:42 | 2.36 | 57.05 |
| 2014/3/6 | 18:26:42 | 0.31 | 10.03 |
| 2014/3/6 | 18:31:42 | 0.02 | 27.30 |
| 2014/3/6 | 18:36:42 | 1.73 | 131.14 |
| 2014/3/6 | 18:41:42 | 1.80 | 151.87 |
| 2014/3/6 | 18:46:42 | 3.53 | 87.02 |
| 2014/3/6 | 18:51:42 | 0.12 | 92.37 |
| 2014/3/6 | 18:56:42 | 0.46 | 47.80 |
| 2014/3/6 | 19:01:42 | 2.42 | 125.24 |
| 2014/3/6 | 19:06:42 | 0.58 | 75.65 |
| 2014/3/6 | 19:11:42 | 0.67 | 46.13 |
| 2014/3/6 | 19:16:42 | 1.28 | 58.94 |
| 2014/3/6 | 19:21:42 | 2.58 | 77.99 |
| 2014/3/6 | 19:26:42 | 0.44 | 222.84 |
| 2014/3/6 | 19:31:42 | 0.20 | 116.99 |
| 2014/3/6 | 19:36:42 | 0.03 | 75.77 |
| 2014/3/6 | 19:41:42 | 0.83 | 130.47 |
| 2014/3/6 | 19:46:42 | 1.65 | 67.41 |
| 2014/3/6 | 19:51:42 | 0.47 | 99.50 |
| 2014/3/6 | 19:56:42 | 1.93 | 147.30 |
| 2014/3/6 | 20:01:42 | 1.54 | 151.09 |
| 2014/3/6 | 20:06:42 | 0.47 | 74.09 |
| 2014/3/6 | 20:11:42 | 0.26 | 70.53 |
| 2014/3/6 | 20:16:42 | 1.01 | 226.30 |
| 2014/3/6 | 20:21:42 | 0.76 | 75.32 |
| 2014/3/6 | 20:26:42 | 1.65 | 97.38 |
| 2014/3/6 | 20:31:42 | 0.03 | 112.53 |
| 2014/3/6 | 20:36:42 | 0.14 | 64.07 |
| 2014/3/6 | 20:41:42 | 0.35 | 53.37 |
| 2014/3/6 | 20:46:42 | 2.81 | 73.76 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/6 | 20:51:42 | 2.31 | 92.92 |
| 2014/3/6 | 20:56:42 | 1.42 | 116.21 |
| 2014/3/6 | 21:01:42 | 0.12 | 84.01 |
| 2014/3/6 | 21:06:42 | 2.03 | 116.32 |
| 2014/3/6 | 21:11:42 | 1.21 | 148.19 |
| 2014/3/6 | 21:16:42 | 0.52 | 174.60 |
| 2014/3/6 | 21:21:42 | 0.69 | 139.28 |
| 2014/3/6 | 21:26:42 | 2.75 | 174.82 |
| 2014/3/6 | 21:31:42 | 2.62 | 91.36 |
| 2014/3/6 | 21:36:42 | 2.03 | 79.33 |
| 2014/3/6 | 21:41:42 | 2.34 | 57.72 |
| 2014/3/6 | 21:46:42 | 0.46 | 69.19 |
| 2014/3/6 | 21:51:42 | 0.57 | 51.92 |
| 2014/3/6 | 21:56:42 | 3.73 | 71.87 |
| 2014/3/6 | 22:01:42 | 3.69 | 66.41 |
| 2014/3/6 | 22:06:42 | 2.25 | 82.79 |
| 2014/3/6 | 22:11:42 | 2.58 | 76.43 |
| 2014/3/6 | 22:16:42 | 0.02 | 327.58 |
| 2014/3/6 | 22:21:42 | 2.77 | 76.88 |
| 2014/3/6 | 22:26:42 | 3.99 | 141.17 |
| 2014/3/6 | 22:31:42 | 0.02 | 134.60 |
| 2014/3/6 | 22:36:42 | 0.81 | 234.76 |
| 2014/3/6 | 22:41:42 | 0.69 | 10.81 |
| 2014/3/6 | 22:46:42 | 1.97 | 112.42 |
| 2014/3/6 | 22:51:42 | 0.89 | 342.95 |
| 2014/3/6 | 22:56:42 | 0.12 | 80.45 |
| 2014/3/6 | 23:01:42 | 0.83 | 114.54 |
| 2014/3/6 | 23:06:42 | 1.77 | 159.33 |
| 2014/3/6 | 23:11:42 | 2.28 | 131.25 |
| 2014/3/6 | 23:16:42 | 0.76 | 216.27 |
| 2014/3/6 | 23:21:42 | 0.37 | 140.50 |
| 2014/3/6 | 23:26:42 | 0.73 | 23.29 |
| 2014/3/6 | 23:31:42 | 0.02 | 42.34 |
| 2014/3/6 | 23:36:42 | 2.57 | 140.50 |
| 2014/3/6 | 23:41:42 | 0.73 | 100.39 |
| 2014/3/6 | 23:46:42 | 0.89 | 146.74 |
| 2014/3/6 | 23:51:42 | 0.73 | 225.52 |
| 2014/3/6 | 23:56:42 | 2.58 | 14.37 |
| 2014/3/12 | 00:01:42 | 1.53 | 218.16 |
| 2014/3/12 | 00:06:42 | 1.22 | 196.55 |
| 2014/3/12 | 00:11:42 | 3.32 | 160.33 |
| 2014/3/12 | 00:16:42 | 0.93 | 2.12 |
| 2014/3/12 | 00:21:42 | 0.02 | 141.95 |
| 2014/3/12 | 00:26:42 | 0.84 | 130.14 |
| 2014/3/12 | 00:31:42 | 1.01 | 182.95 |
| 2014/3/12 | 00:36:42 | 0.95 | 126.57 |
| 2014/3/12 | 00:41:42 | 0.03 | 59.61 |
| 2014/3/12 | 00:46:42 | 0.67 | 193.87 |
| 2014/3/12 | 00:51:42 | 0.86 | 201.34 |
| 2014/3/12 | 00:56:42 | 0.02 | 157.10 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/12 | 01:01:42 | 0.02 | 111.87 |
| 2014/3/12 | 01:06:42 | 0.03 | 181.73 |
| 2014/3/12 | 01:11:42 | 0.02 | 102.40 |
| 2014/3/12 | 01:16:42 | 0.63 | 65.18 |
| 2014/3/12 | 01:21:42 | 0.02 | 214.37 |
| 2014/3/12 | 01:26:42 | 0.02 | 100.06 |
| 2014/3/12 | 01:31:42 | 0.15 | 162.67 |
| 2014/3/12 | 01:36:42 | 0.78 | 166.02 |
| 2014/3/12 | 01:41:42 | 0.02 | 171.59 |
| 2014/3/12 | 01:46:42 | 0.03 | 81.56 |
| 2014/3/12 | 01:51:42 | 0.80 | 66.30 |
| 2014/3/12 | 01:56:42 | 0.93 | 67.41 |
| 2014/3/12 | 02:01:42 | 0.03 | 101.95 |
| 2014/3/12 | 02:06:42 | 0.17 | 90.03 |
| 2014/3/12 | 02:11:42 | 0.02 | 158.33 |
| 2014/3/12 | 02:16:42 | 0.64 | 181.50 |
| 2014/3/12 | 02:21:42 | 0.05 | 114.43 |
| 2014/3/12 | 02:26:42 | 0.05 | 68.64 |
| 2014/3/12 | 02:31:42 | 0.46 | 146.96 |
| 2014/3/12 | 02:36:42 | 0.14 | 122.23 |
| 2014/3/12 | 02:41:42 | 0.69 | 147.30 |
| 2014/3/12 | 02:46:42 | 0.08 | 130.47 |
| 2014/3/12 | 02:51:42 | 0.89 | 146.07 |
| 2014/3/12 | 02:56:42 | 0.21 | 128.69 |
| 2014/3/12 | 03:01:42 | 0.29 | 187.30 |
| 2014/3/12 | 03:06:42 | 0.02 | 106.85 |
| 2014/3/12 | 03:11:42 | 0.64 | 90.36 |
| 2014/3/12 | 03:16:42 | 0.09 | 104.40 |
| 2014/3/12 | 03:21:42 | 0.02 | 75.32 |
| 2014/3/12 | 03:26:42 | 0.02 | 329.03 |
| 2014/3/12 | 03:31:42 | 0.14 | 164.57 |
| 2014/3/12 | 03:36:42 | 0.03 | 92.48 |
| 2014/3/12 | 03:41:42 | 0.86 | 191.98 |
| 2014/3/12 | 03:46:42 | 0.20 | 77.88 |
| 2014/3/12 | 03:51:42 | 0.09 | 148.30 |
| 2014/3/12 | 03:56:42 | 0.02 | 109.08 |
| 2014/3/12 | 04:01:42 | 0.08 | 132.37 |
| 2014/3/12 | 04:06:42 | 0.52 | 150.86 |
| 2014/3/12 | 04:11:42 | 0.14 | 27.86 |
| 2014/3/12 | 04:16:42 | 0.05 | 49.69 |
| 2014/3/12 | 04:21:42 | 0.26 | 109.19 |
| 2014/3/12 | 04:26:42 | 1.47 | 69.42 |
| 2014/3/12 | 04:31:42 | 0.80 | 114.09 |
| 2014/3/12 | 04:36:42 | 0.02 | 71.31 |
| 2014/3/12 | 04:41:42 | 0.31 | 77.66 |
| 2014/3/12 | 04:46:42 | 0.40 | 124.23 |
| 2014/3/12 | 04:51:42 | 0.02 | 139.72 |
| 2014/3/12 | 04:56:42 | 0.86 | 187.52 |
| 2014/3/12 | 05:01:42 | 2.29 | 206.02 |
| 2014/3/12 | 05:06:42 | 2.22 | 157.21 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/12 | 05:11:42 | 1.62 | 132.70 |
| 2014/3/12 | 05:16:42 | 0.06 | 135.49 |
| 2014/3/12 | 05:21:42 | 0.46 | 234.09 |
| 2014/3/12 | 05:26:42 | 0.38 | 127.35 |
| 2014/3/12 | 05:31:42 | 1.04 | 131.14 |
| 2014/3/12 | 05:36:42 | 0.80 | 176.27 |
| 2014/3/12 | 05:41:42 | 0.11 | 102.40 |
| 2014/3/12 | 05:46:42 | 0.08 | 186.41 |
| 2014/3/12 | 05:51:42 | 0.43 | 87.91 |
| 2014/3/12 | 05:56:42 | 0.20 | 113.43 |
| 2014/3/12 | 06:01:42 | 0.05 | 102.84 |
| 2014/3/12 | 06:06:42 | 1.25 | 188.75 |
| 2014/3/12 | 06:11:42 | 0.31 | 282.01 |
| 2014/3/12 | 06:16:42 | 0.20 | 233.09 |
| 2014/3/12 | 06:21:42 | 0.03 | 247.69 |
| 2014/3/12 | 06:26:42 | 0.35 | 255.04 |
| 2014/3/12 | 06:31:42 | 1.19 | 116.99 |
| 2014/3/12 | 06:36:42 | 0.47 | 73.31 |
| 2014/3/12 | 06:41:42 | 2.26 | 147.41 |
| 2014/3/12 | 06:46:42 | 0.34 | 125.68 |
| 2014/3/12 | 06:51:42 | 0.02 | 147.52 |
| 2014/3/12 | 06:56:42 | 1.04 | 202.23 |
| 2014/3/12 | 07:01:42 | 0.09 | 142.17 |
| 2014/3/12 | 07:06:42 | 0.14 | 52.03 |
| 2014/3/12 | 07:11:42 | 0.02 | 40.78 |
| 2014/3/12 | 07:16:42 | 0.02 | 79.67 |
| 2014/3/12 | 07:21:42 | 0.35 | 52.03 |
| 2014/3/12 | 07:26:42 | 0.06 | 119.89 |
| 2014/3/12 | 07:31:42 | 0.02 | 54.82 |
| 2014/3/12 | 07:36:42 | 0.44 | 238.11 |
| 2014/3/12 | 07:41:42 | 0.23 | 230.08 |
| 2014/3/12 | 07:46:42 | 0.46 | 170.81 |
| 2014/3/12 | 07:51:42 | 0.02 | 194.43 |
| 2014/3/12 | 07:56:42 | 0.60 | 64.62 |
| 2014/3/12 | 08:01:42 | 0.11 | 105.96 |
| 2014/3/12 | 08:06:42 | 0.02 | 112.65 |
| 2014/3/12 | 08:11:42 | 0.02 | 100.61 |
| 2014/3/12 | 08:16:42 | 0.06 | 175.82 |
| 2014/3/12 | 08:21:42 | 0.81 | 80.78 |
| 2014/3/12 | 08:26:42 | 0.02 | 100.28 |
| 2014/3/12 | 08:31:42 | 0.05 | 134.71 |
| 2014/3/12 | 08:36:42 | 0.02 | 79.78 |
| 2014/3/12 | 08:41:42 | 0.02 | 45.24 |
| 2014/3/12 | 08:46:42 | 0.02 | 79.78 |
| 2014/3/12 | 08:51:42 | 0.32 | 49.36 |
| 2014/3/12 | 08:56:42 | 0.02 | 51.81 |
| 2014/3/12 | 09:01:42 | 0.78 | 83.79 |
| 2014/3/12 | 09:06:42 | 0.29 | 132.14 |
| 2014/3/12 | 09:11:42 | 0.17 | 39.44 |
| 2014/3/12 | 09:16:42 | 0.02 | 134.04 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/12 | 09:21:42 | 0.58 | 40.00 |
| 2014/3/12 | 09:26:42 | 1.76 | 141.84 |
| 2014/3/12 | 09:31:42 | 1.56 | 124.46 |
| 2014/3/12 | 09:36:42 | 0.21 | 133.82 |
| 2014/3/12 | 09:41:42 | 0.35 | 98.05 |
| 2014/3/12 | 09:46:42 | 0.06 | 84.57 |
| 2014/3/12 | 09:51:42 | 0.08 | 121.78 |
| 2014/3/12 | 09:56:42 | 0.11 | 99.16 |
| 2014/3/12 | 10:01:42 | 0.02 | 109.86 |
| 2014/3/12 | 10:06:42 | 0.26 | 145.07 |
| 2014/3/12 | 10:11:42 | 0.23 | 154.32 |
| 2014/3/12 | 10:16:42 | 0.11 | 143.29 |
| 2014/3/12 | 10:21:42 | 0.08 | 109.19 |
| 2014/3/12 | 10:22:49 | 0.02 | 151.53 |
| 2014/3/12 | 10:27:49 | 0.29 | 157.88 |
| 2014/3/12 | 10:32:49 | 0.12 | 133.48 |
| 2014/3/12 | 10:37:49 | 0.14 | 38.66 |
| 2014/3/12 | 10:42:49 | 0.41 | 145.29 |
| 2014/3/12 | 10:47:49 | 0.02 | 107.86 |
| 2014/3/12 | 10:52:49 | 1.07 | 82.01 |
| 2014/3/12 | 10:57:49 | 0.49 | 92.03 |
| 2014/3/12 | 11:02:49 | 0.12 | 175.82 |
| 2014/3/12 | 11:07:49 | 1.12 | 187.08 |
| 2014/3/12 | 11:12:49 | 0.02 | 113.31 |
| 2014/3/12 | 11:17:49 | 0.02 | 162.90 |
| 2014/3/12 | 11:22:49 | 0.54 | 117.66 |
| 2014/3/12 | 11:27:49 | 0.11 | 96.94 |
| 2014/3/12 | 11:32:49 | 0.28 | 271.42 |
| 2014/3/12 | 11:37:49 | 0.02 | 114.32 |
| 2014/3/12 | 11:42:49 | 0.05 | 160.56 |
| 2014/3/12 | 11:47:49 | 0.02 | 49.14 |
| 2014/3/12 | 11:52:49 | 0.50 | 126.91 |
| 2014/3/12 | 11:57:49 | 0.18 | 143.84 |
| 2014/3/12 | 12:02:49 | 0.02 | 67.41 |
| 2014/3/12 | 12:07:49 | 0.06 | 115.99 |
| 2014/3/12 | 12:12:49 | 0.02 | 242.23 |
| 2014/3/12 | 12:17:49 | 1.09 | 156.43 |
| 2014/3/12 | 12:22:49 | 0.83 | 160.22 |
| 2014/3/12 | 12:27:49 | 0.02 | 204.23 |
| 2014/3/12 | 12:32:49 | 0.64 | 113.87 |
| 2014/3/12 | 12:37:49 | 0.05 | 49.92 |
| 2014/3/12 | 12:42:49 | 0.37 | 84.79 |
| 2014/3/12 | 12:47:49 | 0.02 | 159.44 |
| 2014/3/12 | 12:52:49 | 0.02 | 61.73 |
| 2014/3/12 | 12:57:49 | 0.72 | 147.19 |
| 2014/3/12 | 13:02:49 | 1.56 | 66.41 |
| 2014/3/12 | 13:07:49 | 0.02 | 58.27 |
| 2014/3/12 | 13:12:49 | 0.89 | 70.31 |
| 2014/3/12 | 13:17:49 | 0.67 | 113.09 |
| 2014/3/12 | 13:22:49 | 0.02 | 102.84 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/12 | 13:27:49 | 0.93 | 146.52 |
| 2014/3/12 | 13:32:49 | 0.46 | 134.60 |
| 2014/3/12 | 13:37:49 | 0.02 | 52.26 |
| 2014/3/12 | 13:42:49 | 0.23 | 159.44 |
| 2014/3/12 | 13:47:49 | 0.12 | 63.73 |
| 2014/3/12 | 13:52:49 | 0.43 | 86.13 |
| 2014/3/12 | 13:57:49 | 0.55 | 94.37 |
| 2014/3/12 | 14:02:49 | 0.11 | 96.04 |
| 2014/3/12 | 14:07:49 | 0.95 | 147.63 |
| 2014/3/12 | 14:12:49 | 1.25 | 159.00 |
| 2014/3/12 | 14:17:49 | 0.26 | 168.13 |
| 2014/3/12 | 14:22:49 | 0.03 | 50.25 |
| 2014/3/12 | 14:27:49 | 0.24 | 144.29 |
| 2014/3/12 | 14:32:49 | 0.02 | 100.28 |
| 2014/3/12 | 14:37:49 | 0.17 | 169.03 |
| 2014/3/12 | 14:42:49 | 0.02 | 228.64 |
| 2014/3/12 | 14:47:49 | 0.02 | 102.62 |
| 2014/3/12 | 14:52:49 | 1.13 | 165.46 |
| 2014/3/12 | 14:57:49 | 1.02 | 203.68 |
| 2014/3/12 | 15:02:49 | 0.26 | 76.66 |
| 2014/3/12 | 15:07:49 | 1.79 | 166.69 |
| 2014/3/12 | 15:12:49 | 1.01 | 71.20 |
| 2014/3/12 | 15:17:49 | 0.11 | 47.24 |
| 2014/3/12 | 15:22:49 | 0.02 | 178.72 |
| 2014/3/12 | 15:27:49 | 1.59 | 91.03 |
| 2014/3/12 | 15:32:49 | 0.43 | 26.63 |
| 2014/3/12 | 15:37:49 | 0.55 | 79.67 |
| 2014/3/12 | 15:42:49 | 0.23 | 188.52 |
| 2014/3/12 | 15:47:49 | 0.03 | 193.09 |
| 2014/3/12 | 15:52:49 | 0.87 | 323.79 |
| 2014/3/12 | 15:57:49 | 0.24 | 43.23 |
| 2014/3/12 | 16:02:49 | 0.12 | 186.63 |
| 2014/3/12 | 16:07:49 | 0.02 | 226.30 |
| 2014/3/12 | 16:12:49 | 0.08 | 276.99 |
| 2014/3/12 | 16:17:49 | 2.34 | 213.26 |
| 2014/3/12 | 16:22:49 | 0.03 | 5.13 |
| 2014/3/12 | 16:27:49 | 0.70 | 180.06 |
| 2014/3/12 | 16:32:49 | 2.23 | 131.92 |
| 2014/3/12 | 16:37:49 | 0.26 | 4.68 |
| 2014/3/12 | 16:42:49 | 0.02 | 174.15 |
| 2014/3/12 | 16:47:49 | 0.08 | 242.79 |
| 2014/3/12 | 16:52:49 | 0.21 | 163.12 |
| 2014/3/12 | 16:57:49 | 0.02 | 162.12 |
| 2014/3/12 | 17:02:49 | 0.90 | 112.76 |
| 2014/3/12 | 17:07:49 | 0.05 | 224.18 |
| 2014/3/12 | 17:12:49 | 0.05 | 309.53 |
| 2014/3/12 | 17:17:49 | 0.02 | 75.21 |
| 2014/3/12 | 17:22:49 | 0.43 | 131.92 |
| 2014/3/12 | 17:27:49 | 0.18 | 60.95 |
| 2014/3/12 | 17:32:49 | 0.38 | 210.92 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/12 | 17:37:49 | 0.02 | 81.89 |
| 2014/3/12 | 17:42:49 | 0.02 | 327.02 |
| 2014/3/12 | 17:47:49 | 0.05 | 222.84 |
| 2014/3/12 | 17:52:49 | 0.02 | 240.00 |
| 2014/3/12 | 17:57:49 | 0.02 | 286.46 |
| 2014/3/12 | 18:02:49 | 0.02 | 357.33 |
| 2014/3/12 | 18:07:49 | 0.02 | 200.22 |
| 2014/3/12 | 18:12:49 | 0.02 | 200.33 |
| 2014/3/12 | 18:17:49 | 0.02 | 85.13 |
| 2014/3/12 | 18:22:49 | 0.02 | 35.10 |
| 2014/3/12 | 18:27:49 | 0.02 | 212.81 |
| 2014/3/12 | 18:32:49 | 0.02 | 212.92 |
| 2014/3/12 | 18:37:49 | 0.02 | 212.92 |
| 2014/3/12 | 18:42:49 | 0.02 | 212.92 |
| 2014/3/12 | 18:47:49 | 0.02 | 212.81 |
| 2014/3/12 | 18:52:49 | 0.02 | 212.92 |
| 2014/3/12 | 18:57:49 | 0.02 | 212.92 |
| 2014/3/12 | 19:02:49 | 0.02 | 212.81 |
| 2014/3/12 | 19:07:49 | 0.02 | 212.81 |
| 2014/3/12 | 19:12:49 | 0.02 | 212.92 |
| 2014/3/12 | 19:17:49 | 0.02 | 212.70 |
| 2014/3/12 | 19:22:49 | 0.09 | 227.41 |
| 2014/3/12 | 19:27:49 | 0.02 | 227.41 |
| 2014/3/12 | 19:32:49 | 0.02 | 167.69 |
| 2014/3/12 | 19:37:49 | 0.02 | 167.69 |
| 2014/3/12 | 19:42:49 | 0.12 | 167.69 |
| 2014/3/12 | 19:47:49 | 0.02 | 202.45 |
| 2014/3/12 | 19:52:49 | 0.02 | 169.14 |
| 2014/3/12 | 19:57:49 | 0.02 | 197.88 |
| 2014/3/12 | 20:02:49 | 0.02 | 197.88 |
| 2014/3/12 | 20:07:49 | 0.02 | 196.43 |
| 2014/3/12 | 20:12:49 | 0.02 | 73.76 |
| 2014/3/12 | 20:17:49 | 0.02 | 73.76 |
| 2014/3/12 | 20:22:49 | 0.02 | 73.76 |
| 2014/3/12 | 20:27:49 | 0.02 | 117.21 |
| 2014/3/12 | 20:32:49 | 0.29 | 196.88 |
| 2014/3/12 | 20:37:49 | 0.02 | 185.07 |
| 2014/3/12 | 20:42:49 | 0.02 | 191.53 |
| 2014/3/12 | 20:47:49 | 0.02 | 202.23 |
| 2014/3/12 | 20:52:49 | 0.02 | 183.96 |
| 2014/3/12 | 20:57:49 | 0.02 | 187.63 |
| 2014/3/12 | 21:02:49 | 0.02 | 187.63 |
| 2014/3/12 | 21:07:49 | 0.08 | 206.02 |
| 2014/3/12 | 21:12:49 | 0.06 | 207.69 |
| 2014/3/12 | 21:17:49 | 0.46 | 46.80 |
| 2014/3/12 | 21:22:49 | 0.34 | 235.43 |
| 2014/3/12 | 21:27:49 | 0.02 | 111.87 |
| 2014/3/12 | 21:32:49 | 0.02 | 168.91 |
| 2014/3/12 | 21:37:49 | 0.02 | 28.52 |
| 2014/3/12 | 21:42:49 | 0.03 | 81.78 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/12 | 21:47:49 | 0.28 | 174.04 |
| 2014/3/12 | 21:52:49 | 0.76 | 168.69 |
| 2014/3/12 | 21:57:49 | 0.11 | 210.03 |
| 2014/3/12 | 22:02:49 | 0.21 | 248.69 |
| 2014/3/12 | 22:07:49 | 0.72 | 249.58 |
| 2014/3/12 | 22:12:49 | 0.29 | 139.72 |
| 2014/3/12 | 22:17:49 | 0.43 | 183.29 |
| 2014/3/12 | 22:22:49 | 0.17 | 111.20 |
| 2014/3/12 | 22:27:49 | 0.02 | 191.87 |
| 2014/3/12 | 22:32:49 | 0.02 | 181.39 |
| 2014/3/12 | 22:37:49 | 0.03 | 237.99 |
| 2014/3/12 | 22:42:49 | 0.02 | 184.85 |
| 2014/3/12 | 22:47:49 | 0.02 | 184.85 |
| 2014/3/12 | 22:52:49 | 0.02 | 183.62 |
| 2014/3/12 | 22:57:49 | 0.09 | 216.16 |
| 2014/3/12 | 23:02:49 | 0.02 | 216.16 |
| 2014/3/12 | 23:07:49 | 0.02 | 216.16 |
| 2014/3/12 | 23:12:49 | 0.02 | 192.65 |
| 2014/3/12 | 23:17:49 | 0.02 | 202.12 |
| 2014/3/12 | 23:22:49 | 0.05 | 146.63 |
| 2014/3/12 | 23:27:49 | 0.02 | 212.37 |
| 2014/3/12 | 23:32:49 | 0.02 | 211.14 |
| 2014/3/12 | 23:37:49 | 0.23 | 216.38 |
| 2014/3/12 | 23:42:49 | 0.02 | 216.16 |
| 2014/3/12 | 23:47:49 | 0.02 | 216.16 |
| 2014/3/12 | 23:52:49 | 0.02 | 216.16 |
| 2014/3/12 | 23:57:49 | 0.02 | 216.16 |
| 2014/3/18 | 00:02:49 | 0.02 | 146.30 |
| 2014/3/18 | 00:07:49 | 0.02 | 164.79 |
| 2014/3/18 | 00:12:49 | 0.02 | 186.96 |
| 2014/3/18 | 00:17:49 | 0.06 | 153.65 |
| 2014/3/18 | 00:22:49 | 0.23 | 180.17 |
| 2014/3/18 | 00:27:49 | 0.02 | 178.94 |
| 2014/3/18 | 00:32:49 | 0.02 | 170.47 |
| 2014/3/18 | 00:37:49 | 0.02 | 170.36 |
| 2014/3/18 | 00:42:49 | 0.02 | 151.75 |
| 2014/3/18 | 00:47:49 | 0.02 | 151.75 |
| 2014/3/18 | 00:52:49 | 0.02 | 151.64 |
| 2014/3/18 | 00:57:49 | 0.02 | 151.64 |
| 2014/3/18 | 01:02:49 | 0.02 | 151.64 |
| 2014/3/18 | 01:07:49 | 0.02 | 122.56 |
| 2014/3/18 | 01:12:49 | 0.02 | 164.57 |
| 2014/3/18 | 01:17:49 | 0.02 | 136.16 |
| 2014/3/18 | 01:22:49 | 0.02 | 97.94 |
| 2014/3/18 | 01:27:49 | 0.02 | 122.45 |
| 2014/3/18 | 01:32:49 | 0.02 | 203.01 |
| 2014/3/18 | 01:37:49 | 0.02 | 112.76 |
| 2014/3/18 | 01:42:49 | 0.02 | 144.29 |
| 2014/3/18 | 01:47:49 | 0.02 | 133.70 |
| 2014/3/18 | 01:52:49 | 0.02 | 99.61 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/18 | 01:57:49 | 0.02 | 99.61 |
| 2014/3/18 | 02:02:49 | 0.02 | 267.86 |
| 2014/3/18 | 02:07:49 | 0.06 | 177.72 |
| 2014/3/18 | 02:12:49 | 0.02 | 67.74 |
| 2014/3/18 | 02:17:49 | 0.09 | 146.30 |
| 2014/3/18 | 02:22:49 | 0.26 | 180.72 |
| 2014/3/18 | 02:27:49 | 0.08 | 58.61 |
| 2014/3/18 | 02:32:49 | 0.12 | 162.56 |
| 2014/3/18 | 02:37:49 | 0.02 | 188.86 |
| 2014/3/18 | 02:42:49 | 0.29 | 117.55 |
| 2014/3/18 | 02:47:49 | 0.02 | 82.79 |
| 2014/3/18 | 02:52:49 | 0.02 | 147.19 |
| 2014/3/18 | 02:57:49 | 0.02 | 50.58 |
| 2014/3/18 | 03:02:49 | 0.02 | 79.11 |
| 2014/3/18 | 03:07:49 | 0.02 | 115.10 |
| 2014/3/18 | 03:12:49 | 0.02 | 112.76 |
| 2014/3/18 | 03:17:49 | 0.02 | 128.69 |
| 2014/3/18 | 03:22:49 | 0.02 | 128.80 |
| 2014/3/18 | 03:27:49 | 0.02 | 128.69 |
| 2014/3/18 | 03:32:49 | 0.02 | 128.80 |
| 2014/3/18 | 03:37:49 | 0.02 | 128.69 |
| 2014/3/18 | 03:42:49 | 0.02 | 128.80 |
| 2014/3/18 | 03:47:49 | 0.02 | 127.02 |
| 2014/3/18 | 03:52:49 | 0.02 | 127.13 |
| 2014/3/18 | 03:57:49 | 0.02 | 160.22 |
| 2014/3/18 | 04:02:49 | 0.02 | 160.11 |
| 2014/3/18 | 04:07:49 | 0.02 | 111.31 |
| 2014/3/18 | 04:12:49 | 0.02 | 111.31 |
| 2014/3/18 | 04:17:49 | 0.02 | 111.31 |
| 2014/3/18 | 04:22:49 | 0.02 | 111.20 |
| 2014/3/18 | 04:27:49 | 0.02 | 83.01 |
| 2014/3/18 | 04:32:49 | 0.02 | 83.01 |
| 2014/3/18 | 04:37:49 | 0.02 | 20.61 |
| 2014/3/18 | 04:42:49 | 0.02 | 20.50 |
| 2014/3/18 | 04:47:49 | 0.02 | 20.50 |
| 2014/3/18 | 04:52:49 | 0.02 | 20.50 |
| 2014/3/18 | 04:57:49 | 0.02 | 20.50 |
| 2014/3/18 | 05:02:49 | 0.02 | 20.50 |
| 2014/3/18 | 05:07:49 | 0.02 | 20.50 |
| 2014/3/18 | 05:12:49 | 0.02 | 20.61 |
| 2014/3/18 | 05:17:49 | 0.02 | 20.61 |
| 2014/3/18 | 05:22:49 | 0.03 | 20.61 |
| 2014/3/18 | 05:27:49 | 0.02 | 20.61 |
| 2014/3/18 | 05:32:49 | 0.02 | 20.72 |
| 2014/3/18 | 05:37:49 | 0.02 | 20.72 |
| 2014/3/18 | 05:42:49 | 0.02 | 20.72 |
| 2014/3/18 | 05:47:49 | 0.02 | 20.72 |
| 2014/3/18 | 05:52:49 | 0.02 | 21.17 |
| 2014/3/18 | 05:57:49 | 0.02 | 20.84 |
| 2014/3/18 | 06:02:49 | 0.02 | 20.72 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/18 | 06:07:49 | 0.02 | 20.61 |
| 2014/3/18 | 06:12:49 | 0.02 | 20.61 |
| 2014/3/18 | 06:17:49 | 0.02 | 23.51 |
| 2014/3/18 | 06:22:49 | 0.02 | 23.73 |
| 2014/3/18 | 06:27:49 | 0.02 | 23.51 |
| 2014/3/18 | 06:32:49 | 0.02 | 23.73 |
| 2014/3/18 | 06:37:49 | 0.02 | 23.51 |
| 2014/3/18 | 06:42:49 | 0.02 | 23.51 |
| 2014/3/18 | 06:47:49 | 0.06 | 4.46 |
| 2014/3/18 | 06:52:49 | 0.02 | 4.46 |
| 2014/3/18 | 06:57:49 | 0.02 | 4.46 |
| 2014/3/18 | 07:02:49 | 0.02 | 4.57 |
| 2014/3/18 | 07:07:49 | 0.02 | 4.46 |
| 2014/3/18 | 07:12:49 | 0.02 | 251.48 |
| 2014/3/18 | 07:17:49 | 0.02 | 182.28 |
| 2014/3/18 | 07:22:49 | 0.02 | 182.28 |
| 2014/3/18 | 07:27:49 | 0.02 | 182.28 |
| 2014/3/18 | 07:32:49 | 0.02 | 182.17 |
| 2014/3/18 | 07:37:49 | 0.02 | 182.17 |
| 2014/3/18 | 07:42:49 | 0.02 | 182.17 |
| 2014/3/18 | 07:47:49 | 0.02 | 182.17 |
| 2014/3/18 | 07:52:49 | 0.02 | 182.62 |
| 2014/3/18 | 07:57:49 | 0.02 | 182.62 |
| 2014/3/18 | 08:02:49 | 0.02 | 217.05 |
| 2014/3/18 | 08:07:49 | 0.02 | 306.74 |
| 2014/3/18 | 08:12:49 | 0.02 | 306.41 |
| 2014/3/18 | 08:17:49 | 0.02 | 306.85 |
| 2014/3/18 | 08:22:49 | 0.02 | 306.96 |
| 2014/3/18 | 08:27:49 | 0.02 | 306.74 |
| 2014/3/18 | 08:32:49 | 0.02 | 306.74 |
| 2014/3/18 | 08:37:49 | 0.02 | 306.85 |
| 2014/3/18 | 08:42:49 | 0.02 | 306.96 |
| 2014/3/18 | 08:47:49 | 0.02 | 306.96 |
| 2014/3/18 | 08:52:49 | 0.02 | 306.96 |
| 2014/3/18 | 08:57:49 | 0.02 | 344.74 |
| 2014/3/18 | 09:02:49 | 0.02 | 344.96 |
| 2014/3/18 | 09:07:49 | 0.02 | 344.40 |
| 2014/3/18 | 09:12:49 | 0.02 | 344.85 |
| 2014/3/18 | 09:17:49 | 0.02 | 344.74 |
| 2014/3/18 | 09:22:49 | 0.02 | 344.40 |
| 2014/3/18 | 09:27:49 | 0.02 | 344.40 |
| 2014/3/18 | 09:32:49 | 0.02 | 343.73 |
| 2014/3/18 | 09:37:49 | 0.02 | 340.28 |
| 2014/3/18 | 09:42:49 | 0.02 | 108.75 |
| 2014/3/18 | 09:47:49 | 0.57 | 72.87 |
| 2014/3/18 | 09:52:49 | 0.50 | 167.02 |
| 2014/3/18 | 09:57:49 | 0.08 | 236.66 |
| 2014/3/18 | 10:02:49 | 0.05 | 117.21 |
| 2014/3/18 | 10:07:49 | 0.38 | 208.36 |
| 2014/3/18 | 10:12:49 | 0.64 | 56.60 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/18 | 10:17:49 | 0.02 | 86.13 |
| 2014/3/18 | 10:22:49 | 1.61 | 128.47 |
| 2014/3/18 | 10:27:49 | 1.87 | 145.63 |
| 2014/3/18 | 10:32:49 | 0.02 | 30.97 |
| 2014/3/18 | 10:37:49 | 0.06 | 128.58 |
| 2014/3/18 | 10:42:49 | 0.41 | 126.02 |
| 2014/3/18 | 10:47:49 | 1.30 | 87.24 |
| 2014/3/18 | 10:52:49 | 2.57 | 83.34 |
| 2014/3/18 | 10:57:49 | 0.02 | 74.99 |
| 2014/3/18 | 11:02:49 | 0.23 | 116.77 |
| 2014/3/18 | 11:07:49 | 1.30 | 150.31 |
| 2014/3/18 | 11:12:49 | 0.86 | 159.67 |
| 2014/3/18 | 11:17:49 | 1.79 | 129.36 |
| 2014/3/18 | 11:22:49 | 2.98 | 91.25 |
| 2014/3/18 | 11:27:49 | 2.58 | 144.18 |
| 2014/3/18 | 11:32:49 | 0.05 | 151.64 |
| 2014/3/18 | 11:37:49 | 0.21 | 110.97 |
| 2014/3/18 | 11:42:49 | 1.64 | 179.72 |
| 2014/3/18 | 11:47:49 | 0.57 | 40.89 |
| 2014/3/18 | 11:52:49 | 0.02 | 111.09 |
| 2014/3/18 | 11:57:49 | 0.02 | 111.64 |
| 2014/3/18 | 12:02:49 | 0.29 | 137.72 |
| 2014/3/18 | 12:07:49 | 0.23 | 214.26 |
| 2014/3/18 | 12:12:49 | 0.06 | 180.39 |
| 2014/3/18 | 12:17:49 | 0.26 | 106.63 |
| 2014/3/18 | 12:22:49 | 0.98 | 168.69 |
| 2014/3/18 | 12:27:49 | 0.43 | 128.02 |
| 2014/3/18 | 12:32:49 | 0.02 | 56.94 |
| 2014/3/18 | 12:37:49 | 0.24 | 107.41 |
| 2014/3/18 | 12:42:49 | 0.02 | 99.28 |
| 2014/3/18 | 12:47:49 | 2.46 | 85.79 |
| 2014/3/18 | 12:52:49 | 0.50 | 100.72 |
| 2014/3/18 | 12:57:49 | 0.87 | 41.78 |
| 2014/3/18 | 13:02:49 | 0.02 | 109.42 |
| 2014/3/18 | 13:07:49 | 0.50 | 98.38 |
| 2014/3/18 | 13:12:49 | 2.00 | 139.05 |
| 2014/3/18 | 13:17:49 | 1.97 | 201.00 |
| 2014/3/18 | 13:22:49 | 2.62 | 91.59 |
| 2014/3/18 | 13:27:49 | 0.02 | 108.30 |
| 2014/3/18 | 13:32:49 | 0.18 | 49.69 |
| 2014/3/18 | 13:37:49 | 1.84 | 81.11 |
| 2014/3/18 | 13:42:49 | 2.02 | 149.53 |
| 2014/3/18 | 13:47:49 | 1.85 | 176.82 |
| 2014/3/18 | 13:52:49 | 0.02 | 154.99 |
| 2014/3/18 | 13:57:49 | 0.75 | 47.58 |
| 2014/3/18 | 14:02:49 | 1.13 | 160.33 |
| 2014/3/18 | 14:07:49 | 0.76 | 102.51 |
| 2014/3/18 | 14:12:49 | 0.52 | 113.31 |
| 2014/3/18 | 14:17:49 | 1.47 | 61.73 |
| 2014/3/18 | 14:22:49 | 0.50 | 28.75 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/18 | 14:27:49 | 0.02 | 176.04 |
| 2014/3/18 | 14:32:49 | 0.46 | 42.90 |
| 2014/3/18 | 14:37:49 | 0.15 | 151.20 |
| 2014/3/18 | 14:42:49 | 1.06 | 45.13 |
| 2014/3/18 | 14:47:49 | 0.63 | 232.98 |
| 2014/3/18 | 14:52:49 | 0.23 | 184.29 |
| 2014/3/18 | 14:57:49 | 1.47 | 108.86 |
| 2014/3/18 | 15:02:49 | 0.50 | 345.40 |
| 2014/3/18 | 15:07:49 | 1.48 | 60.17 |
| 2014/3/18 | 15:12:49 | 0.02 | 81.23 |
| 2014/3/18 | 15:17:49 | 0.46 | 33.87 |
| 2014/3/18 | 15:22:49 | 0.43 | 134.04 |
| 2014/3/18 | 15:27:49 | 0.00 | 58.16 |
| 2014/3/18 | 15:32:49 | 0.02 | 153.20 |
| 2014/3/18 | 15:37:49 | 0.02 | 201.34 |
| 2014/3/18 | 15:42:49 | 0.02 | 217.05 |
| 2014/3/18 | 15:47:49 | 0.32 | 68.30 |
| 2014/3/18 | 15:52:49 | 0.02 | 56.38 |
| 2014/3/18 | 15:57:49 | 1.27 | 164.35 |
| 2014/3/18 | 16:02:49 | 0.02 | 95.15 |
| 2014/3/18 | 16:07:49 | 0.76 | 80.78 |
| 2014/3/18 | 16:12:49 | 0.02 | 152.09 |
| 2014/3/18 | 16:17:49 | 0.02 | 32.20 |
| 2014/3/18 | 16:22:49 | 0.02 | 114.65 |
| 2014/3/18 | 16:27:49 | 0.46 | 72.87 |
| 2014/3/18 | 16:32:49 | 0.03 | 103.18 |
| 2014/3/18 | 16:37:49 | 1.42 | 111.64 |
| 2014/3/18 | 16:42:49 | 0.86 | 113.43 |
| 2014/3/18 | 16:47:49 | 0.17 | 89.92 |
| 2014/3/18 | 16:52:49 | 0.02 | 134.71 |
| 2014/3/18 | 16:57:49 | 0.02 | 71.98 |
| 2014/3/18 | 17:02:49 | 0.86 | 135.71 |
| 2014/3/18 | 17:07:49 | 1.42 | 95.26 |
| 2014/3/18 | 17:12:49 | 0.02 | 166.91 |
| 2014/3/18 | 17:17:49 | 0.02 | 158.11 |
| 2014/3/18 | 17:22:49 | 0.29 | 111.20 |
| 2014/3/18 | 17:27:49 | 0.43 | 191.42 |
| 2014/3/18 | 17:32:49 | 0.02 | 138.61 |
| 2014/3/18 | 17:37:49 | 0.21 | 124.57 |
| 2014/3/18 | 17:42:49 | 0.03 | 241.89 |
| 2014/3/18 | 17:47:49 | 0.02 | 156.88 |
| 2014/3/18 | 17:52:49 | 0.24 | 150.64 |
| 2014/3/18 | 17:57:49 | 0.02 | 254.82 |
| 2014/3/18 | 18:02:49 | 0.02 | 219.50 |
| 2014/3/18 | 18:07:49 | 0.55 | 170.25 |
| 2014/3/18 | 18:12:49 | 0.02 | 67.63 |
| 2014/3/18 | 18:17:49 | 0.02 | 86.35 |
| 2014/3/18 | 18:22:49 | 0.02 | 250.70 |
| 2014/3/18 | 18:27:49 | 0.14 | 66.41 |
| 2014/3/18 | 18:32:49 | 0.02 | 319.11 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/18 | 18:37:49 | 0.87 | 122.01 |
| 2014/3/18 | 18:42:49 | 0.02 | 56.71 |
| 2014/3/18 | 18:47:49 | 0.02 | 131.59 |
| 2014/3/18 | 18:52:49 | 0.02 | 116.21 |
| 2014/3/18 | 18:57:49 | 0.02 | 52.03 |
| 2014/3/18 | 19:02:49 | 0.86 | 119.22 |
| 2014/3/18 | 19:07:49 | 0.38 | 88.58 |
| 2014/3/18 | 19:12:49 | 0.63 | 53.37 |
| 2014/3/18 | 19:17:49 | 0.05 | 81.56 |
| 2014/3/18 | 19:22:49 | 0.02 | 126.69 |
| 2014/3/18 | 19:27:49 | 0.08 | 33.76 |
| 2014/3/18 | 19:32:49 | 0.99 | 71.31 |
| 2014/3/18 | 19:37:49 | 0.03 | 91.59 |
| 2014/3/18 | 19:42:49 | 0.02 | 140.39 |
| 2014/3/18 | 19:47:49 | 0.02 | 189.75 |
| 2014/3/18 | 19:52:49 | 0.58 | 103.62 |
| 2014/3/18 | 19:57:49 | 1.80 | 142.73 |
| 2014/3/18 | 20:02:49 | 0.89 | 97.94 |
| 2014/3/18 | 20:07:49 | 0.02 | 0.56 |
| 2014/3/18 | 20:12:49 | 0.17 | 41.11 |
| 2014/3/18 | 20:17:49 | 1.04 | 151.98 |
| 2014/3/18 | 20:22:49 | 0.72 | 100.06 |
| 2014/3/18 | 20:27:49 | 1.67 | 64.40 |
| 2014/3/18 | 20:32:49 | 0.02 | 147.19 |
| 2014/3/18 | 20:37:49 | 0.64 | 58.61 |
| 2014/3/18 | 20:42:49 | 1.22 | 183.96 |
| 2014/3/18 | 20:47:49 | 0.02 | 95.04 |
| 2014/3/18 | 20:52:49 | 0.02 | 109.19 |
| 2014/3/18 | 20:57:49 | 0.02 | 86.02 |
| 2014/3/18 | 21:02:49 | 2.45 | 62.95 |
| 2014/3/18 | 21:07:49 | 0.66 | 47.47 |
| 2014/3/18 | 21:12:49 | 0.66 | 67.74 |
| 2014/3/18 | 21:17:49 | 0.02 | 207.47 |
| 2014/3/18 | 21:22:49 | 0.29 | 136.38 |
| 2014/3/18 | 21:27:49 | 0.02 | 130.14 |
| 2014/3/18 | 21:32:49 | 0.02 | 6.35 |
| 2014/3/18 | 21:37:49 | 0.02 | 158.22 |
| 2014/3/18 | 21:42:49 | 0.02 | 182.06 |
| 2014/3/18 | 21:47:49 | 0.02 | 27.86 |
| 2014/3/18 | 21:52:49 | 0.76 | 60.95 |
| 2014/3/18 | 21:57:49 | 0.02 | 262.40 |
| 2014/3/18 | 22:02:49 | 0.52 | 67.52 |
| 2014/3/18 | 22:07:49 | 0.02 | 36.66 |
| 2014/3/18 | 22:12:49 | 0.05 | 94.82 |
| 2014/3/18 | 22:17:49 | 0.02 | 29.75 |
| 2014/3/18 | 22:22:49 | 0.02 | 301.06 |
| 2014/3/18 | 22:27:49 | 0.02 | 62.40 |
| 2014/3/18 | 22:32:49 | 0.02 | 80.45 |
| 2014/3/18 | 22:37:49 | 0.02 | 170.58 |
| 2014/3/18 | 22:42:49 | 0.02 | 61.95 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-------------|---------------------|-------------------------|--------------------------------|
| 2014/3/18 | 22:47:49 | 0.02 | 41.34 |
| 2014/3/18 | 22:52:49 | 0.73 | 69.30 |
| 2014/3/18 | 22:57:49 | 0.02 | 22.95 |
| 2014/3/18 | 23:02:49 | 0.02 | 21.50 |
| 2014/3/18 | 23:07:49 | 0.89 | 86.02 |
| 2014/3/18 | 23:12:49 | 0.03 | 119.67 |
| 2014/3/18 | 23:17:49 | 0.02 | 141.39 |
| 2014/3/18 | 23:22:49 | 0.02 | 52.37 |
| 2014/3/18 | 23:27:49 | 0.02 | 119.11 |
| 2014/3/18 | 23:32:49 | 0.02 | 112.65 |
| 2014/3/18 | 23:37:49 | 0.02 | 121.45 |
| 2014/3/18 | 23:42:49 | 0.02 | 100.06 |
| 2014/3/18 | 23:47:49 | 0.02 | 119.67 |
| 2014/3/18 | 23:52:49 | 0.02 | 48.25 |
| 2014/3/18 | 23:57:49 | 0.02 | 154.76 |
| 2014/3/24 | 00:02:49 | 1.94 | 105.74 |
| 2014/3/24 | 00:07:49 | 0.87 | 243.12 |
| 2014/3/24 | 00:12:49 | 0.09 | 175.38 |
| 2014/3/24 | 00:17:49 | 0.50 | 188.52 |
| 2014/3/24 | 00:22:49 | 1.01 | 203.57 |
| 2014/3/24 | 00:27:49 | 0.35 | 223.96 |
| 2014/3/24 | 00:32:49 | 1.09 | 116.88 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/24 | 00:37:49 | 0.58 | 257.83 |
| 2014/3/24 | 00:42:49 | 0.37 | 333.59 |
| 2014/3/24 | 00:47:49 | 2.03 | 151.31 |
| 2014/3/24 | 00:52:49 | 1.13 | 165.01 |
| 2014/3/24 | 00:57:49 | 0.02 | 126.13 |
| 2014/3/24 | 01:02:49 | 0.05 | 180.72 |
| 2014/3/24 | 01:07:49 | 0.41 | 197.99 |
| 2014/3/24 | 01:12:49 | 0.76 | 198.33 |
| 2014/3/24 | 01:17:49 | 4.01 | 170.81 |
| 2014/3/24 | 01:22:49 | 1.88 | 221.95 |
| 2014/3/24 | 01:27:49 | 4.59 | 129.03 |
| 2014/3/24 | 01:32:49 | 1.61 | 154.54 |
| 2014/3/24 | 01:37:49 | 0.86 | 79.11 |
| 2014/3/24 | 01:42:49 | 1.50 | 170.36 |
| 2014/3/24 | 01:47:49 | 1.99 | 274.54 |
| 2014/3/24 | 01:52:49 | 1.04 | 80.67 |
| 2014/3/24 | 01:57:49 | 1.59 | 150.75 |
| 2014/3/24 | 02:02:49 | 2.89 | 126.91 |
| 2014/3/24 | 02:07:49 | 1.06 | 57.49 |
| 2014/3/24 | 02:12:49 | 0.80 | 199.78 |
| 2014/3/24 | 02:17:49 | 1.38 | 164.12 |
| 2014/3/24 | 02:22:49 | 1.36 | 204.23 |
| 2014/3/24 | 02:27:49 | 1.32 | 151.98 |
| 2014/3/24 | 02:32:49 | 0.02 | 109.86 |
| 2014/3/24 | 02:37:49 | 2.26 | 142.73 |
| 2014/3/24 | 02:42:49 | 0.41 | 215.38 |
| 2014/3/24 | 02:47:49 | 3.27 | 187.19 |
| 2014/3/24 | 02:52:49 | 1.15 | 199.55 |
| 2014/3/24 | 02:57:49 | 2.23 | 145.07 |
| 2014/3/24 | 03:02:49 | 1.33 | 232.09 |
| 2014/3/24 | 03:07:49 | 2.20 | 196.32 |
| 2014/3/24 | 03:12:49 | 0.02 | 196.55 |
| 2014/3/24 | 03:17:49 | 1.58 | 39.00 |
| 2014/3/24 | 03:22:49 | 0.90 | 77.10 |
| 2014/3/24 | 03:27:49 | 1.01 | 74.99 |
| 2014/3/24 | 03:32:49 | 0.24 | 144.18 |
| 2014/3/24 | 03:37:49 | 0.49 | 131.36 |
| 2014/3/24 | 03:42:49 | 2.52 | 129.14 |
| 2014/3/24 | 03:47:49 | 0.14 | 182.84 |
| 2014/3/24 | 03:52:49 | 0.02 | 74.65 |
| 2014/3/24 | 03:57:49 | 0.02 | 39.89 |
| 2014/3/24 | 04:02:49 | 0.55 | 138.27 |
| 2014/3/24 | 04:07:49 | 2.34 | 199.78 |
| 2014/3/24 | 04:12:49 | 0.46 | 151.75 |
| 2014/3/24 | 04:17:49 | 1.77 | 158.77 |
| 2014/3/24 | 04:22:49 | 0.76 | 39.67 |
| 2014/3/24 | 04:27:49 | 0.40 | 282.23 |
| 2014/3/24 | 04:32:49 | 1.13 | 255.93 |
| 2014/3/24 | 04:37:49 | 1.27 | 150.75 |
| 2014/3/24 | 04:42:49 | 0.81 | 134.60 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/24 | 04:47:49 | 1.71 | 42.56 |
| 2014/3/24 | 04:52:49 | 0.24 | 190.42 |
| 2014/3/24 | 04:57:49 | 3.50 | 143.40 |
| 2014/3/24 | 05:02:49 | 0.02 | 160.33 |
| 2014/3/24 | 05:07:49 | 2.39 | 57.05 |
| 2014/3/24 | 05:12:49 | 0.03 | 205.91 |
| 2014/3/24 | 05:17:49 | 1.30 | 225.52 |
| 2014/3/24 | 05:22:49 | 0.57 | 172.26 |
| 2014/3/24 | 05:27:49 | 0.69 | 182.28 |
| 2014/3/24 | 05:32:49 | 0.92 | 235.10 |
| 2014/3/24 | 05:37:49 | 0.86 | 251.25 |
| 2014/3/24 | 05:42:49 | 1.10 | 142.28 |
| 2014/3/24 | 05:47:49 | 0.02 | 186.85 |
| 2014/3/24 | 05:52:49 | 2.05 | 257.60 |
| 2014/3/24 | 05:57:49 | 0.12 | 354.65 |
| 2014/3/24 | 06:02:49 | 1.51 | 87.02 |
| 2014/3/24 | 06:07:49 | 0.66 | 344.74 |
| 2014/3/24 | 06:12:49 | 2.26 | 155.43 |
| 2014/3/24 | 06:17:49 | 0.11 | 164.12 |
| 2014/3/24 | 06:22:49 | 0.06 | 92.59 |
| 2014/3/24 | 06:27:49 | 1.71 | 197.33 |
| 2014/3/24 | 06:32:49 | 0.49 | 216.60 |
| 2014/3/24 | 06:37:49 | 0.52 | 105.29 |
| 2014/3/24 | 06:42:49 | 1.13 | 250.03 |
| 2014/3/24 | 06:47:49 | 0.02 | 247.69 |
| 2014/3/24 | 06:52:49 | 1.28 | 185.29 |
| 2014/3/24 | 06:57:49 | 1.09 | 229.30 |
| 2014/3/24 | 07:02:49 | 0.89 | 234.21 |
| 2014/3/24 | 07:07:49 | 1.61 | 163.90 |
| 2014/3/24 | 07:12:49 | 0.26 | 107.97 |
| 2014/3/24 | 07:17:49 | 0.63 | 95.60 |
| 2014/3/24 | 07:22:49 | 0.89 | 292.37 |
| 2014/3/24 | 07:27:49 | 0.72 | 310.97 |
| 2014/3/24 | 07:32:49 | 0.17 | 112.20 |
| 2014/3/24 | 07:37:49 | 0.05 | 260.17 |
| 2014/3/24 | 07:42:49 | 0.02 | 199.00 |
| 2014/3/24 | 07:47:49 | 0.02 | 67.08 |
| 2014/3/24 | 07:52:49 | 0.03 | 235.43 |
| 2014/3/24 | 07:57:49 | 0.35 | 39.55 |
| 2014/3/24 | 08:02:49 | 0.38 | 143.18 |
| 2014/3/24 | 08:07:49 | 0.02 | 40.00 |
| 2014/3/24 | 08:12:49 | 1.07 | 138.38 |
| 2014/3/24 | 08:17:49 | 1.62 | 120.00 |
| 2014/3/24 | 08:22:49 | 0.14 | 22.06 |
| 2014/3/24 | 08:27:49 | 0.17 | 240.11 |
| 2014/3/24 | 08:32:49 | 0.12 | 172.92 |
| 2014/3/24 | 08:37:49 | 0.09 | 64.62 |
| 2014/3/24 | 08:42:49 | 0.12 | 110.86 |
| 2014/3/24 | 08:47:49 | 2.02 | 55.82 |
| 2014/3/24 | 08:52:49 | 2.13 | 106.63 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/24 | 08:57:49 | 0.84 | 153.20 |
| 2014/3/24 | 09:02:49 | 1.74 | 73.76 |
| 2014/3/24 | 09:07:49 | 0.96 | 103.73 |
| 2014/3/24 | 09:12:49 | 0.03 | 42.56 |
| 2014/3/24 | 09:17:49 | 0.05 | 307.86 |
| 2014/3/24 | 09:22:49 | 0.02 | 54.26 |
| 2014/3/24 | 09:27:49 | 0.54 | 61.73 |
| 2014/3/24 | 09:32:49 | 1.06 | 76.88 |
| 2014/3/24 | 09:37:49 | 0.96 | 58.61 |
| 2014/3/24 | 09:42:49 | 0.21 | 55.71 |
| 2014/3/24 | 09:47:49 | 0.67 | 99.61 |
| 2014/3/24 | 09:52:49 | 0.03 | 148.75 |
| 2014/3/24 | 09:57:49 | 0.83 | 92.14 |
| 2014/3/24 | 10:02:49 | 1.68 | 45.13 |
| 2014/3/24 | 10:07:49 | 0.02 | 150.97 |
| 2014/3/24 | 10:12:49 | 3.23 | 70.31 |
| 2014/3/24 | 10:17:49 | 0.02 | 49.25 |
| 2014/3/24 | 10:22:49 | 3.73 | 67.19 |
| 2014/3/24 | 10:27:49 | 4.37 | 45.57 |
| 2014/3/24 | 10:32:49 | 0.61 | 286.69 |
| 2014/3/24 | 10:37:49 | 0.02 | 134.37 |
| 2014/3/24 | 10:42:49 | 3.23 | 133.37 |
| 2014/3/24 | 10:45:39 | 0.06 | 88.25 |
| 2014/3/24 | 10:50:39 | 1.87 | 112.42 |
| 2014/3/24 | 10:55:39 | 1.88 | 72.09 |
| 2014/3/24 | 11:05:39 | 2.11 | 82.01 |
| 2014/3/24 | 11:10:39 | 1.96 | 73.20 |
| 2014/3/24 | 11:15:39 | 0.18 | 191.64 |
| 2014/3/24 | 11:20:39 | 0.90 | 60.95 |
| 2014/3/24 | 11:25:39 | 0.37 | 101.17 |
| 2014/3/24 | 11:30:39 | 0.86 | 121.89 |
| 2014/3/24 | 11:35:39 | 0.32 | 18.61 |
| 2014/3/24 | 11:40:39 | 2.25 | 45.57 |
| 2014/3/24 | 11:45:39 | 0.21 | 46.24 |
| 2014/3/24 | 11:50:39 | 0.50 | 108.64 |
| 2014/3/24 | 11:55:39 | 0.29 | 161.45 |
| 2014/3/24 | 12:00:39 | 0.32 | 52.26 |
| 2014/3/24 | 12:05:39 | 0.08 | 89.47 |
| 2014/3/24 | 12:10:39 | 0.02 | 50.25 |
| 2014/3/24 | 12:15:39 | 2.00 | 120.89 |
| 2014/3/24 | 12:20:39 | 0.32 | 81.89 |
| 2014/3/24 | 12:25:39 | 0.02 | 70.75 |
| 2014/3/24 | 12:30:39 | 2.20 | 84.68 |
| 2014/3/24 | 12:35:39 | 1.96 | 67.41 |
| 2014/3/24 | 12:40:39 | 0.02 | 77.10 |
| 2014/3/24 | 12:45:39 | 0.03 | 127.47 |
| 2014/3/24 | 12:50:39 | 0.14 | 36.66 |
| 2014/3/24 | 12:55:39 | 0.02 | 59.61 |
| 2014/3/24 | 13:00:39 | 0.02 | 193.65 |
| 2014/3/24 | 13:05:39 | 0.14 | 47.02 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/24 | 13:10:39 | 0.21 | 140.61 |
| 2014/3/24 | 13:15:39 | 0.02 | 146.63 |
| 2014/3/24 | 13:20:39 | 0.55 | 55.82 |
| 2014/3/24 | 13:25:39 | 1.99 | 7.47 |
| 2014/3/24 | 13:30:39 | 2.92 | 80.67 |
| 2014/3/24 | 13:35:39 | 0.02 | 113.87 |
| 2014/3/24 | 13:40:39 | 0.02 | 38.66 |
| 2014/3/24 | 13:45:39 | 0.89 | 128.02 |
| 2014/3/24 | 13:50:39 | 2.06 | 71.42 |
| 2014/3/24 | 13:55:39 | 0.02 | 157.88 |
| 2014/3/24 | 14:00:39 | 0.02 | 168.80 |
| 2014/3/24 | 14:05:39 | 0.05 | 111.98 |
| 2014/3/24 | 14:10:39 | 0.02 | 96.38 |
| 2014/3/24 | 14:15:39 | 0.40 | 64.07 |
| 2014/3/24 | 14:20:39 | 0.02 | 218.16 |
| 2014/3/24 | 14:25:39 | 0.55 | 62.28 |
| 2014/3/24 | 14:30:39 | 2.26 | 144.51 |
| 2014/3/24 | 14:35:39 | 0.02 | 297.83 |
| 2014/3/24 | 14:40:39 | 0.35 | 133.26 |
| 2014/3/24 | 14:45:39 | 0.29 | 241.78 |
| 2014/3/24 | 14:50:39 | 0.02 | 80.78 |
| 2014/3/24 | 14:55:39 | 0.61 | 58.27 |
| 2014/3/24 | 15:00:39 | 1.54 | 76.55 |
| 2014/3/24 | 15:05:39 | 0.02 | 232.87 |
| 2014/3/24 | 15:10:39 | 0.02 | 193.98 |
| 2014/3/24 | 15:15:39 | 1.32 | 71.31 |
| 2014/3/24 | 15:20:39 | 0.37 | 249.36 |
| 2014/3/24 | 15:25:39 | 0.02 | 7.69 |
| 2014/3/24 | 15:30:39 | 0.02 | 58.50 |
| 2014/3/24 | 15:35:39 | 1.35 | 146.74 |
| 2014/3/24 | 15:40:39 | 0.02 | 143.84 |
| 2014/3/24 | 15:45:39 | 0.40 | 72.98 |
| 2014/3/24 | 15:50:39 | 0.32 | 63.73 |
| 2014/3/24 | 15:55:39 | 0.02 | 49.47 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/24 | 16:00:39 | 0.18 | 100.39 |
| 2014/3/24 | 16:05:39 | 0.20 | 112.20 |
| 2014/3/24 | 16:10:39 | 1.02 | 158.22 |
| 2014/3/24 | 16:15:39 | 0.12 | 210.92 |
| 2014/3/24 | 16:20:39 | 0.98 | 54.04 |
| 2014/3/24 | 16:25:39 | 0.03 | 200.11 |
| 2014/3/24 | 16:30:39 | 0.43 | 146.18 |
| 2014/3/24 | 16:35:39 | 0.02 | 228.75 |
| 2014/3/24 | 16:40:39 | 0.14 | 145.74 |
| 2014/3/24 | 16:45:39 | 0.02 | 146.41 |
| 2014/3/24 | 16:50:39 | 0.02 | 120.33 |
| 2014/3/24 | 16:55:39 | 0.02 | 56.16 |
| 2014/3/24 | 17:00:39 | 0.23 | 166.35 |
| 2014/3/24 | 17:05:39 | 0.02 | 66.18 |
| 2014/3/24 | 17:10:39 | 0.02 | 178.27 |
| 2014/3/24 | 17:15:39 | 0.02 | 213.93 |
| 2014/3/24 | 17:20:39 | 0.02 | 81.67 |
| 2014/3/24 | 17:25:39 | 0.02 | 183.84 |
| 2014/3/24 | 17:30:39 | 0.05 | 119.78 |
| 2014/3/24 | 17:35:39 | 0.03 | 159.55 |
| 2014/3/24 | 17:40:39 | 0.02 | 217.05 |
| 2014/3/24 | 17:45:39 | 0.02 | 148.19 |
| 2014/3/24 | 17:50:39 | 0.09 | 184.85 |
| 2014/3/24 | 17:55:39 | 1.35 | 176.04 |
| 2014/3/24 | 18:00:39 | 0.05 | 178.50 |
| 2014/3/24 | 18:05:39 | 1.99 | 157.10 |
| 2014/3/24 | 18:10:39 | 0.14 | 200.67 |
| 2014/3/24 | 18:15:39 | 0.61 | 82.45 |
| 2014/3/24 | 18:20:39 | 0.02 | 181.50 |
| 2014/3/24 | 18:25:39 | 0.44 | 218.27 |
| 2014/3/24 | 18:30:39 | 0.02 | 244.68 |
| 2014/3/24 | 18:35:39 | 0.02 | 20.06 |
| 2014/3/24 | 18:40:39 | 0.02 | 34.54 |
| 2014/3/24 | 18:45:39 | 0.02 | 129.25 |
| 2014/3/24 | 18:50:39 | 0.02 | 64.18 |
| 2014/3/24 | 18:55:39 | 0.24 | 91.92 |
| 2014/3/24 | 19:00:39 | 0.02 | 112.65 |
| 2014/3/24 | 19:05:39 | 0.02 | 133.82 |
| 2014/3/24 | 19:10:39 | 0.20 | 131.03 |
| 2014/3/24 | 19:15:39 | 0.02 | 181.17 |
| 2014/3/24 | 19:20:39 | 0.02 | 85.68 |
| 2014/3/24 | 19:25:39 | 0.02 | 156.88 |
| 2014/3/24 | 19:30:39 | 0.02 | 72.76 |
| 2014/3/24 | 19:35:39 | 0.02 | 48.02 |
| 2014/3/24 | 19:40:39 | 0.02 | 68.52 |
| 2014/3/24 | 19:45:39 | 0.02 | 94.93 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/24 | 19:50:39 | 0.02 | 63.18 |
| 2014/3/24 | 19:55:39 | 0.02 | 84.23 |
| 2014/3/24 | 20:00:39 | 0.02 | 44.01 |
| 2014/3/24 | 20:05:39 | 0.02 | 134.82 |
| 2014/3/24 | 20:10:39 | 0.17 | 144.18 |
| 2014/3/24 | 20:15:39 | 0.02 | 89.92 |
| 2014/3/24 | 20:20:39 | 0.02 | 79.00 |
| 2014/3/24 | 20:25:39 | 0.02 | 119.67 |
| 2014/3/24 | 20:30:39 | 0.28 | 68.30 |
| 2014/3/24 | 20:35:39 | 0.02 | 96.49 |
| 2014/3/24 | 20:40:39 | 0.37 | 71.87 |
| 2014/3/24 | 20:45:39 | 0.02 | 122.90 |
| 2014/3/24 | 20:50:39 | 0.02 | 351.87 |
| 2014/3/24 | 20:55:39 | 0.02 | 113.43 |
| 2014/3/24 | 21:00:39 | 0.21 | 77.66 |
| 2014/3/24 | 21:05:39 | 0.09 | 58.16 |
| 2014/3/24 | 21:10:39 | 0.02 | 246.35 |
| 2014/3/24 | 21:15:39 | 0.02 | 56.16 |
| 2014/3/24 | 21:20:39 | 0.40 | 68.08 |
| 2014/3/24 | 21:25:39 | 0.02 | 38.22 |
| 2014/3/24 | 21:30:39 | 0.78 | 138.27 |
| 2014/3/24 | 21:35:39 | 0.61 | 22.06 |
| 2014/3/24 | 21:40:39 | 0.02 | 143.18 |
| 2014/3/24 | 21:45:39 | 0.02 | 85.68 |
| 2014/3/24 | 21:50:39 | 0.06 | 77.66 |
| 2014/3/24 | 21:55:39 | 0.02 | 106.41 |
| 2014/3/24 | 22:00:39 | 1.10 | 121.23 |
| 2014/3/24 | 22:05:39 | 1.21 | 73.65 |
| 2014/3/24 | 22:10:39 | 1.42 | 101.39 |
| 2014/3/24 | 22:15:39 | 1.07 | 65.18 |
| 2014/3/24 | 22:20:39 | 0.02 | 79.55 |
| 2014/3/24 | 22:25:39 | 0.02 | 113.09 |
| 2014/3/24 | 22:30:39 | 0.99 | 125.13 |
| 2014/3/24 | 22:35:39 | 0.41 | 161.00 |
| 2014/3/24 | 22:40:39 | 1.06 | 62.73 |
| 2014/3/24 | 22:45:39 | 0.93 | 52.70 |
| 2014/3/24 | 22:50:39 | 0.75 | 114.21 |
| 2014/3/24 | 22:55:39 | 0.02 | 320.00 |
| 2014/3/24 | 23:00:39 | 1.87 | 159.89 |
| 2014/3/24 | 23:05:39 | 2.20 | 155.65 |
| 2014/3/24 | 23:10:39 | 0.14 | 120.45 |
| 2014/3/24 | 23:15:39 | 0.06 | 209.03 |
| 2014/3/24 | 23:20:39 | 0.87 | 137.16 |
| 2014/3/24 | 23:25:39 | 0.54 | 142.17 |
| 2014/3/24 | 23:30:39 | 0.75 | 272.76 |
| 2014/3/24 | 23:35:39 | 0.02 | 61.73 |
| 2014/3/24 | 23:40:39 | 0.02 | 311.42 |
| 2014/3/24 | 23:45:39 | 0.05 | 313.76 |
| 2014/3/24 | 23:50:39 | 0.58 | 185.96 |
| 2014/3/24 | 23:55:39 | 0.05 | 89.58 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/28 | 00:00:39 | 0.06 | 47.02 |
| 2014/3/28 | 00:05:39 | 0.02 | 174.82 |
| 2014/3/28 | 00:10:39 | 0.96 | 53.70 |
| 2014/3/28 | 00:15:39 | 0.38 | 338.50 |
| 2014/3/28 | 00:20:39 | 0.37 | 151.98 |
| 2014/3/28 | 00:25:39 | 1.97 | 220.95 |
| 2014/3/28 | 00:30:39 | 1.97 | 38.66 |
| 2014/3/28 | 00:35:39 | 1.79 | 233.43 |
| 2014/3/28 | 00:40:39 | 1.64 | 151.42 |
| 2014/3/28 | 00:45:39 | 0.02 | 181.50 |
| 2014/3/28 | 00:50:39 | 0.02 | 244.79 |
| 2014/3/28 | 00:55:39 | 0.64 | 32.53 |
| 2014/3/28 | 01:00:39 | 0.02 | 109.30 |
| 2014/3/28 | 01:05:39 | 0.31 | 168.25 |
| 2014/3/28 | 01:10:39 | 0.17 | 118.66 |
| 2014/3/28 | 01:15:39 | 1.30 | 57.94 |
| 2014/3/28 | 01:20:39 | 0.55 | 43.45 |
| 2014/3/28 | 01:25:39 | 2.26 | 71.09 |
| 2014/3/28 | 01:30:39 | 0.02 | 70.64 |
| 2014/3/28 | 01:35:39 | 0.18 | 64.62 |
| 2014/3/28 | 01:40:39 | 0.02 | 344.85 |
| 2014/3/28 | 01:45:39 | 0.02 | 31.53 |
| 2014/3/28 | 01:50:39 | 0.43 | 89.36 |
| 2014/3/28 | 01:55:39 | 0.02 | 73.31 |
| 2014/3/28 | 02:00:39 | 0.32 | 28.64 |
| 2014/3/28 | 02:05:39 | 0.02 | 90.36 |
| 2014/3/28 | 02:10:39 | 0.02 | 65.52 |
| 2014/3/28 | 02:15:39 | 0.02 | 117.33 |
| 2014/3/28 | 02:20:39 | 0.08 | 56.71 |
| 2014/3/28 | 02:25:39 | 0.02 | 106.74 |
| 2014/3/28 | 02:30:39 | 0.02 | 27.41 |
| 2014/3/28 | 02:35:39 | 0.02 | 135.49 |
| 2014/3/28 | 02:40:39 | 1.12 | 166.13 |
| 2014/3/28 | 02:45:39 | 0.02 | 82.90 |
| 2014/3/28 | 02:50:39 | 0.83 | 43.12 |
| 2014/3/28 | 02:55:39 | 0.02 | 340.06 |
| 2014/3/28 | 03:00:39 | 0.02 | 188.64 |
| 2014/3/28 | 03:05:39 | 0.02 | 108.30 |
| 2014/3/28 | 03:10:39 | 0.05 | 61.73 |
| 2014/3/28 | 03:15:39 | 0.02 | 47.69 |
| 2014/3/28 | 03:20:39 | 0.29 | 41.00 |
| 2014/3/28 | 03:25:39 | 0.14 | 9.58 |
| 2014/3/28 | 03:30:39 | 0.24 | 2.23 |
| 2014/3/28 | 03:35:39 | 0.02 | 303.18 |
| 2014/3/28 | 03:40:39 | 0.50 | 20.17 |
| 2014/3/28 | 03:45:39 | 1.16 | 58.61 |
| 2014/3/28 | 03:50:39 | 0.02 | 51.81 |
| 2014/3/28 | 03:55:39 | 0.02 | 145.96 |
| 2014/3/28 | 04:00:39 | 0.02 | 145.63 |
| 2014/3/28 | 04:05:39 | 0.02 | 145.85 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/28 | 04:10:39 | 0.02 | 118.33 |
| 2014/3/28 | 04:15:39 | 0.02 | 99.50 |
| 2014/3/28 | 04:20:39 | 0.86 | 159.55 |
| 2014/3/28 | 04:25:39 | 0.69 | 207.13 |
| 2014/3/28 | 04:30:39 | 0.02 | 53.04 |
| 2014/3/28 | 04:35:39 | 0.02 | 60.50 |
| 2014/3/28 | 04:40:39 | 0.02 | 132.81 |
| 2014/3/28 | 04:45:39 | 0.23 | 227.41 |
| 2014/3/28 | 04:50:39 | 1.24 | 156.77 |
| 2014/3/28 | 04:55:39 | 0.49 | 207.69 |
| 2014/3/28 | 05:00:39 | 1.22 | 134.48 |
| 2014/3/28 | 05:05:39 | 0.34 | 195.99 |
| 2014/3/28 | 05:10:39 | 0.24 | 51.48 |
| 2014/3/28 | 05:15:39 | 0.52 | 54.04 |
| 2014/3/28 | 05:20:39 | 0.02 | 55.15 |
| 2014/3/28 | 05:25:39 | 0.37 | 59.28 |
| 2014/3/28 | 05:30:39 | 0.05 | 69.53 |
| 2014/3/28 | 05:35:39 | 0.72 | 110.08 |
| 2014/3/28 | 05:40:39 | 0.02 | 111.53 |
| 2014/3/28 | 05:45:39 | 0.02 | 30.42 |
| 2014/3/28 | 05:50:39 | 0.52 | 49.69 |
| 2014/3/28 | 05:55:39 | 0.02 | 88.80 |
| 2014/3/28 | 06:00:39 | 1.36 | 64.29 |
| 2014/3/28 | 06:05:39 | 0.02 | 65.18 |
| 2014/3/28 | 06:10:39 | 1.21 | 75.88 |
| 2014/3/28 | 06:15:39 | 1.76 | 129.14 |
| 2014/3/28 | 06:20:39 | 0.80 | 91.81 |
| 2014/3/28 | 06:25:39 | 0.03 | 166.35 |
| 2014/3/28 | 06:30:39 | 0.93 | 65.40 |
| 2014/3/28 | 06:35:39 | 0.02 | 33.98 |
| 2014/3/28 | 06:40:39 | 1.07 | 188.41 |
| 2014/3/28 | 06:45:39 | 0.02 | 64.18 |
| 2014/3/28 | 06:50:39 | 0.67 | 59.16 |
| 2014/3/28 | 06:55:39 | 1.01 | 68.97 |
| 2014/3/28 | 07:00:39 | 1.85 | 105.52 |
| 2014/3/28 | 07:05:39 | 0.02 | 348.19 |
| 2014/3/28 | 07:10:39 | 0.02 | 242.34 |
| 2014/3/28 | 07:15:39 | 0.24 | 241.78 |
| 2014/3/28 | 07:20:39 | 1.76 | 110.75 |
| 2014/3/28 | 07:25:39 | 0.12 | 128.91 |
| 2014/3/28 | 07:30:39 | 3.06 | 216.04 |
| 2014/3/28 | 07:35:39 | 0.61 | 101.50 |
| 2014/3/28 | 07:40:39 | 2.05 | 172.37 |
| 2014/3/28 | 07:45:39 | 0.96 | 294.04 |
| 2014/3/28 | 07:50:39 | 0.52 | 199.11 |
| 2014/3/28 | 07:55:39 | 1.90 | 204.12 |
| 2014/3/28 | 08:00:39 | 0.66 | 177.05 |
| 2014/3/28 | 08:05:39 | 0.18 | 100.50 |
| 2014/3/28 | 08:10:39 | 0.52 | 54.48 |
| 2014/3/28 | 08:15:39 | 1.41 | 155.99 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/28 | 08:20:39 | 0.31 | 85.01 |
| 2014/3/28 | 08:25:39 | 0.03 | 177.72 |
| 2014/3/28 | 08:30:39 | 0.02 | 299.83 |
| 2014/3/28 | 08:35:39 | 1.74 | 123.23 |
| 2014/3/28 | 08:40:39 | 1.16 | 64.51 |
| 2014/3/28 | 08:45:39 | 0.34 | 95.38 |
| 2014/3/28 | 08:50:39 | 0.83 | 153.43 |
| 2014/3/28 | 08:55:39 | 0.02 | 47.13 |
| 2014/3/28 | 09:00:39 | 2.86 | 78.33 |
| 2014/3/28 | 09:05:39 | 0.47 | 87.35 |
| 2014/3/28 | 09:10:39 | 0.02 | 107.63 |
| 2014/3/28 | 09:15:39 | 0.02 | 122.45 |
| 2014/3/28 | 09:20:39 | 0.02 | 130.14 |
| 2014/3/28 | 09:25:39 | 0.41 | 125.24 |
| 2014/3/28 | 09:30:39 | 0.06 | 146.18 |
| 2014/3/28 | 09:35:39 | 0.02 | 55.49 |
| 2014/3/28 | 09:40:39 | 0.02 | 100.72 |
| 2014/3/28 | 09:45:39 | 2.20 | 69.53 |
| 2014/3/28 | 09:50:39 | 0.72 | 136.60 |
| 2014/3/28 | 09:55:39 | 1.67 | 193.09 |
| 2014/3/28 | 10:00:39 | 0.70 | 134.04 |
| 2014/3/28 | 10:05:39 | 0.02 | 118.33 |
| 2014/3/28 | 10:10:39 | 0.02 | 51.36 |
| 2014/3/28 | 10:15:39 | 0.02 | 140.39 |
| 2014/3/28 | 10:20:39 | 1.12 | 132.92 |
| 2014/3/28 | 10:25:39 | 0.34 | 109.97 |
| 2014/3/28 | 10:30:39 | 0.02 | 108.19 |
| 2014/3/28 | 10:35:39 | 0.02 | 303.96 |
| 2014/3/28 | 10:40:39 | 0.02 | 274.76 |
| 2014/3/28 | 10:45:39 | 0.47 | 163.01 |
| 2014/3/28 | 10:50:39 | 0.17 | 165.24 |
| 2014/3/28 | 10:55:39 | 0.02 | 13.04 |
| 2014/3/28 | 11:00:39 | 2.17 | 129.36 |
| 2014/3/28 | 11:05:39 | 0.34 | 150.86 |
| 2014/3/28 | 11:10:39 | 1.48 | 156.99 |
| 2014/3/28 | 11:15:39 | 1.96 | 79.11 |
| 2014/3/28 | 11:20:39 | 0.02 | 32.42 |
| 2014/3/28 | 11:25:39 | 2.55 | 161.11 |
| 2014/3/28 | 11:30:39 | 0.37 | 156.32 |
| 2014/3/28 | 11:35:39 | 2.13 | 142.17 |
| 2014/3/28 | 11:40:39 | 0.02 | 194.43 |
| 2014/3/28 | 11:45:39 | 1.32 | 175.49 |
| 2014/3/28 | 11:50:39 | 0.50 | 108.97 |
| 2014/3/28 | 11:55:39 | 2.31 | 181.06 |
| 2014/3/28 | 12:00:39 | 0.02 | 155.54 |
| 2014/3/28 | 12:05:39 | 0.76 | 122.56 |
| 2014/3/28 | 12:10:39 | 0.02 | 57.94 |
| 2014/3/28 | 12:15:39 | 1.16 | 204.23 |
| 2014/3/28 | 12:20:39 | 1.61 | 160.67 |
| 2014/3/28 | 12:25:39 | 0.35 | 147.86 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/28 | 12:30:39 | 0.23 | 49.14 |
| 2014/3/28 | 12:35:39 | 0.40 | 64.62 |
| 2014/3/28 | 12:40:39 | 1.06 | 159.78 |
| 2014/3/28 | 12:45:39 | 0.21 | 167.02 |
| 2014/3/28 | 12:50:39 | 0.63 | 355.77 |
| 2014/3/28 | 12:55:39 | 0.03 | 122.67 |
| 2014/3/28 | 13:00:39 | 0.38 | 75.65 |
| 2014/3/28 | 13:05:39 | 0.09 | 224.29 |
| 2014/3/28 | 13:10:39 | 0.02 | 102.51 |
| 2014/3/28 | 13:15:39 | 2.14 | 141.84 |
| 2014/3/28 | 13:20:39 | 3.35 | 184.07 |
| 2014/3/28 | 13:25:39 | 0.84 | 203.68 |
| 2014/3/28 | 13:30:39 | 2.19 | 245.46 |
| 2014/3/28 | 13:35:39 | 2.10 | 166.69 |
| 2014/3/28 | 13:40:39 | 0.18 | 45.01 |
| 2014/3/28 | 13:45:39 | 1.04 | 201.11 |
| 2014/3/28 | 13:50:39 | 0.02 | 76.43 |
| 2014/3/28 | 13:55:39 | 0.47 | 181.62 |
| 2014/3/28 | 14:00:39 | 0.28 | 97.60 |
| 2014/3/28 | 14:05:39 | 0.00 | 24.85 |
| 2014/3/28 | 14:10:39 | 0.02 | 146.96 |
| 2014/3/28 | 14:15:39 | 0.02 | 85.68 |
| 2014/3/28 | 14:20:39 | 0.02 | 109.64 |
| 2014/3/28 | 14:25:39 | 0.02 | 78.89 |
| 2014/3/28 | 14:30:39 | 0.84 | 85.01 |
| 2014/3/28 | 14:35:39 | 0.40 | 7.13 |
| 2014/3/28 | 14:40:39 | 0.02 | 236.10 |
| 2014/3/28 | 14:45:39 | 0.81 | 64.40 |
| 2014/3/28 | 14:50:39 | 0.02 | 91.48 |
| 2014/3/28 | 14:55:39 | 1.82 | 161.56 |
| 2014/3/28 | 15:00:39 | 0.06 | 174.48 |
| 2014/3/28 | 15:05:39 | 0.02 | 270.64 |
| 2014/3/28 | 15:10:39 | 0.03 | 192.42 |
| 2014/3/28 | 15:15:39 | 1.28 | 69.53 |
| 2014/3/28 | 15:20:39 | 0.02 | 91.25 |
| 2014/3/28 | 15:25:39 | 0.18 | 74.65 |
| 2014/3/28 | 15:30:39 | 0.06 | 49.36 |
| 2014/3/28 | 15:35:39 | 0.02 | 76.99 |
| 2014/3/28 | 15:40:39 | 0.02 | 139.94 |
| 2014/3/28 | 15:45:39 | 0.02 | 121.89 |
| 2014/3/28 | 15:50:39 | 0.02 | 343.96 |
| 2014/3/28 | 15:55:39 | 0.02 | 63.18 |
| 2014/3/28 | 16:00:39 | 0.06 | 95.26 |
| 2014/3/28 | 16:05:39 | 0.02 | 257.94 |
| 2014/3/28 | 16:10:39 | 0.89 | 96.27 |
| 2014/3/28 | 16:15:39 | 0.03 | 38.55 |
| 2014/3/28 | 16:20:39 | 0.54 | 103.73 |
| 2014/3/28 | 16:25:39 | 0.08 | 60.06 |
| 2014/3/28 | 16:30:39 | 1.01 | 52.26 |
| 2014/3/28 | 16:35:39 | 0.52 | 114.54 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/28 | 16:40:39 | 0.61 | 145.63 |
| 2014/3/28 | 16:45:39 | 0.66 | 33.98 |
| 2014/3/28 | 16:50:39 | 1.68 | 84.46 |
| 2014/3/28 | 16:55:39 | 0.02 | 99.94 |
| 2014/3/28 | 17:00:39 | 0.02 | 96.04 |
| 2014/3/28 | 17:05:39 | 0.14 | 54.60 |
| 2014/3/28 | 17:10:39 | 0.29 | 74.76 |
| 2014/3/28 | 17:15:39 | 0.76 | 139.61 |
| 2014/3/28 | 17:20:39 | 1.71 | 79.78 |
| 2014/3/28 | 17:25:39 | 0.15 | 102.17 |
| 2014/3/28 | 17:30:39 | 0.02 | 323.12 |
| 2014/3/28 | 17:35:39 | 1.10 | 138.61 |
| 2014/3/28 | 17:40:39 | 0.02 | 86.69 |
| 2014/3/28 | 17:45:39 | 0.15 | 113.20 |
| 2014/3/28 | 17:50:39 | 0.72 | 71.42 |
| 2014/3/28 | 17:55:39 | 0.02 | 129.25 |
| 2014/3/28 | 18:00:39 | 0.02 | 118.22 |
| 2014/3/28 | 18:05:39 | 0.02 | 72.42 |
| 2014/3/28 | 18:10:39 | 0.46 | 111.87 |
| 2014/3/28 | 18:15:39 | 0.02 | 102.17 |
| 2014/3/28 | 18:20:39 | 0.06 | 126.91 |
| 2014/3/28 | 18:25:39 | 0.89 | 80.00 |
| 2014/3/28 | 18:30:39 | 0.02 | 89.36 |
| 2014/3/28 | 18:35:39 | 0.02 | 134.48 |
| 2014/3/28 | 18:40:39 | 0.28 | 99.39 |
| 2014/3/28 | 18:45:39 | 0.02 | 45.68 |
| 2014/3/28 | 18:50:39 | 0.02 | 60.72 |
| 2014/3/28 | 18:55:39 | 0.03 | 167.91 |
| 2014/3/28 | 19:00:39 | 0.02 | 170.25 |
| 2014/3/28 | 19:05:39 | 0.02 | 143.40 |
| 2014/3/28 | 19:10:39 | 0.28 | 248.91 |
| 2014/3/28 | 19:15:39 | 0.02 | 263.18 |
| 2014/3/28 | 19:20:39 | 0.41 | 136.16 |
| 2014/3/28 | 19:25:39 | 0.26 | 155.77 |
| 2014/3/28 | 19:30:39 | 0.67 | 235.99 |
| 2014/3/28 | 19:35:39 | 0.02 | 79.33 |
| 2014/3/28 | 19:40:39 | 0.02 | 189.86 |
| 2014/3/28 | 19:45:39 | 0.03 | 197.21 |
| 2014/3/28 | 19:50:39 | 0.02 | 157.55 |
| 2014/3/28 | 19:55:39 | 0.02 | 154.43 |
| 2014/3/28 | 20:00:39 | 0.06 | 237.66 |
| 2014/3/28 | 20:05:39 | 0.02 | 197.21 |
| 2014/3/28 | 20:10:39 | 0.02 | 169.81 |
| 2014/3/28 | 20:15:39 | 0.02 | 230.31 |
| 2014/3/28 | 20:20:39 | 0.02 | 155.43 |
| 2014/3/28 | 20:25:39 | 0.35 | 174.60 |
| 2014/3/28 | 20:30:39 | 0.02 | 220.39 |
| 2014/3/28 | 20:35:39 | 0.02 | 139.94 |
| 2014/3/28 | 20:40:39 | 0.02 | 156.32 |
| 2014/3/28 | 20:45:39 | 0.02 | 345.29 |

Appendix H Meteorological Data for Impact Monitoring in the reporting period

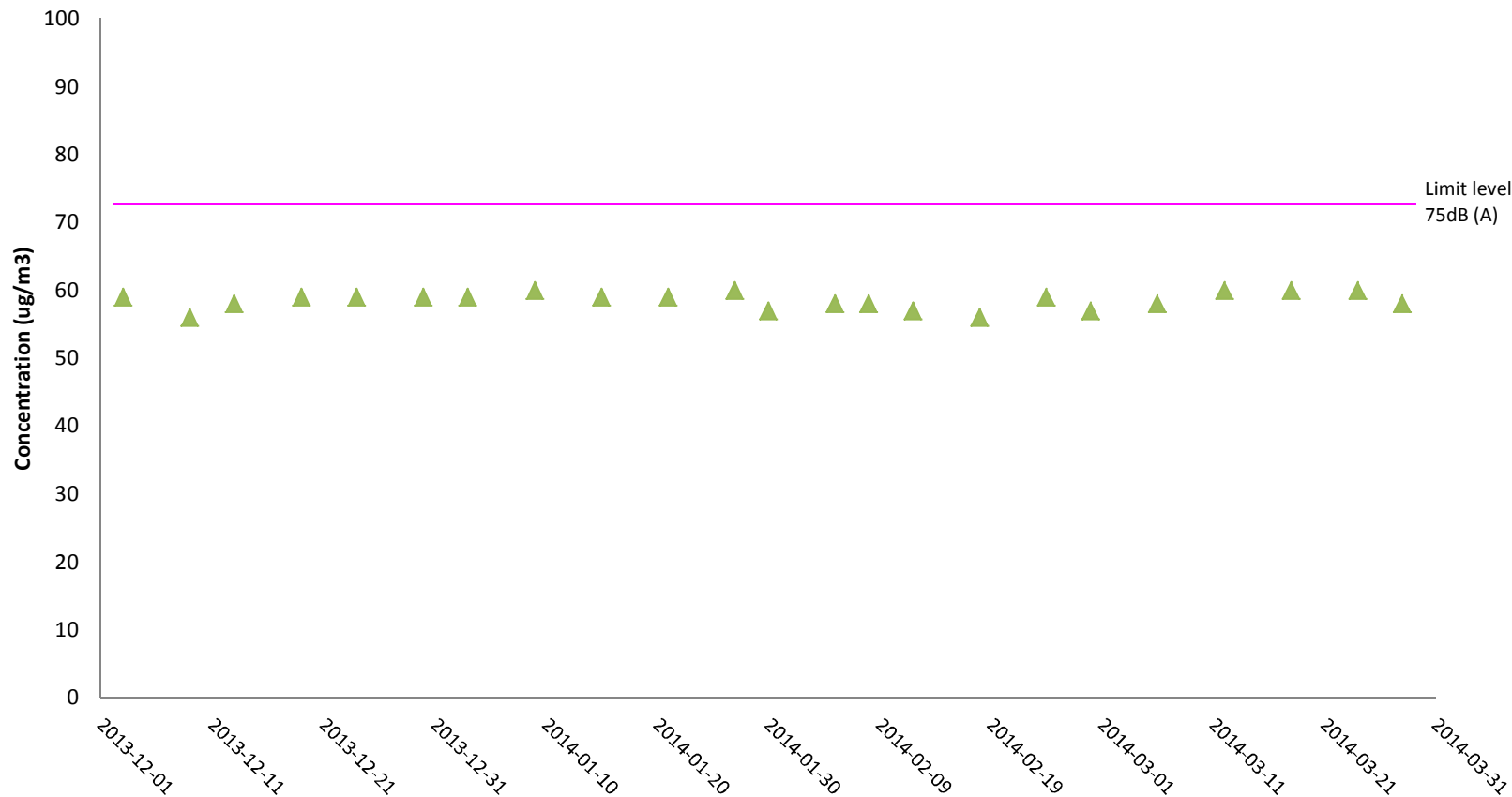
| Date | Time (24hrs) | Wind Speed (m/s) | Wind Direction (degree) |
|-----------|--------------|------------------|-------------------------|
| 2014/3/28 | 20:50:39 | 0.02 | 155.65 |
| 2014/3/28 | 20:55:39 | 0.09 | 194.99 |
| 2014/3/28 | 21:00:39 | 0.03 | 107.74 |
| 2014/3/28 | 21:05:39 | 0.02 | 237.99 |
| 2014/3/28 | 21:10:39 | 0.02 | 170.58 |
| 2014/3/28 | 21:15:39 | 0.02 | 163.68 |
| 2014/3/28 | 21:20:39 | 0.02 | 185.18 |
| 2014/3/28 | 21:25:39 | 0.02 | 164.46 |
| 2014/3/28 | 21:30:39 | 0.02 | 213.70 |
| 2014/3/28 | 21:35:39 | 0.02 | 198.44 |
| 2014/3/28 | 21:40:39 | 0.78 | 200.33 |
| 2014/3/28 | 21:45:39 | 0.02 | 1.23 |
| 2014/3/28 | 21:50:39 | 0.02 | 236.99 |
| 2014/3/28 | 21:55:39 | 0.02 | 253.70 |
| 2014/3/28 | 22:00:39 | 0.02 | 207.69 |
| 2014/3/28 | 22:05:39 | 0.11 | 118.77 |
| 2014/3/28 | 22:10:39 | 0.02 | 103.29 |
| 2014/3/28 | 22:15:39 | 0.02 | 195.77 |
| 2014/3/28 | 22:20:39 | 0.02 | 80.22 |
| 2014/3/28 | 22:25:39 | 0.02 | 121.89 |
| 2014/3/28 | 22:30:39 | 0.02 | 158.55 |
| 2014/3/28 | 22:35:39 | 0.02 | 94.93 |
| 2014/3/28 | 22:40:39 | 0.02 | 105.29 |
| 2014/3/28 | 22:45:39 | 0.14 | 133.04 |
| 2014/3/28 | 22:50:39 | 0.02 | 87.02 |
| 2014/3/28 | 22:55:39 | 0.03 | 121.89 |
| 2014/3/28 | 23:00:39 | 0.02 | 88.80 |
| 2014/3/28 | 23:05:39 | 0.02 | 72.65 |
| 2014/3/28 | 23:10:39 | 0.02 | 99.72 |
| 2014/3/28 | 23:15:39 | 0.06 | 146.85 |
| 2014/3/28 | 23:20:39 | 0.03 | 116.10 |
| 2014/3/28 | 23:25:39 | 0.02 | 107.74 |
| 2014/3/28 | 23:30:39 | 0.02 | 127.35 |
| 2014/3/28 | 23:35:39 | 0.15 | 128.58 |
| 2014/3/28 | 23:40:39 | 0.02 | 133.70 |
| 2014/3/28 | 23:45:39 | 0.02 | 126.80 |
| 2014/3/28 | 23:50:39 | 0.02 | 194.32 |
| 2014/3/28 | 23:55:39 | 0.02 | 78.66 |

Appendix I

Impact Noise Monitoring Results and Graphical Presentation

| Project | Works | Date (yyyy-mm-dd) | Station | Weather Condition | Time (hh:mm, 24hour) | Noise Level for 30-min, dB(A) | | | Limit Level dB(A) | Temp (° C) | Wind Speed (m/s) | Noise Meter Model/ID | Calibrator Model/ID |
|---------|------------|-------------------|---------|-------------------|----------------------|-------------------------------|-----|-----|----------------------|---------------|---------------------|-----------------------------|-----------------------------|
| | | | | | | Leq | L10 | L90 | | | | | |
| TMCLKL | HY/2012/07 | 2014-03-06 | NSR1 | Cloudy | 9:42 | 58 | 60 | 54 | 75 | 16 | 0.4 | RION NL31 (S/N 00410224) | RION NC73 (S/N 10997142) |
| TMCLKL | HY/2012/07 | 2014-03-12 | NSR1 | Cloudy | 9:35 | 60 | 64 | 54 | 75 | 18 | 0.2 | RION NL31 (S/N 00410224) | RION NC73 (S/N 10997142) |
| TMCLKL | HY/2012/07 | 2014-03-18 | NSR1 | Sunny | 9:42 | 60 | 63 | 54 | 75 | 25 | 0.2 | RION NL31 (S/N 00410224) | RION NC73 (S/N 10997142) |
| TMCLKL | HY/2012/07 | 2014-03-24 | NSR1 | Sunny | 9:50 | 60 | 63 | 52 | 75 | 23 | 0.2 | RION NL31 (S/N 00410224) | RION NC73 (S/N 10997142) |
| TMCLKL | HY/2012/07 | 2014-03-28 | NSR1 | Sunny | 9:40 | 58 | 62 | 52 | 75 | 22 | 0.3 | RION NL31 (S/N 00410224) | RION NC73 (S/N 10997142) |
| | | | | | | Min. | 58 | | | | | | |
| | | | | | | Max. | 60 | | | | | | |
| | | | | | | Average | 59 | | | | | | |

Noise Monitoring Results at NSR 1 (L_{eq}, 30min)



Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 17:09 | 17.2 | 7.9 | 26.8 | 7.52 | 3.49 | 2.90 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 17:09 | 17.2 | 7.9 | 26.8 | 7.55 | 3.46 | 3.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 5.4 | 2 | 1 | 17:09 | 17.3 | 7.9 | 26.8 | 7.34 | 3.14 | 4.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 5.4 | 2 | 2 | 17:09 | 17.3 | 7.9 | 26.8 | 7.30 | 3.10 | 3.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 9.8 | 3 | 1 | 17:09 | 17.3 | 7.9 | 26.8 | 7.40 | 3.27 | 6.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 9.8 | 3 | 2 | 17:09 | 17.3 | 7.9 | 26.9 | 7.35 | 3.24 | 3.70 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 17:44 | 17.2 | 7.9 | 26.8 | 7.39 | 3.38 | 2.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 17:44 | 17.1 | 7.9 | 26.8 | 7.36 | 3.34 | 2.70 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 17:44 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 17:44 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.8 | 3 | 1 | 17:44 | 17.4 | 7.9 | 26.8 | 7.21 | 3.03 | 3.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.8 | 3 | 2 | 17:44 | 17.4 | 7.9 | 26.8 | 7.18 | 3.06 | 4.50 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 18:14 | 17.2 | 7.9 | 26.8 | 7.41 | 3.44 | 2.50 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 18:14 | 17.2 | 7.9 | 26.8 | 7.43 | 3.40 | 2.80 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 18:14 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 18:14 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4.6 | 3 | 1 | 18:14 | 17.2 | 7.9 | 26.8 | 7.34 | 3.18 | 3.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4.6 | 3 | 2 | 18:14 | 17.2 | 7.9 | 26.8 | 7.30 | 3.15 | 4.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 18:44 | 17.1 | 7.9 | 26.8 | 7.47 | 3.51 | 3.60 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 18:44 | 17.1 | 7.9 | 26.8 | 7.44 | 3.56 | 2.40 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 18:44 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 18:44 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.8 | 3 | 1 | 18:44 | 17.3 | 7.9 | 26.8 | 7.50 | 3.60 | 4.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.8 | 3 | 2 | 18:44 | 17.3 | 7.9 | 26.8 | 7.54 | 3.64 | 5.60 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 19:14 | 17.1 | 7.9 | 26.8 | 7.55 | 3.57 | 3.80 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 19:14 | 17.1 | 7.9 | 26.8 | 7.51 | 3.52 | 4.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.6 | 2 | 1 | 19:14 | 17.2 | 7.9 | 26.9 | 7.47 | 3.40 | 4.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.6 | 2 | 2 | 19:14 | 17.2 | 7.9 | 26.9 | 7.46 | 3.45 | 5.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 8.2 | 3 | 1 | 19:14 | 17.3 | 7.9 | 26.8 | 7.42 | 3.32 | 5.40 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 8.2 | 3 | 2 | 19:14 | 17.3 | 7.9 | 26.8 | 7.39 | 3.35 | 5.70 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 20:00 | 17.1 | 7.9 | 26.8 | 7.40 | 3.19 | 4.00 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 20:00 | 17.1 | 7.9 | 26.8 | 7.44 | 3.16 | 2.50 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 20:00 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 20:00 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.6 | 3 | 1 | 20:00 | 17.2 | 7.9 | 26.9 | 7.28 | 3.22 | 4.50 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.6 | 3 | 2 | 20:00 | 17.2 | 7.9 | 26.9 | 7.24 | 3.17 | 4.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 20:27 | 17.1 | 7.9 | 26.8 | 7.47 | 3.21 | 4.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 20:27 | 17.1 | 7.9 | 26.8 | 7.44 | 3.19 | 3.60 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.4 | 2 | 1 | 20:27 | 17.3 | 7.9 | 26.8 | 7.31 | 3.07 | 3.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.4 | 2 | 2 | 20:27 | 17.3 | 7.9 | 26.8 | 7.29 | 3.01 | 3.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 11.8 | 3 | 1 | 20:27 | 17.3 | 7.9 | 26.9 | 7.36 | 3.34 | 6.40 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 11.8 | 3 | 2 | 20:27 | 17.3 | 7.9 | 26.9 | 7.33 | 3.30 | 4.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 11:29 | 17 | 7.8 | 26.6 | 7.38 | 3.29 | 3.40 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 11:29 | 17 | 7.8 | 26.7 | 7.34 | 3.27 | 5.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.2 | 2 | 1 | 11:29 | 17.1 | 7.8 | 26.8 | 7.22 | 3.15 | 4.00 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.2 | 2 | 2 | 11:29 | 17.2 | 7.8 | 26.7 | 7.20 | 3.09 | 6.00 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 11.4 | 3 | 1 | 11:29 | 17.2 | 7.8 | 26.9 | 7.27 | 3.40 | 3.50 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 11.4 | 3 | 2 | 11:29 | 17.1 | 7.8 | 27.0 | 7.24 | 3.36 | 3.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 14:04 | 17 | 7.8 | 26.7 | 7.30 | 3.44 | 6.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 14:04 | 16.9 | 7.8 | 26.7 | 7.27 | 3.40 | 5.90 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 14:04 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 14:04 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 1 | 14:04 | 17.2 | 7.8 | 26.7 | 7.12 | 3.09 | 6.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 2 | 14:04 | 17.3 | 7.8 | 26.8 | 7.09 | 3.12 | 8.00 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 13:34 | 17.1 | 7.8 | 26.6 | 7.32 | 3.50 | 3.60 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 13:34 | 17 | 7.8 | 26.7 | 7.34 | 3.46 | 3.40 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 13:34 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 13:34 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 4.4 | 3 | 1 | 13:34 | 17.2 | 7.8 | 26.8 | 7.25 | 3.24 | 5.30 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 4.4 | 3 | 2 | 13:34 | 17.1 | 7.8 | 26.9 | 7.21 | 3.21 | 3.90 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 13:04 | 17 | 7.8 | 26.7 | 7.38 | 3.57 | 3.90 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 13:04 | 16.9 | 7.8 | 26.7 | 7.35 | 3.62 | 3.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 13:04 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 13:04 | | | | | | | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 1 | 13:04 | 17.1 | 7.8 | 26.8 | 7.41 | 3.66 | 2.60 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 2 | 13:04 | 17.2 | 7.8 | 26.9 | 7.45 | 3.70 | 4.00 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 12:34 | 17 | 7.8 | 26.7 | 7.46 | 3.63 | 3.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 12:34 | 17 | 7.8 | 26.6 | 7.42 | 3.58 | 3.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.4 | 2 | 1 | 12:34 | 17.2 | 7.8 | 26.8 | 7.38 | 3.46 | 3.10 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.4 | 2 | 2 | 12:34 | 17.1 | 7.8 | 26.7 | 7.37 | 3.51 | 2.00 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.8 | 3 | 1 | 12:34 | 17.2 | 7.8 | 26.9 | 7.33 | 3.38 | 3.20 | 2014-03-12 |
| TM-CLK Southern | HY/2012/07 | 2014-03-01 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.8 | 3 | 2 | 12:34 | 17.3 | 7.8 | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 8:30 | 17.9 | 7.9 | 25.6 | 7.51 | 4.61 | 6.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 8:30 | 17.9 | 7.9 | 25.6 | 7.55 | 4.63 | 4.90 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 1 | 8:30 | 17.8 | 7.9 | 25.7 | 7.49 | 4.85 | 4.20 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 2 | 8:30 | 17.8 | 8.0 | 25.7 | 7.42 | 4.87 | 5.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 1 | 8:30 | 17.7 | 7.8 | 25.7 | 7.14 | 4.96 | 4.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 2 | 8:30 | 17.8 | 7.8 | 25.7 | 7.18 | 4.90 | 4.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 8:49 | 17.9 | 7.9 | 25.7 | 7.33 | 4.24 | 3.80 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 8:49 | 17.8 | 8.0 | 25.7 | 7.37 | 4.21 | 4.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 8:49 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 8:49 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 1 | 8:49 | 17.8 | 8.0 | 25.7 | 7.26 | 4.70 | 3.20 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 2 | 8:49 | 17.8 | 7.9 | 25.8 | 7.20 | 4.74 | 4.30 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 9:08 | 17.9 | 7.8 | 25.7 | 7.26 | 4.10 | 5.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 9:08 | 17.8 | 7.8 | 25.7 | 7.20 | 4.16 | 4.30 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 9:08 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 9:08 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 1 | 9:08 | 17.8 | 7.7 | 25.7 | 7.14 | 4.44 | 4.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 2 | 9:08 | 17.8 | 7.7 | 25.7 | 7.11 | 4.43 | 5.50 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 9:07 | 17.8 | 7.9 | 25.6 | 7.30 | 4.07 | 5.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 9:07 | 17.8 | 7.9 | 25.7 | 7.34 | 4.00 | 4.80 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 9:07 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 9:07 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 1 | 9:07 | 17.7 | 7.9 | 25.7 | 7.06 | 4.93 | 5.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 2 | 9:07 | 17.8 | 7.9 | 25.7 | 7.09 | 4.92 | 5.20 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 9:46 | 17.9 | 7.8 | 25.6 | 7.59 | 4.57 | 4.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 9:46 | 17.8 | 7.9 | 25.7 | 7.54 | 4.59 | 5.20 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 1 | 9:46 | 17.8 | 7.8 | 25.7 | 7.35 | 4.26 | 5.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 2 | 9:46 | 17.8 | 7.8 | 25.7 | 7.31 | 4.20 | 6.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 1 | 9:46 | 17.8 | 7.7 | 25.7 | 7.10 | 4.64 | 4.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 2 | 9:46 | 17.7 | 7.8 | 25.8 | 7.13 | 4.61 | 5.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 10:05 | 17.9 | 7.9 | 25.6 | 7.41 | 4.46 | 4.30 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 10:05 | 17.9 | 7.9 | 25.6 | 7.43 | 4.49 | 4.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 10:05 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 10:05 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4 | 3 | 1 | 10:05 | 17.8 | 7.9 | 25.7 | 7.39 | 4.62 | 5.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4 | 3 | 2 | 10:05 | 17.8 | 7.9 | 25.6 | 7.32 | 4.64 | 5.80 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 10:29 | 17.9 | 7.7 | 25.6 | 7.25 | 4.76 | 4.30 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 10:29 | 17.9 | 7.7 | 25.6 | 7.27 | 4.78 | 5.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5 | 2 | 1 | 10:29 | 17.8 | 7.9 | 25.6 | 7.04 | 4.30 | 4.80 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5 | 2 | 2 | 10:29 | 17.8 | 7.8 | 25.7 | 7.06 | 4.31 | 6.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9 | 3 | 1 | 10:29 | 17.7 | 7.7 | 25.7 | 7.08 | 4.53 | 4.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9 | 3 | 2 | 10:29 | 17.8 | 7.7 | 25.7 | 7.00 | 4.55 | 5.30 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 13:24 | 17.9 | 7.9 | 25.7 | 7.50 | 4.72 | 4.20 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 13:24 | 17.9 | 7.9 | 25.6 | 7.53 | 4.79 | 3.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.9 | 2 | 1 | 13:24 | 17.8 | 7.8 | 25.7 | 7.37 | 4.93 | 3.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.9 | 2 | 2 | 13:24 | 17.8 | 7.9 | 25.7 | 7.38 | 4.96 | 3.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 1 | 13:24 | 17.7 | 7.8 | 25.8 | 7.26 | 4.56 | 4.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 2 | 13:24 | 17.7 | 7.7 | 25.8 | 7.20 | 4.54 | 3.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 15:52 | 17.8 | 7.8 | 25.7 | 7.34 | 4.80 | 4.50 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 15:52 | 17.8 | 7.8 | 25.7 | 7.36 | 4.83 | 5.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 15:52 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 15:52 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 3.6 | 3 | 1 | 15:52 | 17.7 | 7.8 | 25.8 | 7.28 | 4.91 | 4.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 3.6 | 3 | 2 | 15:52 | 17.8 | 7.8 | 25.8 | 7.20 | 4.97 | 5.10 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 15:23 | 17.9 | 7.8 | 25.6 | 7.31 | 4.47 | 4.60 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 15:23 | 17.9 | 7.8 | 25.6 | 7.33 | 4.43 | 4.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 15:23 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 15:23 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 1 | 15:23 | 17.8 | 7.8 | 25.7 | 7.12 | 4.80 | 5.40 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 2 | 15:23 | 17.8 | 7.9 | 25.7 | 7.10 | 4.88 | 4.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 14:54 | 17.9 | 7.9 | 25.6 | 7.36 | 4.32 | 4.60 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 14:54 | 17.8 | 7.9 | 25.6 | 7.30 | 4.33 | 3.90 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 14:54 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 14:54 | | | | | | | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 1 | 14:54 | 17.8 | 7.9 | 25.7 | 7.06 | 4.92 | 4.20 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 2 | 14:54 | 17.8 | 7.9 | 25.6 | 7.09 | 4.99 | 4.90 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 14:24 | 17.9 | 7.9 | 25.7 | 7.64 | 4.23 | 5.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 14:24 | 17.9 | 7.8 | 25.6 | 7.61 | 4.26 | 4.30 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.7 | 2 | 1 | 14:24 | 17.9 | 7.8 | 25.7 | 7.50 | 4.67 | 5.20 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.7 | 2 | 2 | 14:24 | 17.8 | 7.8 | 25.8 | 7.54 | 4.60 | 4.70 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.4 | 3 | 1 | 14:24 | 17.8 | 7.9 | 25.8 | 7.21 | 4.42 | 4.00 | 2014-03-13 |
| TM-CLK Southern | HY/2012/07 | 2014-03-04 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.4 | 3 | 2 | 14:24 | 17.7 | 7.8 | 25.8 | 7.23 | 4.44 | 4.40 | 2014-03-13 |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 8:45 | 17.3 | 7.7 | 25.2 | 7.46 | 5.83 | 7.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 8:45 | 17.4 | 7.7 | 25.3 | 7.51 | 5.92 | 6.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 1 | 8:45 | 17.1 | 7.8 | 25.1 | 7.26 | 6.39 | 6.60 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 2 | 8:45 | 17.2 | 7.7 | 25.4 | 7.29 | 6.42 | 7.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 1 | 8:45 | 17.4 | 7.8 | 25.4 | 7.23 | 6.84 | 8.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 2 | 8:45 | 17.6 | 7.7 | 25.2 | 7.28 | 6.87 | 8.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 9:15 | 17.2 | 7.8 | 25.3 | 7.35 | 5.80 | 6.90 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 9:15 | 17.4 | 7.8 | 25.6 | 7.41 | 5.84 | 7.60 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 9:15 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 9:15 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 1 | 9:15 | 17.5 | 7.7 | 25.2 | 7.29 | 6.73 | 6.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 2 | 9:15 | 17.1 | 7.7 | 25.4 | 7.31 | 6.80 | 7.00 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 9:37 | 17.3 | 7.7 | 25.1 | 7.42 | 7.59 | 6.40 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 9:37 | 17.2 | 7.6 | 25.5 | 7.47 | 7.55 | 7.00 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 9:37 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 9:37 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 1 | 9:37 | 17.6 | 7.7 | 25.3 | 7.35 | 6.80 | 6.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 2 | 9:37 | 17.4 | 7.7 | 25.4 | 7.31 | 6.79 | 7.10 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 9:59 | 17.4 | 7.9 | 25.2 | 7.80 | 6.43 | 6.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 9:59 | 17.2 | 7.9 | 25.1 | 7.83 | 6.42 | 6.80 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 9:59 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 9:59 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 1 | 9:59 | 17.1 | 7.7 | 25.3 | 7.20 | 5.90 | 4.90 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 2 | 9:59 | 17.4 | 7.7 | 25.1 | 7.11 | 5.93 | 6.90 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 10:21 | 17.1 | 7.8 | 25.2 | 7.85 | 5.29 | 7.00 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 10:21 | 17.3 | 7.8 | 25.3 | 7.81 | 5.32 | 6.70 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 1 | 10:21 | 17.6 | 7.8 | 25.1 | 7.71 | 6.10 | 5.40 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 2 | 10:21 | 17.3 | 7.7 | 25.4 | 7.69 | 6.13 | 6.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 1 | 10:21 | 17.6 | 7.8 | 25.3 | 7.32 | 6.89 | 6.80 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 2 | 10:21 | 17.4 | 7.7 | 25.4 | 7.44 | 6.90 | 6.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 10:48 | 17.5 | 7.9 | 25.2 | 7.47 | 6.14 | 6.70 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 10:48 | 17.3 | 7.9 | 25.1 | 7.44 | 6.20 | 5.90 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 10:48 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 10:48 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.1 | 3 | 1 | 10:48 | 17.5 | 7.8 | 25.4 | 7.06 | 7.00 | 7.10 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.1 | 3 | 2 | 10:48 | 17.1 | 7.8 | 25.5 | 7.10 | 6.92 | 5.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 11:16 | 17.4 | 7.8 | 25.2 | 7.47 | 5.40 | 6.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 11:16 | 17.4 | 7.8 | 25.2 | 7.45 | 5.47 | 5.60 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5 | 2 | 1 | 11:16 | 17.5 | 7.7 | 25.4 | 7.33 | 6.72 | 6.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5 | 2 | 2 | 11:16 | 17.3 | 7.7 | 25.3 | 7.32 | 6.68 | 6.60 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9 | 3 | 1 | 11:16 | 17.3 | 7.8 | 25.5 | 7.21 | 7.00 | 6.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9 | 3 | 2 | 11:16 | 17.6 | 7.8 | 25.7 | 7.18 | 7.02 | 6.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 14:50 | 17.6 | 8.0 | 25.3 | 7.36 | 5.49 | 6.40 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 14:50 | 17.5 | 8.0 | 25.4 | 7.40 | 5.56 | 6.40 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.9 | 2 | 1 | 14:50 | 17.6 | 7.9 | 25.6 | 7.28 | 6.77 | 6.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.9 | 2 | 2 | 14:50 | 17.6 | 8.0 | 25.5 | 7.29 | 6.81 | 7.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 1 | 14:50 | 17.6 | 7.9 | 25.7 | 7.17 | 7.09 | 7.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 2 | 14:50 | 17.7 | 7.8 | 25.8 | 7.11 | 7.11 | 8.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 17:25 | 17.7 | 7.9 | 25.4 | 7.25 | 6.64 | 6.40 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 17:25 | 17.6 | 7.9 | 25.5 | 7.27 | 5.47 | 7.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 17:25 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 17:25 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 3.8 | 3 | 1 | 17:25 | 17.7 | 7.9 | 25.7 | 7.19 | 6.89 | 7.80 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 3.8 | 3 | 2 | 17:25 | 17.8 | 7.9 | 25.6 | 7.11 | 6.95 | 7.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 16:55 | 17.6 | 7.9 | 25.5 | 7.22 | 7.62 | 7.10 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 16:55 | 17.7 | 7.9 | 25.5 | 7.24 | 7.38 | 6.70 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 16:55 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 16:55 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 1 | 16:55 | 17.8 | 7.9 | 25.6 | 7.03 | 6.02 | 7.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 2 | 16:55 | 17.8 | 8.0 | 25.5 | 7.01 | 7.84 | 7.30 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 16:25 | 17.6 | 8.0 | 25.5 | 7.27 | 5.53 | 4.40 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 16:25 | 17.6 | 8.0 | 25.4 | 7.21 | 6.53 | 4.20 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 16:25 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 16:25 | | | | | | | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 1 | 16:25 | 17.7 | 8.0 | 25.6 | 6.97 | 6.08 | 4.40 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 2 | 16:25 | 17.6 | 8.0 | 25.5 | 7.00 | 5.36 | 4.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 15:55 | 17.6 | 8.0 | 25.4 | 7.55 | 5.59 | 4.90 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 15:55 | 17.7 | 7.9 | 25.4 | 7.52 | 5.63 | 4.90 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 1 | 15:55 | 17.7 | 7.9 | 25.5 | 7.41 | 6.17 | 6.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 2 | 15:55 | 17.6 | 7.9 | 25.4 | 7.45 | 6.21 | 6.50 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 1 | 15:55 | 17.7 | 8.0 | 25.7 | 7.12 | 6.99 | 8.00 | 2014-03-17 |
| TM-CLK Southern | HY/2012/07 | 2014-03-06 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 2 | 15:55 | 17.8 | 7.9 | 25.6 | 7.14 | 7.09 | 7.30 | 2014- |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 9:15 | 17.6 | 7.8 | 25.2 | 7.47 | 4.36 | 4.30 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 9:15 | 17.5 | 7.8 | 25.3 | 7.49 | 4.39 | 3.50 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 1 | 9:15 | 17.6 | 7.8 | 25.4 | 7.31 | 4.85 | 5.00 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 2 | 9:15 | 17.6 | 7.8 | 25.3 | 7.33 | 4.98 | 4.20 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 1 | 9:15 | 17.6 | 7.8 | 25.4 | 7.25 | 5.11 | 5.20 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 2 | 9:15 | 17.7 | 7.9 | 25.5 | 7.18 | 5.16 | 7.20 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 9:50 | 17.6 | 7.8 | 25.4 | 7.40 | 4.50 | 5.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 9:50 | 17.6 | 7.9 | 25.3 | 7.42 | 4.55 | 6.20 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 9:50 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 9:50 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 1 | 9:50 | 17.7 | 7.8 | 25.5 | 7.34 | 4.88 | 5.40 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 2 | 9:50 | 17.6 | 7.8 | 25.6 | 7.26 | 4.83 | 5.30 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 10:20 | 17.5 | 7.8 | 25.4 | 7.37 | 4.41 | 5.00 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 10:20 | 17.6 | 7.9 | 25.3 | 7.39 | 4.39 | 5.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 10:20 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 10:20 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 1 | 10:20 | 17.7 | 7.9 | 25.5 | 7.18 | 5.02 | 6.00 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 2 | 10:20 | 17.6 | 7.9 | 25.4 | 7.16 | 4.97 | 5.60 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 10:50 | 17.4 | 8.0 | 25.4 | 7.42 | 4.63 | 4.30 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 10:50 | 17.5 | 7.9 | 25.4 | 7.36 | 4.59 | 4.50 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 10:50 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 10:50 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 1 | 10:50 | 17.6 | 7.9 | 25.6 | 7.12 | 5.09 | 3.10 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.6 | 3 | 2 | 10:50 | 17.7 | 7.9 | 25.5 | 7.15 | 5.12 | 4.60 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 11:20 | 17.6 | 7.9 | 25.3 | 7.70 | 4.21 | 4.50 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 11:20 | 17.5 | 7.9 | 25.2 | 7.67 | 4.18 | 4.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.2 | 2 | 1 | 11:20 | 17.6 | 7.8 | 25.4 | 7.56 | 4.47 | 4.50 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.2 | 2 | 2 | 11:20 | 17.7 | 7.8 | 25.3 | 7.60 | 4.53 | 4.20 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.4 | 3 | 1 | 11:20 | 17.7 | 7.9 | 25.5 | 7.27 | 4.90 | 3.60 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.4 | 3 | 2 | 11:20 | 17.6 | 7.9 | 25.4 | 7.29 | 5.05 | 3.60 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 11:50 | 17.4 | 7.9 | 25.3 | 7.57 | 4.43 | 4.70 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 11:50 | 17.5 | 7.9 | 25.2 | 7.54 | 4.58 | 4.80 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 11:50 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 11:50 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.2 | 3 | 1 | 11:50 | 17.5 | 7.8 | 25.5 | 7.21 | 4.99 | 4.30 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.2 | 3 | 2 | 11:50 | 17.6 | 7.8 | 25.4 | 7.17 | 4.91 | 3.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 12:25 | 17.5 | 7.9 | 25.2 | 7.51 | 4.22 | 4.20 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 12:25 | 17.4 | 8.0 | 25.3 | 7.55 | 4.28 | 3.30 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.2 | 2 | 1 | 12:25 | 17.5 | 7.9 | 25.4 | 7.43 | 4.58 | 2.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.2 | 2 | 2 | 12:25 | 17.6 | 7.9 | 25.3 | 7.44 | 4.61 | 2.40 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.4 | 3 | 1 | 12:25 | 17.6 | 7.8 | 25.5 | 7.32 | 5.01 | 3.20 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.4 | 3 | 2 | 12:25 | 17.5 | 7.8 | 25.6 | 7.26 | 4.95 | 4.10 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 16:42 | 17.6 | 8.0 | 25.4 | 7.42 | 4.28 | 4.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 16:42 | 17.5 | 8.1 | 25.4 | 7.46 | 4.34 | 4.70 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.9 | 2 | 1 | 16:42 | 17.6 | 7.9 | 25.5 | 7.34 | 4.64 | 4.60 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.9 | 2 | 2 | 16:42 | 17.5 | 8.0 | 25.6 | 7.35 | 4.67 | 4.70 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 1 | 16:42 | 17.7 | 7.9 | 25.7 | 7.23 | 5.07 | 4.80 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 2 | 16:42 | 17.8 | 7.8 | 25.6 | 7.17 | 5.01 | 6.00 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 19:17 | 17.7 | 7.9 | 25.5 | 7.31 | 4.56 | 4.30 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 19:17 | 17.6 | 7.9 | 25.4 | 7.33 | 4.61 | 3.70 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 19:17 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 19:17 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 1 | 19:17 | 17.8 | 7.9 | 25.7 | 7.25 | 4.94 | 2.40 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 2 | 19:17 | 17.9 | 7.9 | 25.6 | 7.17 | 4.89 | 4.50 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 18:47 | 17.6 | 7.9 | 25.5 | 7.28 | 4.47 | 4.60 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 18:47 | 17.6 | 7.9 | 25.6 | 7.30 | 4.45 | 3.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 18:47 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 18:47 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 1 | 18:47 | 17.8 | 7.9 | 25.8 | 7.09 | 5.08 | 4.00 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 2 | 18:47 | 17.7 | 8.0 | 25.7 | 7.07 | 5.03 | 3.40 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 18:17 | 17.7 | 8.0 | 25.4 | 7.33 | 4.69 | 3.80 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 18:17 | 17.6 | 8.0 | 25.5 | 7.27 | 4.65 | 4.00 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 18:17 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 18:17 | | | | | | | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 1 | 18:17 | 17.7 | 8.0 | 25.7 | 7.03 | 5.15 | 4.50 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 2 | 18:17 | 17.8 | 8.0 | 25.7 | 7.06 | 5.18 | 3.30 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 17:47 | 17.6 | 8.0 | 25.4 | 7.61 | 4.27 | 4.50 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 17:47 | 17.7 | 7.9 | 25.3 | 7.64 | 4.24 | 4.70 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 1 | 17:47 | 17.7 | 7.9 | 25.5 | 7.47 | 4.53 | 3.90 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 2 | 17:47 | 17.8 | 7.9 | 25.6 | 7.51 | 4.59 | 3.70 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 1 | 17:47 | 17.8 | 8.0 | 25.6 | 7.18 | 4.96 | 5.70 | 2014-03-18 |
| TM-CLK Southern | HY/2012/07 | 2014-03-08 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 2 | 17:47 | 17.7 | 7.9 | 25.5</ | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|---------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 13:08 | 17.3 | 7.8 | 25.5 | 7.29 | 3.92 | 3.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 13:08 | 17.2 | 7.8 | 25.6 | 7.31 | 3.95 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 1 | 13:08 | 17.3 | 7.8 | 25.6 | 7.13 | 4.16 | 3.30 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.9 | 2 | 2 | 13:08 | 17.2 | 7.9 | 25.7 | 7.15 | 4.22 | 4.20 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 1 | 13:08 | 17.3 | 7.9 | 25.8 | 7.07 | 3.19 | 3.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.8 | 3 | 2 | 13:08 | 17.4 | 7.9 | 25.7 | 7.00 | 3.24 | 5.20 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 13:43 | 17.1 | 7.9 | 25.6 | 7.22 | 4.00 | 2.30 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 13:43 | 17.2 | 7.9 | 25.7 | 7.24 | 4.05 | 2.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 13:43 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 13:43 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 1 | 13:43 | 17.3 | 7.9 | 25.8 | 7.16 | 3.78 | 2.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 2 | 13:43 | 17.2 | 7.9 | 25.7 | 7.08 | 3.70 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 14:13 | 17.2 | 7.9 | 25.5 | 7.19 | 11.60 | 10.60 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 14:13 | 17.3 | 7.9 | 25.4 | 7.21 | 11.90 | 10.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 14:13 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 14:13 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4.2 | 3 | 1 | 14:13 | 17.3 | 7.9 | 25.6 | 7.00 | 10.80 | 11.70 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4.2 | 3 | 2 | 14:13 | 17.4 | 7.9 | 25.5 | 6.98 | 11.50 | 11.10 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 14:43 | 17.3 | 8.0 | 25.6 | 7.24 | 12.10 | 11.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 14:43 | 17.2 | 8.0 | 25.5 | 7.18 | 10.50 | 11.30 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 14:43 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 14:43 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.8 | 3 | 1 | 14:43 | 17.3 | 8.0 | 25.7 | 6.94 | 10.40 | 10.20 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.8 | 3 | 2 | 14:43 | 17.4 | 8.0 | 25.6 | 6.97 | 9.70 | 9.30 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 15:13 | 17.2 | 7.9 | 25.7 | 7.52 | 4.03 | 3.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 15:13 | 17.3 | 7.9 | 25.6 | 7.55 | 4.00 | 2.80 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.3 | 2 | 1 | 15:13 | 17.4 | 7.9 | 25.7 | 7.38 | 3.42 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.3 | 2 | 2 | 15:13 | 17.3 | 7.9 | 25.7 | 7.42 | 3.40 | 2.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.6 | 3 | 1 | 15:13 | 17.4 | 7.9 | 25.8 | 7.09 | 3.19 | 2.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.6 | 3 | 2 | 15:13 | 17.4 | 7.9 | 25.7 | 7.11 | 3.08 | 2.10 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 16:18 | 17.2 | 7.9 | 25.6 | 7.48 | 4.06 | 2.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 16:18 | 17.1 | 7.8 | 25.6 | 7.45 | 4.11 | 2.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 16:18 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 16:18 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 3.8 | 3 | 1 | 16:18 | 17.3 | 7.7 | 25.7 | 7.12 | 3.70 | 4.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 3.8 | 3 | 2 | 16:18 | 17.4 | 7.7 | 25.6 | 7.08 | 3.76 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 15:43 | 17.1 | 7.9 | 25.5 | 7.42 | 4.04 | 4.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 15:43 | 17 | 8.0 | 25.6 | 7.46 | 4.10 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.3 | 2 | 1 | 15:43 | 17.1 | 7.8 | 25.6 | 7.34 | 4.51 | 4.20 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.3 | 2 | 2 | 15:43 | 17.2 | 7.9 | 25.7 | 7.35 | 4.68 | 3.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.6 | 3 | 1 | 15:43 | 17.3 | 7.8 | 25.8 | 7.23 | 4.90 | 4.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.6 | 3 | 2 | 15:43 | 17.4 | 7.8 | 25.7 | 7.17 | 4.99 | 2.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 10:10 | 17 | 7.9 | 25.5 | 7.36 | 4.13 | 2.10 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 10:10 | 17 | 7.9 | 25.4 | 7.40 | 4.19 | 4.20 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.1 | 2 | 1 | 10:10 | 17.1 | 7.8 | 25.6 | 7.28 | 4.60 | 2.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.1 | 2 | 2 | 10:10 | 17 | 7.8 | 25.5 | 7.29 | 4.77 | 2.60 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.2 | 3 | 1 | 10:10 | 17.2 | 7.7 | 25.7 | 7.17 | 4.99 | 2.30 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.2 | 3 | 2 | 10:10 | 17.3 | 7.7 | 25.7 | 7.11 | 5.08 | 2.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 10:49 | 17.1 | 7.8 | 25.5 | 7.16 | 4.09 | 3.20 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 10:49 | 17.1 | 7.8 | 25.6 | 7.18 | 4.14 | 3.30 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 10:49 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 10:49 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 1 | 10:49 | 17.3 | 7.8 | 25.6 | 7.10 | 3.87 | 2.90 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 2 | 10:49 | 17.2 | 7.8 | 25.7 | 7.02 | 3.79 | 3.40 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 10:42 | 17.1 | 7.8 | 25.6 | 7.13 | 12.50 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 10:42 | 17.1 | 7.9 | 25.5 | 7.15 | 12.80 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 10:42 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 10:42 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.8 | 3 | 1 | 10:42 | 17.3 | 7.8 | 25.7 | 6.94 | 11.70 | 2.90 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.8 | 3 | 2 | 10:42 | 17.2 | 7.9 | 25.6 | 6.92 | 12.40 | 3.10 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 10:34 | 17.1 | 7.9 | 25.6 | 7.18 | 13.00 | 3.30 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 10:34 | 17.2 | 7.9 | 25.7 | 7.12 | 11.40 | 3.70 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 10:34 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 10:34 | | | | | | | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.4 | 3 | 1 | 10:34 | 17.4 | 7.9 | 25.7 | 6.88 | 11.30 | 3.60 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.4 | 3 | 2 | 10:34 | 17.3 | 7.9 | 25.8 | 6.91 | 10.60 | 3.10 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 10:26 | 17.2 | 7.9 | 25.6 | 7.46 | 4.12 | 2.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 10:26 | 17.1 | 7.9 | 25.6 | 7.49 | 4.09 | 3.70 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.1 | 2 | 1 | 10:26 | 17.3 | 7.8 | 25.7 | 7.32 | 3.51 | 3.00 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.1 | 2 | 2 | 10:26 | 17.2 | 7.8 | 25.6 | 7.36 | 3.49 | 2.20 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 1 | 10:26 | 17.4 | 7.9 | 25.7 | 7.03 | 3.28 | 3.50 | 2014-03-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-11 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 2 | 10:26</ | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 15:18 | 17.5 | 7.7 | 26.6 | 7.11 | 4.87 | 6.60 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 15:18 | 17.5 | 7.8 | 26.7 | 7.17 | 4.90 | 5.50 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 5.4 | 2 | 1 | 15:18 | 17.4 | 7.8 | 26.8 | 7.10 | 4.97 | 6.00 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 5.4 | 2 | 2 | 15:18 | 17.4 | 7.8 | 26.8 | 7.14 | 4.98 | 6.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 9.8 | 3 | 1 | 15:18 | 17.4 | 7.9 | 26.9 | 7.01 | 5.51 | 6.70 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 9.8 | 3 | 2 | 15:18 | 17.4 | 7.9 | 26.9 | 7.02 | 5.50 | 5.50 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 15:43 | 17.6 | 7.7 | 26.7 | 7.24 | 4.93 | 4.80 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 15:43 | 17.5 | 7.7 | 26.7 | 7.26 | 4.97 | 2.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 15:43 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 15:43 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.6 | 3 | 1 | 15:43 | 17.5 | 7.7 | 26.8 | 7.15 | 5.43 | 4.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.6 | 3 | 2 | 15:43 | 17.5 | 7.7 | 26.9 | 7.16 | 5.41 | 3.60 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 16:08 | 17.4 | 7.8 | 26.6 | 7.36 | 4.91 | 3.60 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 16:08 | 17.5 | 7.9 | 26.6 | 7.30 | 4.93 | 4.10 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 16:08 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 16:08 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 1 | 16:08 | 17.4 | 7.9 | 26.7 | 6.94 | 4.81 | 4.20 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 4 | 3 | 2 | 16:08 | 17.4 | 8.0 | 26.7 | 6.91 | 4.89 | 3.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 16:36 | 17.4 | 7.5 | 26.7 | 7.48 | 4.64 | 3.80 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 16:36 | 17.4 | 7.5 | 26.6 | 7.49 | 4.66 | 4.10 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 16:36 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 16:36 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 1 | 16:36 | 17.4 | 7.9 | 26.7 | 7.14 | 5.14 | 5.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 2 | 16:36 | 17.4 | 7.9 | 26.8 | 7.10 | 5.17 | 5.40 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 17:00 | 17.5 | 7.6 | 26.6 | 7.23 | 4.80 | 3.70 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 17:00 | 17.6 | 7.6 | 26.6 | 7.24 | 4.84 | 4.60 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 1 | 17:00 | 17.5 | 7.7 | 26.7 | 7.01 | 4.42 | 4.20 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 2 | 17:00 | 17.5 | 7.7 | 26.7 | 7.09 | 4.43 | 4.00 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 1 | 17:00 | 17.4 | 7.8 | 26.8 | 7.03 | 5.29 | 4.80 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 2 | 17:00 | 17.4 | 7.7 | 26.8 | 7.07 | 5.26 | 5.00 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 17:23 | 17.6 | 7.8 | 26.5 | 7.39 | 4.12 | 3.00 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 17:23 | 17.6 | 7.8 | 26.5 | 7.34 | 4.13 | 3.50 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 17:23 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 17:23 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.2 | 3 | 1 | 17:23 | 17.5 | 7.8 | 26.6 | 7.47 | 4.32 | 4.20 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4.2 | 3 | 2 | 17:23 | 17.5 | 7.8 | 26.6 | 7.41 | 4.39 | 4.20 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 17:58 | 17.6 | 7.7 | 26.6 | 7.14 | 4.53 | 2.80 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 17:58 | 17.5 | 7.7 | 26.6 | 7.18 | 4.56 | 3.70 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.5 | 2 | 1 | 17:58 | 17.5 | 7.7 | 26.7 | 7.23 | 4.67 | 3.40 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.5 | 2 | 2 | 17:58 | 17.5 | 7.7 | 26.7 | 7.29 | 4.60 | 4.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 12 | 3 | 1 | 17:58 | 17.4 | 7.8 | 26.8 | 7.02 | 4.96 | 3.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 12 | 3 | 2 | 17:58 | 17.4 | 7.8 | 26.7 | 7.06 | 4.90 | 2.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 9:51 | 17.5 | 7.8 | 26.6 | 7.47 | 4.62 | 4.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 9:51 | 17.5 | 7.9 | 26.7 | 7.43 | 4.68 | 5.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.1 | 2 | 1 | 9:51 | 17.4 | 7.9 | 26.7 | 7.16 | 4.83 | 6.50 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 6.1 | 2 | 2 | 9:51 | 17.4 | 7.9 | 26.8 | 7.19 | 4.87 | 7.80 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 11.2 | 3 | 1 | 9:51 | 17.4 | 8.0 | 26.8 | 7.04 | 5.58 | 6.60 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 11.2 | 3 | 2 | 9:51 | 17.4 | 8.0 | 26.8 | 7.06 | 5.55 | 5.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 12:20 | 17.6 | 7.8 | 26.6 | 7.26 | 4.26 | 5.70 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 12:20 | 17.5 | 7.8 | 26.5 | 7.25 | 4.27 | 6.50 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 12:20 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 12:20 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 1 | 12:20 | 17.4 | 7.9 | 26.6 | 7.31 | 5.10 | 7.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 2 | 12:20 | 17.4 | 7.9 | 26.7 | 7.33 | 5.14 | 8.10 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 11:50 | 17.4 | 7.7 | 26.8 | 7.62 | 4.71 | 3.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 11:50 | 17.4 | 7.7 | 26.8 | 7.63 | 4.79 | 4.70 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 11:50 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 11:50 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 1 | 11:50 | 17.3 | 7.8 | 26.9 | 7.24 | 4.93 | 5.60 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 2 | 11:50 | 17.4 | 7.8 | 26.9 | 7.26 | 4.90 | 4.30 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 11:20 | 17.4 | 7.7 | 26.9 | 7.50 | 4.96 | 4.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 11:20 | 17.4 | 7.7 | 26.9 | 7.54 | 4.94 | 4.70 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 11:20 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 11:20 | | | | | | | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 1 | 11:20 | 17.3 | 7.9 | 26.9 | 7.41 | 4.99 | 5.70 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 2 | 11:20 | 17.3 | 7.9 | 26.9 | 7.43 | 5.01 | 5.10 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 10:51 | 17.5 | 7.8 | 26.8 | 7.47 | 4.72 | 4.80 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 10:51 | 17.5 | 7.8 | 26.7 | 7.49 | 4.78 | 4.90 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.7 | 2 | 1 | 10:51 | 17.5 | 7.8 | 26.8 | 7.07 | 4.93 | 7.00 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.7 | 2 | 2 | 10:51 | 17.6 | 7.8 | 26.8 | 7.10 | 4.97 | 8.20 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.4 | 3 | 1 | 10:51 | 17.4 | 7.9 | 26.9 | 7.17 | 5.32 | 7.60 | 2014-03-23 |
| TM-CLK Southern | HY/2012/07 | 2014-03-13 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.4 | 3 | 2 | 10:51 | 17.4 | 7.9 | 26.9 | 7. | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)5 | Surface | 1 | 1 | 1 | 16:36 | 17.1 | 7.9 | 25.0 | 7.14 | 7.43 | 6.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)5 | Surface | 1 | 1 | 2 | 16:36 | 17.1 | 7.9 | 25.0 | 7.06 | 7.37 | 6.20 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)5 | Middle | 4.5 | 2 | 1 | 16:36 | 17 | 7.9 | 25.3 | 6.88 | 7.21 | 6.10 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)5 | Middle | 4.5 | 2 | 2 | 16:36 | 17 | 7.9 | 25.3 | 6.94 | 7.16 | 8.30 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)5 | Bottom | 8 | 3 | 1 | 16:36 | 16.9 | 7.9 | 25.6 | 6.78 | 7.03 | 6.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)5 | Bottom | 8 | 3 | 2 | 16:36 | 16.9 | 7.9 | 25.6 | 6.84 | 6.97 | 5.90 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4a | Surface | 1 | 1 | 1 | 17:00 | 17.2 | 7.8 | 25.2 | 6.83 | 6.52 | 6.30 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4a | Surface | 1 | 1 | 2 | 17:00 | 17.1 | 7.8 | 25.2 | 6.85 | 6.46 | 6.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4a | Middle | | 2 | 1 | 17:00 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4a | Middle | | 2 | 2 | 17:00 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4a | Bottom | 4.4 | 3 | 1 | 17:00 | 17.1 | 7.8 | 25.4 | 6.57 | 6.11 | 6.20 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4a | Bottom | 4.4 | 3 | 2 | 17:00 | 17.1 | 7.8 | 25.4 | 6.63 | 6.13 | 6.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4 | Surface | 1 | 1 | 1 | 17:24 | 17.2 | 7.8 | 25.2 | 6.88 | 9.74 | 7.00 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4 | Surface | 1 | 1 | 2 | 17:24 | 17.2 | 7.8 | 25.3 | 6.82 | 9.66 | 6.30 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4 | Middle | | 2 | 1 | 17:24 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4 | Middle | | 2 | 2 | 17:24 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4 | Bottom | 4 | 3 | 1 | 17:24 | 17.1 | 7.8 | 25.6 | 6.59 | 8.43 | 6.10 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | SR4 | Bottom | 4 | 3 | 2 | 17:24 | 17.1 | 7.8 | 25.6 | 6.65 | 8.37 | 6.30 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS8 | Surface | 1 | 1 | 1 | 17:48 | 17.2 | 7.9 | 25.2 | 6.89 | 8.81 | 5.00 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS8 | Surface | 1 | 1 | 2 | 17:48 | 17.2 | 7.9 | 25.3 | 6.94 | 8.71 | 5.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS8 | Middle | | 2 | 1 | 17:48 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS8 | Middle | | 2 | 2 | 17:48 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS8 | Bottom | 4.2 | 3 | 1 | 17:48 | 17.2 | 7.9 | 25.5 | 6.55 | 8.13 | 5.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS8 | Bottom | 4.2 | 3 | 2 | 17:48 | 17.1 | 7.9 | 25.5 | 6.63 | 8.08 | 5.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)16 | Surface | 1 | 1 | 1 | 18:12 | 17.1 | 7.8 | 25.3 | 6.86 | 7.96 | 6.00 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)16 | Surface | 1 | 1 | 2 | 18:12 | 17.1 | 7.9 | 25.3 | 6.90 | 8.04 | 6.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)16 | Middle | 3.9 | 2 | 1 | 18:12 | 17 | 7.9 | 25.4 | 6.84 | 7.84 | 6.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)16 | Middle | 3.9 | 2 | 2 | 18:12 | 17 | 7.9 | 25.4 | 6.80 | 7.80 | 6.80 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)16 | Bottom | 6.8 | 3 | 1 | 18:12 | 17.1 | 7.9 | 25.6 | 6.70 | 7.43 | 6.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)16 | Bottom | 6.8 | 3 | 2 | 18:12 | 17 | 7.9 | 25.6 | 6.66 | 7.47 | 5.10 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)9 | Surface | 1 | 1 | 1 | 18:36 | 17.1 | 7.9 | 25.1 | 6.88 | 6.58 | 5.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)9 | Surface | 1 | 1 | 2 | 18:36 | 17 | 7.9 | 25.2 | 6.90 | 6.64 | 5.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)9 | Middle | | 2 | 1 | 18:36 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)9 | Middle | | 2 | 2 | 18:36 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)9 | Bottom | 3.8 | 3 | 1 | 18:36 | 17.1 | 7.9 | 25.4 | 6.81 | 7.03 | 6.90 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | IS(Mf)9 | Bottom | 3.8 | 3 | 2 | 18:36 | 17.1 | 7.9 | 25.5 | 6.77 | 6.98 | 8.10 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)3 | Surface | 1 | 1 | 1 | 19:00 | 17 | 7.8 | 25.1 | 6.95 | 5.96 | 6.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)3 | Surface | 1 | 1 | 2 | 19:00 | 17 | 7.8 | 25.1 | 6.90 | 6.04 | 6.00 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)3 | Middle | 5.4 | 2 | 1 | 19:00 | 17 | 7.8 | 25.2 | 6.85 | 6.23 | 5.80 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)3 | Middle | 5.4 | 2 | 2 | 19:00 | 17 | 7.8 | 25.3 | 6.81 | 6.30 | 5.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)3 | Bottom | 9.8 | 3 | 1 | 19:00 | 16.9 | 7.8 | 25.6 | 6.74 | 6.56 | 6.10 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Flood | Cloudy | Calm | CS(Mf)3 | Bottom | 9.8 | 3 | 2 | 19:00 | 16.9 | 7.8 | 25.6 | 6.79 | 6.48 | 5.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | CS(Mf)3 | Surface | 1 | 1 | 1 | 10:42 | 17.1 | 7.8 | 25.0 | 6.94 | 6.31 | 6.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | CS(Mf)3 | Surface | 1 | 1 | 2 | 10:42 | 17.2 | 7.8 | 25.0 | 6.90 | 6.37 | 5.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | CS(Mf)3 | Middle | 5.2 | 2 | 1 | 10:42 | 17.2 | 7.8 | 25.1 | 6.83 | 6.68 | 6.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | CS(Mf)3 | Middle | 5.2 | 2 | 2 | 10:42 | 17.3 | 7.8 | 25.2 | 6.81 | 6.72 | 5.90 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | CS(Mf)3 | Bottom | 9.4 | 3 | 1 | 10:42 | 17.3 | 7.8 | 25.3 | 6.63 | 7.34 | 5.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | CS(Mf)3 | Bottom | 9.4 | 3 | 2 | 10:42 | 17.3 | 7.8 | 25.4 | 6.67 | 7.26 | 6.30 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4a | Surface | 1 | 1 | 1 | 13:17 | 17.2 | 7.8 | 25.1 | 6.74 | 6.24 | 4.60 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4a | Surface | 1 | 1 | 2 | 13:17 | 17.2 | 7.8 | 25.1 | 6.80 | 6.18 | 6.20 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4a | Middle | | 2 | 1 | 13:17 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4a | Middle | | 2 | 2 | 13:17 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4a | Bottom | 4.2 | 3 | 1 | 13:17 | 17.2 | 7.8 | 25.5 | 6.63 | 5.88 | 5.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4a | Bottom | 4.2 | 3 | 2 | 13:17 | 17.2 | 7.8 | 25.6 | 6.58 | 6.02 | 7.40 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4 | Surface | 1 | 1 | 1 | 12:47 | 17.2 | 7.8 | 25.3 | 6.84 | 9.38 | 5.80 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4 | Surface | 1 | 1 | 2 | 12:47 | 17.2 | 7.8 | 25.3 | 6.88 | 9.46 | 4.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4 | Middle | | 2 | 1 | 12:47 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4 | Middle | | 2 | 2 | 12:47 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4 | Bottom | 3.6 | 3 | 1 | 12:47 | 17.1 | 7.8 | 25.5 | 6.62 | 8.51 | 5.40 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | SR4 | Bottom | 3.6 | 3 | 2 | 12:47 | 17.1 | 7.8 | 25.5 | 6.56 | 8.44 | 5.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS8 | Surface | 1 | 1 | 1 | 12:17 | 17.3 | 7.9 | 25.2 | 6.93 | 8.77 | 5.20 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS8 | Surface | 1 | 1 | 2 | 12:17 | 17.3 | 7.9 | 25.2 | 6.89 | 8.83 | 6.00 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS8 | Middle | | 2 | 1 | 12:17 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS8 | Middle | | 2 | 2 | 12:17 | | | | | | | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS8 | Bottom | 4 | 3 | 1 | 12:17 | 17.2 | 7.9 | 25.5 | 6.46 | 8.23 | 6.90 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS8 | Bottom | 4 | 3 | 2 | 12:17 | 17.2 | 7.9 | 25.5 | 6.42 | 8.28 | 4.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS(Mf)16 | Surface | 1 | 1 | 1 | 11:47 | 17.3 | 7.9 | 25.4 | 6.82 | 8.13 | 6.30 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS(Mf)16 | Surface | 1 | 1 | 2 | 11:47 | 17.3 | 7.9 | 25.4 | 6.85 | 8.07 | 6.70 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS(Mf)16 | Middle | 3.8 | 2 | 1 | 11:47 | 17.2 | 7.9 | 25.5 | 6.76 | 7.86 | 5.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS(Mf)16 | Middle | 3.8 | 2 | 2 | 11:47 | 17.2 | 7.9 | 25.5 | 6.72 | 7.82 | 5.50 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS(Mf)16 | Bottom | 6.6 | 3 | 1 | 11:47 | 17.3 | 7.9 | 25.7 | 6.56 | 7.52 | 5.20 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | Mid-Ebb | Cloudy | Calm | IS(Mf)16 | Bottom | 6.6 | 3 | 2 | 11:47 | 17.3 | 7.9 | 25.7 | 6.52 | 7.44 | 6.40 | 2014-03-25 |
| TM-CLK Southern | HY/2012/07 | 2014-03-15 | | | | | | | | | | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 8:10 | 17.1 | 7.8 | 25.1 | 7.10 | 6.98 | 6.50 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 8:10 | 17.2 | 7.8 | 25.2 | 7.06 | 6.99 | 5.80 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.7 | 2 | 1 | 8:10 | 17.3 | 7.8 | 25.4 | 6.88 | 7.15 | 6.60 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.7 | 2 | 2 | 8:10 | 17.2 | 7.8 | 25.3 | 6.93 | 7.11 | 6.50 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.4 | 3 | 1 | 8:10 | 17.4 | 7.8 | 25.5 | 6.79 | 7.68 | 5.50 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.4 | 3 | 2 | 8:10 | 17.3 | 7.8 | 25.6 | 6.75 | 7.77 | 7.40 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 8:23 | 17.2 | 7.7 | 25.2 | 6.83 | 6.97 | 6.80 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 8:23 | 17.3 | 7.7 | 25.1 | 6.89 | 7.03 | 5.90 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 8:23 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 8:23 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.6 | 3 | 1 | 8:23 | 17.4 | 7.7 | 25.4 | 6.72 | 7.40 | 7.70 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.6 | 3 | 2 | 8:23 | 17.4 | 7.8 | 25.5 | 6.67 | 7.44 | 5.90 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 8:36 | 17.2 | 7.8 | 25.2 | 6.93 | 6.80 | 8.40 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 8:36 | 17.2 | 7.8 | 25.3 | 6.97 | 6.83 | 6.10 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 8:36 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 8:36 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 3.8 | 3 | 1 | 8:36 | 17.3 | 7.8 | 25.4 | 6.71 | 7.29 | 7.30 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 3.8 | 3 | 2 | 8:36 | 17.2 | 7.8 | 25.5 | 6.65 | 7.35 | 6.80 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 8:49 | 17.3 | 7.8 | 25.2 | 7.02 | 6.61 | 6.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 8:49 | 17.2 | 7.8 | 25.3 | 6.98 | 6.65 | 6.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 8:49 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 8:49 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 5.4 | 3 | 1 | 8:49 | 17.4 | 7.9 | 25.4 | 6.55 | 7.82 | 8.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 5.4 | 3 | 2 | 8:49 | 17.3 | 7.9 | 25.3 | 6.51 | 7.90 | 6.40 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 9:02 | 17.2 | 7.8 | 25.3 | 6.91 | 6.75 | 6.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 9:02 | 17.3 | 7.8 | 25.2 | 6.94 | 6.77 | 6.10 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.1 | 2 | 1 | 9:02 | 17.4 | 7.8 | 25.4 | 6.85 | 6.80 | 6.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.1 | 2 | 2 | 9:02 | 17.5 | 7.8 | 25.3 | 6.81 | 6.82 | 7.50 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 1 | 9:02 | 17.5 | 7.8 | 25.6 | 6.65 | 7.46 | 5.80 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 2 | 9:02 | 17.4 | 7.8 | 25.5 | 6.61 | 7.49 | 6.40 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 9:15 | 17.3 | 7.8 | 25.2 | 6.94 | 6.79 | 6.30 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 9:15 | 17.4 | 7.8 | 25.1 | 7.00 | 6.83 | 7.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 9:15 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 9:15 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4 | 3 | 1 | 9:15 | 17.4 | 7.8 | 25.4 | 6.83 | 7.36 | 5.70 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4 | 3 | 2 | 9:15 | 17.5 | 7.8 | 25.3 | 6.79 | 7.32 | 5.30 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 9:28 | 17.2 | 7.9 | 25.2 | 7.03 | 6.87 | 5.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 9:28 | 17.3 | 7.9 | 25.3 | 6.99 | 6.90 | 5.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.4 | 2 | 1 | 9:28 | 17.4 | 7.9 | 25.5 | 6.92 | 7.02 | 6.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.4 | 2 | 2 | 9:28 | 17.3 | 7.9 | 25.4 | 6.90 | 6.96 | 5.80 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.8 | 3 | 1 | 9:28 | 17.4 | 7.9 | 25.5 | 6.72 | 7.55 | 8.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.8 | 3 | 2 | 9:28 | 17.4 | 7.9 | 25.6 | 6.76 | 7.59 | 6.50 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 12:12 | 17.4 | 8.0 | 25.4 | 6.97 | 6.93 | 6.10 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 12:12 | 17.3 | 8.0 | 25.4 | 6.93 | 6.96 | 4.80 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.2 | 2 | 1 | 12:12 | 17.5 | 8.0 | 25.4 | 6.98 | 7.08 | 5.60 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.2 | 2 | 2 | 12:12 | 17.4 | 8.0 | 25.5 | 6.96 | 7.02 | 5.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.4 | 3 | 1 | 12:12 | 17.5 | 8.0 | 25.6 | 6.66 | 7.61 | 6.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.4 | 3 | 2 | 12:12 | 17.4 | 8.0 | 25.6 | 6.70 | 7.65 | 6.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 14:47 | 17.4 | 7.8 | 25.2 | 6.77 | 7.03 | 4.50 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 14:47 | 17.3 | 7.8 | 25.1 | 6.83 | 7.09 | 5.60 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 14:47 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 14:47 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 1 | 14:47 | 17.4 | 7.8 | 25.4 | 6.66 | 7.46 | 7.40 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 2 | 14:47 | 17.5 | 7.8 | 25.3 | 6.61 | 7.50 | 6.50 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 14:17 | 17.3 | 7.8 | 25.4 | 6.87 | 6.86 | 6.60 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 14:17 | 17.2 | 7.8 | 25.3 | 6.91 | 6.89 | 6.60 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 14:17 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 14:17 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 1 | 14:17 | 17.5 | 7.9 | 25.6 | 6.65 | 7.35 | 6.30 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 2 | 14:17 | 17.4 | 7.9 | 25.5 | 6.59 | 7.41 | 6.10 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 13:47 | 17.4 | 7.9 | 25.2 | 6.96 | 6.67 | 6.70 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 13:47 | 17.4 | 7.9 | 25.3 | 6.92 | 6.71 | 6.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 13:47 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 13:47 | | | | | | | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 1 | 13:47 | 17.6 | 7.9 | 25.5 | 6.49 | 7.88 | 5.70 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 2 | 13:47 | 17.5 | 7.9 | 25.4 | 6.45 | 7.96 | 7.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 13:17 | 17.4 | 7.9 | 25.4 | 6.85 | 6.81 | 5.90 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 13:17 | 17.3 | 7.9 | 25.3 | 6.88 | 6.83 | 6.20 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 1 | 13:17 | 17.5 | 7.9 | 25.4 | 6.79 | 6.86 | 6.60 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 2 | 13:17 | 17.4 | 7.9 | 25.5 | 6.75 | 6.88 | 6.30 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 1 | 13:17 | 17.5 | 7.9 | 25.5 | 6.59 | 7.52 | 7.00 | 2014-03-27 |
| TM-CLK Southern | HY/2012/07 | 2014-03-18 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 2 | 13:17 | 17.6 | 7.9 | 25.6 | 6.55 | 7.55 | 7.90 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 8:00 | 19.5 | 7.6 | 27.1 | 7.13 | 6.94 | 7.50 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 8:00 | 19.5 | 7.7 | 27.0 | 7.15 | 6.96 | 6.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.7 | 2 | 1 | 8:00 | 19.3 | 7.7 | 27.2 | 6.93 | 7.07 | 9.60 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.7 | 2 | 2 | 8:00 | 19.4 | 7.7 | 27.3 | 6.91 | 7.09 | 9.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.4 | 3 | 1 | 8:00 | 19.2 | 7.8 | 27.4 | 6.84 | 7.73 | 8.90 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 8.4 | 3 | 2 | 8:00 | 19.2 | 7.8 | 27.4 | 6.82 | 7.75 | 8.40 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 8:23 | 19.5 | 7.8 | 27.0 | 6.84 | 7.03 | 12.40 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 8:23 | 19.5 | 7.7 | 27.0 | 6.86 | 7.01 | 11.70 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 8:23 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 8:23 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.6 | 3 | 1 | 8:23 | 19.3 | 7.6 | 27.1 | 6.73 | 7.43 | 13.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.6 | 3 | 2 | 8:23 | 19.2 | 7.7 | 27.2 | 6.70 | 7.45 | 14.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 8:45 | 19.4 | 7.6 | 27.0 | 6.98 | 6.82 | 8.60 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 8:45 | 19.4 | 7.6 | 27.1 | 7.00 | 6.84 | 8.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 8:45 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 8:45 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 3.9 | 3 | 1 | 8:45 | 19.3 | 7.8 | 27.2 | 6.73 | 6.92 | 10.40 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 3.9 | 3 | 2 | 8:45 | 19.2 | 7.7 | 27.3 | 6.75 | 6.94 | 11.00 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 9:07 | 19.5 | 7.7 | 27.0 | 7.08 | 6.63 | 12.10 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 9:07 | 19.4 | 7.8 | 27.0 | 7.09 | 6.65 | 12.10 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 9:07 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 9:07 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 5.4 | 3 | 1 | 9:07 | 19.3 | 7.6 | 27.1 | 6.54 | 6.98 | 12.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 5.4 | 3 | 2 | 9:07 | 19.3 | 7.7 | 27.2 | 6.56 | 7.00 | 11.50 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 9:30 | 19.4 | 7.7 | 27.0 | 6.94 | 6.72 | 11.00 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 9:30 | 19.3 | 7.7 | 27.1 | 6.92 | 6.74 | 10.60 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.1 | 2 | 1 | 9:30 | 19.2 | 7.8 | 27.2 | 6.56 | 6.83 | 11.70 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4.1 | 2 | 2 | 9:30 | 19.2 | 7.8 | 27.3 | 6.58 | 6.85 | 11.90 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 1 | 9:30 | 19.2 | 7.8 | 27.4 | 6.62 | 6.92 | 12.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7.2 | 3 | 2 | 9:30 | 19.1 | 7.9 | 27.3 | 6.64 | 6.94 | 11.40 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 9:56 | 19.4 | 7.7 | 27.0 | 6.94 | 9.54 | 10.40 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 9:56 | 19.4 | 7.7 | 27.0 | 6.96 | 9.56 | 10.60 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 9:56 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 9:56 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4 | 3 | 1 | 9:56 | 19.3 | 7.7 | 27.1 | 6.82 | 9.61 | 10.50 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 4 | 3 | 2 | 9:56 | 19.2 | 7.8 | 27.2 | 6.84 | 9.63 | 11.50 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 10:17 | 19.5 | 7.8 | 27.0 | 7.05 | 6.76 | 10.70 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 10:17 | 19.4 | 7.8 | 27.1 | 7.07 | 6.78 | 10.10 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.4 | 2 | 1 | 10:17 | 19.3 | 7.8 | 27.2 | 6.84 | 6.92 | 9.00 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.4 | 2 | 2 | 10:17 | 19.3 | 7.8 | 27.3 | 6.82 | 6.94 | 10.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.8 | 3 | 1 | 10:17 | 19.2 | 7.6 | 27.4 | 6.67 | 7.55 | 10.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.8 | 3 | 2 | 10:17 | 19.3 | 7.7 | 27.4 | 6.69 | 7.57 | 9.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 13:23 | 19.4 | 7.8 | 27.0 | 6.96 | 6.92 | 11.70 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 13:23 | 19.4 | 7.8 | 27.0 | 6.98 | 6.94 | 10.40 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.3 | 2 | 1 | 13:23 | 19.3 | 7.7 | 27.1 | 6.73 | 7.04 | 10.20 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.3 | 2 | 2 | 13:23 | 19.2 | 7.8 | 27.2 | 6.75 | 7.06 | 11.00 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.6 | 3 | 1 | 13:23 | 19.2 | 7.7 | 27.3 | 6.60 | 7.62 | 11.10 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 9.6 | 3 | 2 | 13:23 | 19.1 | 7.7 | 27.4 | 6.62 | 7.60 | 11.70 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 15:34 | 19.5 | 7.7 | 27.0 | 6.77 | 7.09 | 9.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 15:34 | 19.5 | 7.7 | 27.1 | 6.79 | 7.11 | 9.20 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 15:34 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 15:34 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 1 | 15:34 | 19.4 | 7.7 | 27.2 | 6.65 | 7.54 | 8.10 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 2 | 15:34 | 19.3 | 7.8 | 27.3 | 6.67 | 7.56 | 8.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 14:54 | 19.5 | 7.7 | 27.0 | 6.90 | 6.94 | 6.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 14:54 | 19.5 | 7.7 | 27.1 | 6.92 | 6.92 | 6.10 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 14:54 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 14:54 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 1 | 14:54 | 19.4 | 7.7 | 27.2 | 6.65 | 7.04 | 7.00 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 2 | 14:54 | 19.5 | 7.7 | 27.3 | 6.67 | 7.06 | 8.50 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 14:32 | 19.4 | 7.7 | 27.0 | 6.95 | 6.72 | 5.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 14:32 | 19.5 | 7.7 | 27.0 | 6.97 | 6.74 | 5.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 14:32 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 14:32 | | | | | | | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 1 | 14:32 | 19.4 | 7.7 | 27.1 | 6.43 | 7.09 | 6.80 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.2 | 3 | 2 | 14:32 | 19.3 | 7.7 | 27.2 | 6.45 | 7.11 | 6.30 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 14:10 | 19.5 | 7.8 | 27.0 | 6.84 | 6.81 | 12.60 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 14:10 | 19.4 | 7.8 | 27.1 | 6.86 | 6.83 | 12.10 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 1 | 14:10 | 19.3 | 7.7 | 27.2 | 6.62 | 6.99 | 12.40 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 2 | 14:10 | 19.4 | 7.7 | 27.3 | 6.64 | 7.01 | 11.50 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 1 | 14:10 | 19.2 | 7.7 | 27.4 | 6.51 | 7.04 | 12.00 | 2014-04-01 |
| TM-CLK Southern | HY/2012/07 | 2014-03-20 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 2 | 14:10 | 19.2 | 7.7 | 27 | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 8:40 | 19.2 | 7.7 | 27.1 | 7.31 | 5.87 | 5.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 8:40 | 19.3 | 7.7 | 27.1 | 7.32 | 5.88 | 4.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.3 | 2 | 1 | 8:40 | 19.2 | 7.7 | 27.2 | 7.11 | 6.01 | 4.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Middle | 4.3 | 2 | 2 | 8:40 | 19.2 | 7.7 | 27.2 | 7.12 | 6.02 | 5.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 7.6 | 3 | 1 | 8:40 | 19.2 | 7.7 | 27.3 | 7.03 | 6.11 | 4.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)5 | Bottom | 7.6 | 3 | 2 | 8:40 | 19.2 | 7.8 | 27.3 | 7.04 | 6.12 | 4.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 9:10 | 19.2 | 7.7 | 27.1 | 7.03 | 5.81 | 4.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 9:10 | 19.2 | 7.8 | 27.1 | 7.04 | 5.82 | 4.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 9:10 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 9:10 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 1 | 9:10 | 19.1 | 7.8 | 27.2 | 6.87 | 6.03 | 5.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4a | Bottom | 4.4 | 3 | 2 | 9:10 | 19.1 | 7.8 | 27.2 | 6.88 | 6.04 | 3.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 9:36 | 19.2 | 7.8 | 27.1 | 6.73 | 5.83 | 6.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 9:36 | 19.3 | 7.8 | 27.2 | 6.75 | 5.84 | 5.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 9:36 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 9:36 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 3.7 | 3 | 1 | 9:36 | 19.1 | 7.8 | 27.3 | 6.57 | 5.63 | 4.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | SR4 | Bottom | 3.7 | 3 | 2 | 9:36 | 19.1 | 7.8 | 27.4 | 6.55 | 5.64 | 6.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 10:03 | 19.2 | 7.7 | 27.0 | 6.99 | 5.91 | 5.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 10:03 | 19.2 | 7.7 | 27.1 | 7.02 | 5.90 | 4.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 10:03 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 10:03 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 1 | 10:03 | 19.3 | 7.7 | 27.2 | 6.84 | 6.05 | 4.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 2 | 10:03 | 19.3 | 7.8 | 27.3 | 6.83 | 6.04 | 7.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 10:28 | 19.3 | 7.8 | 27.0 | 6.93 | 6.11 | 5.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 10:28 | 19.3 | 7.8 | 27.0 | 6.94 | 6.13 | 5.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 1 | 10:28 | 19.2 | 7.8 | 27.1 | 6.78 | 6.38 | 6.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Middle | 4 | 2 | 2 | 10:28 | 19.1 | 7.8 | 27.2 | 6.77 | 6.39 | 4.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 1 | 10:28 | 19 | 7.8 | 27.3 | 6.56 | 6.41 | 6.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)16 | Bottom | 7 | 3 | 2 | 10:28 | 19 | 7.8 | 27.3 | 6.54 | 6.42 | 5.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 10:55 | 19.2 | 7.9 | 27.1 | 6.71 | 5.88 | 4.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 10:55 | 19.1 | 7.9 | 27.2 | 6.69 | 5.89 | 4.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 10:55 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 10:55 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 3.8 | 3 | 1 | 10:55 | 19.3 | 7.8 | 27.2 | 6.59 | 6.07 | 4.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | IS(Mf)9 | Bottom | 3.8 | 3 | 2 | 10:55 | 19.3 | 7.8 | 27.2 | 6.55 | 6.08 | 3.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 11:20 | 19.2 | 7.8 | 27.0 | 6.94 | 6.11 | 3.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 11:20 | 19.1 | 7.8 | 27.1 | 6.95 | 6.12 | 4.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.8 | 2 | 1 | 11:20 | 19.1 | 7.8 | 27.1 | 7.13 | 6.24 | 3.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Middle | 4.8 | 2 | 2 | 11:20 | 19.1 | 7.8 | 27.2 | 7.14 | 6.25 | 4.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.6 | 3 | 1 | 11:20 | 19.1 | 7.8 | 27.2 | 6.83 | 6.31 | 4.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Flood | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.6 | 3 | 2 | 11:20 | 19 | 7.8 | 27.2 | 6.84 | 6.34 | 5.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 14:55 | 19.3 | 7.9 | 27.1 | 6.90 | 6.34 | 3.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 14:55 | 19.2 | 7.9 | 27.0 | 6.92 | 6.40 | 3.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.2 | 2 | 1 | 14:55 | 19.2 | 7.8 | 27.1 | 6.67 | 6.28 | 2.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 5.2 | 2 | 2 | 14:55 | 19.1 | 7.8 | 27.2 | 6.69 | 6.33 | 3.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.6 | 3 | 1 | 14:55 | 19.1 | 7.7 | 27.3 | 6.54 | 5.92 | 3.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.6 | 3 | 2 | 14:55 | 19 | 7.8 | 27.2 | 6.56 | 5.96 | 3.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 17:30 | 19.4 | 7.7 | 27.2 | 6.71 | 6.01 | 3.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 17:30 | 19.3 | 7.7 | 27.1 | 6.73 | 5.99 | 5.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 17:30 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 17:30 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 1 | 17:30 | 19.3 | 7.8 | 27.3 | 6.59 | 5.55 | 4.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4.2 | 3 | 2 | 17:30 | 19.2 | 7.8 | 27.2 | 6.62 | 5.59 | 7.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 17:00 | 19.4 | 7.8 | 27.1 | 6.84 | 6.18 | 3.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 17:00 | 19.3 | 7.8 | 27.2 | 6.86 | 6.20 | 4.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 17:00 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 17:00 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.4 | 3 | 1 | 17:00 | 19.4 | 6.7 | 27.3 | 6.59 | 5.59 | 5.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.4 | 3 | 2 | 17:00 | 19.5 | 6.8 | 27.4 | 6.62 | 5.62 | 3.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 16:30 | 19.3 | 7.7 | 27.1 | 6.89 | 6.08 | 4.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 16:30 | 19.4 | 7.7 | 27.0 | 6.91 | 6.15 | 4.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 16:30 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 16:30 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.8 | 3 | 1 | 16:30 | 19.4 | 7.8 | 27.2 | 6.37 | 5.69 | 4.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4.8 | 3 | 2 | 16:30 | 19.3 | 7.8 | 27.3 | 6.36 | 5.72 | 3.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 16:00 | 19.4 | 7.8 | 27.1 | 6.78 | 6.25 | 4.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 16:00 | 19.3 | 7.9 | 27.2 | 6.80 | 6.27 | 4.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 1 | 16:00 | 19.3 | 7.8 | 27.3 | 6.56 | 6.09 | 5.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 2 | 16:00 | 19.2 | 7.8 | 27.4 | 6.58 | 6.13 | 5.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 1 | 16:00 | 19.3 | 7.7 | 27.4 | 6.45 | 5.70 | 6.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-22 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 2 | 16:00 | 19.3 | 7.8 | 27.3 | 6.47 | 5.78 | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 11:31 | 19.5 | 7.9 | 28.6 | 6.46 | 6.15 | 7.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 11:31 | 19.4 | 8.0 | 28.7 | 6.45 | 6.11 | 6.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)5 | Middle | 5.2 | 2 | 1 | 11:31 | 19.3 | 8.0 | 28.7 | 6.53 | 6.49 | 7.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)5 | Middle | 5.2 | 2 | 2 | 11:31 | 19.4 | 8.0 | 28.8 | 6.49 | 6.46 | 7.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)5 | Bottom | 9.4 | 3 | 1 | 11:31 | 19.3 | 8.0 | 28.9 | 6.26 | 6.10 | 7.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)5 | Bottom | 9.4 | 3 | 2 | 11:31 | 19.2 | 8.0 | 28.8 | 6.34 | 6.05 | 7.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4a | Surface | 1 | 1 | 1 | 12:06 | 19.5 | 8.0 | 28.6 | 6.65 | 5.85 | 8.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4a | Surface | 1 | 1 | 2 | 12:06 | 19.4 | 8.0 | 28.7 | 6.66 | 5.87 | 8.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4a | Middle | | 2 | 1 | 12:06 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4a | Middle | | 2 | 2 | 12:06 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4a | Bottom | 4.6 | 3 | 1 | 12:06 | 19.2 | 8.0 | 28.7 | 6.47 | 6.30 | 8.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4a | Bottom | 4.6 | 3 | 2 | 12:06 | 19.1 | 8.0 | 28.8 | 6.55 | 6.31 | 7.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4 | Surface | 1 | 1 | 1 | 12:36 | 19.4 | 7.9 | 28.7 | 6.36 | 5.77 | 8.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4 | Surface | 1 | 1 | 2 | 12:36 | 19.4 | 7.9 | 28.8 | 6.40 | 5.72 | 7.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4 | Middle | | 2 | 1 | 12:36 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4 | Middle | | 2 | 2 | 12:36 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4 | Bottom | 4.4 | 3 | 1 | 12:36 | 19.2 | 8.0 | 28.9 | 6.21 | 6.02 | 9.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | SR4 | Bottom | 4.4 | 3 | 2 | 12:36 | 19.1 | 8.0 | 28.8 | 6.23 | 6.10 | 9.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS8 | Surface | 1 | 1 | 1 | 13:06 | 19.5 | 7.9 | 28.7 | 6.55 | 6.01 | 9.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS8 | Surface | 1 | 1 | 2 | 13:06 | 19.4 | 7.9 | 28.6 | 6.57 | 6.09 | 8.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS8 | Middle | | 2 | 1 | 13:06 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS8 | Middle | | 2 | 2 | 13:06 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS8 | Bottom | 4.6 | 3 | 1 | 13:06 | 19.1 | 7.9 | 28.7 | 6.39 | 6.22 | 9.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS8 | Bottom | 4.6 | 3 | 2 | 13:06 | 19.2 | 8.0 | 28.8 | 6.37 | 6.24 | 8.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 13:36 | 19.4 | 7.8 | 28.6 | 6.94 | 5.93 | 6.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 13:36 | 19.5 | 7.8 | 28.7 | 6.96 | 5.97 | 8.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)16 | Middle | 3.7 | 2 | 1 | 13:36 | 19.4 | 8.0 | 28.8 | 6.56 | 6.10 | 8.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)16 | Middle | 3.7 | 2 | 2 | 13:36 | 19.4 | 8.0 | 28.7 | 6.64 | 6.12 | 10.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)16 | Bottom | 6.4 | 3 | 1 | 13:36 | 19 | 8.0 | 28.8 | 6.28 | 6.31 | 9.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)16 | Bottom | 6.4 | 3 | 2 | 13:36 | 19.1 | 8.0 | 28.9 | 6.34 | 6.35 | 9.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 14:06 | 19.4 | 7.9 | 28.6 | 6.69 | 5.98 | 9.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 14:06 | 19.5 | 7.8 | 28.7 | 6.66 | 6.00 | 8.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 14:06 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 14:06 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)9 | Bottom | 4.4 | 3 | 1 | 14:06 | 19.1 | 7.9 | 28.8 | 6.51 | 6.08 | 7.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | IS(Mf)9 | Bottom | 4.4 | 3 | 2 | 14:06 | 19 | 7.9 | 28.7 | 6.47 | 6.11 | 9.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 14:41 | 19.6 | 8.0 | 28.8 | 6.84 | 6.14 | 7.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 14:41 | 19.5 | 8.0 | 28.7 | 6.76 | 6.12 | 7.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)3 | Middle | 4.6 | 2 | 1 | 14:41 | 19.4 | 7.9 | 28.8 | 6.99 | 6.33 | 6.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)3 | Middle | 4.6 | 2 | 2 | 14:41 | 19.3 | 8.0 | 28.9 | 6.97 | 6.39 | 6.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)3 | Bottom | 8.2 | 3 | 1 | 14:41 | 19 | 8.0 | 28.9 | 6.56 | 6.41 | 6.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Flood | Fine | Small Wave | CS(Mf)3 | Bottom | 8.2 | 3 | 2 | 14:41 | 18.9 | 8.0 | 28.8 | 6.60 | 6.45 | 6.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 8:15 | 19.4 | 7.9 | 28.7 | 6.78 | 6.23 | 9.80 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 8:15 | 19.4 | 8.0 | 28.7 | 6.70 | 6.21 | 9.30 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | CS(Mf)3 | Middle | 4.5 | 2 | 1 | 8:15 | 19.3 | 7.9 | 28.7 | 6.93 | 6.42 | 9.40 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | CS(Mf)3 | Middle | 4.5 | 2 | 2 | 8:15 | 19.3 | 7.9 | 28.6 | 6.91 | 6.48 | 9.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | CS(Mf)3 | Bottom | 8 | 3 | 1 | 8:15 | 19 | 7.9 | 28.7 | 6.50 | 6.50 | 9.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | CS(Mf)3 | Bottom | 8 | 3 | 2 | 8:15 | 19 | 7.9 | 28.7 | 6.54 | 6.54 | 9.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4a | Surface | 1 | 1 | 1 | 9:30 | 19.4 | 7.9 | 28.5 | 6.59 | 5.94 | 9.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4a | Surface | 1 | 1 | 2 | 9:30 | 19.4 | 7.9 | 28.6 | 6.60 | 5.96 | 9.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4a | Middle | | 2 | 1 | 9:30 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4a | Middle | | 2 | 2 | 9:30 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4a | Bottom | 4.4 | 3 | 1 | 9:30 | 19.1 | 7.9 | 28.6 | 6.41 | 6.39 | 9.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4a | Bottom | 4.4 | 3 | 2 | 9:30 | 19.1 | 7.9 | 28.7 | 6.49 | 6.40 | 8.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4 | Surface | 1 | 1 | 1 | 9:15 | 19.3 | 7.8 | 28.7 | 6.30 | 5.86 | 9.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4 | Surface | 1 | 1 | 2 | 9:15 | 19.3 | 7.8 | 28.7 | 6.34 | 5.81 | 9.50 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4 | Middle | | 2 | 1 | 9:15 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4 | Middle | | 2 | 2 | 9:15 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4 | Bottom | 4 | 3 | 1 | 9:15 | 19.1 | 7.9 | 28.7 | 6.15 | 6.11 | 9.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | SR4 | Bottom | 4 | 3 | 2 | 9:15 | 19.1 | 8.0 | 28.7 | 6.17 | 6.19 | 9.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS8 | Surface | 1 | 1 | 1 | 9:00 | 19.4 | 7.8 | 28.6 | 6.49 | 6.10 | 10.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS8 | Surface | 1 | 1 | 2 | 9:00 | 19.4 | 7.8 | 28.7 | 6.51 | 6.18 | 10.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS8 | Middle | | 2 | 1 | 9:00 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS8 | Middle | | 2 | 2 | 9:00 | | | | | | | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS8 | Bottom | 4.2 | 3 | 1 | 9:00 | 19 | 7.9 | 28.6 | 6.33 | 6.31 | 12.70 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS8 | Bottom | 4.2 | 3 | 2 | 9:00 | 19.1 | 7.9 | 28.7 | 6.31 | 6.33 | 12.60 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 8:45 | 19.3 | 7.8 | 28.6 | 6.88 | 6.02 | 9.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 8:45 | 19.4 | 7.8 | 28.5 | 6.90 | 6.06 | 10.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS(Mf)16 | Middle | 3.5 | 2 | 1 | 8:45 | 19.3 | 7.9 | 28.7 | 6.50 | 6.19 | 10.20 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS(Mf)16 | Middle | 3.5 | 2 | 2 | 8:45 | 19.3 | 7.9 | 28.7 | 6.58 | 6.21 | 10.90 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS(Mf)16 | Bottom | 6 | 3 | 1 | 8:45 | 19.1 | 7.9 | 28.7 | 6.22 | 6.40 | 11.00 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | Small Wave | IS(Mf)16 | Bottom | 6 | 3 | 2 | 8:45 | 19.1 | 7.9 | 28.7 | 6.28 | 6.44 | 11.10 | 2014-04-03 |
| TM-CLK Southern | HY/2012/07 | 2014-03-25 | Mid-Ebb | Fine | | | | | | | | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)5 | Surface | 1 | 1 | 1 | 9:07 | 19.6 | 7.7 | 27.1 | 7.08 | 2.27 | 2.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)5 | Surface | 1 | 1 | 2 | 9:07 | 19.6 | 7.8 | 27.1 | 7.10 | 2.28 | 2.7 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)5 | Middle | 4.5 | 2 | 1 | 9:07 | 19.6 | 7.8 | 27.1 | 7.01 | 2.39 | 3.7 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)5 | Middle | 4.5 | 2 | 2 | 9:07 | 19.6 | 7.8 | 27.1 | 7.02 | 2.41 | 3.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)5 | Bottom | 8 | 3 | 1 | 9:07 | 19.6 | 7.8 | 26.9 | 6.74 | 2.67 | 4.5 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)5 | Bottom | 8 | 3 | 2 | 9:07 | 19.5 | 7.8 | 26.8 | 6.77 | 2.66 | 4 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4a | Surface | 1 | 1 | 1 | 9:42 | 19.6 | 7.8 | 27.1 | 6.92 | 1.96 | 2.5 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4a | Surface | 1 | 1 | 2 | 9:42 | 19.6 | 7.8 | 27.2 | 6.93 | 1.97 | 2.1 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4a | Middle | | 2 | 1 | 9:42 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4a | Middle | | 2 | 2 | 9:42 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4a | Bottom | 4.5 | 3 | 1 | 9:42 | 19.5 | 7.8 | 27.2 | 6.73 | 2.09 | 4.4 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4a | Bottom | 4.5 | 3 | 2 | 9:42 | 19.5 | 7.8 | 27.2 | 6.74 | 2.11 | 4.7 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4 | Surface | 1 | 1 | 1 | 10:12 | 19.6 | 7.8 | 27.0 | 7.12 | 2.17 | 2.3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4 | Surface | 1 | 1 | 2 | 10:12 | 19.6 | 7.8 | 27.0 | 7.11 | 2.18 | 2.6 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4 | Middle | | 2 | 1 | 10:12 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4 | Middle | | 2 | 2 | 10:12 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4 | Bottom | 3.8 | 3 | 1 | 10:12 | 19.6 | 7.8 | 27.1 | 7.02 | 2.31 | 4.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | SR4 | Bottom | 3.8 | 3 | 2 | 10:12 | 19.6 | 7.8 | 27.1 | 7.03 | 2.32 | 3.1 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS8 | Surface | 1 | 1 | 1 | 10:47 | 19.6 | 7.7 | 26.9 | 7.29 | 2.04 | 2.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS8 | Surface | 1 | 1 | 2 | 10:47 | 19.6 | 7.8 | 26.9 | 7.32 | 2.05 | 3.7 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS8 | Middle | | 2 | 1 | 10:47 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS8 | Middle | | 2 | 2 | 10:47 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS8 | Bottom | 4.2 | 3 | 1 | 10:47 | 19.6 | 7.8 | 27.0 | 7.27 | 1.97 | 4.5 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS8 | Bottom | 4.2 | 3 | 2 | 10:47 | 19.5 | 7.8 | 27.0 | 7.28 | 1.98 | 4.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)16 | Surface | 1 | 1 | 1 | 11:17 | 19.7 | 7.8 | 27.1 | 7.34 | 2.31 | 3.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)16 | Surface | 1 | 1 | 2 | 11:17 | 19.6 | 7.8 | 27.1 | 7.35 | 2.32 | 3.3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)16 | Middle | 4 | 2 | 1 | 11:17 | 19.6 | 7.8 | 27.1 | 7.12 | 2.67 | 3.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)16 | Middle | 4 | 2 | 2 | 11:17 | 19.6 | 7.8 | 27.2 | 7.13 | 2.68 | 3.4 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)16 | Bottom | 7 | 3 | 1 | 11:17 | 19.5 | 7.8 | 27.2 | 6.83 | 2.79 | 3.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)16 | Bottom | 7 | 3 | 2 | 11:17 | 19.5 | 7.8 | 27.2 | 6.84 | 2.78 | 4.1 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)9 | Surface | 1 | 1 | 1 | 11:47 | 19.7 | 7.7 | 27.0 | 7.25 | 2.06 | 2.8 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)9 | Surface | 1 | 1 | 2 | 11:47 | 19.6 | 7.7 | 27.0 | 7.26 | 2.07 | 2.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)9 | Middle | | 2 | 1 | 11:47 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)9 | Middle | | 2 | 2 | 11:47 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)9 | Bottom | 3.8 | 3 | 1 | 11:47 | 19.7 | 7.7 | 27.1 | 7.03 | 2.19 | 3.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | IS(Mf)9 | Bottom | 3.8 | 3 | 2 | 11:47 | 19.7 | 7.7 | 27.1 | 7.06 | 2.21 | 3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)3 | Surface | 1 | 1 | 1 | 12:17 | 19.6 | 7.7 | 26.9 | 7.14 | 2.09 | 1.7 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)3 | Surface | 1 | 1 | 2 | 12:17 | 19.6 | 7.7 | 26.9 | 7.13 | 2.11 | 2.1 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)3 | Middle | 4.8 | 2 | 1 | 12:17 | 19.6 | 7.8 | 27.0 | 7.01 | 2.31 | 4.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)3 | Middle | 4.8 | 2 | 2 | 12:17 | 19.6 | 7.8 | 27.0 | 7.04 | 2.32 | 3.8 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)3 | Bottom | 8.5 | 3 | 1 | 12:17 | 19.5 | 7.8 | 27.1 | 6.91 | 2.49 | 4 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Flood | Fine | Calm | CS(Mf)3 | Bottom | 8.5 | 3 | 2 | 12:17 | 19.5 | 7.8 | 27.1 | 6.92 | 2.51 | 3.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | CS(Mf)3 | Surface | 1 | 1 | 1 | 14:20 | 19.7 | 7.8 | 27.2 | 6.93 | 2.25 | 2.3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | CS(Mf)3 | Surface | 1 | 1 | 2 | 14:20 | 19.7 | 7.8 | 27.2 | 6.94 | 2.26 | 2.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | CS(Mf)3 | Middle | 4.6 | 2 | 1 | 14:20 | 19.7 | 7.7 | 27.2 | 6.83 | 2.38 | 3.4 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | CS(Mf)3 | Middle | 4.6 | 2 | 2 | 14:20 | 19.7 | 7.8 | 27.2 | 6.82 | 2.36 | 2.6 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | CS(Mf)3 | Bottom | 8.2 | 3 | 1 | 14:20 | 19.6 | 7.8 | 27.3 | 6.56 | 2.57 | 3.9 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | CS(Mf)3 | Bottom | 8.2 | 3 | 2 | 14:20 | 19.6 | 7.8 | 27.3 | 6.55 | 2.54 | 4.1 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4a | Surface | 1 | 1 | 1 | 16:55 | 19.7 | 7.7 | 27.1 | 6.83 | 2.27 | 3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4a | Surface | 1 | 1 | 2 | 16:55 | 19.7 | 7.7 | 27.1 | 6.84 | 2.28 | 2.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4a | Middle | | 2 | 1 | 16:55 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4a | Middle | | 2 | 2 | 16:55 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4a | Bottom | 4.2 | 3 | 1 | 16:55 | 19.6 | 7.8 | 27.2 | 6.66 | 2.39 | 3.3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4a | Bottom | 4.2 | 3 | 2 | 16:55 | 19.6 | 7.8 | 27.2 | 6.65 | 2.41 | 3.1 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4 | Surface | 1 | 1 | 1 | 16:25 | 19.7 | 7.9 | 27.0 | 7.04 | 2.36 | 2.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4 | Surface | 1 | 1 | 2 | 16:25 | 19.7 | 7.8 | 27.0 | 7.05 | 2.37 | 2.8 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4 | Middle | | 2 | 1 | 16:25 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4 | Middle | | 2 | 2 | 16:25 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4 | Bottom | 3.6 | 3 | 1 | 16:25 | 19.6 | 7.8 | 27.1 | 6.87 | 25.60 | 4.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | SR4 | Bottom | 3.6 | 3 | 2 | 16:25 | 19.6 | 7.8 | 27.1 | 6.88 | 25.50 | 5 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS8 | Surface | 1 | 1 | 1 | 15:55 | 19.6 | 7.8 | 27.1 | 7.11 | 2.27 | 3.6 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS8 | Surface | 1 | 1 | 2 | 15:55 | 19.7 | 7.8 | 27.1 | 7.12 | 2.28 | 3.3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS8 | Middle | | 2 | 1 | 15:55 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS8 | Middle | | 2 | 2 | 15:55 | | | | | | | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS8 | Bottom | 4 | 3 | 1 | 15:55 | 19.8 | 7.7 | 27.2 | 7.04 | 2.36 | 4.6 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS8 | Bottom | 4 | 3 | 2 | 15:55 | 19.7 | 7.7 | 27.2 | 7.05 | 2.37 | 5.3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS(Mf)16 | Surface | 1 | 1 | 1 | 15:25 | 19.8 | 7.8 | 27.2 | 7.12 | 2.45 | 3.3 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS(Mf)16 | Surface | 1 | 1 | 2 | 15:25 | 19.8 | 7.8 | 27.2 | 7.15 | 2.46 | 3.4 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS(Mf)16 | Middle | 3.9 | 2 | 1 | 15:25 | 19.7 | 7.7 | 27.2 | 6.83 | 2.51 | 3.6 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS(Mf)16 | Middle | 3.9 | 2 | 2 | 15:25 | 19.7 | 7.7 | 27.2 | 6.84 | 2.52 | 4.2 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS(Mf)16 | Bottom | 6.8 | 3 | 1 | 15:25 | 19.7 | 7.8 | 27.3 | 6.72 | 2.72 | 4.5 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS(Mf)16 | Bottom | 6.8 | 3 | 2 | 15:25 | 19.7 | 7.8 | 27.3 | 6.71 | 2.73 | 4.5 | 2014-04-07 |
| TM-CLK Southern | HY/2012/07 | 2014-03-27 | Mid-Ebb | Fine | Calm | IS(Mf)9 | Surface | 1 | 1 | 1 | 14:55 | 19.8 | 7.7 | 27.1 | 7.09 | 2.22 | 3 | 2014-04-07 |
| TM | | | | | | | | | | | | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Weather | Sea Condition | Stat | Level | Water Depth | Lev_Cod | Replicate | Time | Temp(° C) | pH | Salinity(ppt) | DO(mg/L) | Turbidity(NTU) | SS(mg/L) | Received Date (SS) |
|-----------------|------------|-------------------|-----------|---------|---------------|----------|---------|-------------|---------|-----------|-------|-----------|-----|---------------|----------|----------------|----------|--------------------|
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 1 | 16:15 | 19.5 | 7.7 | 26.9 | 7.04 | 3.82 | 4.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)5 | Surface | 1 | 1 | 2 | 16:15 | 19.5 | 7.8 | 26.9 | 7.05 | 3.90 | 5.8 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)5 | Middle | 5.2 | 2 | 1 | 16:15 | 19.6 | 7.8 | 27.0 | 7.17 | 3.40 | 5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)5 | Middle | 5.2 | 2 | 2 | 16:15 | 19.6 | 7.9 | 27.0 | 7.19 | 3.46 | 4.7 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)5 | Bottom | 9.4 | 3 | 1 | 16:15 | 19.7 | 7.8 | 27.1 | 6.97 | 4.10 | 6.6 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)5 | Bottom | 9.4 | 3 | 2 | 16:15 | 19.7 | 7.8 | 27.1 | 6.91 | 4.18 | 8.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4a | Surface | 1 | 1 | 1 | 16:45 | 19.4 | 7.9 | 26.8 | 7.20 | 3.66 | 5.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4a | Surface | 1 | 1 | 2 | 16:45 | 19.5 | 7.9 | 26.9 | 7.27 | 3.71 | 4.9 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4a | Middle | | 2 | 1 | 16:45 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4a | Middle | | 2 | 2 | 16:45 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4a | Bottom | 4.8 | 3 | 1 | 16:45 | 19.6 | 7.8 | 27.0 | 7.11 | 3.56 | 5.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4a | Bottom | 4.8 | 3 | 2 | 16:45 | 19.7 | 7.8 | 27.0 | 7.09 | 3.58 | 5.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4 | Surface | 1 | 1 | 1 | 17:15 | 19.6 | 7.8 | 26.9 | 6.99 | 3.93 | 4.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4 | Surface | 1 | 1 | 2 | 17:15 | 19.6 | 7.8 | 26.8 | 6.91 | 3.96 | 5.6 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4 | Middle | | 2 | 1 | 17:15 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4 | Middle | | 2 | 2 | 17:15 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4 | Bottom | 4.2 | 3 | 1 | 17:15 | 19.7 | 7.8 | 27.1 | 6.74 | 3.42 | 6.5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | SR4 | Bottom | 4.2 | 3 | 2 | 17:15 | 19.7 | 7.9 | 27.0 | 6.76 | 3.40 | 4.8 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS8 | Surface | 1 | 1 | 1 | 17:45 | 19.6 | 7.9 | 26.9 | 7.13 | 3.52 | 6.3 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS8 | Surface | 1 | 1 | 2 | 17:45 | 19.6 | 7.9 | 26.9 | 7.19 | 3.50 | 5.7 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS8 | Middle | | 2 | 1 | 17:45 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS8 | Middle | | 2 | 2 | 17:45 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS8 | Bottom | 4.4 | 3 | 1 | 17:45 | 19.6 | 7.9 | 27.0 | 7.07 | 3.68 | 6.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS8 | Bottom | 4.4 | 3 | 2 | 17:45 | 19.7 | 7.9 | 27.0 | 7.09 | 3.71 | 8.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 18:15 | 19.5 | 7.9 | 26.8 | 7.12 | 3.33 | 6.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 18:15 | 19.5 | 8.0 | 26.8 | 7.10 | 3.37 | 5.8 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)16 | Middle | 4.4 | 2 | 1 | 18:15 | 19.6 | 7.9 | 27.0 | 7.23 | 3.65 | 6.6 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)16 | Middle | 4.4 | 2 | 2 | 18:15 | 19.6 | 7.9 | 26.9 | 7.20 | 3.61 | 6.5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)16 | Bottom | 7.8 | 3 | 1 | 18:15 | 19.7 | 7.9 | 27.0 | 6.95 | 3.77 | 6.9 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)16 | Bottom | 7.8 | 3 | 2 | 18:15 | 19.7 | 7.9 | 27.1 | 6.94 | 3.78 | 8 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 1 | 18:45 | 19.6 | 7.8 | 26.9 | 7.14 | 3.50 | 5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)9 | Surface | 1 | 1 | 2 | 18:45 | 19.5 | 7.9 | 26.9 | 7.18 | 3.56 | 4.6 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)9 | Middle | | 2 | 1 | 18:45 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)9 | Middle | | 2 | 2 | 18:45 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)9 | Bottom | 4.4 | 3 | 1 | 18:45 | 19.7 | 7.9 | 27.0 | 7.24 | 3.38 | 5.6 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | IS(Mf)9 | Bottom | 4.4 | 3 | 2 | 18:45 | 19.7 | 7.9 | 27.0 | 7.26 | 3.40 | 4 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 19:24 | 19.6 | 7.7 | 26.8 | 7.01 | 3.67 | 6.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 19:24 | 19.5 | 7.7 | 26.9 | 7.09 | 3.63 | 5.9 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)3 | Middle | 5.1 | 2 | 1 | 19:24 | 19.6 | 7.8 | 26.9 | 6.83 | 3.40 | 6.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)3 | Middle | 5.1 | 2 | 2 | 19:24 | 19.7 | 7.8 | 27.0 | 6.84 | 3.44 | 5.5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)3 | Bottom | 9.2 | 3 | 1 | 19:24 | 19.7 | 7.8 | 27.0 | 6.90 | 3.92 | 5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Flood | Drizzle | Small Wave | CS(Mf)3 | Bottom | 9.2 | 3 | 2 | 19:24 | 19.7 | 7.8 | 27.1 | 6.94 | 3.90 | 5.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 1 | 10:31 | 17.7 | 7.8 | 26.9 | 7.17 | 3.12 | 4.8 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Surface | 1 | 1 | 2 | 10:31 | 17.7 | 7.8 | 27.0 | 7.19 | 3.18 | 4.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 2.9 | 2 | 1 | 10:31 | 17.7 | 7.8 | 27.0 | 7.01 | 3.36 | 5.5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Middle | 2.9 | 2 | 2 | 10:31 | 17.6 | 7.8 | 27.0 | 7.09 | 3.41 | 4.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 1 | 10:31 | 17.6 | 7.9 | 27.1 | 7.04 | 3.88 | 4.8 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | CS(Mf)3 | Bottom | 8.8 | 3 | 2 | 10:31 | 17.6 | 7.9 | 27.1 | 7.06 | 3.90 | 5.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 1 | 13:00 | 19.7 | 7.8 | 27.0 | 7.41 | 3.41 | 4.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4a | Surface | 1 | 1 | 2 | 13:00 | 19.7 | 7.8 | 27.0 | 7.40 | 3.43 | 5.4 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 1 | 13:00 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4a | Middle | | 2 | 2 | 13:00 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 1 | 13:00 | 19.6 | 7.8 | 27.1 | 7.07 | 3.66 | 5.3 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4a | Bottom | 4 | 3 | 2 | 13:00 | 19.6 | 7.8 | 27.1 | 7.13 | 3.68 | 7.3 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 1 | 12:19 | 19.7 | 7.9 | 27.0 | 6.96 | 3.72 | 4 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4 | Surface | 1 | 1 | 2 | 12:19 | 19.8 | 7.9 | 27.0 | 6.90 | 3.76 | 5.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 1 | 12:19 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4 | Middle | | 2 | 2 | 12:19 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 1 | 12:19 | 19.7 | 7.9 | 27.1 | 6.77 | 3.50 | 5 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | SR4 | Bottom | 3.6 | 3 | 2 | 12:19 | 19.6 | 7.9 | 27.1 | 6.79 | 3.47 | 5.9 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 1 | 11:50 | 19.7 | 8.0 | 27.0 | 7.00 | 3.65 | 6.4 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS8 | Surface | 1 | 1 | 2 | 11:50 | 19.7 | 8.0 | 26.9 | 7.04 | 3.68 | 7.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 1 | 11:50 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS8 | Middle | | 2 | 2 | 11:50 | | | | | | | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 1 | 11:50 | 19.7 | 8.0 | 27.1 | 6.93 | 3.29 | 6.7 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS8 | Bottom | 4 | 3 | 2 | 11:50 | 19.7 | 8.0 | 27.1 | 6.91 | 3.21 | 6.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 1 | 11:21 | 19.7 | 7.9 | 26.9 | 6.89 | 3.41 | 5.2 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Surface | 1 | 1 | 2 | 11:21 | 19.7 | 7.9 | 26.9 | 6.91 | 3.47 | 6.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 1 | 11:21 | 19.6 | 8.0 | 27.0 | 7.14 | 3.58 | 5.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Middle | 3.9 | 2 | 2 | 11:21 | 19.6 | 8.0 | 27.0 | 7.16 | 3.52 | 5.3 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 1 | 11:21 | 19.6 | 8.0 | 27.1 | 6.93 | 3.72 | 7.1 | 2014-04-11 |
| TM-CLK Southern | HY/2012/07 | 2014-03-29 | Mid-Ebb | Cloudy | Small Wave | IS(Mf)16 | Bottom | 6.8 | 3 | 2 | 11:21 | 19.6 | 8.0 | 27.1 | 6.97 | 3.78 | 5.6 | 2014-04-11 |
| TM-CLK Southern | HY/201 | | | | | | | | | | | | | | | | | |

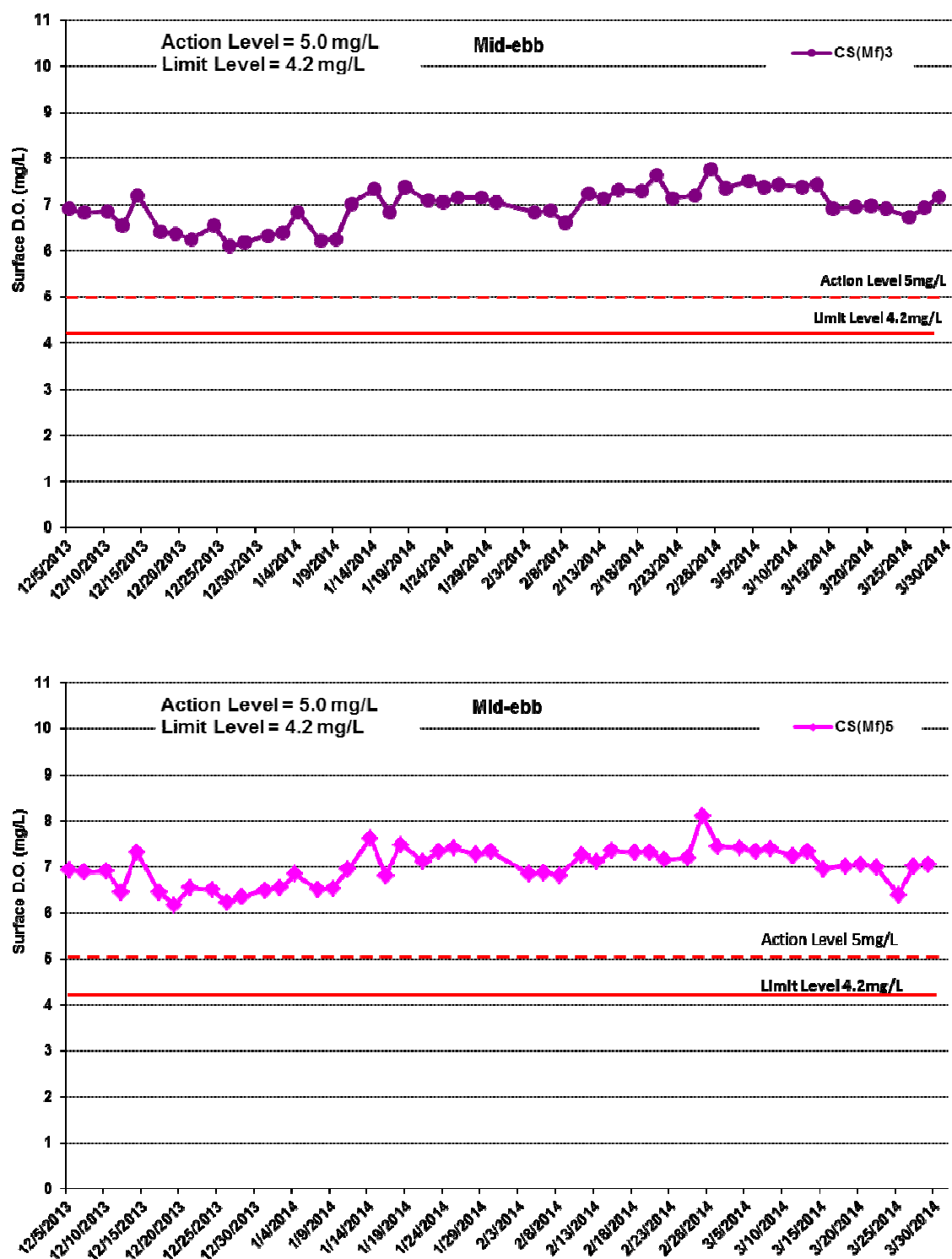


Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(Mf)5.

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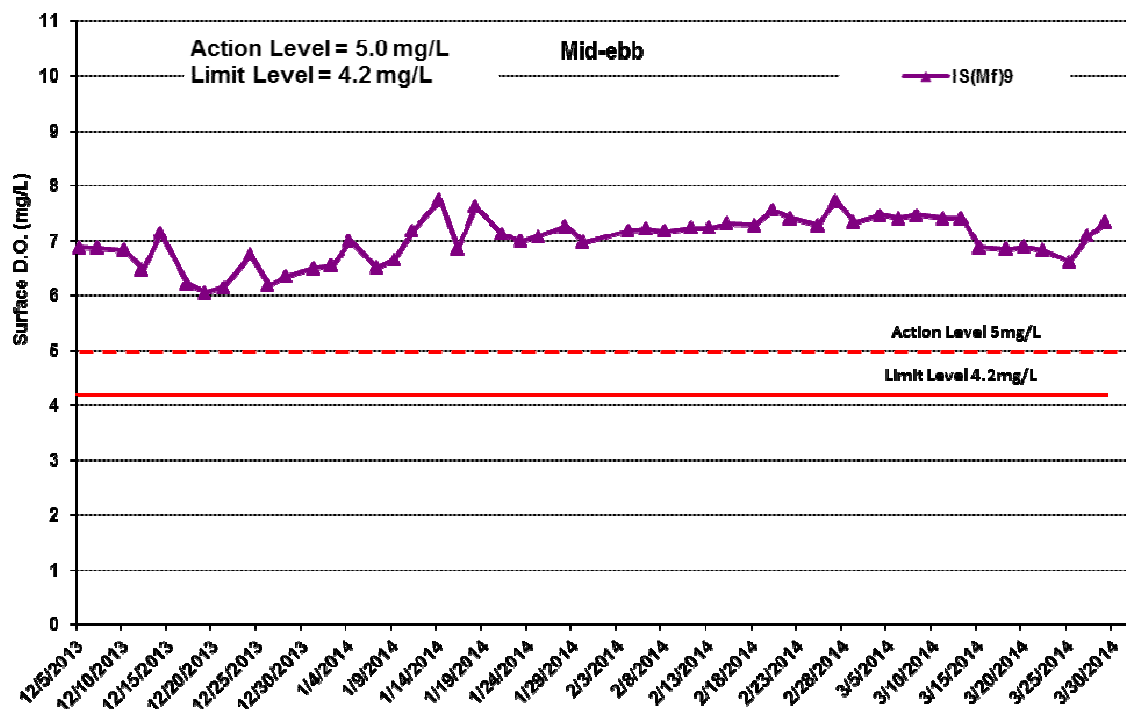
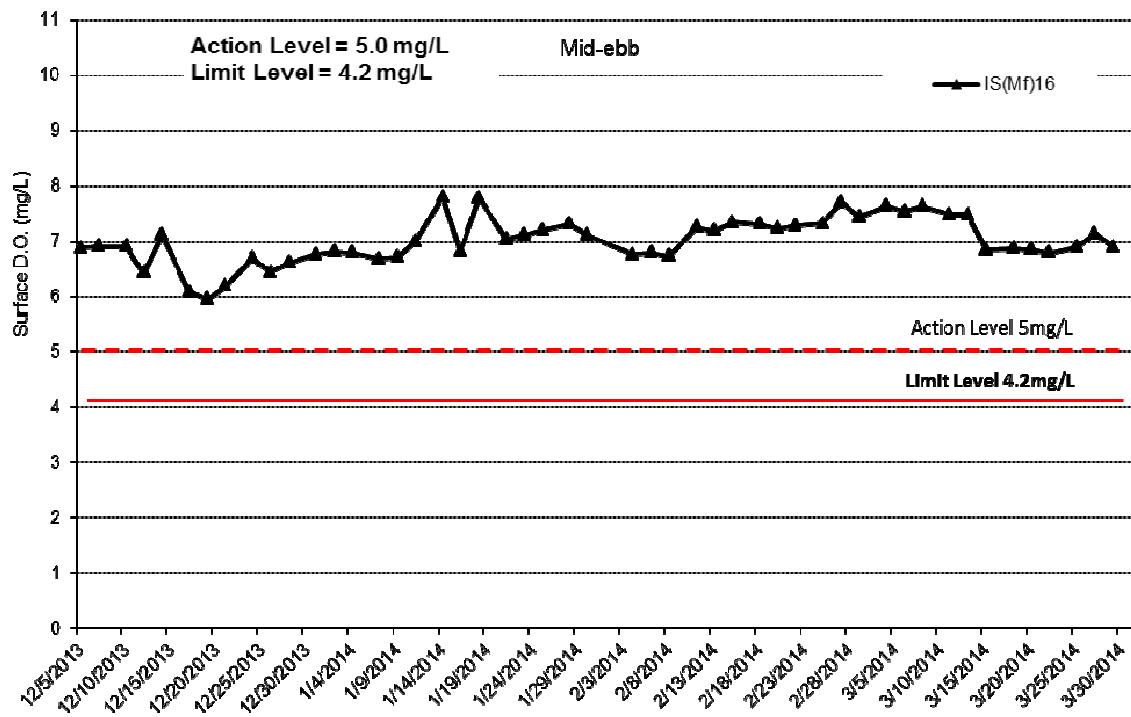


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9.

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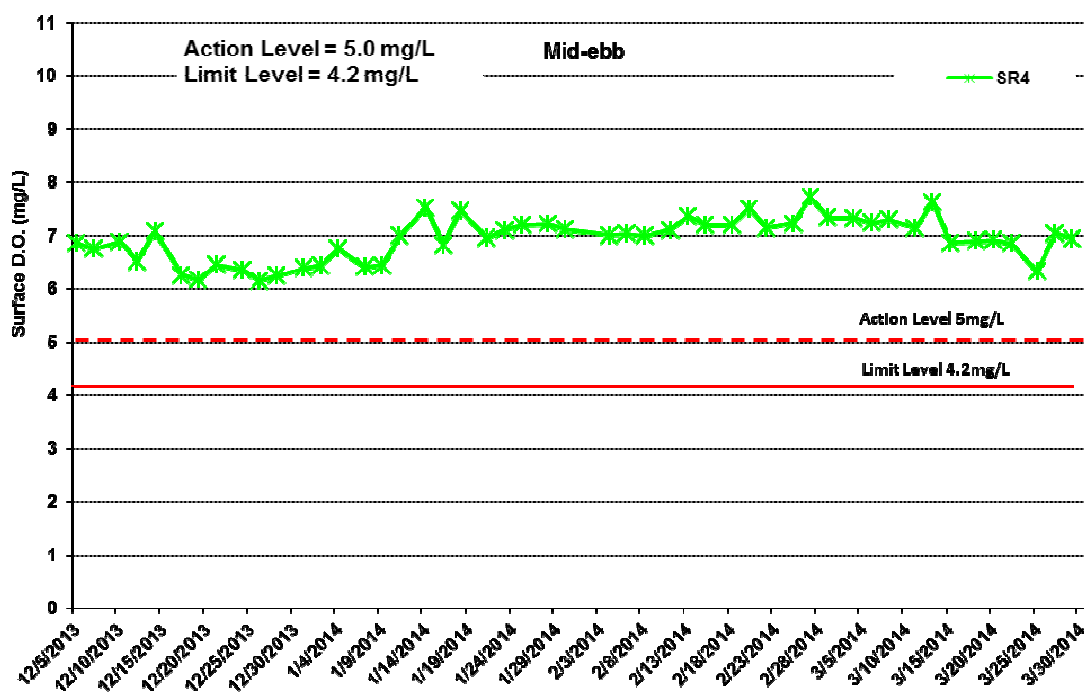
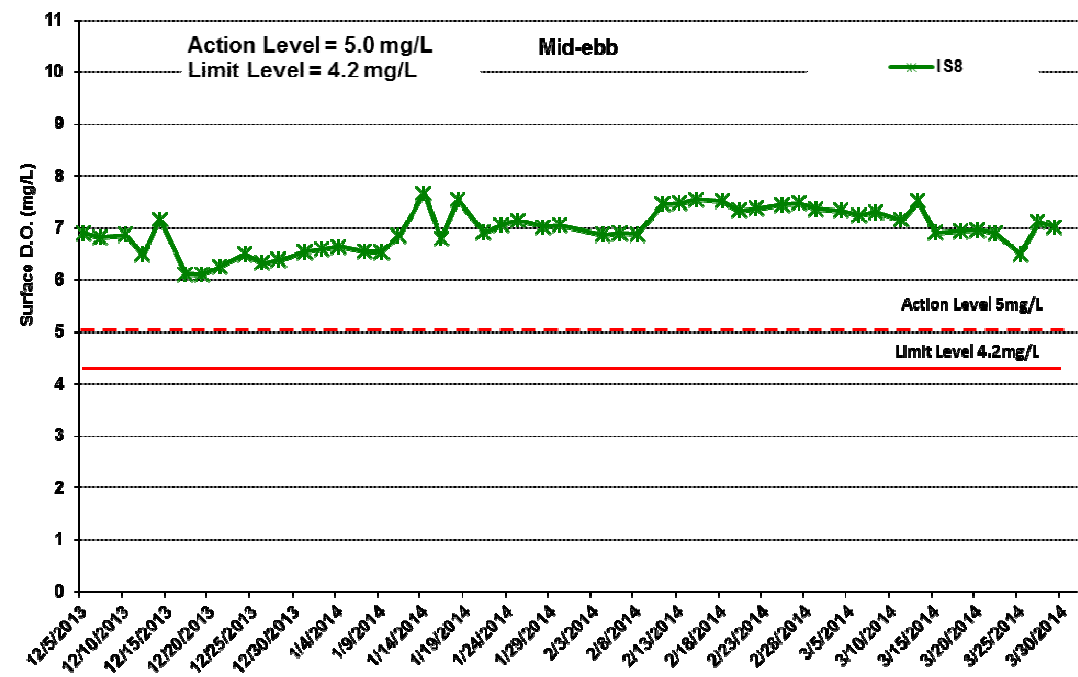


Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

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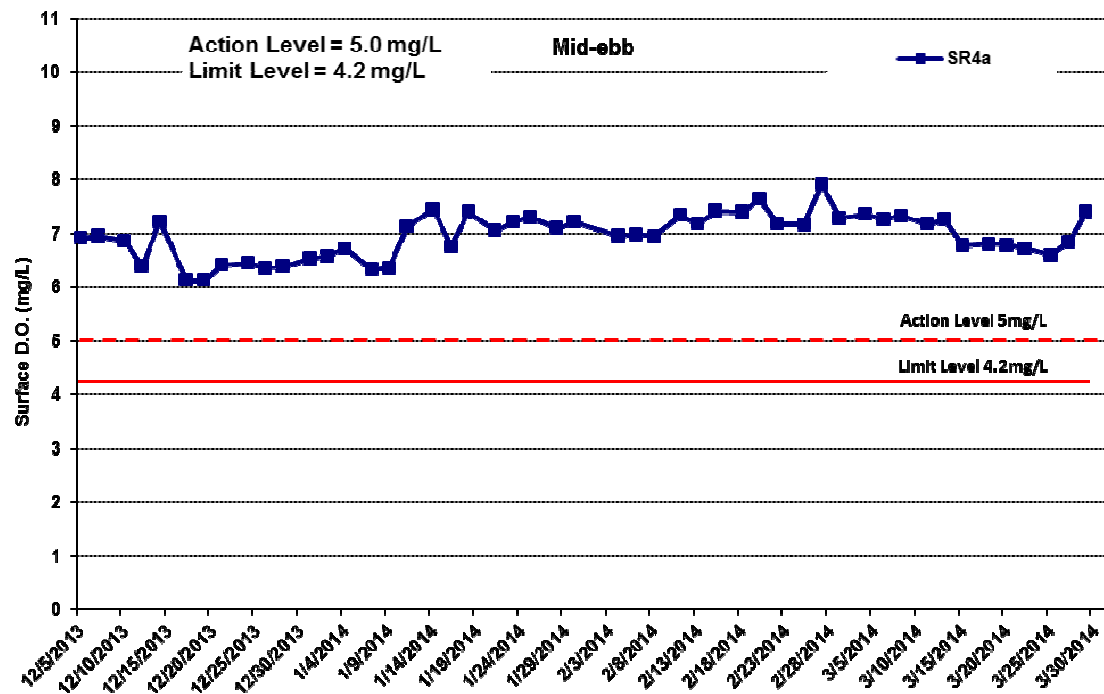


Figure J4 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at SR4a.

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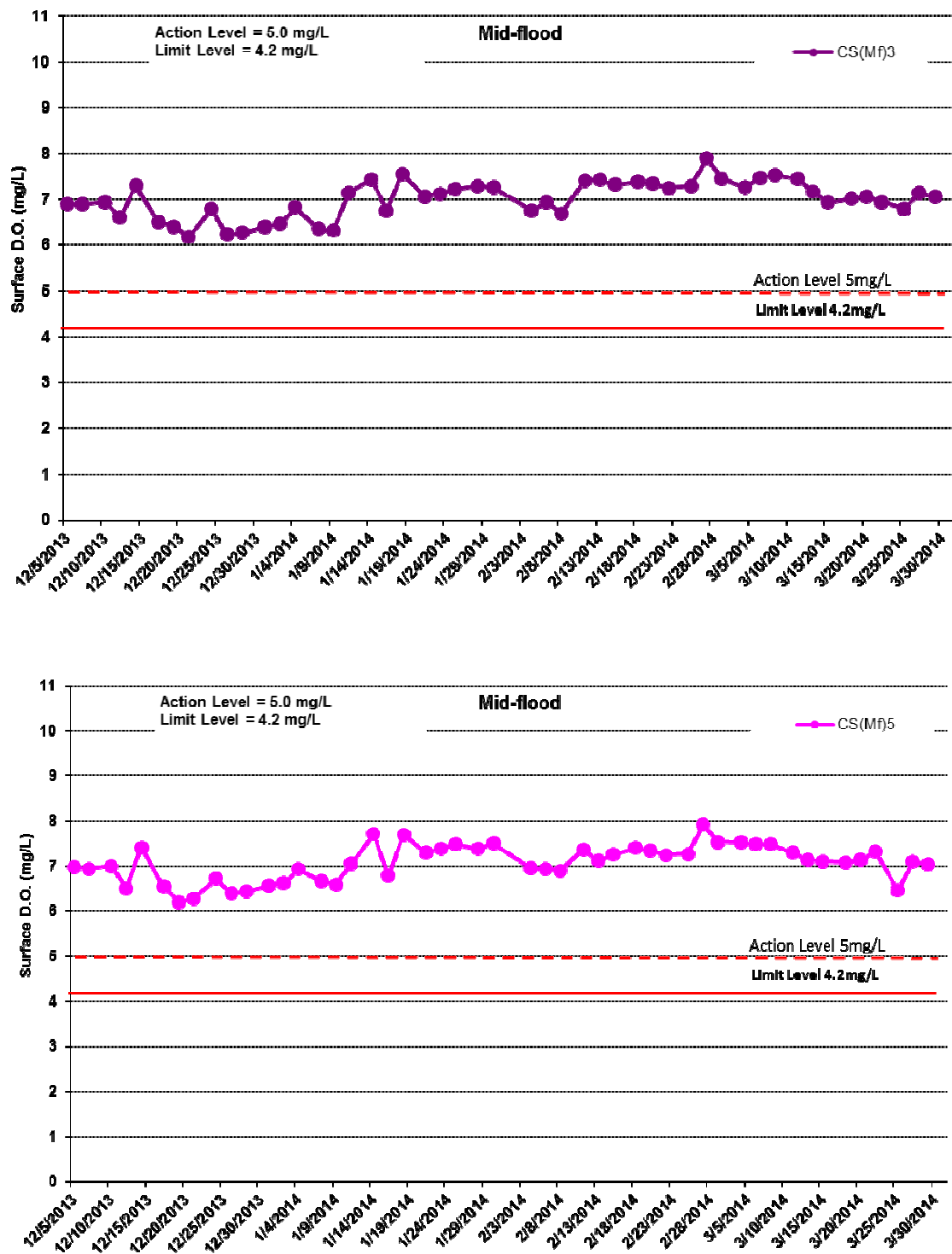


Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(Mf)5.

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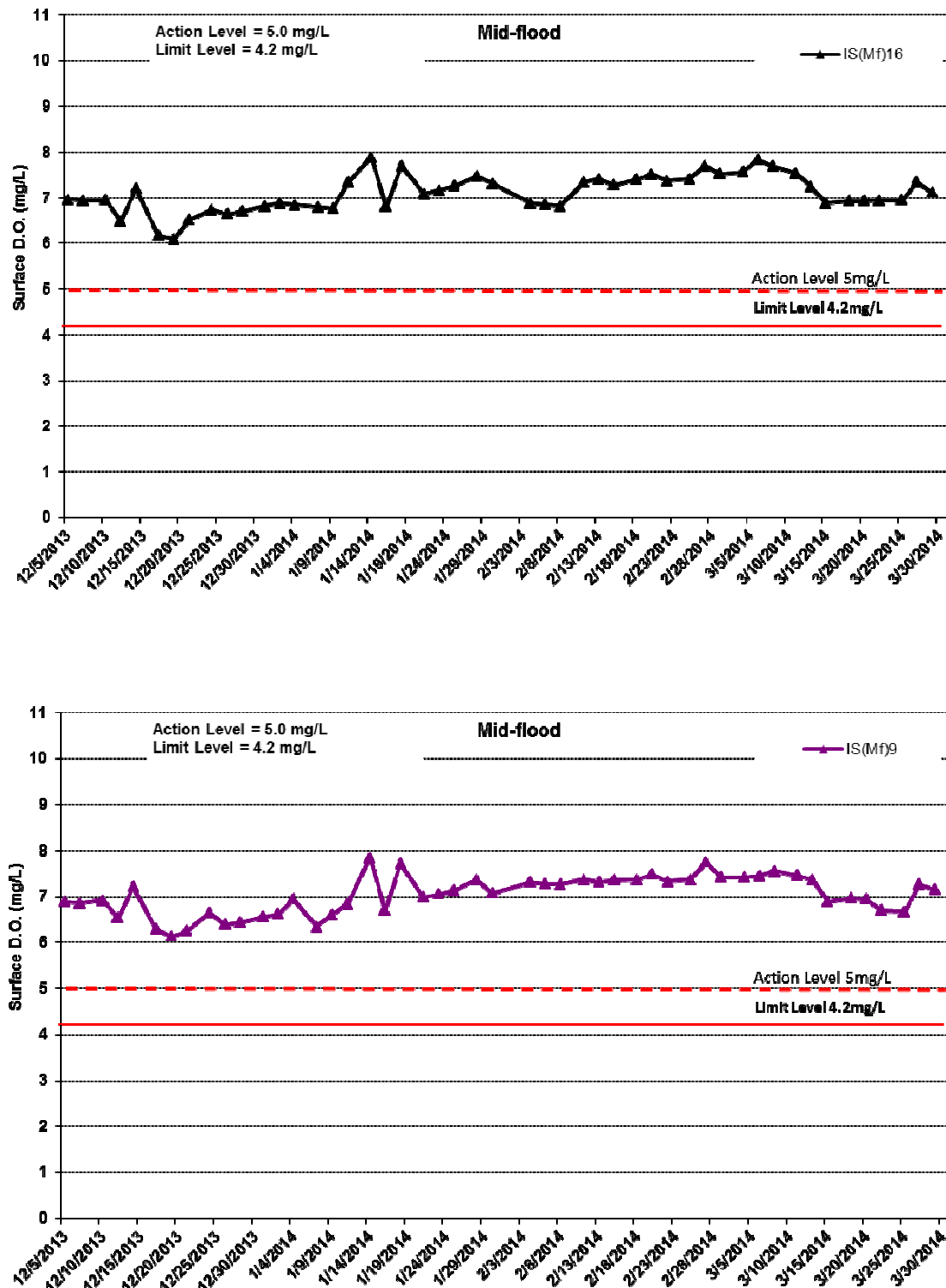


Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9.

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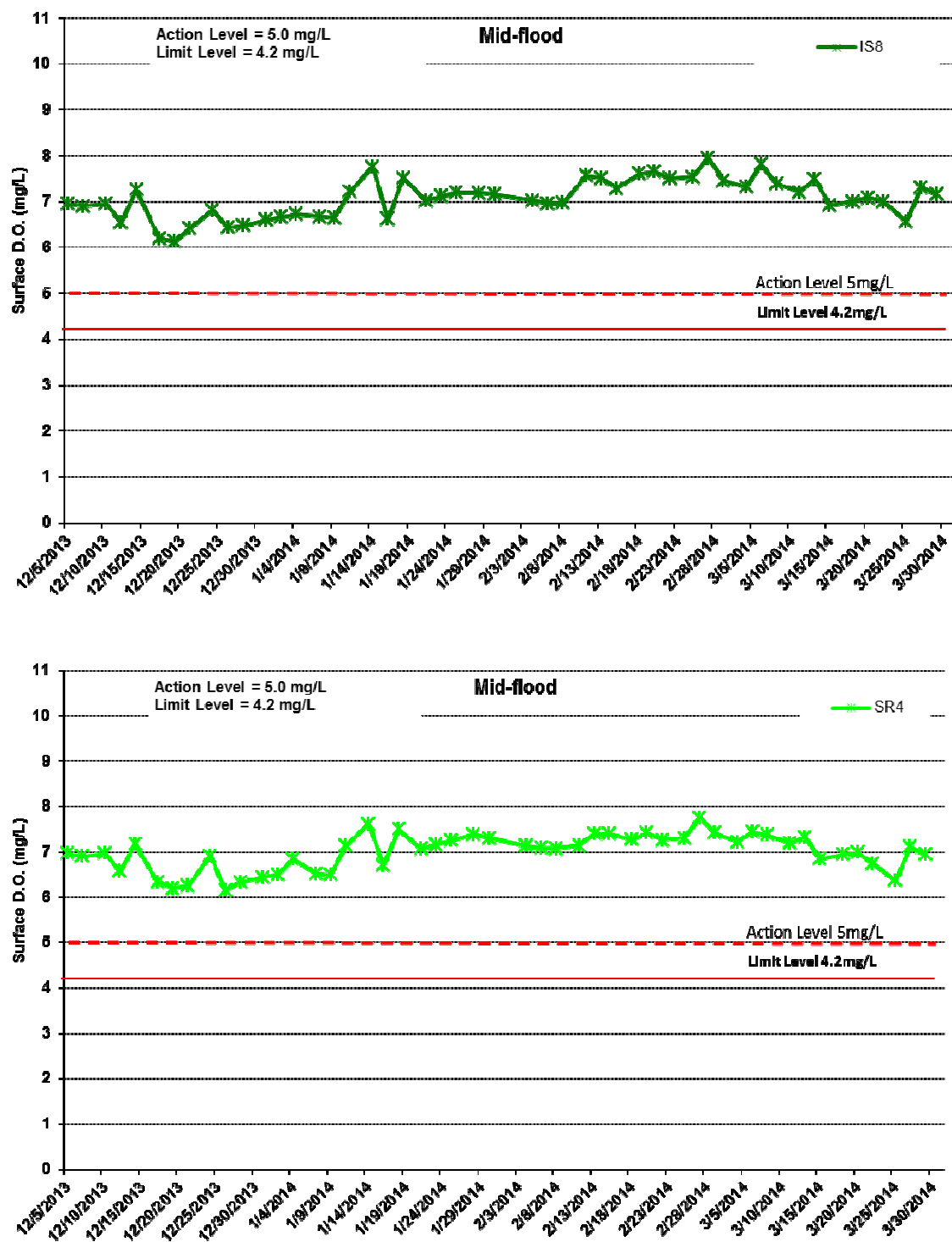


Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

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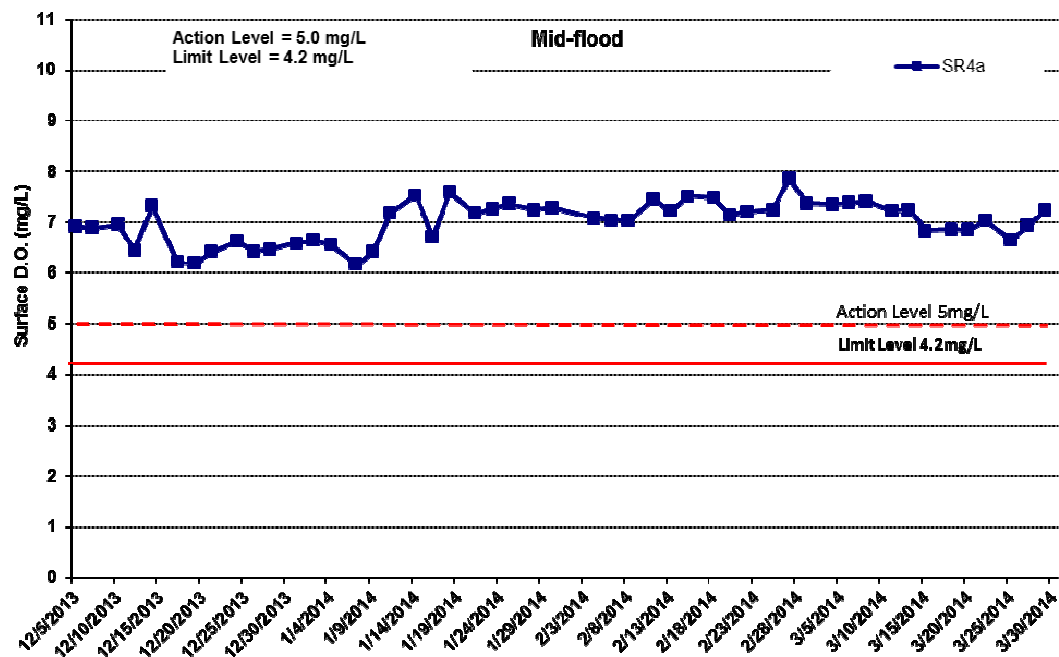


Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 December 2013 to 31 March 2014 at SR4a.

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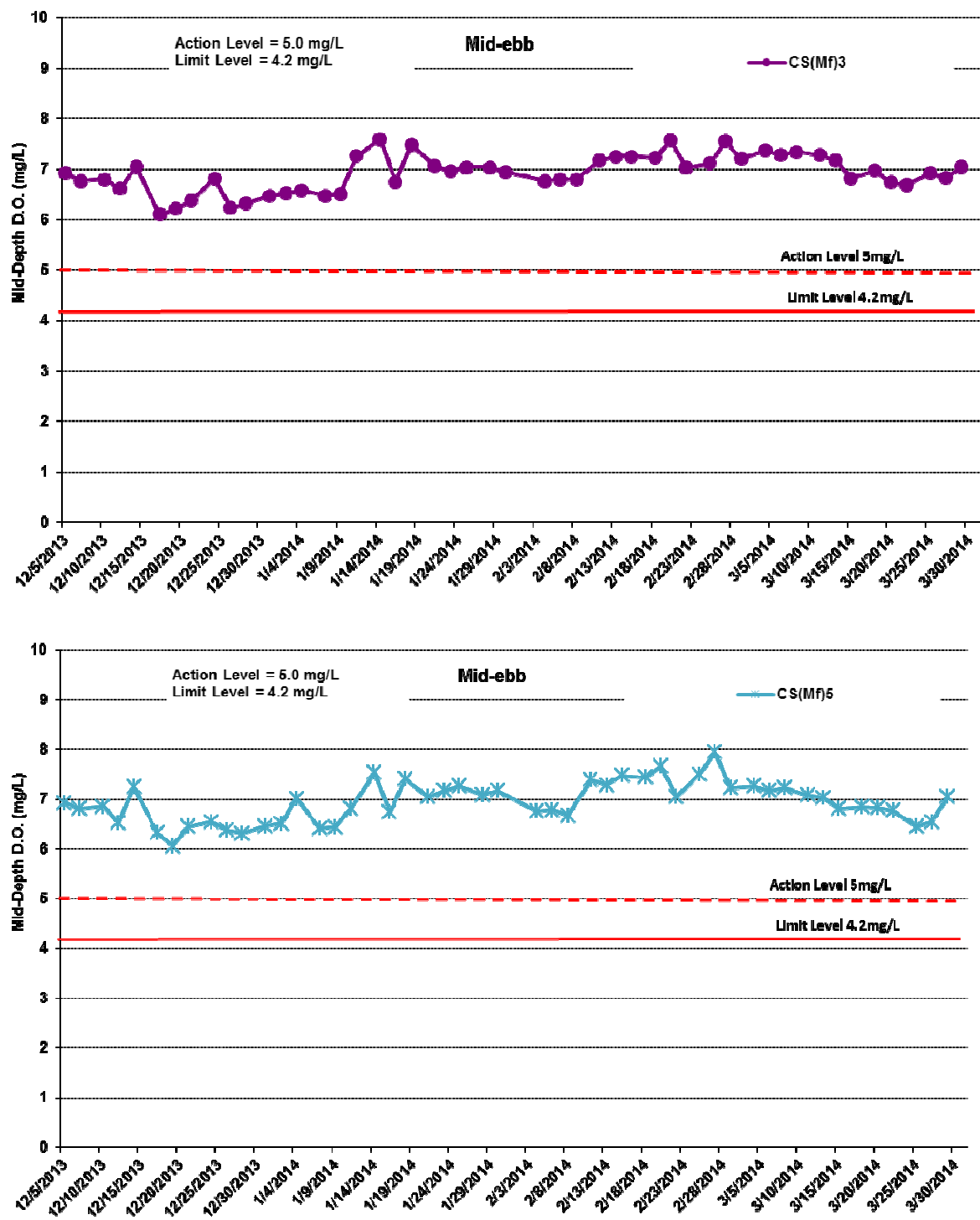


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and IS(Mf)5.

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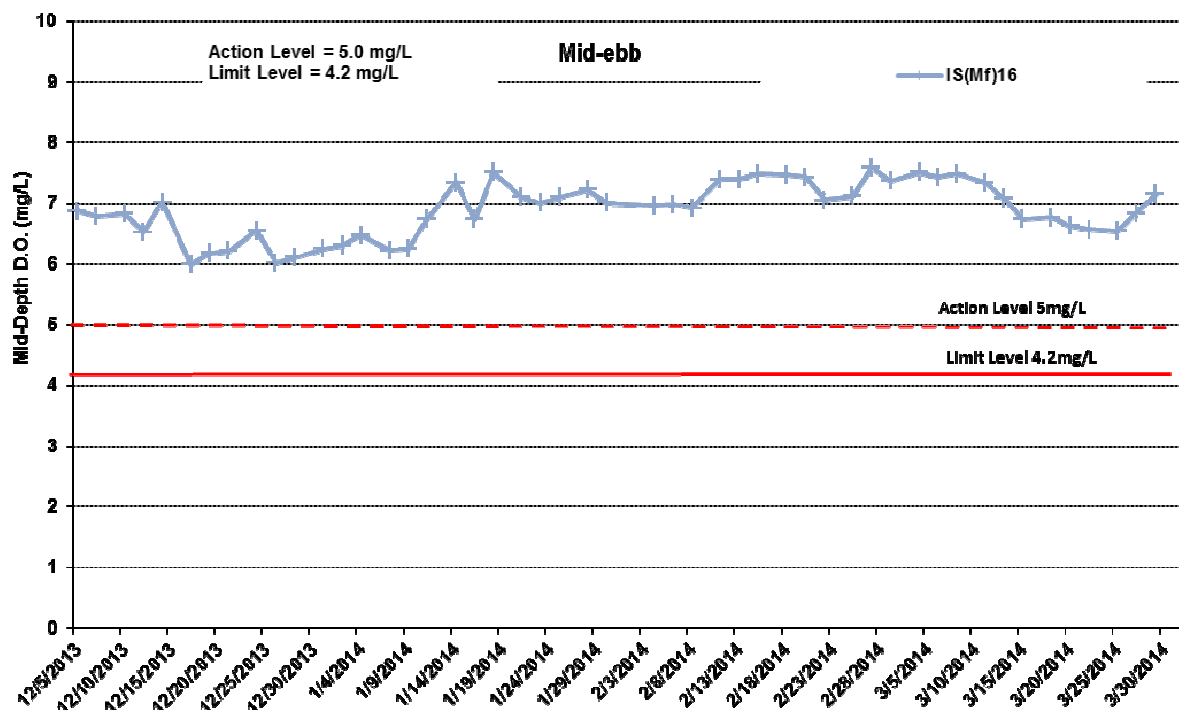


Figure J10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS(Mf)16.

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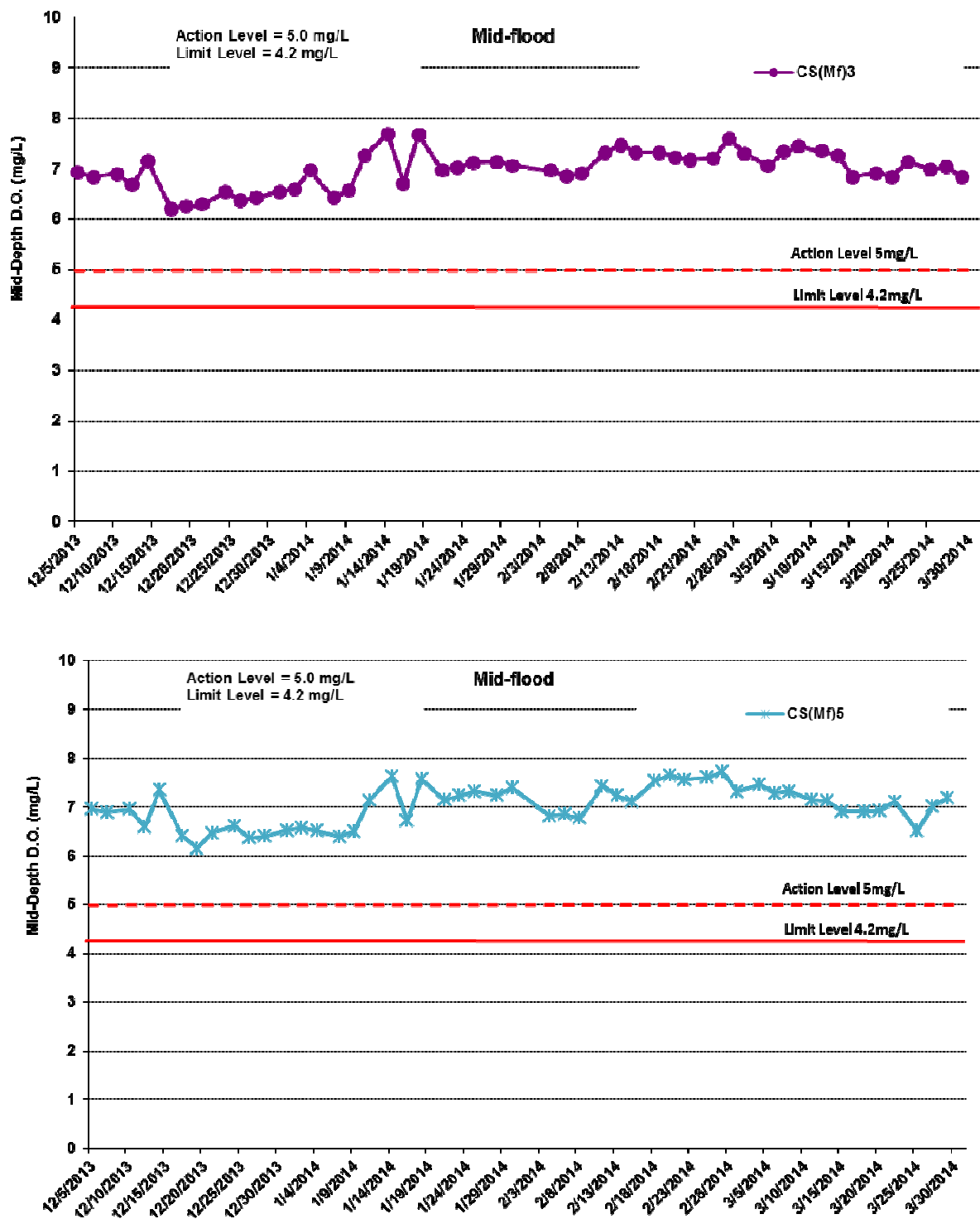


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and IS(Mf)5.

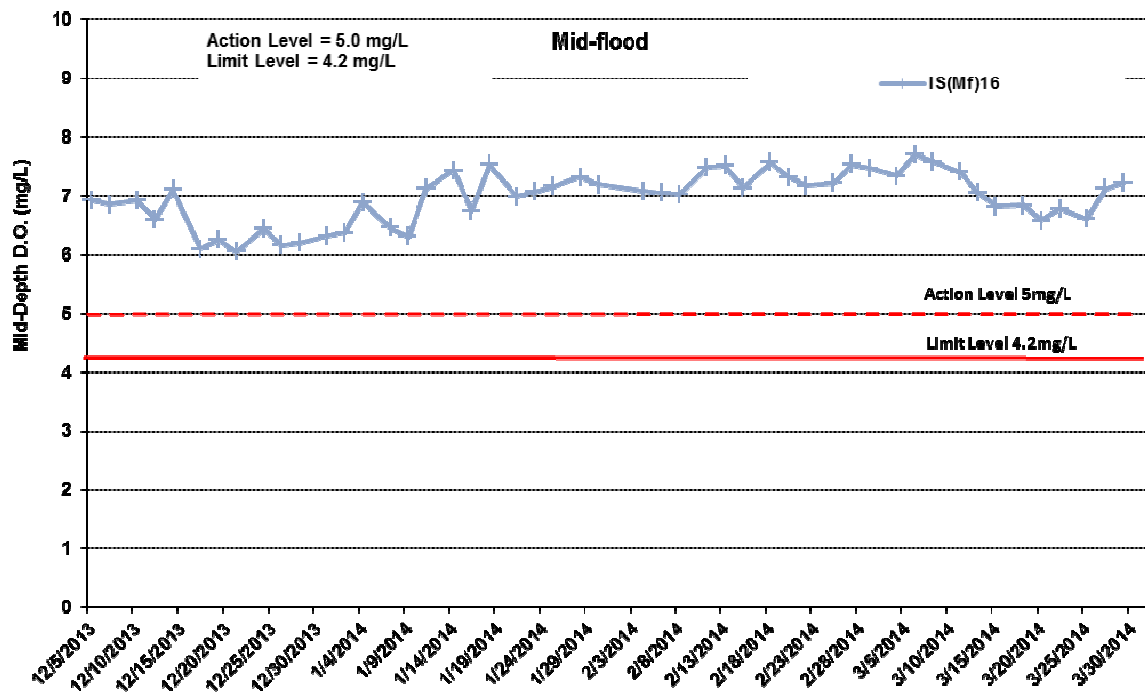


Figure J12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 December 2013 to 31 March 2014 at IS(Mf)16.

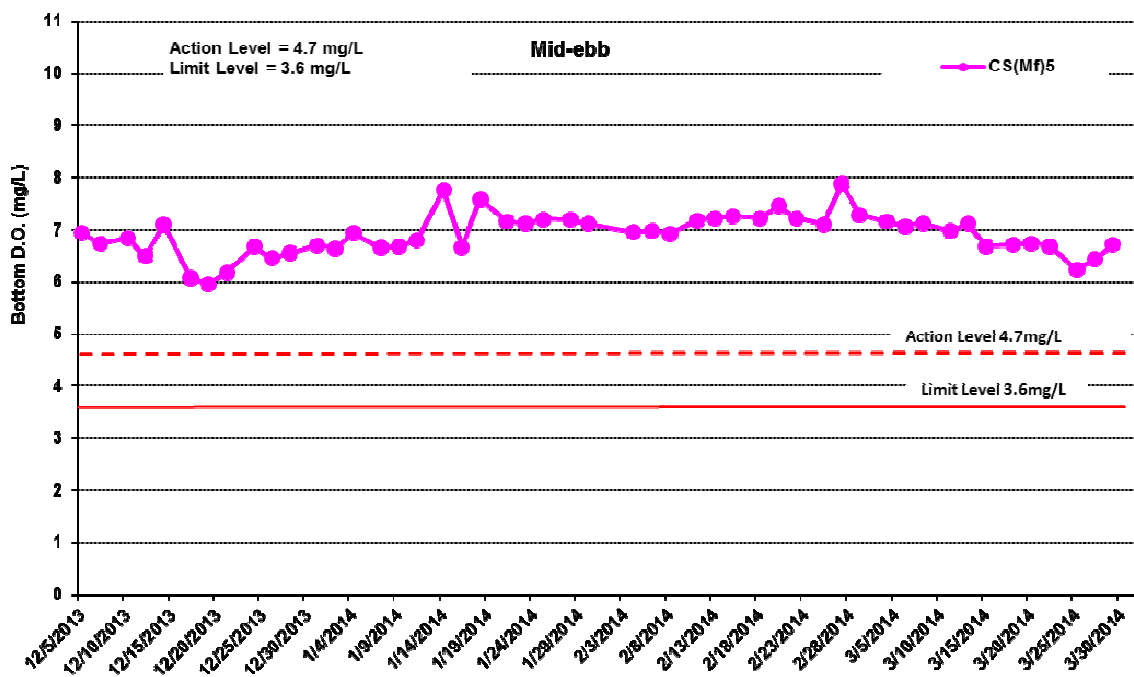
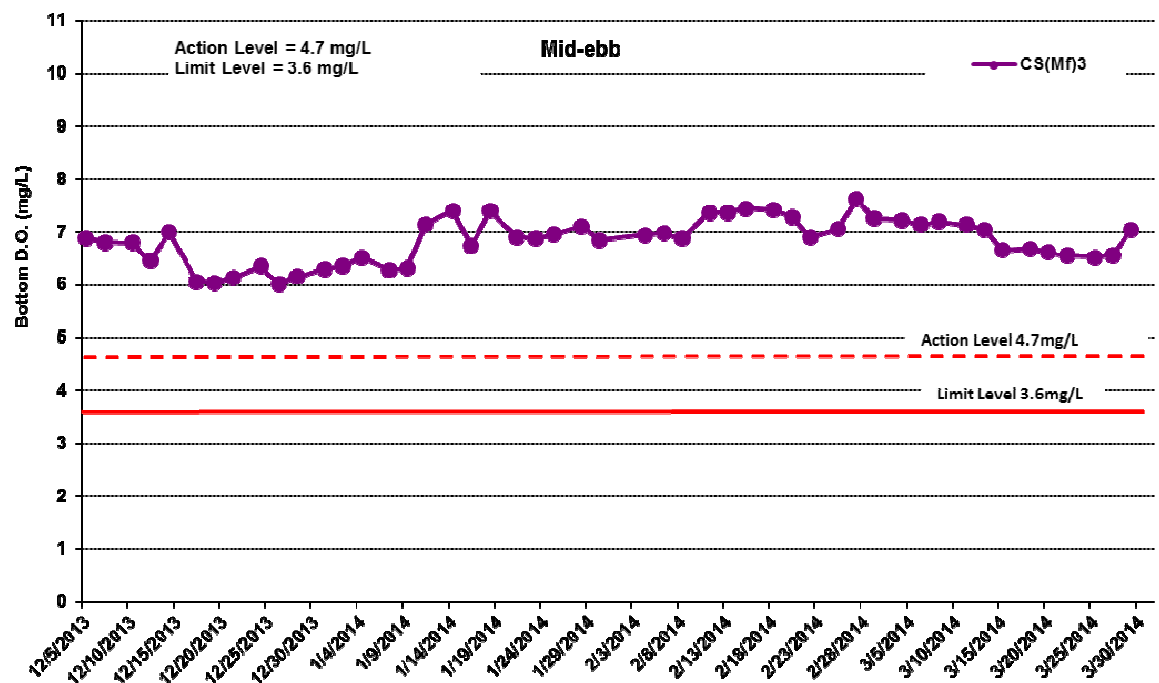


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(Mf)5.

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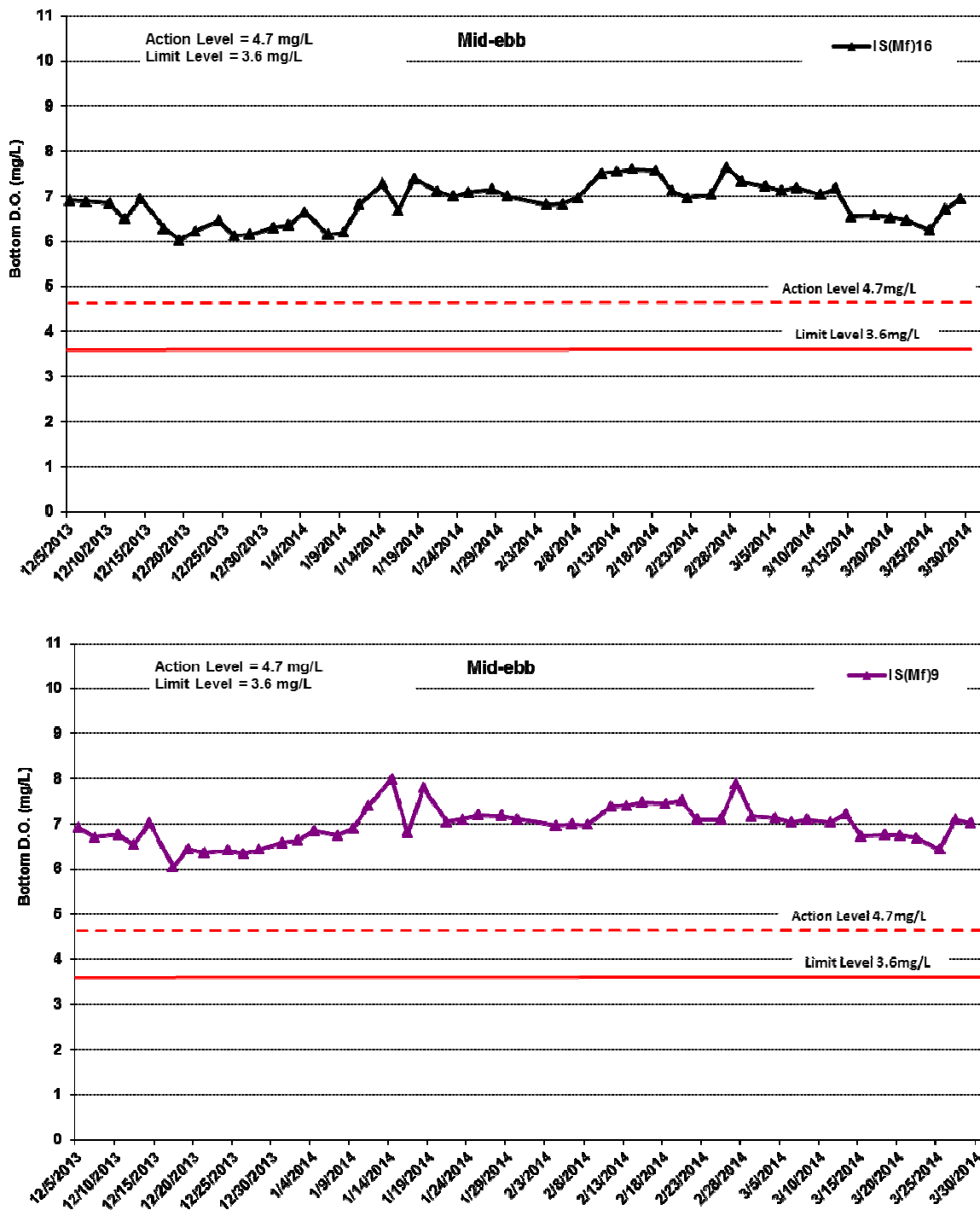


Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9.

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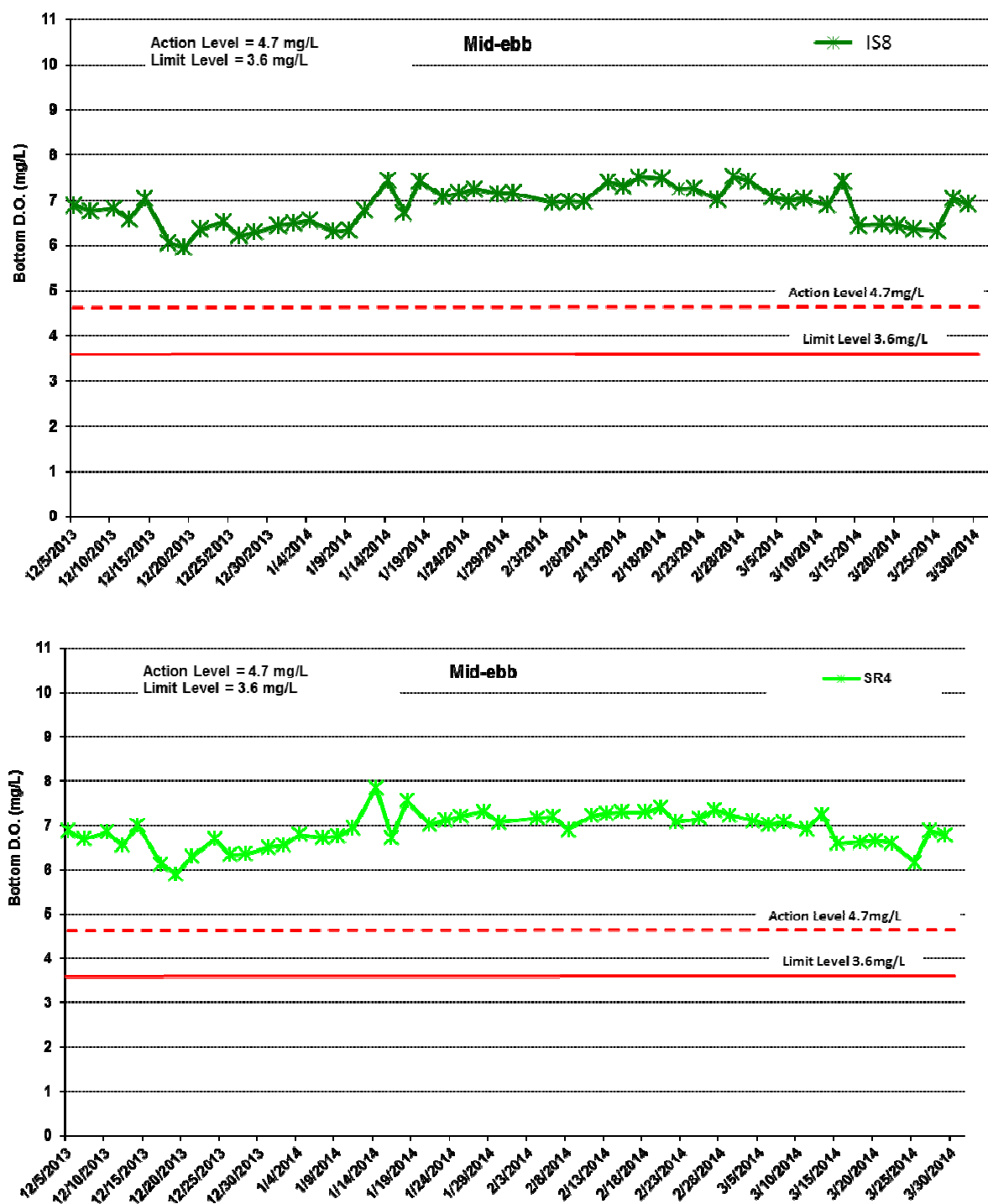


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

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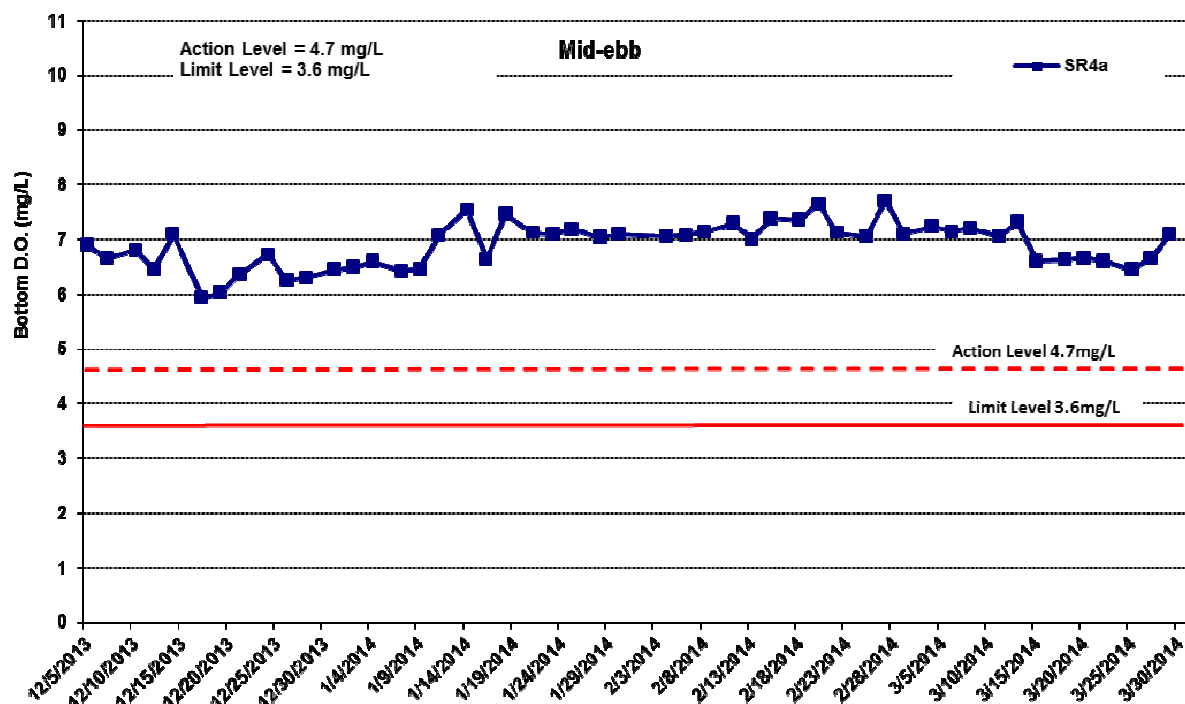


Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 December 2013 to 31 March 2014 at SR4a.

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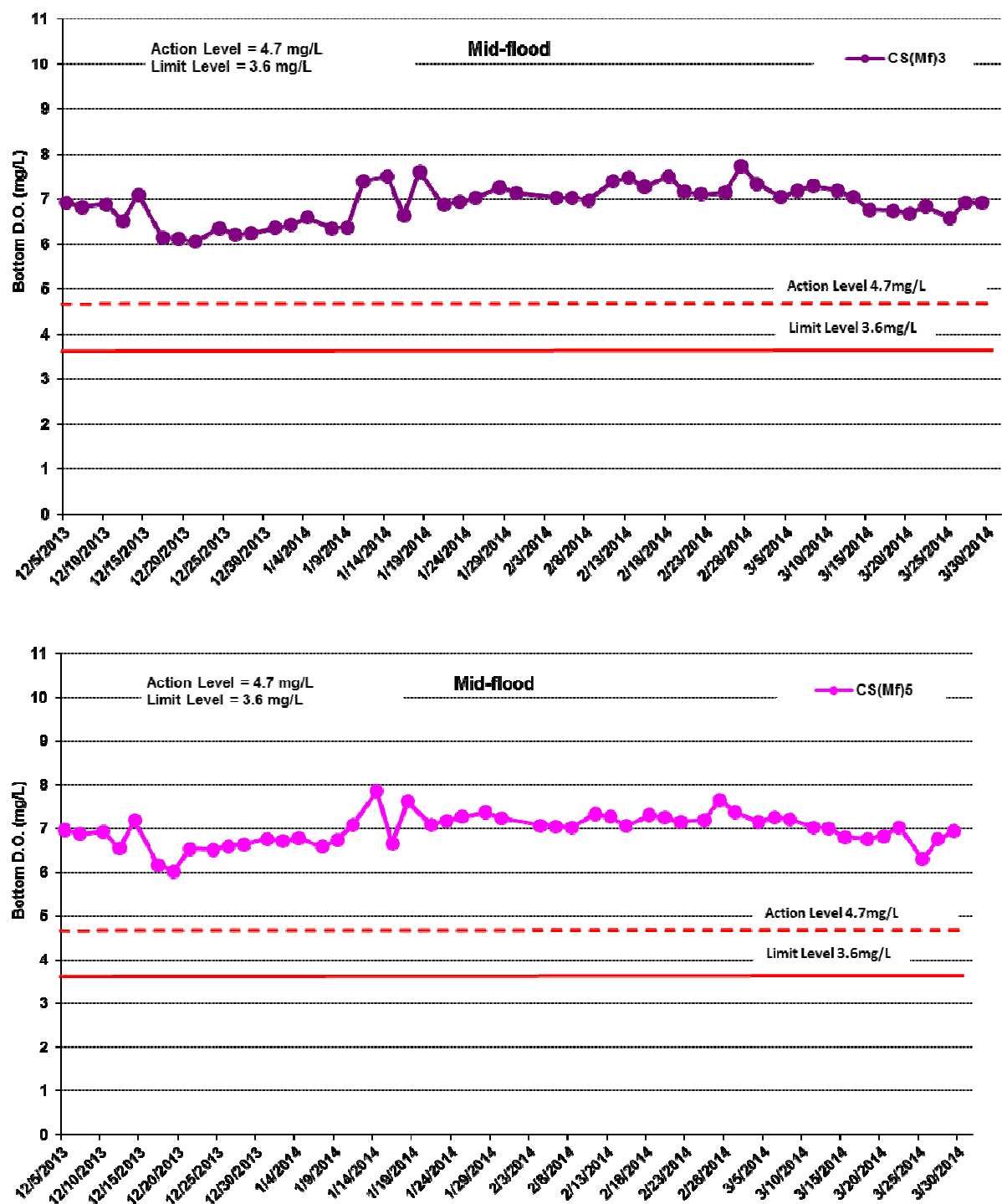


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(Mf)5.

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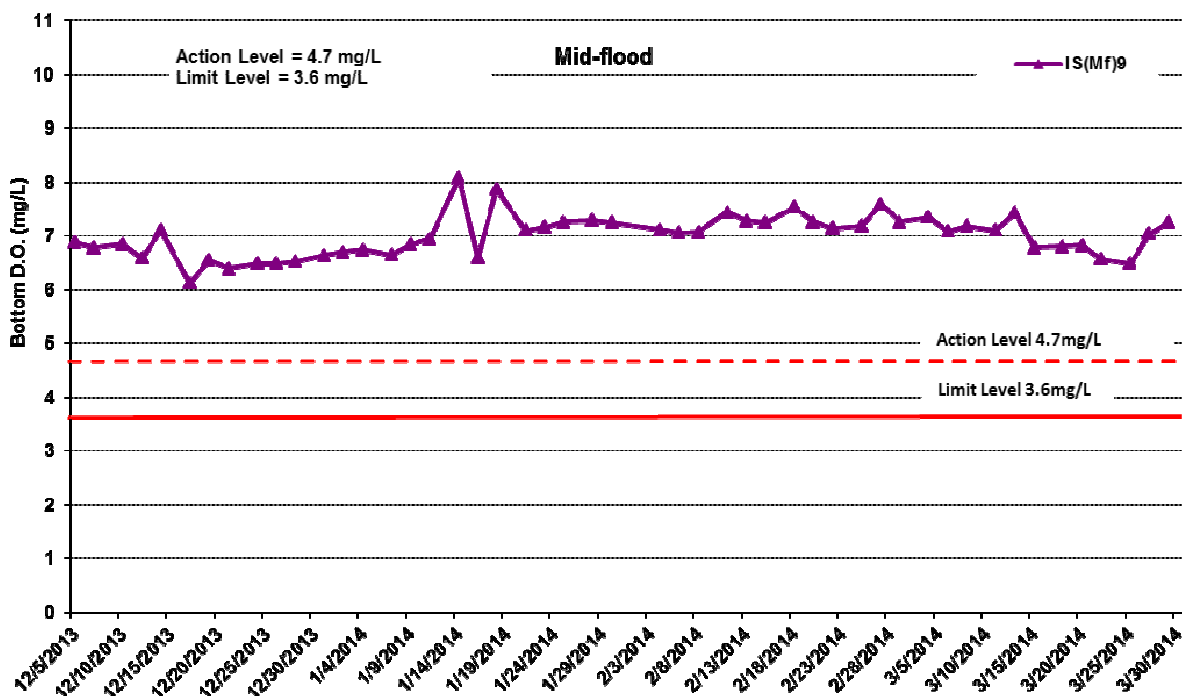
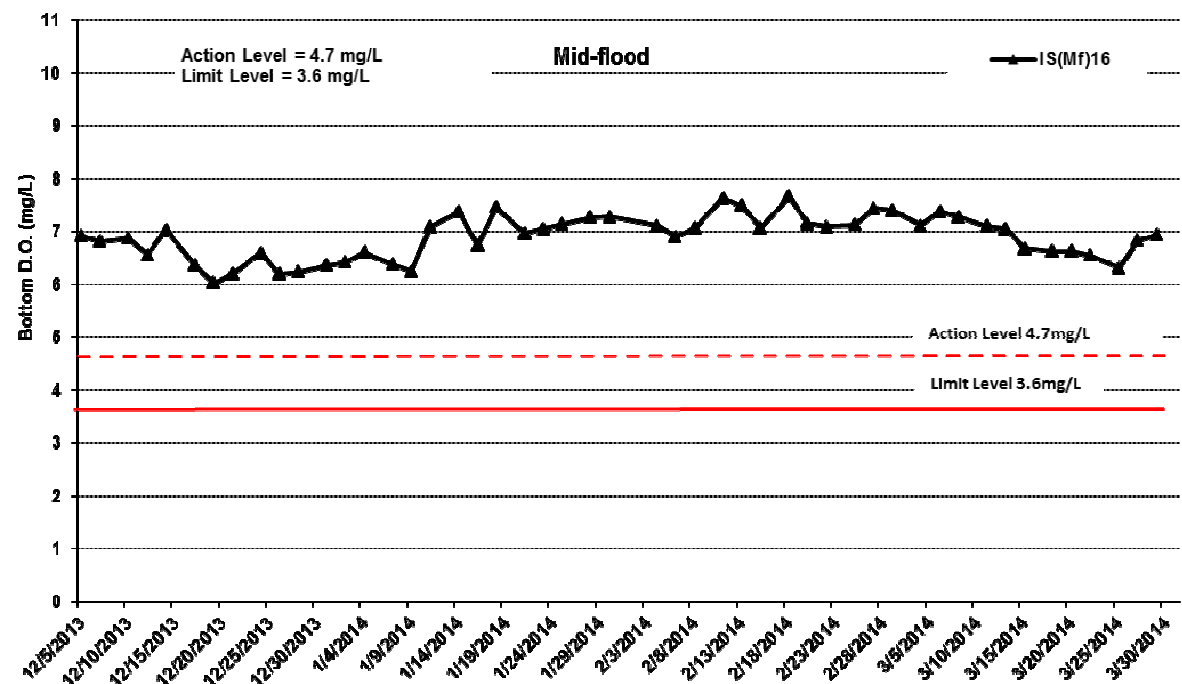


Figure J18 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9.

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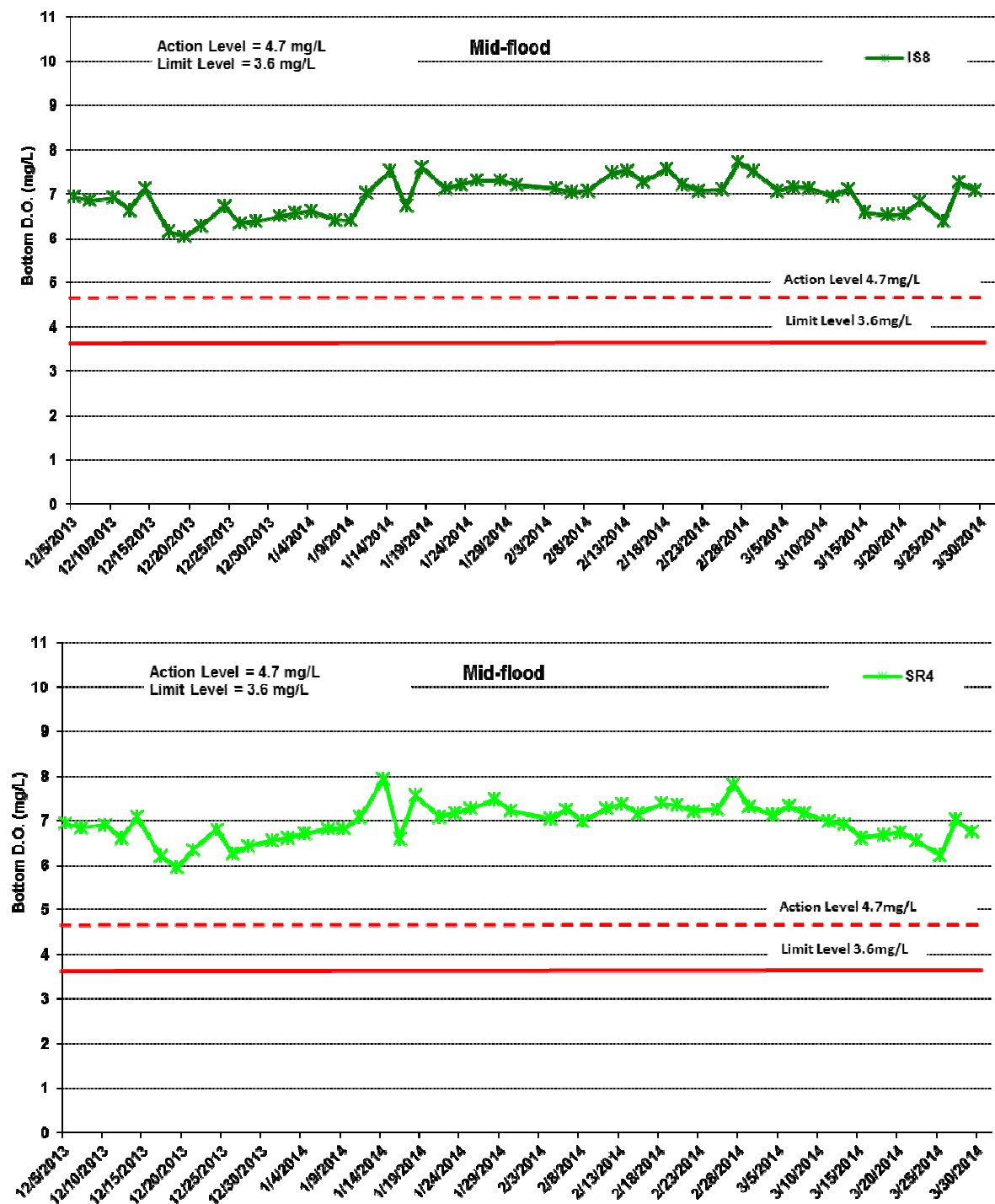


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

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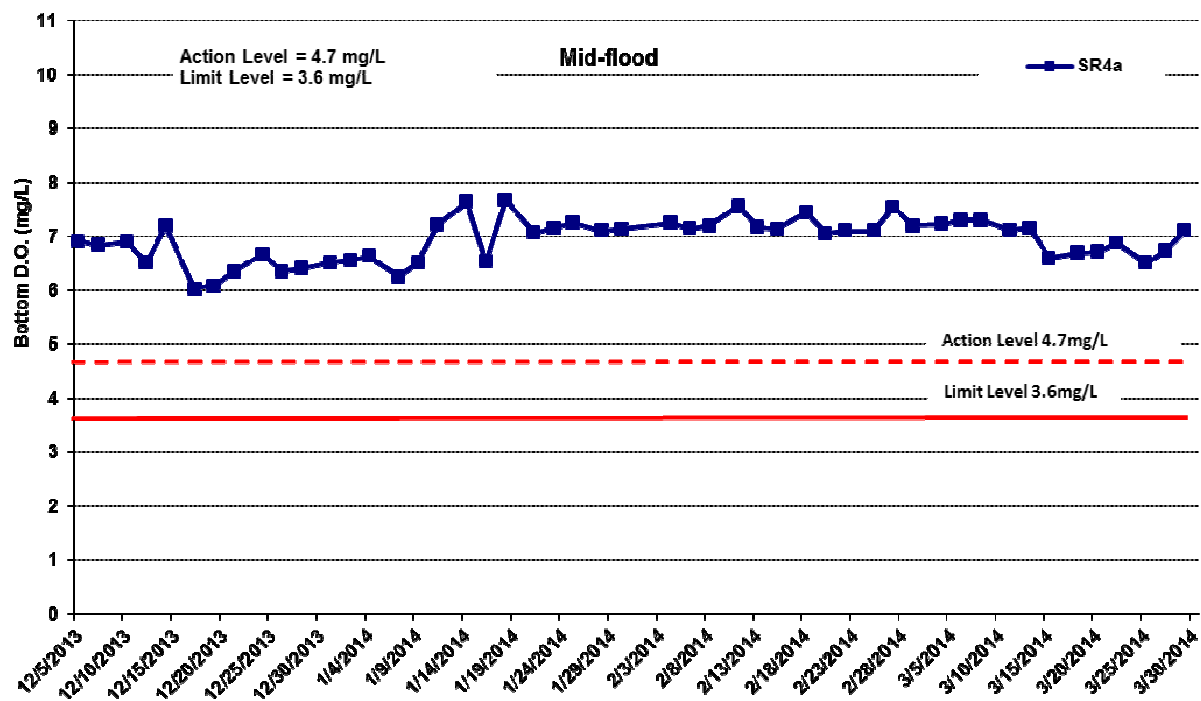


Figure J20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 December 2013 to 31 March 2014 at SR4a.

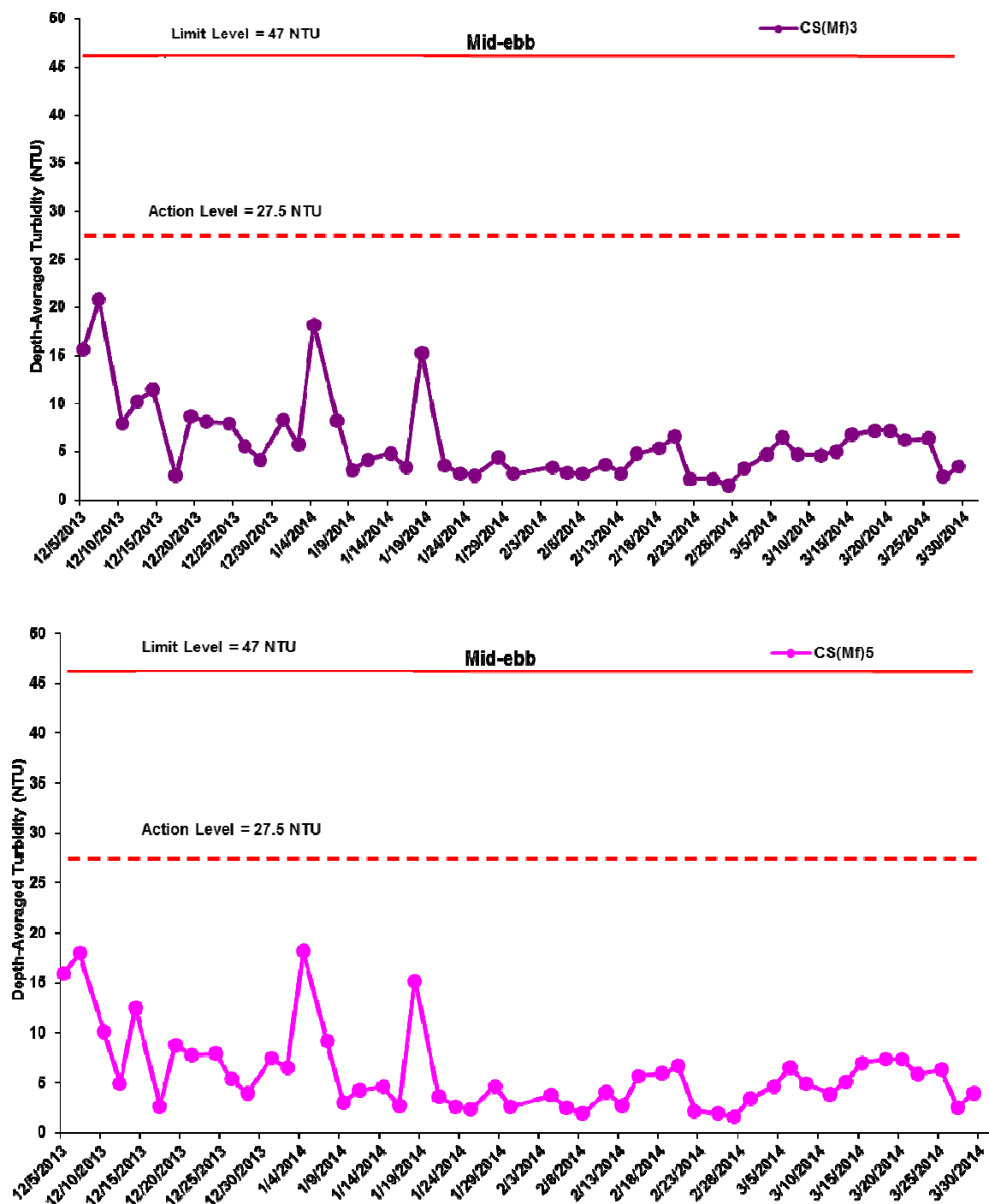


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(Mf)5.

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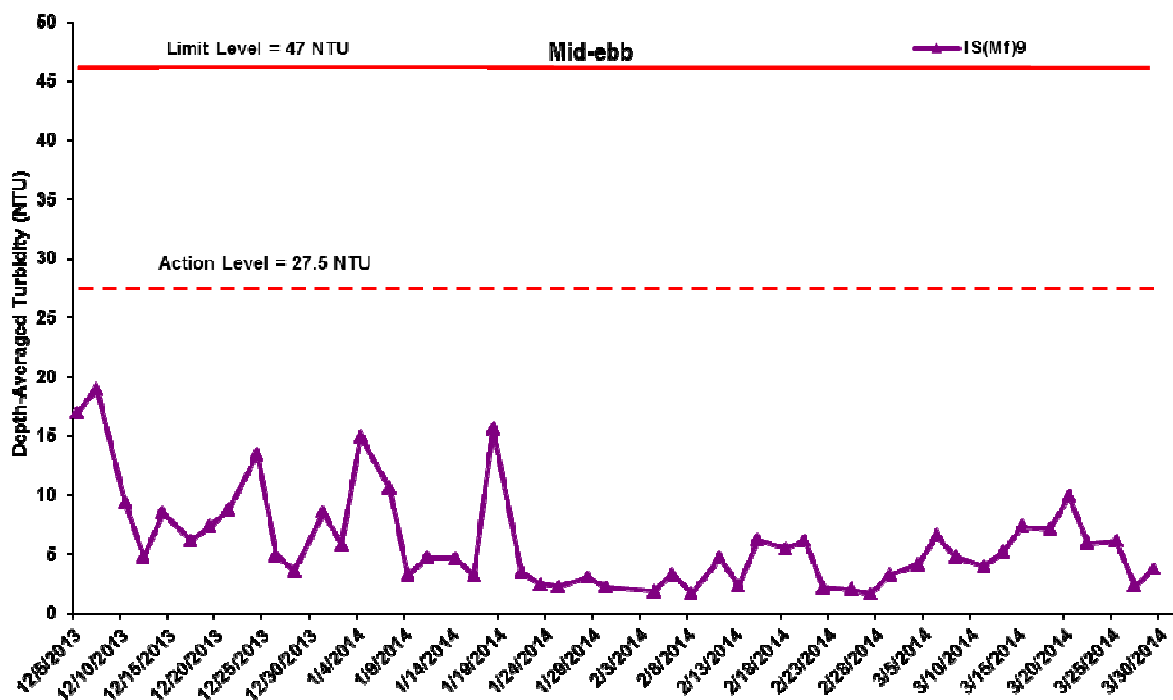
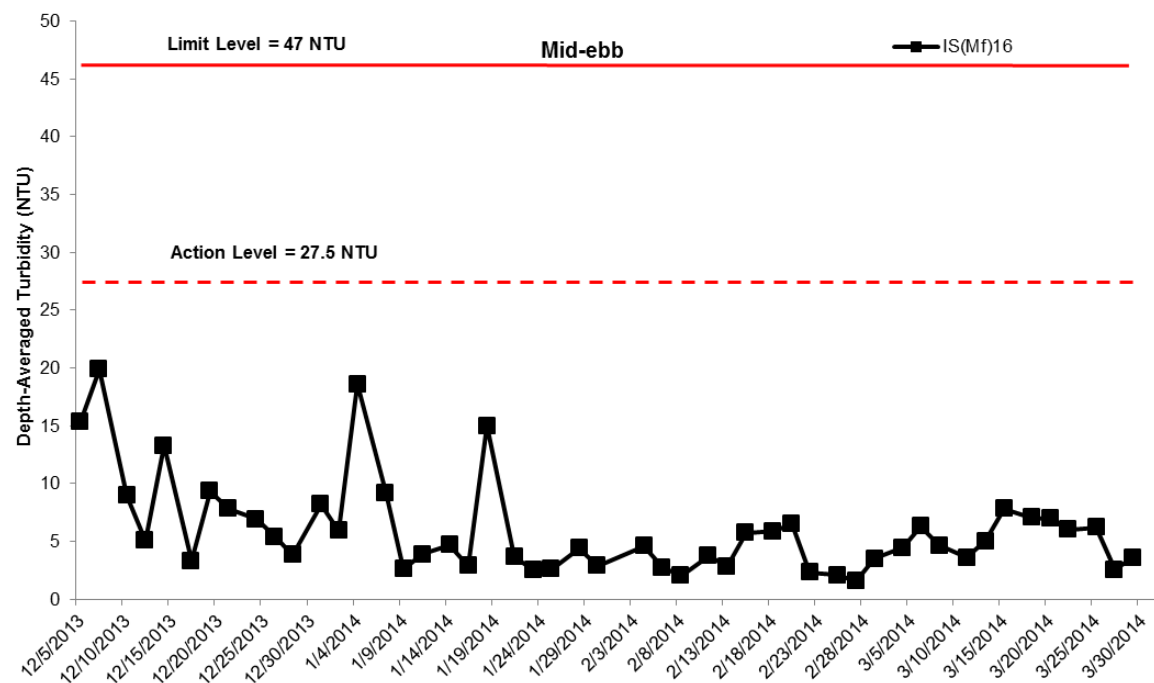


Figure J22 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9.

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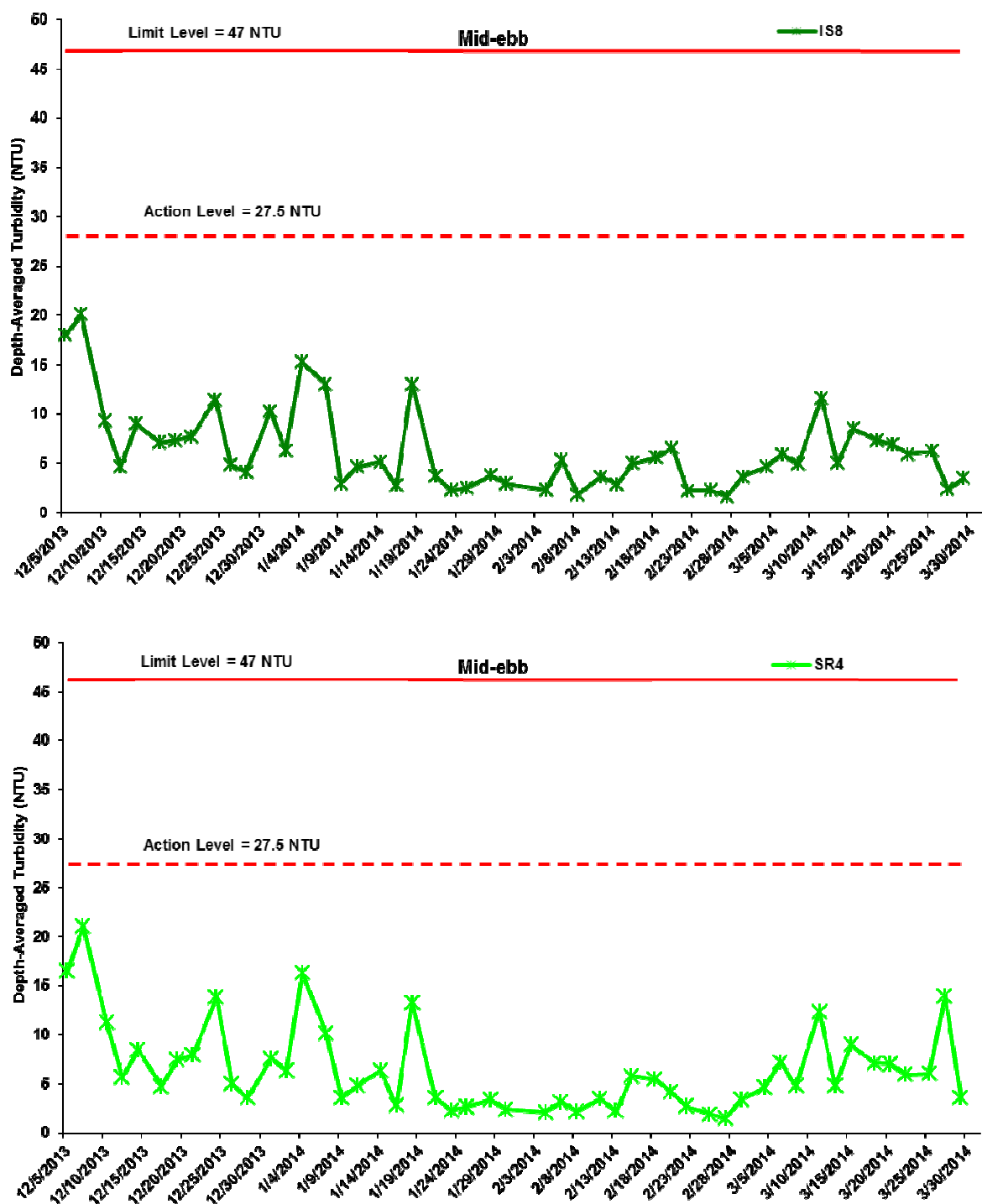


Figure J23 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

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Resources
Management



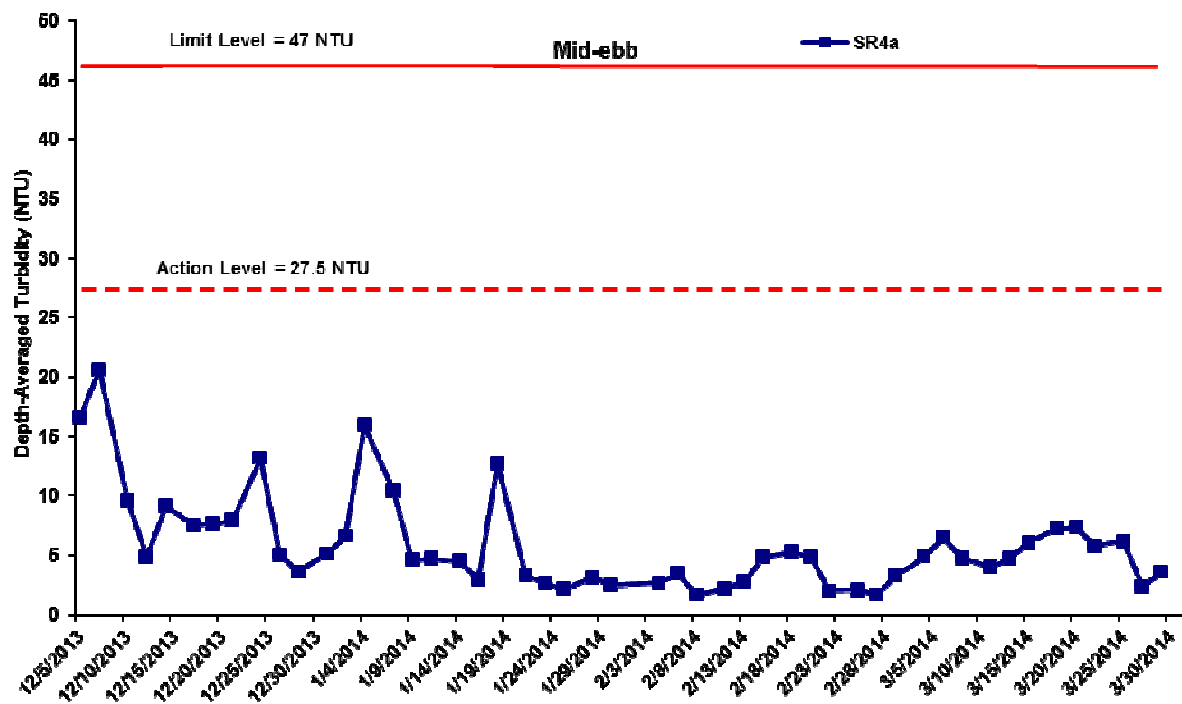


Figure J24 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 December 2013 to 31 March 2014 at SR4a.

Environmental
Resources
Management



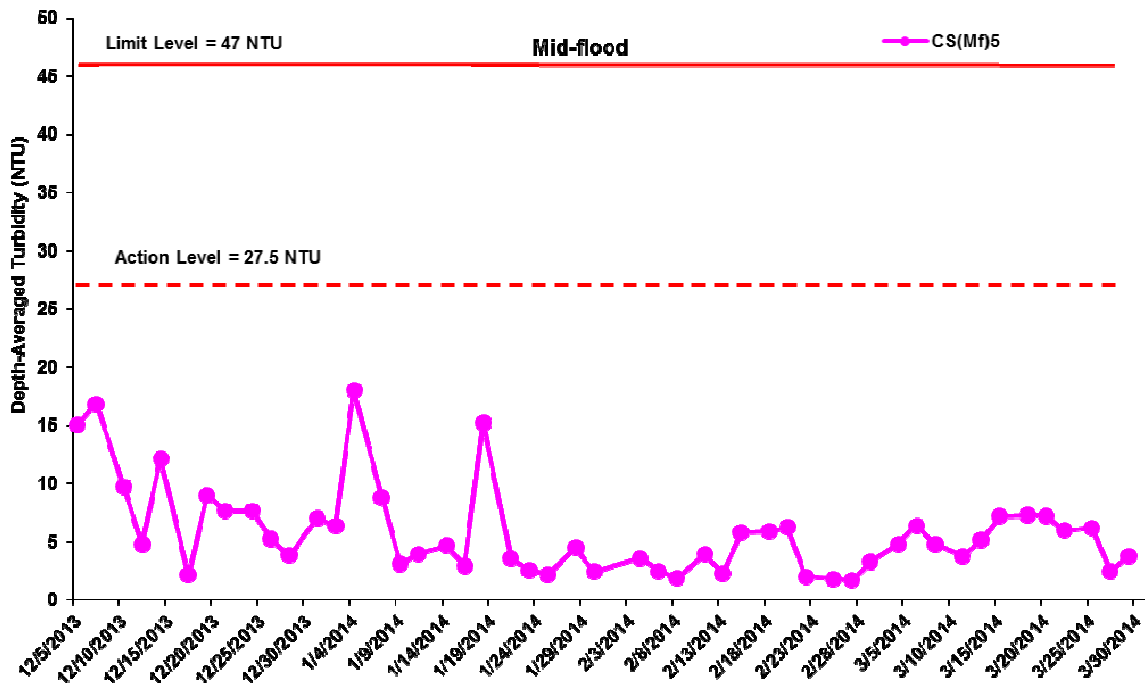
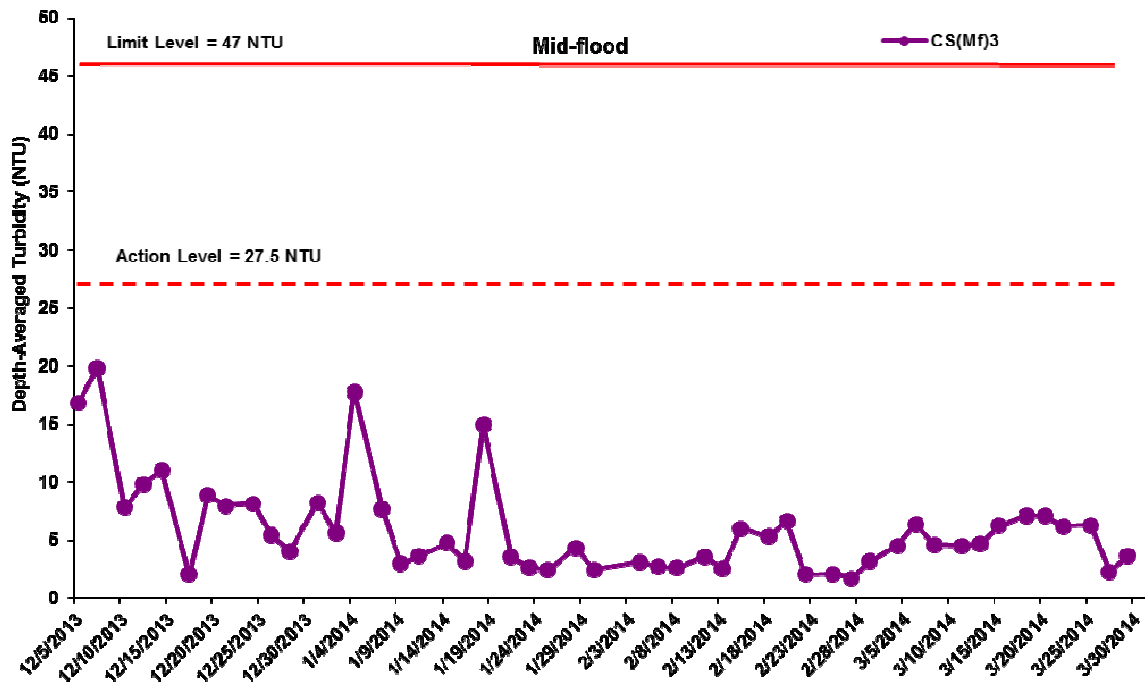


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(MF)5.

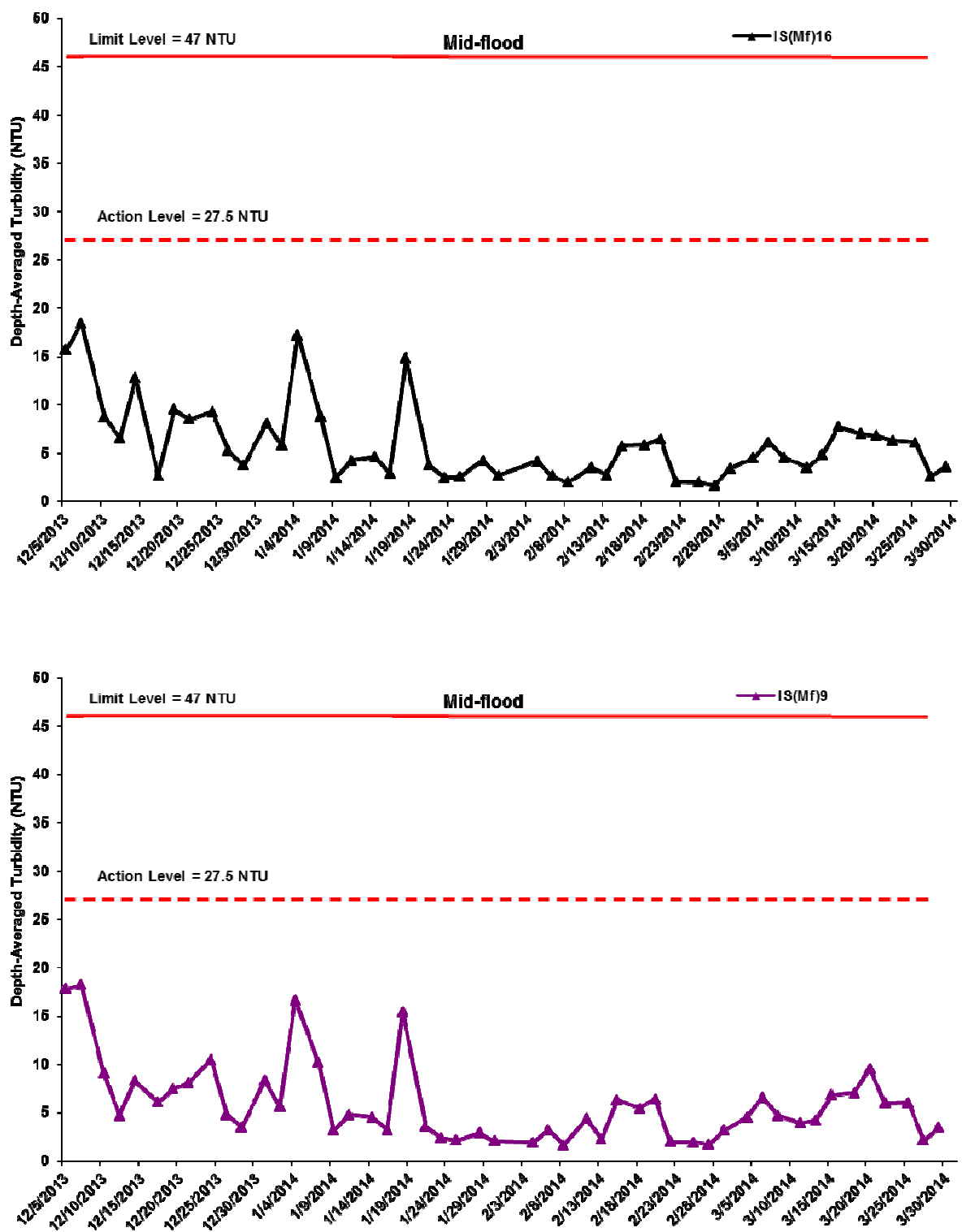


Figure J26 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9.

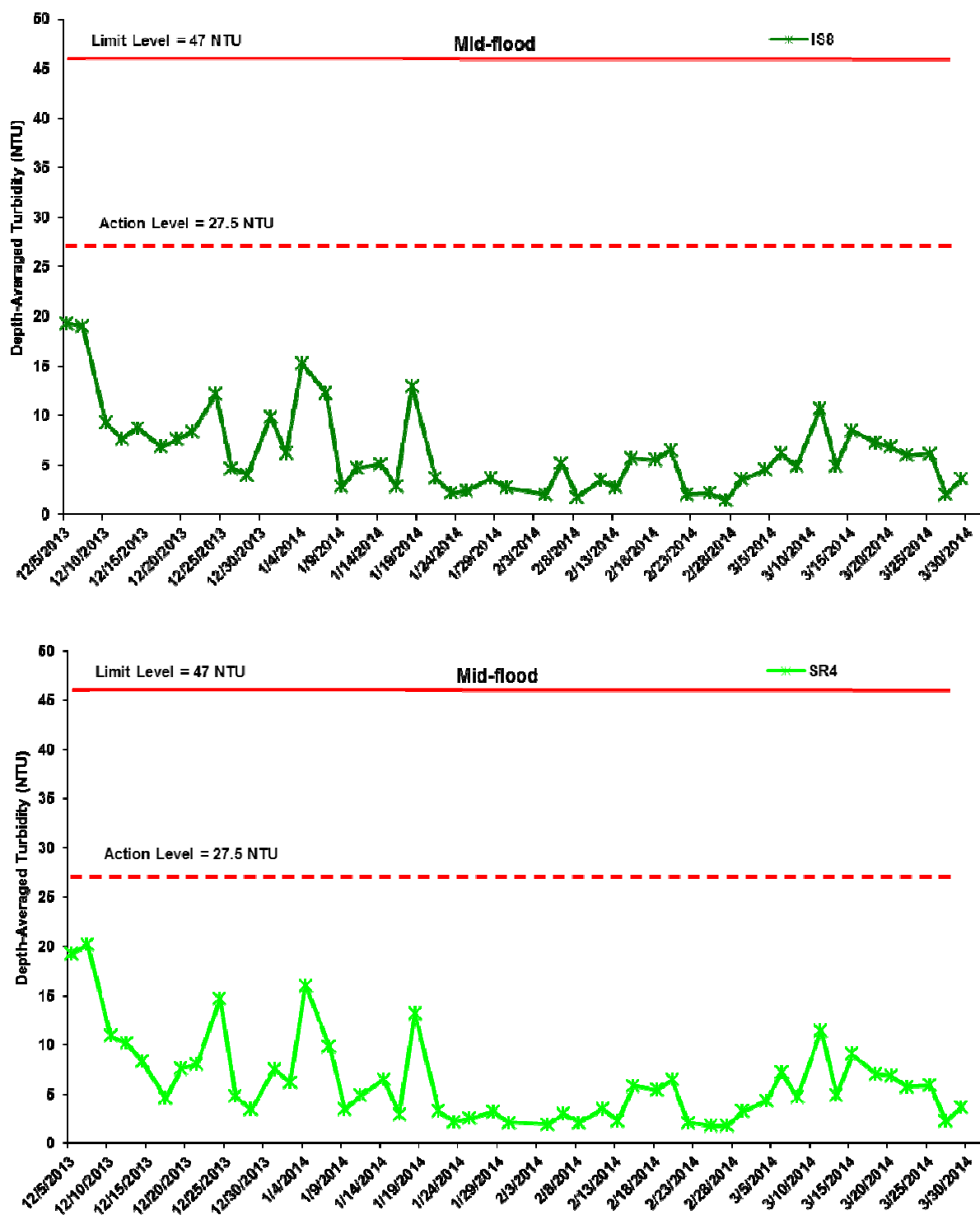


Figure J27 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

Environmental
Resources
Management



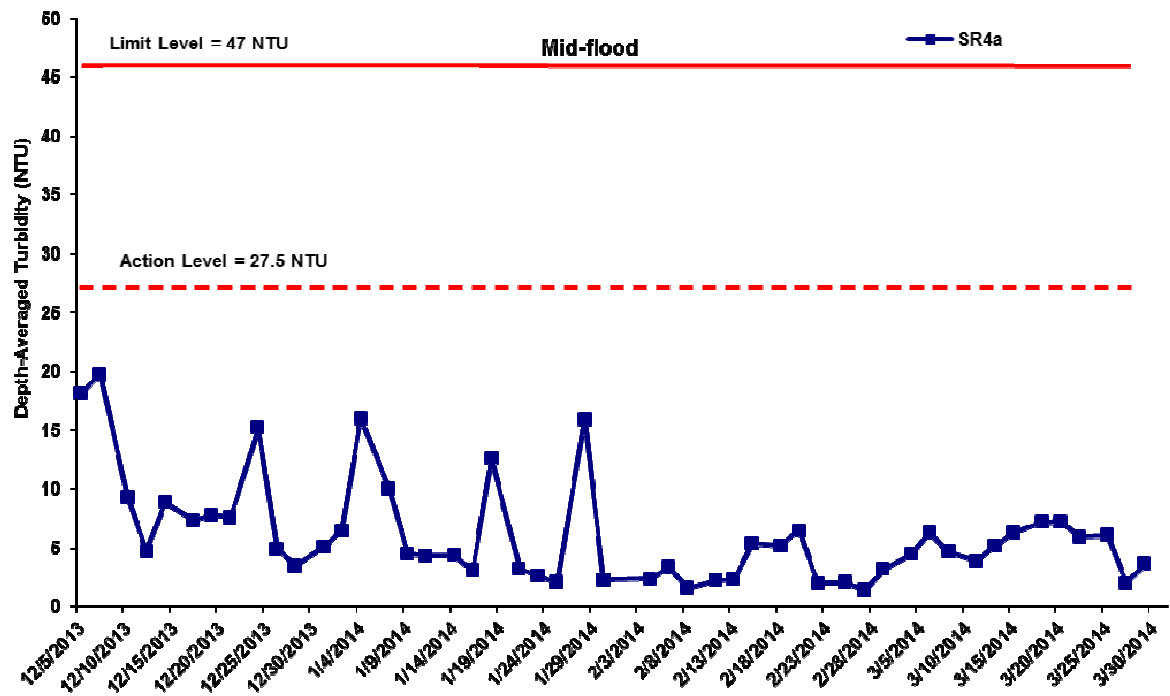


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 December 2013 to 31 March 2014 at SR4a.

Environmental
Resources
Management



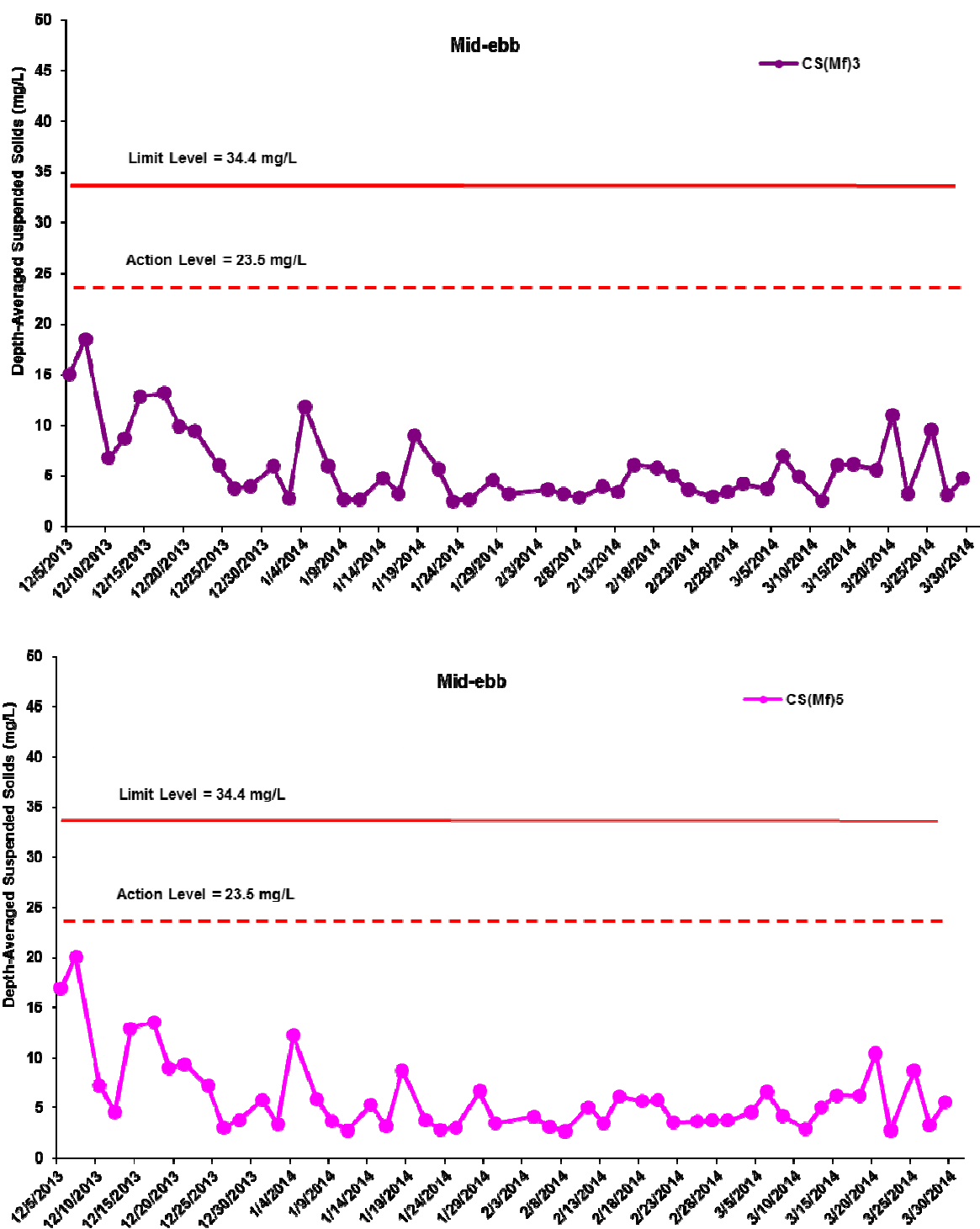


Figure J29 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(Mf)5.

Environmental
Resources
Management



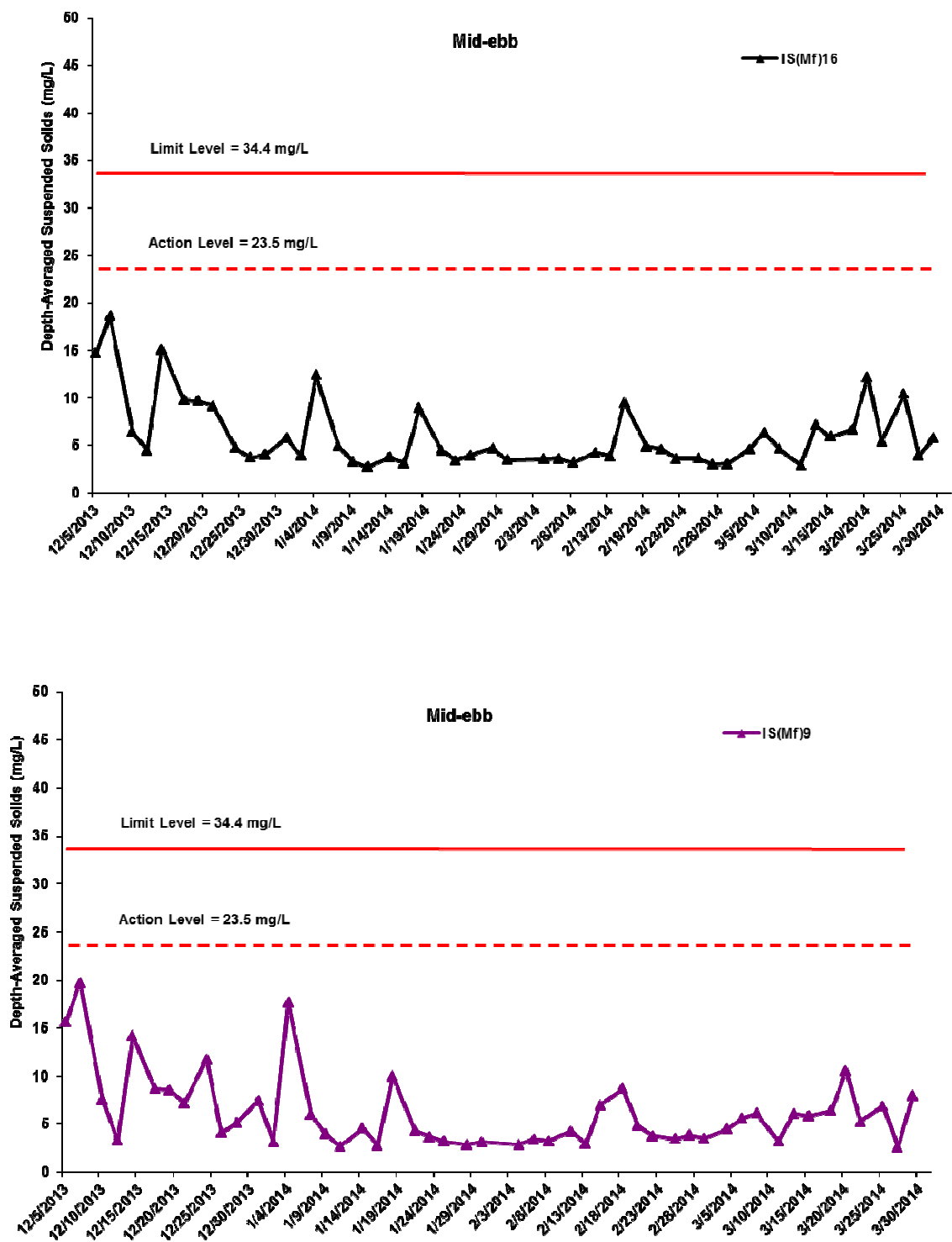


Figure J30 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9.

Environmental
Resources
Management



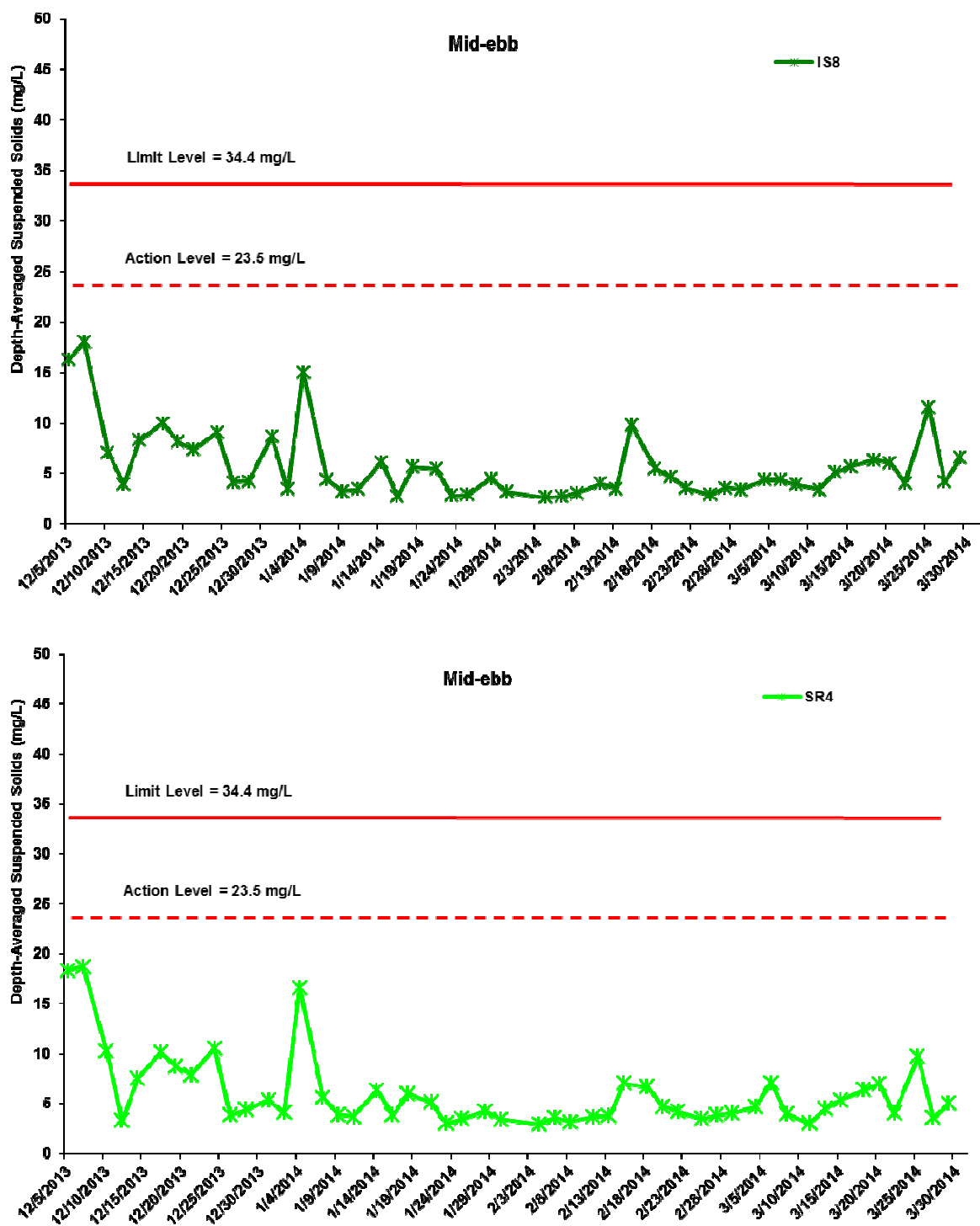


Figure J31 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

Environmental
Resources
Management



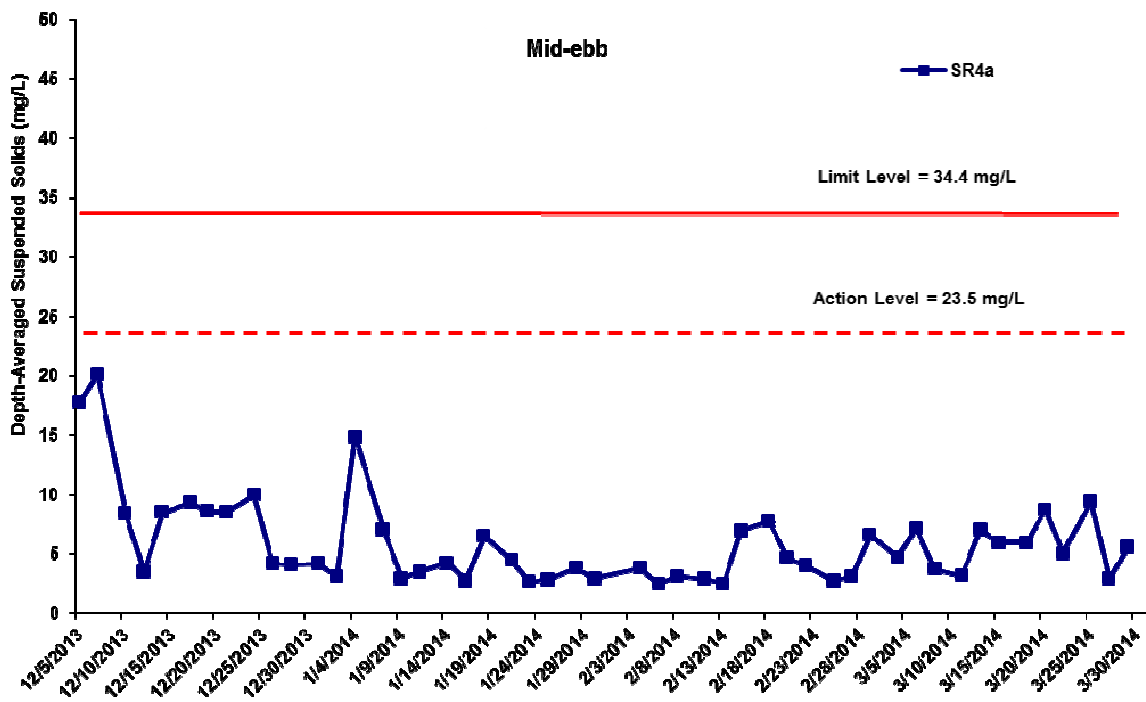


Figure J32 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 December 2013 to 31 March 2014 at SR4a.

Environmental
Resources
Management



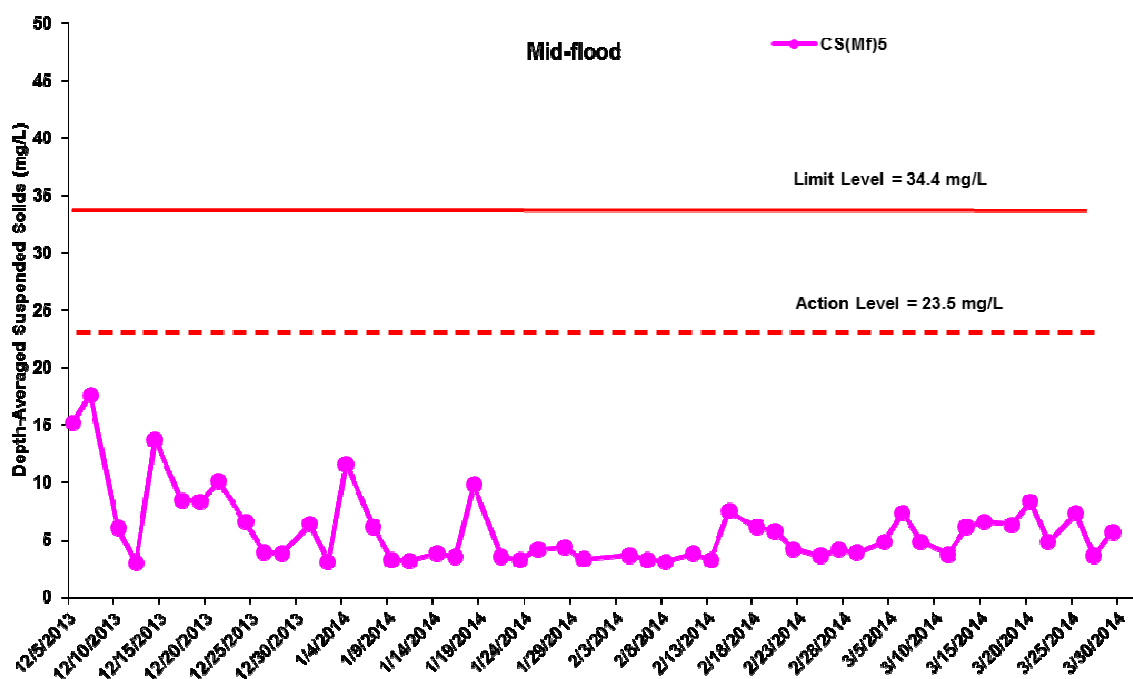
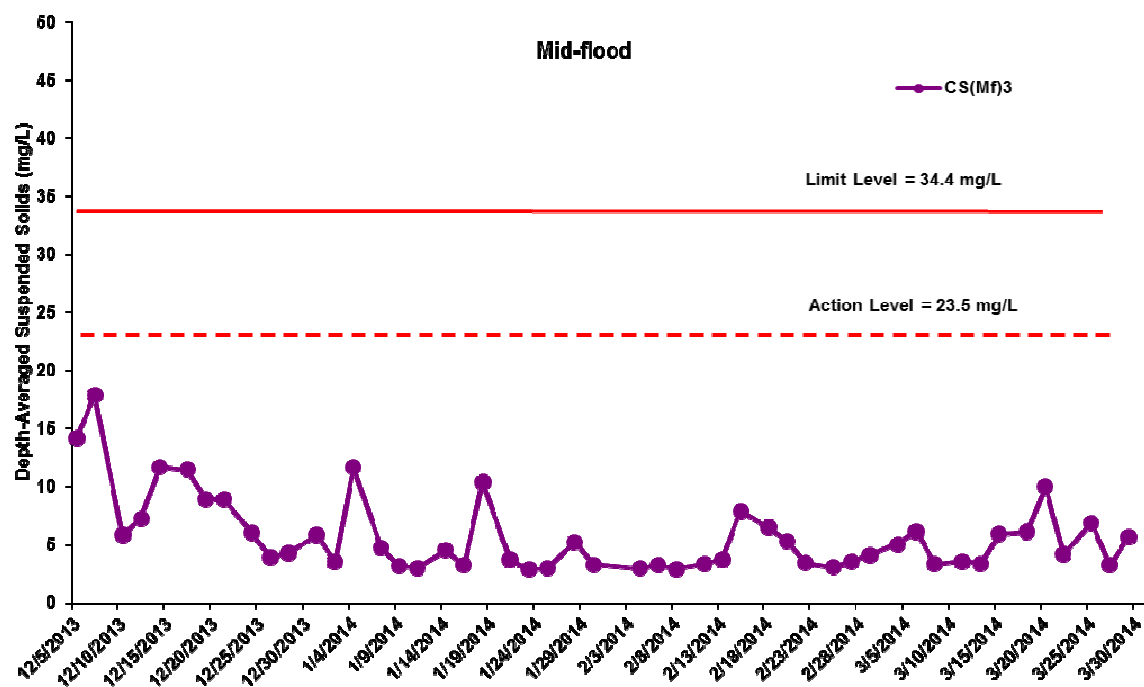


Figure J33 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 December 2013 to 31 March 2014 at CS(Mf)3 and CS(Mf)5.

Environmental
Resources
Management



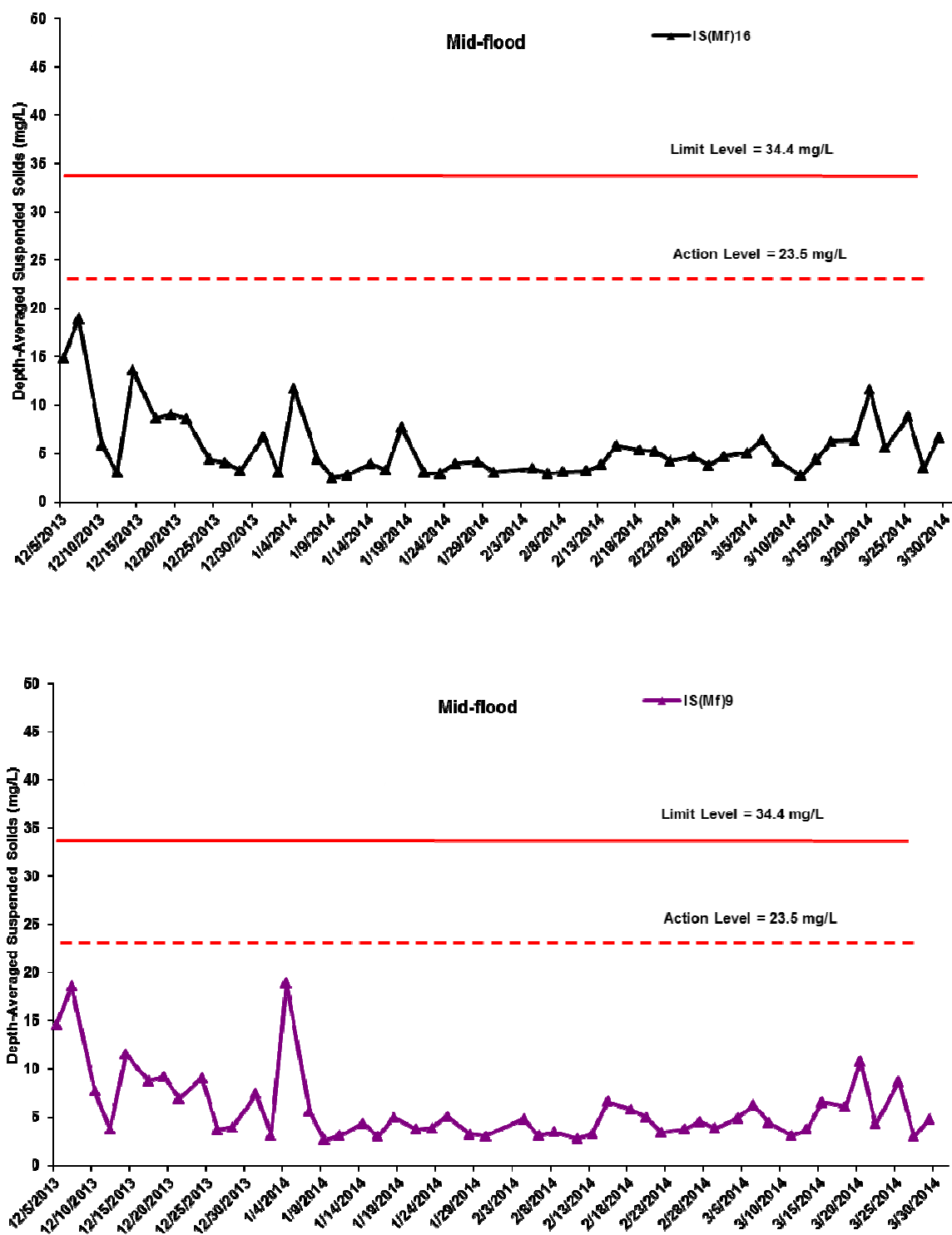


Figure J34 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 December 2013 to 31 March 2014 at IS(Mf)16 and IS(Mf)9 .

Environmental
Resources
Management



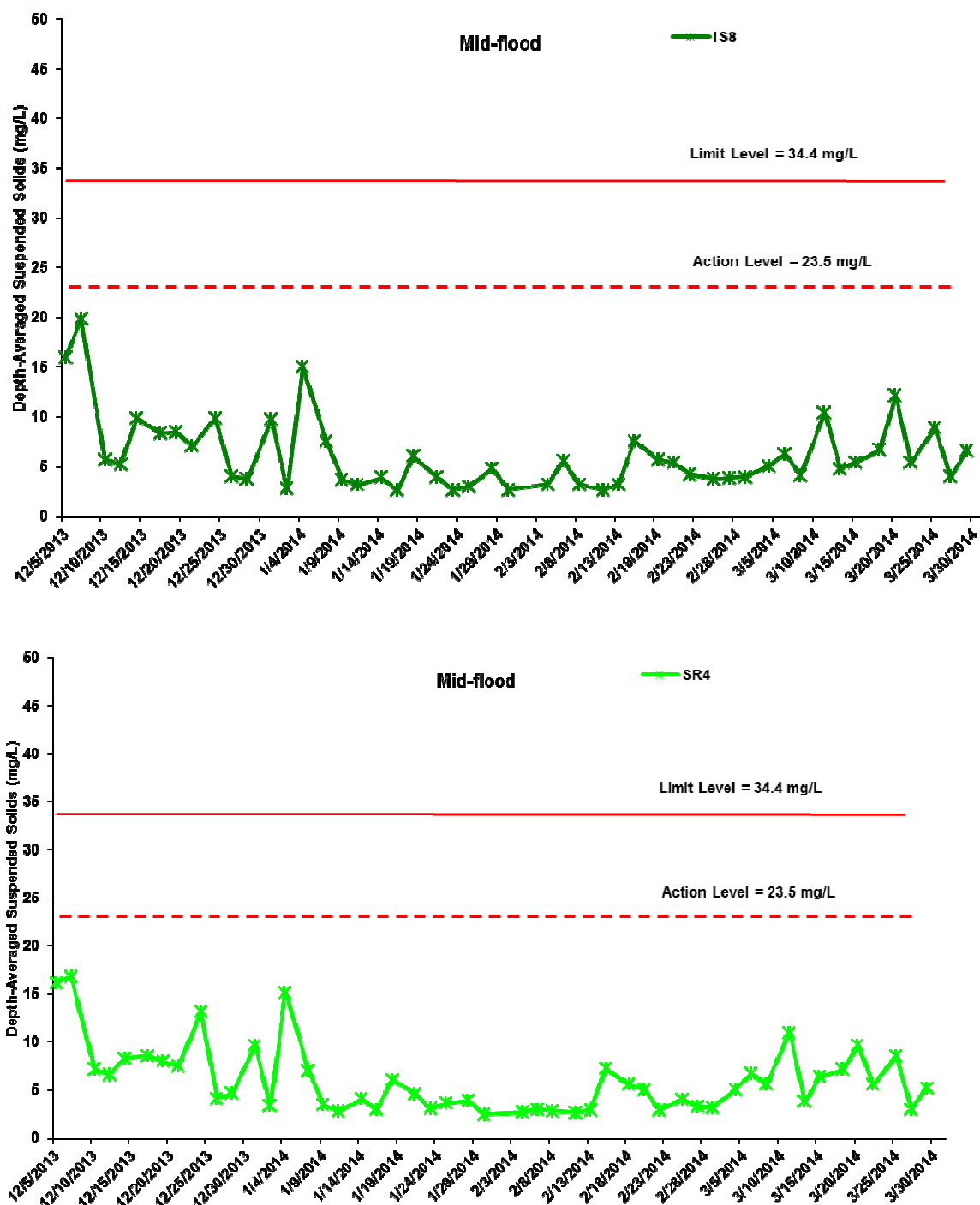


Figure J35 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 December 2013 to 31 March 2014 at IS8 and SR4.

Environmental
Resources
Management



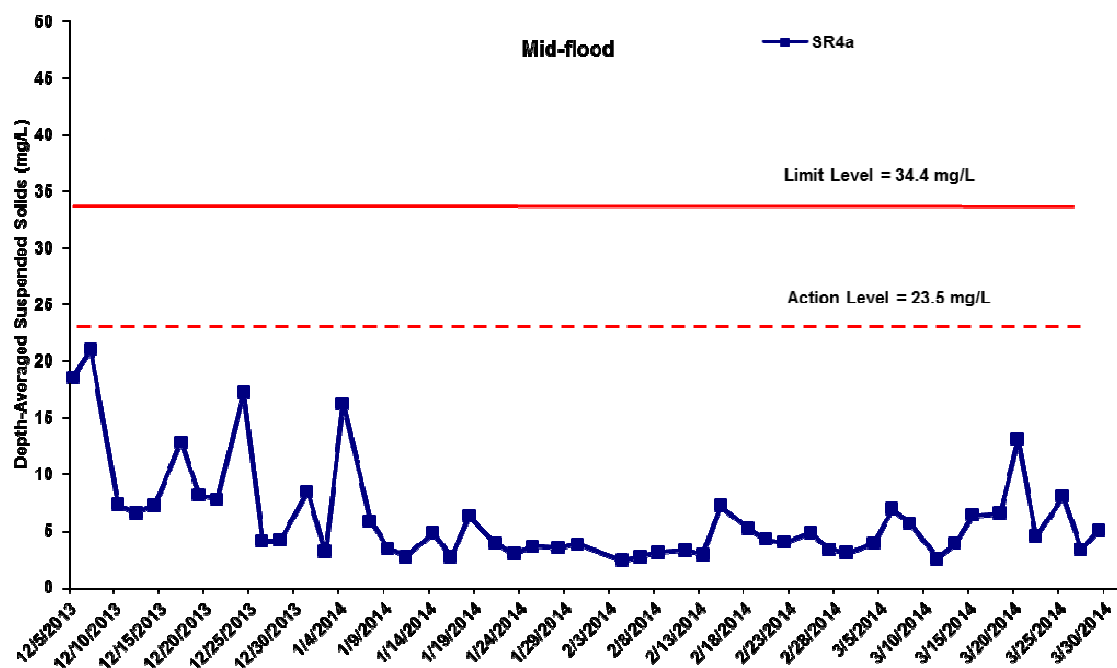


Figure J36 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 December 2013 to 31 March 2014 at SR4a.

Environmental
Resources
Management



Appendix K

Impact Dolphin Monitoring Survey Results

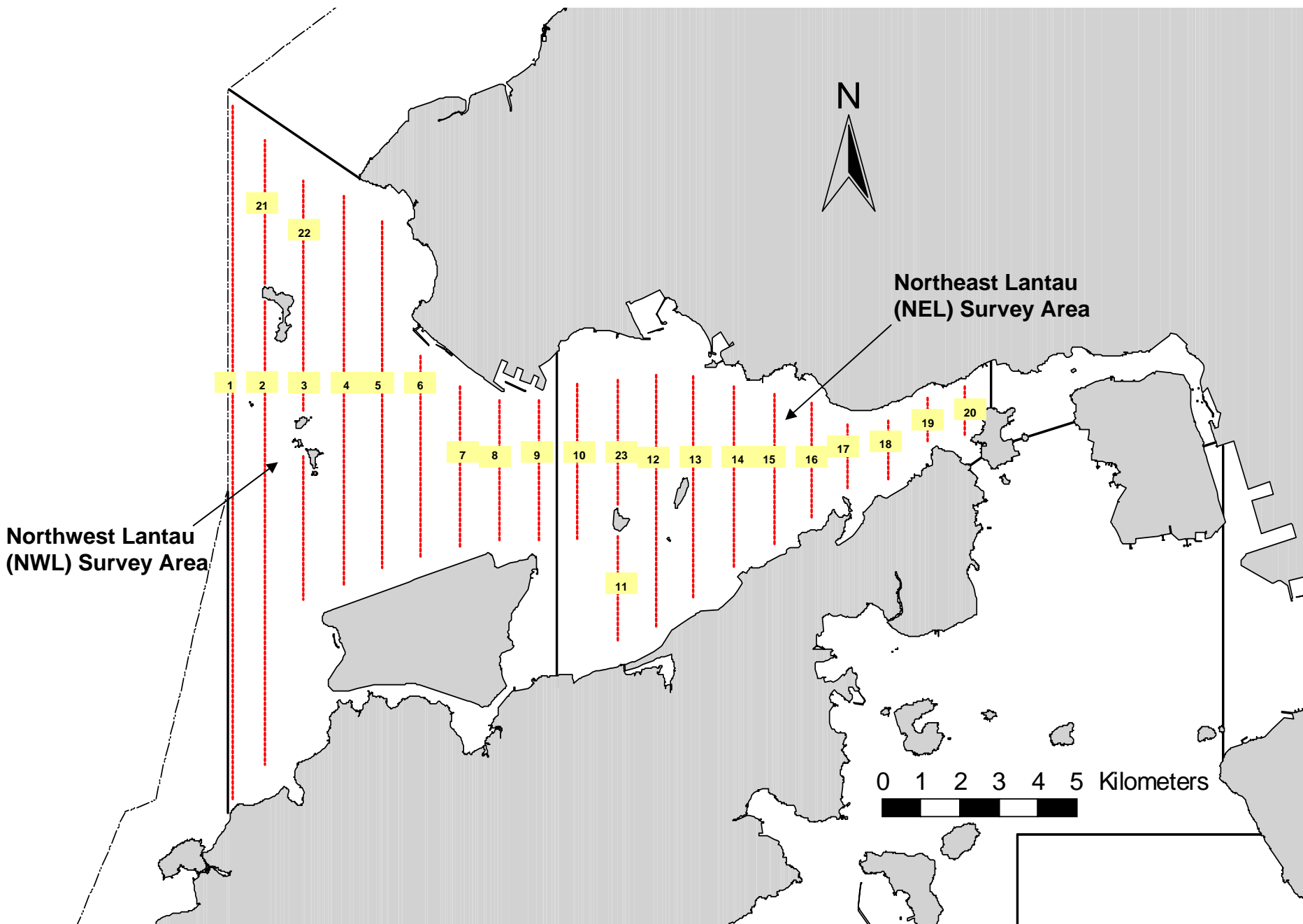


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

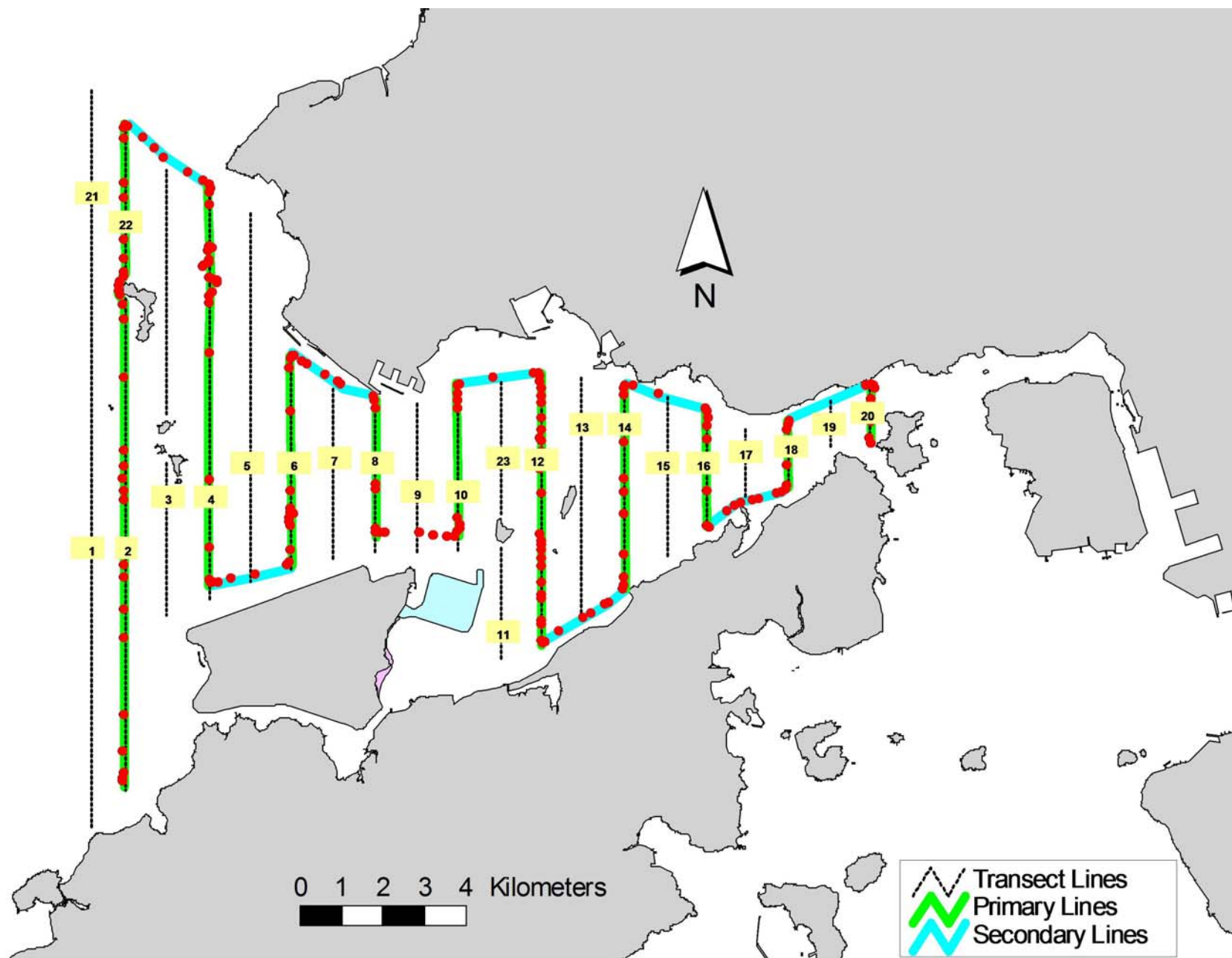


Figure 2. Survey Route on March 5th, 2014 (from HKLR03 project)

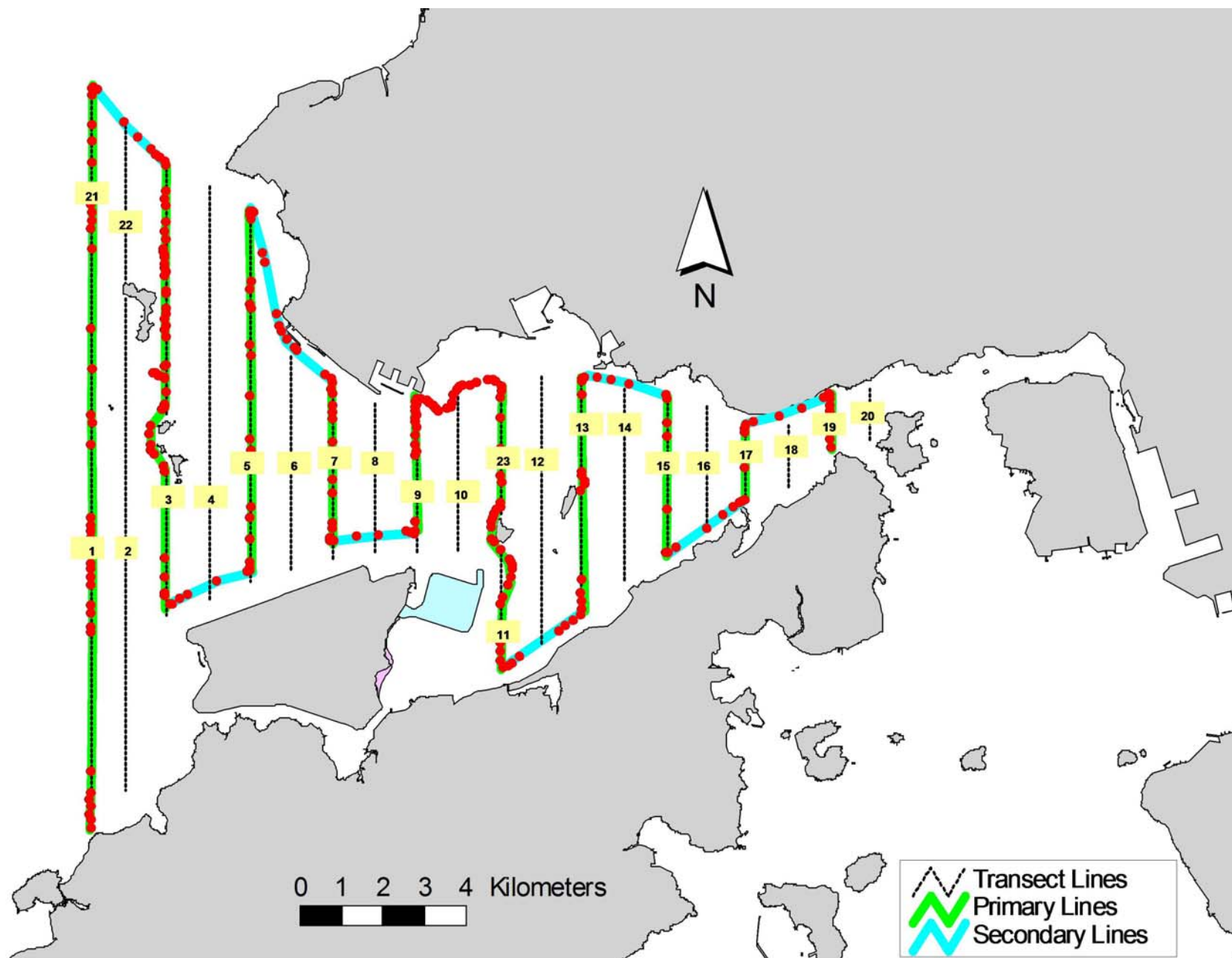


Figure 3. Survey Route on March 11th, 2014 (from HKLR03 project)

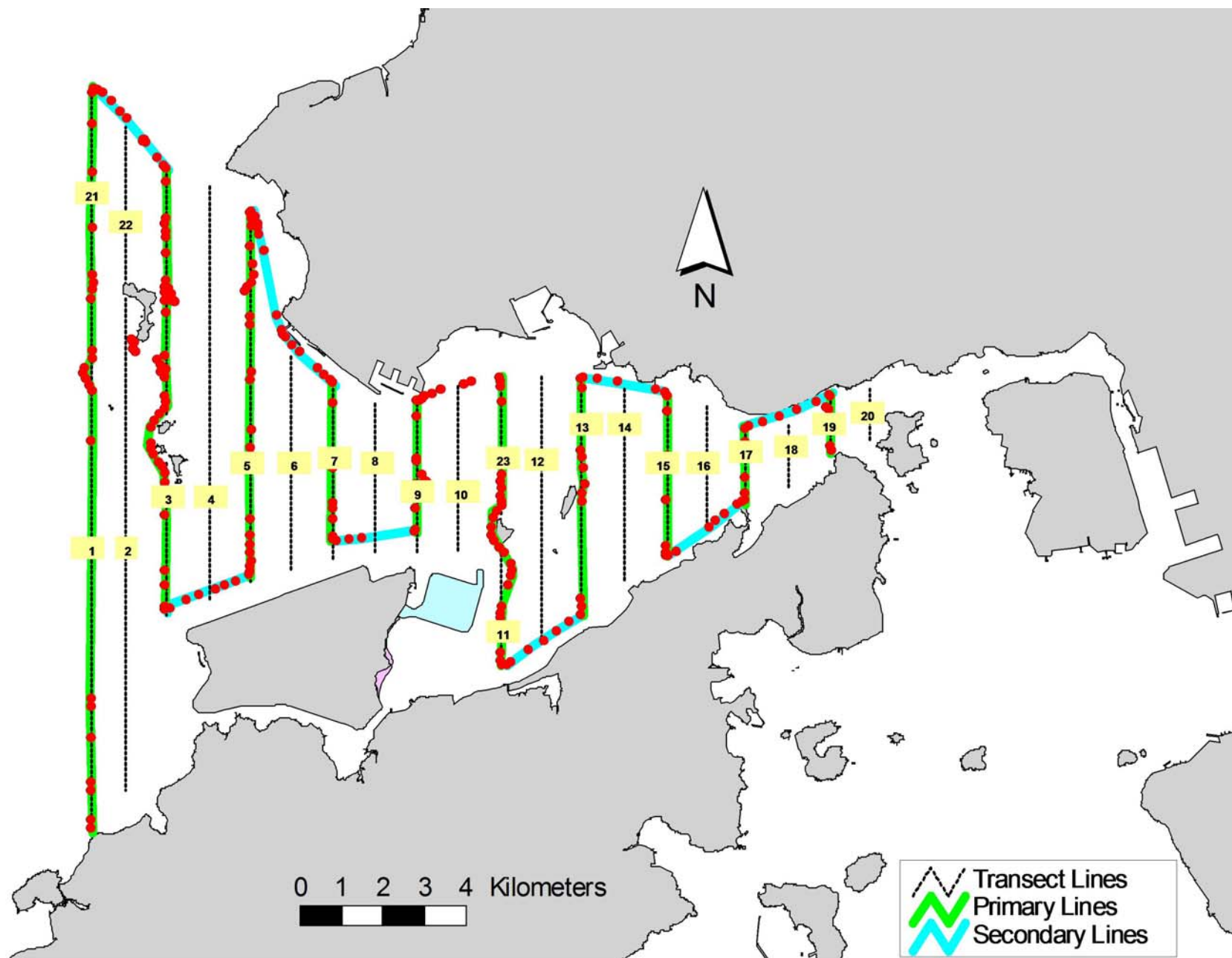


Figure 4. Survey Route on March 17th, 2014 (from HKLR03 project)

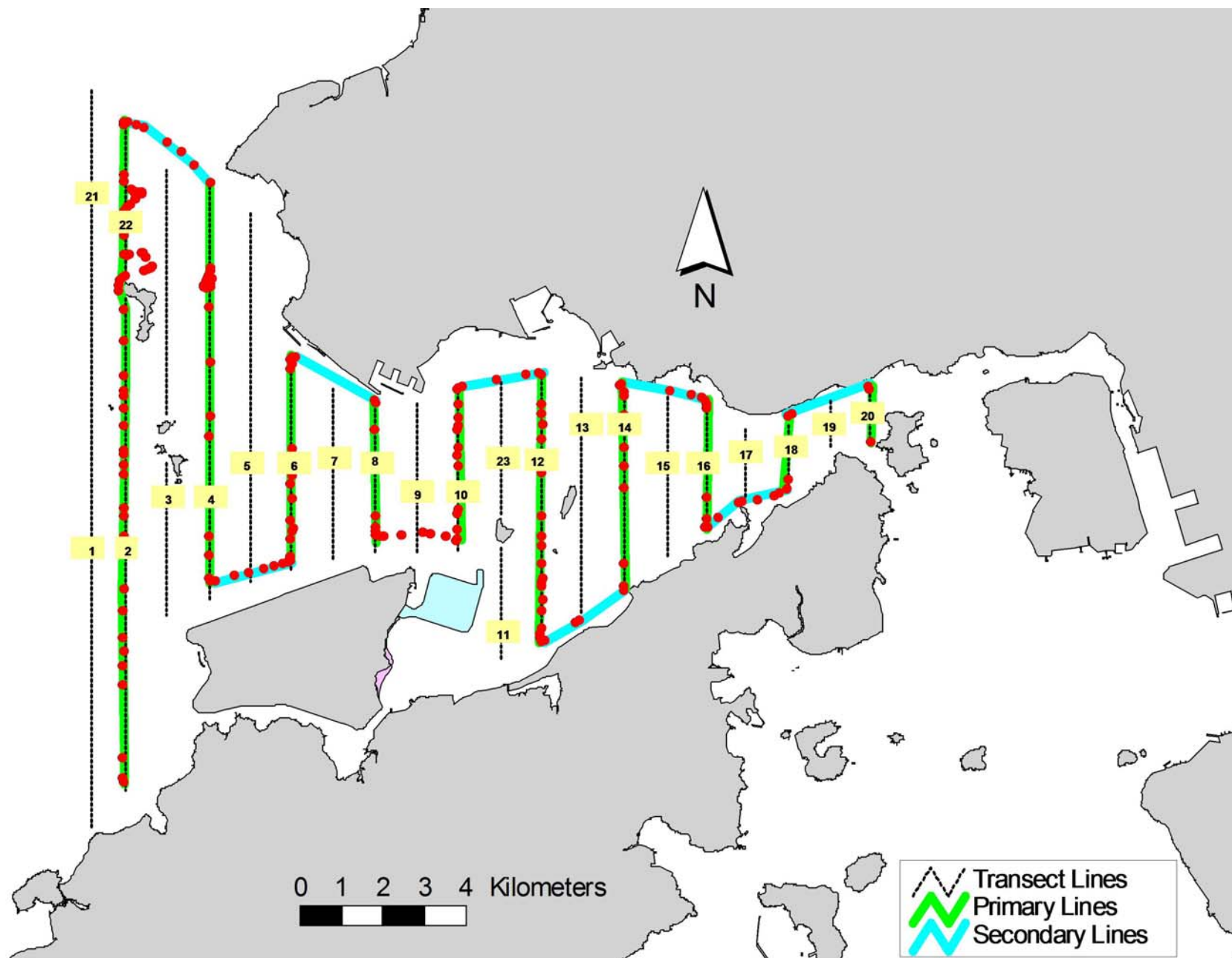


Figure 5. Survey Route on March 25th, 2014 (from HKLR03 project)

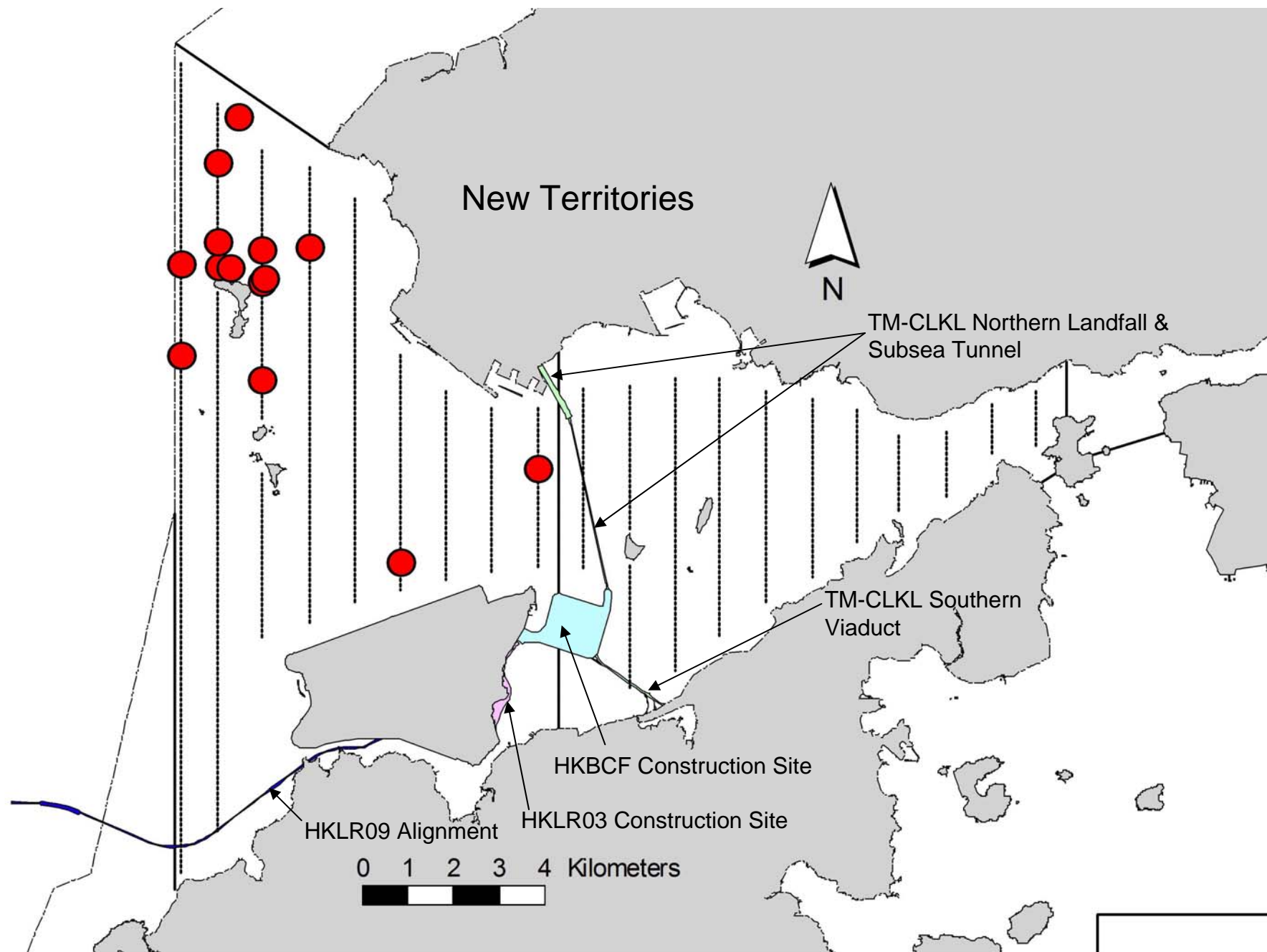


Figure 6. Distribution of Chinese White Dolphin Sightings During March 2014 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (March 2014)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

| DATE | AREA | BEAU | EFFORT | SEASON | VESSEL | TYPE | P/S |
|-----------|-----------|------|--------|--------|---------------|------|-----|
| 5-Mar-14 | NW LANTAU | 1 | 3.88 | SPRING | STANDARD31516 | HKLR | P |
| 5-Mar-14 | NW LANTAU | 2 | 20.76 | SPRING | STANDARD31516 | HKLR | P |
| 5-Mar-14 | NW LANTAU | 3 | 5.93 | SPRING | STANDARD31516 | HKLR | P |
| 5-Mar-14 | NW LANTAU | 2 | 5.25 | SPRING | STANDARD31516 | HKLR | S |
| 5-Mar-14 | NW LANTAU | 3 | 1.96 | SPRING | STANDARD31516 | HKLR | S |
| 5-Mar-14 | NE LANTAU | 2 | 17.99 | SPRING | STANDARD31516 | HKLR | P |
| 5-Mar-14 | NE LANTAU | 3 | 1.69 | SPRING | STANDARD31516 | HKLR | P |
| 5-Mar-14 | NE LANTAU | 2 | 11.02 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-14 | NE LANTAU | 2 | 1.40 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NE LANTAU | 3 | 11.82 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NE LANTAU | 4 | 2.90 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NE LANTAU | 2 | 6.16 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-14 | NE LANTAU | 3 | 4.12 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-14 | NE LANTAU | 4 | 1.40 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-14 | NW LANTAU | 1 | 1.70 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NW LANTAU | 2 | 5.31 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NW LANTAU | 3 | 9.08 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NW LANTAU | 4 | 18.01 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NW LANTAU | 5 | 6.14 | SPRING | STANDARD31516 | HKLR | P |
| 11-Mar-14 | NW LANTAU | 2 | 6.91 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-14 | NW LANTAU | 3 | 1.40 | SPRING | STANDARD31516 | HKLR | S |
| 11-Mar-14 | NW LANTAU | 4 | 4.25 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-14 | NW LANTAU | 0 | 4.79 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-14 | NW LANTAU | 1 | 25.40 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-14 | NW LANTAU | 2 | 8.51 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-14 | NW LANTAU | 0 | 2.51 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-14 | NW LANTAU | 1 | 7.24 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-14 | NW LANTAU | 2 | 3.21 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-14 | NE LANTAU | 1 | 14.20 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-14 | NE LANTAU | 2 | 2.36 | SPRING | STANDARD31516 | HKLR | P |
| 17-Mar-14 | NE LANTAU | 1 | 9.07 | SPRING | STANDARD31516 | HKLR | S |
| 17-Mar-14 | NE LANTAU | 2 | 2.17 | SPRING | STANDARD31516 | HKLR | S |
| 25-Mar-14 | NE LANTAU | 1 | 13.41 | SPRING | STANDARD31516 | HKLR | P |
| 25-Mar-14 | NE LANTAU | 2 | 6.67 | SPRING | STANDARD31516 | HKLR | P |
| 25-Mar-14 | NE LANTAU | 1 | 6.73 | SPRING | STANDARD31516 | HKLR | S |
| 25-Mar-14 | NE LANTAU | 2 | 4.19 | SPRING | STANDARD31516 | HKLR | S |
| 25-Mar-14 | NW LANTAU | 1 | 7.45 | SPRING | STANDARD31516 | HKLR | P |
| 25-Mar-14 | NW LANTAU | 2 | 22.31 | SPRING | STANDARD31516 | HKLR | P |
| 25-Mar-14 | NW LANTAU | 1 | 0.96 | SPRING | STANDARD31516 | HKLR | S |
| 25-Mar-14 | NW LANTAU | 2 | 6.58 | SPRING | STANDARD31516 | HKLR | S |

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (March 2014)

(Abbreviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Line\$

| DATE | STG # | TIME | HRD SZ | AREA | BEAU | PSD | EFFORT | TYPE | NORTHING | EASTING | SEASON | BOAT ASSOC. | P/S |
|-----------|-------|------|--------|-----------|------|-----|--------|------|----------|---------|--------|-------------|-----|
| 05-Mar-14 | 1 | 1053 | 3 | NW LANTAU | 2 | 64 | ON | HKLR | 827173 | 805499 | SPRING | NONE | P |
| 05-Mar-14 | 2 | 1126 | 13 | NW LANTAU | 2 | ND | OFF | HKLR | 827150 | 805736 | SPRING | NONE | |
| 05-Mar-14 | 3 | 1323 | 6 | NW LANTAU | 2 | 28 | ON | HKLR | 827568 | 807488 | SPRING | NONE | P |
| 11-Mar-14 | 1 | 1518 | 2 | NW LANTAU | 3 | 86 | ON | HKLR | 827525 | 806437 | SPRING | NONE | P |
| 17-Mar-14 | 1 | 1159 | 2 | NW LANTAU | 2 | 151 | ON | HKLR | 822985 | 812516 | SPRING | NONE | P |
| 17-Mar-14 | 2 | 1411 | 5 | NW LANTAU | 1 | 277 | ON | HKLR | 824834 | 806452 | SPRING | NONE | P |
| 17-Mar-14 | 3 | 1439 | 1 | NW LANTAU | 1 | 36 | ON | HKLR | 826839 | 806456 | SPRING | NONE | P |
| 17-Mar-14 | 4 | 1509 | 2 | NW LANTAU | 2 | 72 | ON | HKLR | 830273 | 805938 | SPRING | NONE | S |
| 17-Mar-14 | 5 | 1541 | 1 | NW LANTAU | 1 | 194 | ON | HKLR | 827219 | 804675 | SPRING | NONE | P |
| 17-Mar-14 | 6 | 1551 | 1 | NW LANTAU | 1 | 125 | ON | HKLR | 825325 | 804672 | SPRING | NONE | P |
| 25-Mar-14 | 1 | 1249 | 1 | NW LANTAU | 2 | 131 | ON | HKLR | 821041 | 809495 | SPRING | NONE | P |
| 25-Mar-14 | 2 | 1452 | 2 | NW LANTAU | 2 | 72 | ON | HKLR | 826927 | 806498 | SPRING | NONE | P |
| 25-Mar-14 | 3 | 1535 | 3 | NW LANTAU | 2 | 299 | ON | HKLR | 829321 | 805462 | SPRING | NONE | P |
| 25-Mar-14 | 4 | 1549 | 1 | NW LANTAU | 2 | 349 | ON | HKLR | 827693 | 805469 | SPRING | NONE | P |

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in March 2014

| ID# | DATE | STG# | AREA |
|------------|-------------|-------------|-------------|
| CH98 | 25/03/14 | 3 | NW LANTAU |
| EL01 | 17/03/14 | 1 | NW LANTAU |
| NL24 | 05/03/14 | 3 | NW LANTAU |
| NL46 | 05/03/14 | 2 | NW LANTAU |
| NL48 | 11/03/14 | 1 | NW LANTAU |
| | 25/03/14 | 4 | NW LANTAU |
| NL49 | 05/03/14 | 2 | NW LANTAU |
| NL104 | 05/03/14 | 2 | NW LANTAU |
| | 05/03/14 | 3 | NW LANTAU |
| NL136 | 11/03/14 | 1 | NW LANTAU |
| | 17/03/14 | 2 | NW LANTAU |
| | 25/03/14 | 3 | NW LANTAU |
| NL165 | 05/03/14 | 2 | NW LANTAU |
| NL191 | 25/03/14 | 1 | NW LANTAU |
| NL213 | 25/03/14 | 3 | NW LANTAU |
| NL220 | 05/03/14 | 3 | NW LANTAU |
| NL233 | 05/03/14 | 1 | NW LANTAU |
| NL236 | 05/03/14 | 2 | NW LANTAU |
| NL261 | 05/03/14 | 3 | NW LANTAU |
| | 17/03/14 | 1 | NW LANTAU |
| NL262 | 05/03/14 | 3 | NW LANTAU |
| NL272 | 05/03/14 | 2 | NW LANTAU |
| NL284 | 17/03/14 | 2 | NW LANTAU |
| NL295 | 05/03/14 | 2 | NW LANTAU |
| NL296 | 05/03/14 | 1 | NW LANTAU |
| | 05/03/14 | 2 | NW LANTAU |
| NL307 | 17/03/14 | 2 | NW LANTAU |
| WL04 | 05/03/14 | 2 | NW LANTAU |
| WL05 | 05/03/14 | 2 | NW LANTAU |
| WL11 | 05/03/14 | 2 | NW LANTAU |
| WL179 | 17/03/14 | 2 | NW LANTAU |
| WL199 | 05/03/14 | 2 | NW LANTAU |

NL233_20140305_1



NL296_20140305_1



NL46_20140305_2



NL49_20140305_2



NL104_20140305_2



NL165_20140305_2



NL236_20140305_2



NL272_20140305_2



NL295_20140305_2



Appendix IV. Photographs of Identified Individual Dolphins in March 2014 (HKLR03)

NL296_20140305_2



WL04_20140305_2



WL05_20140305_2



WL11_20140305_2



WL199_20140305_2



NL24_20140305_3



NL104_20140305_3



NL220_20140305_3



NL261_20140305_3



NL262_20140305_3



EL01_20140317_1



NL48_20140311_1



NL136_20140311_1



NL261_20140317_1



NL136_20140317_2



NL284_20140317_2



NL307_20140317_2



WL17_20140317_2



NL191_20140325_1



CH98_20140325_3



NL136_20140325_3



NL213_20140325_3



NL48_20140325_4



Appendix IV. (cont'd)

Appendix L

Event Action Plan

Appendix L1 **Event/ Action Plan for Air Quality**

| ACTION | | | | |
|---|---|---|---|--|
| EVENT | ET ⁽¹⁾ | IEC ⁽¹⁾ | SOR ⁽¹⁾ | Contractor |
| Action Level | | | | |
| 1. Exceedance for one sample | 1. Identify the source. 2. Inform the IEC and the SOR. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. | 1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. | 1. Notify Contractor. | 1. Rectify any unacceptable practice 2. Amend working methods if appropriate |
| 2. Exceedance for two or more consecutive samples | 1. Identify the source. 2. Inform the IEC and the SOR. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Discuss with the IEC and the Contractor on remedial actions required. 6. If exceedance continues, arrange meeting with the IEC and the SOR. 7. If exceedance stops, cease additional monitoring. | 1. Check monitoring data submitted by the ET. 2. Check the Contractor's working method. 3. Discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented. | 1. Submit proposals for remedial actions to IEC within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate |

Appendix L2 Event/ Action Plan for Construction Noise

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

Appendix L3 Event/ Action Plan for Water Quality

| Event | ET Leader | IEC | SOR | Contractor |
|--|---|--|--|---|
| Action level being exceeded by one sampling day | <p>Repeat in situ measurement on next day of exceedance to confirm findings;</p> <p>Identify source(s) of impact;</p> <p>Inform IEC, contractor and SOR;</p> <p>Check monitoring data, all plant, equipment and Contractor's working methods.</p> | <p>Check monitoring data submitted by ET and Contractor's working methods.</p> | <p>Confirm receipt of notification of non-compliance in writing;</p> <p>Notify Contractor.</p> | <p>Inform the SOR and confirm notification of the non-compliance in writing;</p> <p>Rectify unacceptable practice;</p> <p>Amend working methods if appropriate.</p> |
| Action level being exceeded by two or more consecutive sampling days | <p>Repeat measurement on next day of exceedance to confirm findings;</p> <p>Identify source(s) of impact;</p> <p>Inform IEC, contractor, SOR and EPD;</p> <p>Check monitoring data, all plant, equipment and Contractor's working methods;</p> <p>Discuss mitigation measures with IEC, SOR and Contractor;</p> <p>Ensure mitigation measures are implemented;</p> <p>Increase the monitoring frequency to daily until no exceedance of Action level;</p> | <p>Check monitoring data submitted by ET and Contractor's working method;</p> <p>Discuss with ET and Contractor on possible remedial actions;</p> <p>Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly;</p> <p>Supervise the implementation of mitigation measures.</p> | <p>Discuss with IEC on the proposed mitigation measures;</p> <p>Ensure mitigation measures are properly implemented;</p> <p>Assess the effectiveness of the implemented mitigation measures.</p> | <p>Inform the Supervising Officer and confirm notification of the non-compliance in writing;</p> <p>Rectify unacceptable practice;</p> <p>Check all plant and equipment and consider changes of working methods;</p> <p>Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR;</p> <p>Implement the agreed mitigation measures.</p> |
| Limit level being exceeded by one sampling day | <p>Repeat measurement on next day of exceedance to confirm findings;</p> <p>Identify source(s) of impact;</p> <p>Inform IEC, contractor, SOR and EPD;</p> | <p>Check monitoring data submitted by ET and Contractor's working method;</p> <p>Discuss with ET and Contractor on possible remedial actions;</p> | <p>Confirm receipt of notification of failure in writing;</p> <p>Discuss with IEC, ET and Contractor on the proposed mitigation measures;</p> | <p>Inform the SOR and confirm notification of the non-compliance in writing;</p> <p>Rectify unacceptable practice;</p> <p>Check all plant and equipment</p> |

| Event | ET Leader | IEC | SOR | Contractor |
|---|---|--|--|--|
| Limit level being exceeded by two or more consecutive sampling days | Check monitoring data, all plant, equipment and Contractor's working methods; | Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly. | Request Contractor to review the working methods. | and consider changes of working methods; |
| | Discuss mitigation measures with IEC, SOR and Contractor; | | | Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR. |
| | Repeat measurement on next day of exceedance to confirm findings; | Check monitoring data submitted by ET and Contractor's working method; | Discuss with IEC, ET and Contractor on the proposed mitigation measures; | Take immediate action to avoid further exceedance; |
| | Identify source(s) of impact; | Discuss with ET and Contractor on possible remedial actions; | | Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; |
| | Inform IEC, contractor, SOR and EPD; | | | |
| | Check monitoring data, all plant, equipment and Contractor's working methods; | Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly; | Request Contractor to critically review the working methods; | Implement the agreed mitigation measures; |
| | Discuss mitigation measures with IEC, SOR and Contractor; | Supervise the implementation of mitigation measures. | Make agreement on the mitigation measures to be implemented; | Resubmit proposals of mitigation measures if problem still not under control; |
| | Ensure mitigation measures are implemented; | | Ensure mitigation measures are properly implemented; | As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level. |
| | Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days; | | Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. | |

Appendix L4 **Implementation of Event-Action Plan for Dolphin Monitoring**

| Event | ET Leader | IEC | SOR | Contractor |
|--------------|--|--|---|--|
| Action Level | <ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor. | <ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If SOR is satisfied with the proposal of any other measures, SOR to signify the agreement in writing on the measures to be implemented. | <ol style="list-style-type: none"> 1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SOR; 3. Implement the agreed measures. |

| Event | ET Leader | IEC | SOR | Contractor |
|-------------|---|---|---|--|
| Limit Level | <ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. | <ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. | <ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non- compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures. |

Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour

| EVENT | ACTION | | | |
|--|--|---|--|--|
| | ET Leader | IEC | SO | Contractor |
| <u>Action Level</u> | | | | |
| With the numerical values presented in <i>Table 5.7</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see <i>Table 5.8</i>), or when there is a difference of 20% in dolphin acoustic signal detection at nighttime period at Site C1 only, the action level should be triggered | <ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, SO and Contractor; 5. Check monitoring data; 6. Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor; | <ol style="list-style-type: none"> 1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented. | <ol style="list-style-type: none"> 1. Inform the SO and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SO; 3. Implement the agreed measures. |

| EVENT | ACTION | | | |
|--|---|--|--|---|
| | ET Leader | IEC | SO | Contractor |
| <u>Limit Level</u> | | | | |
| With the numerical values presented in Table 5.7, when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower or higher than that recorded in the baseline monitoring (see Table 5.8), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered | <ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, SO and Contractor; 5. Check monitoring data; 6. Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary 7. Discuss additional dolphin monitoring and any other potential mitigation measures (eg consider to temporarily stop relevant portion of construction activity) with the IEC and Contractor. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor; 3. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly. | <ol style="list-style-type: none"> 1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented. | <ol style="list-style-type: none"> 1. Inform the SO and confirm notification of the non- compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SO; 3. Implement the agreed measures. |

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, SO – Supervising Office

Appendix M

Monthly Summary of Waste
Flow Table

Contract No. : HY/2012/07

Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section

Monthly Summary Waste Flow Table for 2014 (Year)

| Month\Material | Actual Quantities of Inert C&D Materials Generation | | | | | | Actual Quantities of C&D wastes Generation | | | | | Actual Quantities of Recyclables Generation | | | |
|------------------|---|-------------------------------------|------------------------|--------------------------|--------------------------|-----------------------|--|--------------------------|--------------------------|----------------|----------------|---|---------------|----------------------------|----------|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fills | Imported Fill | Marine Sediment, Cat. L | Marine Sediment, Cat. Mp | Marine Sediment, Cat. Mf | Chemical Waste | General Refuse | Metals | Felled trees | Paper/ cardboard packaging | Plastics |
| Unit | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) |
| Jan | 0.138 | 0.011 | 0.108 | - | 0.030 | - | - | - | - | - | 22.380 | - | 10.240 | - | - |
| Feb | 4.809 | 0.010 | 0.124 | - | 0.010 | 4.674 | - | - | - | - | 10.670 | - | 0.780 | - | - |
| Mar | 3.223 | 0.009 | 0.960 | - | 0.221 | 2.042 | - | - | - | 0.275 | 12.390 | - | 46.050 | - | - |
| Apr | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | |
| Jun | | | | | | | | | | | | | | | |
| SUB-TOTAL | 8.170 | 0.030 | 1.192 | - | 0.262 | 6.717 | - | - | - | 0.275 | 45.440 | - | 57.070 | - | - |
| Jul | | | | | | | | | | | | | | | |
| Aug | | | | | | | | | | | | | | | |
| Sep | | | | | | | | | | | | | | | |
| Oct | | | | | | | | | | | | | | | |
| Nov | | | | | | | | | | | | | | | |
| Dec | | | | | | | | | | | | | | | |
| TOTAL | 8.170 | 0.030 | 1.192 | - | 0.262 | 6.717 | - | - | - | 0.275 | 45.440 | - | 57.070 | - | - |

Notes :

- 1 - The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2 - Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- 3 - Broken concrete for recycling into aggregates.

Appendix N

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Appendix N1 Cumulative Statistics on Exceedances

| | | Total No. recorded in this reporting month | Total No. recorded since project commencement |
|------------------------------|--------|---|---|
| 1-Hr TSP | Action | 0 | 0 |
| | Limit | 0 | 0 |
| 24-Hr TSP | Action | 0 | 2 |
| | Limit | 0 | 0 |
| Noise | Action | 0 | 0 |
| | Limit | 0 | 0 |
| Water Quality | Action | 0 | 1 |
| | Limit | 0 | 0 |
| Impact Dolphin Monitoring | Action | 0 | 1* |
| | Limit | 0 | 0 |

* One Action Level Exceedance was recorded in the quarterly dolphin monitoring period, Dec 2013 to Feb 2014.

Appendix N2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

| Reporting Period | Cumulative Statistics | | |
|---|-----------------------|-----------------------------|----------------------------|
| | Complaints | Notifications of Summons | Successful Prosecutions |
| This Reporting Month (Mar 2014) | 0 | 0 | 0 |
| Total No. received since project commencement | 1 | 0 | 0 |