

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

Eighteenth Monthly EM&A Report

14 May 2015

Environmental Resources Management
16/F, Berkshire House
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Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

**Environmental Resources
Management**

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Eighteenth Monthly EM&A Report

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Client: Gammon		Project No: 0215660			
Summary: This document presents the Eighteenth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 14 May 2015			
		Approved by: 			
		<i>Mr Craig Reid Partner</i>			
		Certified by: 			
		<i>Mr Jovy Tam ET Leader</i>			
	Eighteenth Monthly EM&A Report	VAR	JT	CAR	14/05/15
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_2960L.15

14 May 2015

AECOM
Supervising Officer's Representative's Office
780 Cheung Tung Road, Lantau, N.T.

By Fax (3691 2899) and By Post

Attention: Mr. Daniel Ip

Dear Mr. Ip,

**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 April 2015 (EP-354/2009/D)**

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (April 2015) certified by the ET Leader (ET's ref.: "0215660_18th Monthly EM&A_20150513.doc" dated 14 May 2015) and provided to us via mail on 14 May 2015.

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

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,



F. C. Tsang
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: 3520 0486)

Internal: DY, YH, SLUI, 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*. Further applications for variation of environmental permit (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Contract commenced on 31 October 2013 and will 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 Eighteenth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 April 2015 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 Works

- Construction and installation of pile caps;
- Marine piling platform installation & uninstallation;
- Pier construction;
- Installation of launching gantry;
- Marine piling; and,
- Installation of pier head segment.

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

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

24-hour TSP monitoring	6 sessions
1-hour TSP monitoring	6 sessions
Noise monitoring	6 sessions
Impact Water Quality Monitoring	13 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental site inspection	5 sessions

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for construction air 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 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 during the period of marine works under this Contract. Passive Acoustic Monitoring (PAM) was implemented when the marine piling works were carried out outside the daylight hours in this reporting month. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in April 2015 during the exclusion zone monitoring.

Environmental Complaints, Non-compliance & Summons

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

Reporting Change

The separate checklist for Landscape and Visual (L&V) mitigation measures monitoring was implemented in the reporting period.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the next monitoring period of May 2015 include the following:

Marine Works

- Construction and installation of pile caps;
- Marine piling platform installation & uninstallation;
- Pier construction;
- Installation of launching gantry;
- Marine piling and
- Installation of pier head segment.

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Relocation of MTRC fence; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of May 2015 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

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-146/2009), 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-354/2009/A) 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*. Further applications for variation of environmental permit (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

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

The general layout plan of the Contract components is presented in *Figures 1.1 & 1.2a to l*.

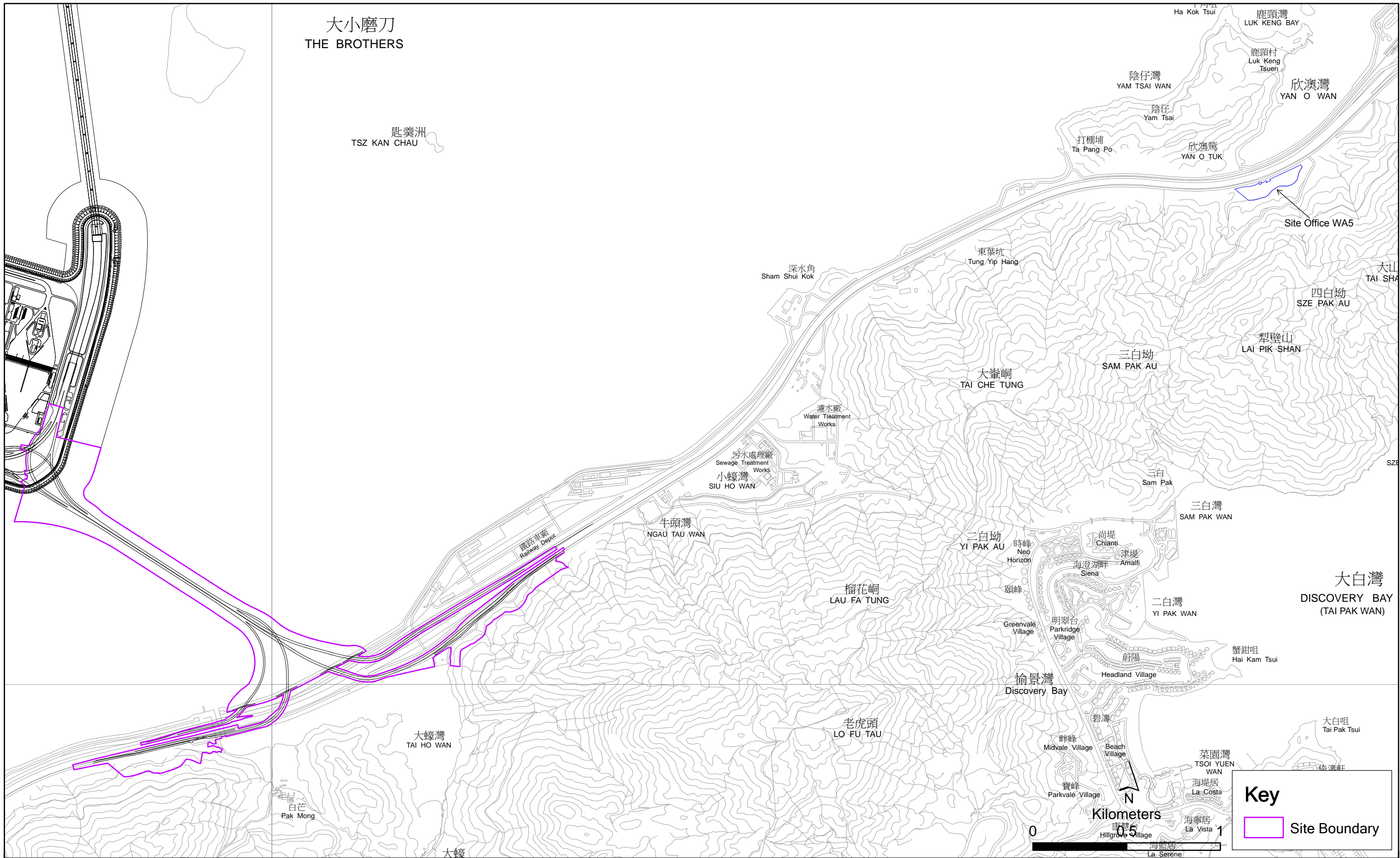
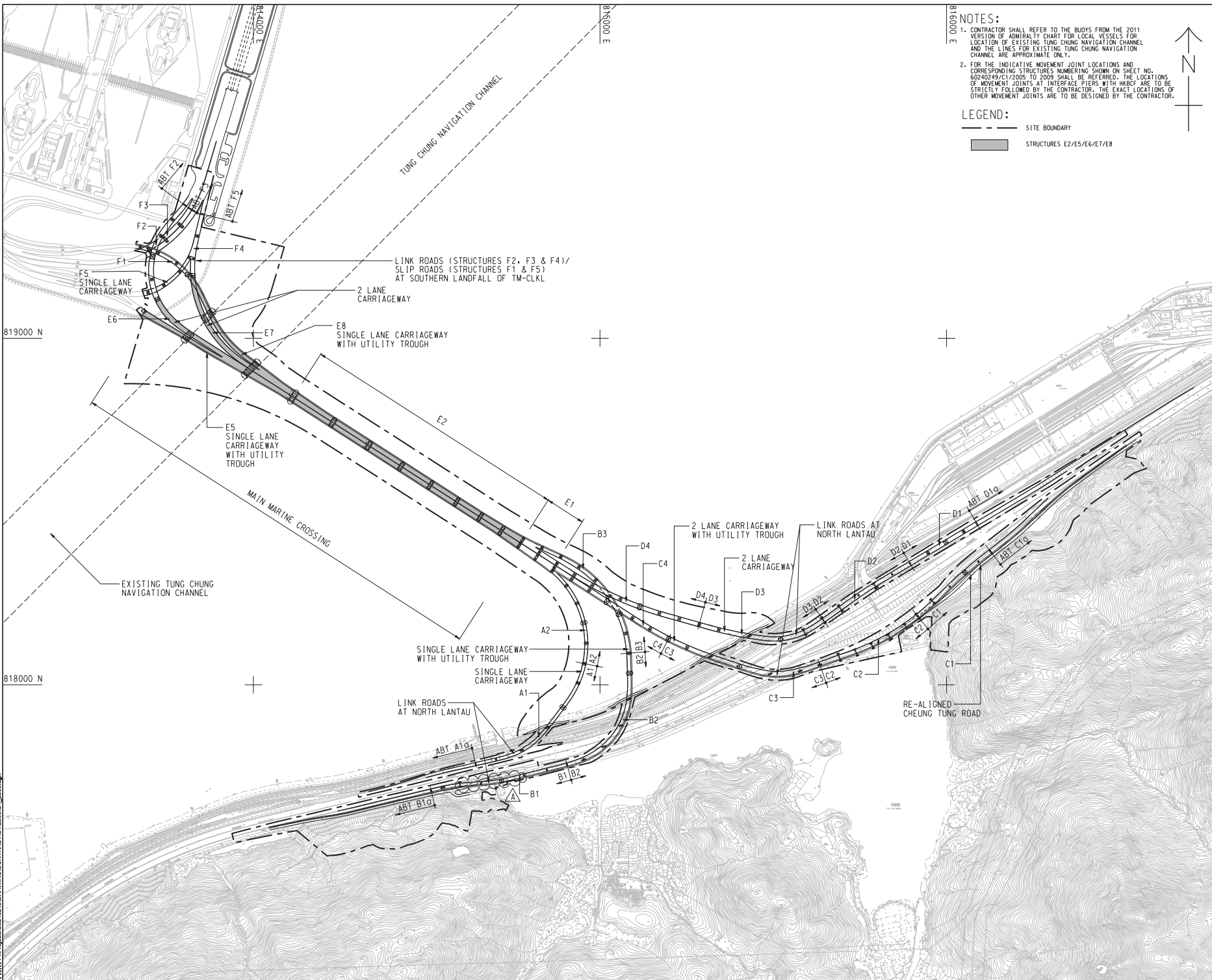


Figure 1.1

General Layout Plan of the Project



NOTES:
 1. CONTRACTOR SHALL REFER TO THE BUOYS FROM THE 2011 VERSION OF ADMIRALTY CHART FOR LOCAL VESSELS FOR LOCATION OF EXISTING TUNG CHUNG NAVIGATION CHANNEL AND THE LINES FOR EXISTING TUNG CHUNG NAVIGATION CHANNEL ARE APPROXIMATE ONLY.
 2. FOR THE INDICATIVE MOVEMENT JOINT LOCATIONS AND CORRESPONDING STRUCTURES NUMBERING SHOWN ON SHEET NO. 60240249/C1/2005 TO 2009 SHALL BE REFERRED. THE LOCATIONS OF MOVEMENT JOINTS AT INTERFACE PIERS WITH HKBCF ARE TO BE STRICTLY FOLLOWED BY THE CONTRACTOR. THE EXACT LOCATIONS OF OTHER MOVEMENT JOINTS ARE TO BE DESIGNED BY THE CONTRACTOR.

LEGEND:
 SITE BOUNDARY
 STRUCTURES E2/E5/E6/E7/E8

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
 港務局 橋樑工程處
 Hong Kong - Zhuhai - Hainan Bridge
 Hong Kong Project Management Office

CONSULTANT
 AECOM Asia Company Ltd.
 www.aecom.com

SUB-CONSULTANTS
Figure 1.2a

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.

STATUS

SCALE
 A1 : 6000

DIMENSION UNIT
 METRES

KEY PLAN

PROJECT NO.
 60240249

CONTRACT NO.
 HY/2012/07

SHEET TITLE
 SOUTHERN CONNECTION GENERAL LAYOUT PLAN

SHEET NUMBER
 60240249/C1/2000A

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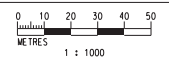


KEY PLAN

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- 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
 - PROPOSED G.I.-STATIONS :
 - ⊕ PBH01 PROPOSED BOREHOLE
 - ⊕ TP01 PROPOSED TRIAL PIT
 - ⊕ CH01 PROPOSED COREHOLE
 - SS01 SS02 PROPOSED SLOPE STRIPPING

MATCH LINE
 FOR CONTINUATION
 SEE DRG. J3518/P/OAP/04/01101



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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

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Checked	Approved	
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Supervising Officer: **AECOM**

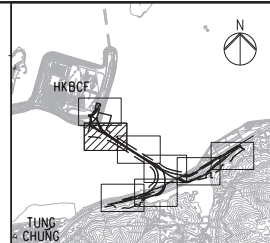
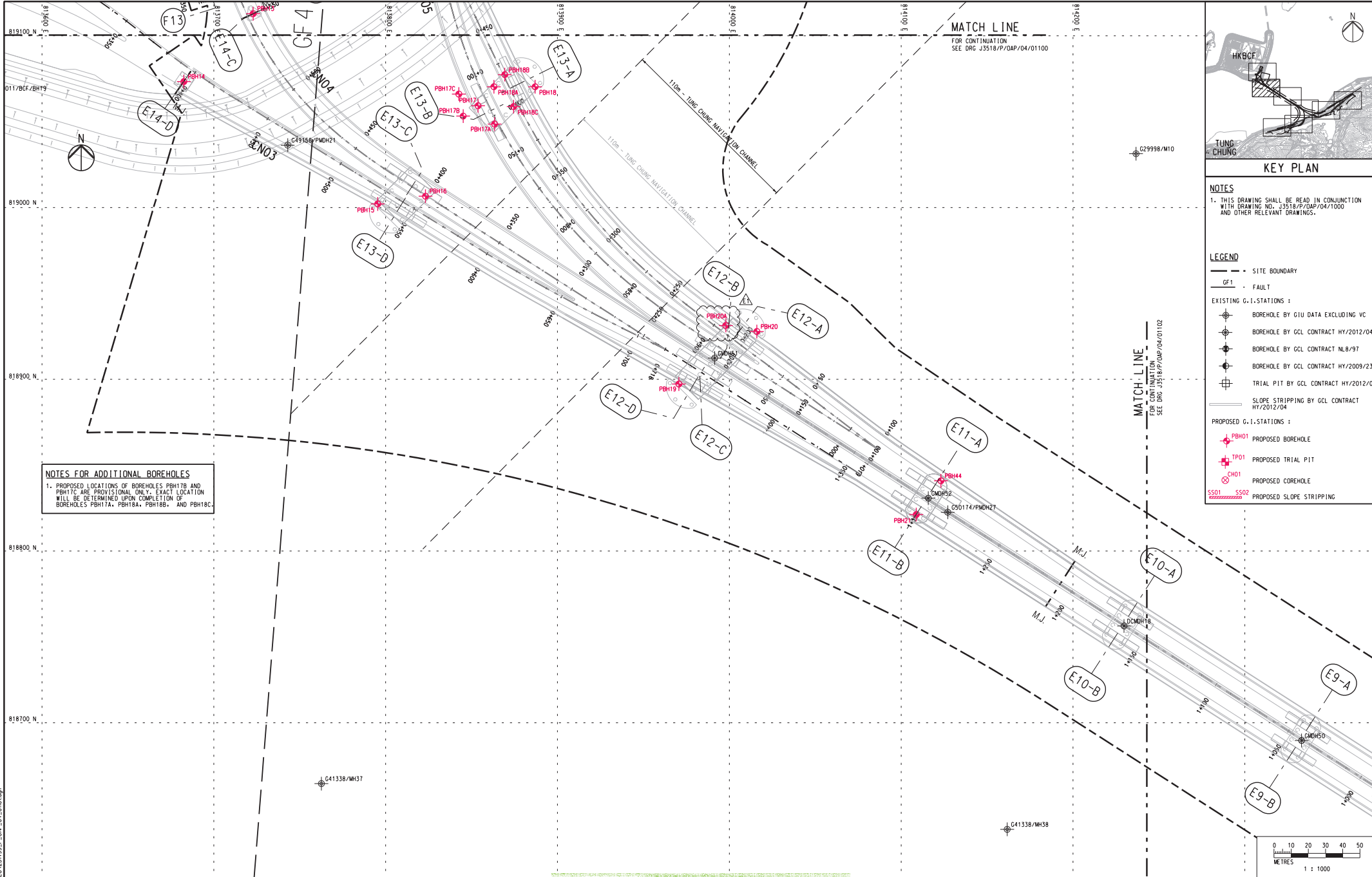
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Project Title
 Contract No. HY/2012/07
 Tuen Mun - Chek Lap Kok Link
 Southern Connection Viaduct Section

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 - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
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 - ⊕ 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

NOTES FOR ADDITIONAL BOREHOLES
 1. PROPOSED LOCATIONS OF BOREHOLES PBH17B AND PBH17C ARE PROVISIONAL ONLY. EXACT LOCATION WILL BE DETERMINED UPON COMPLETION OF BOREHOLES PBH17A, PBH18A, PBH18B, AND PBH18C.

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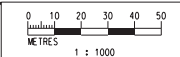
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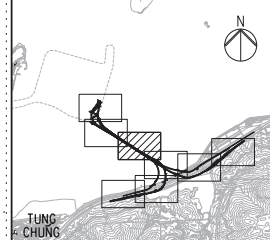
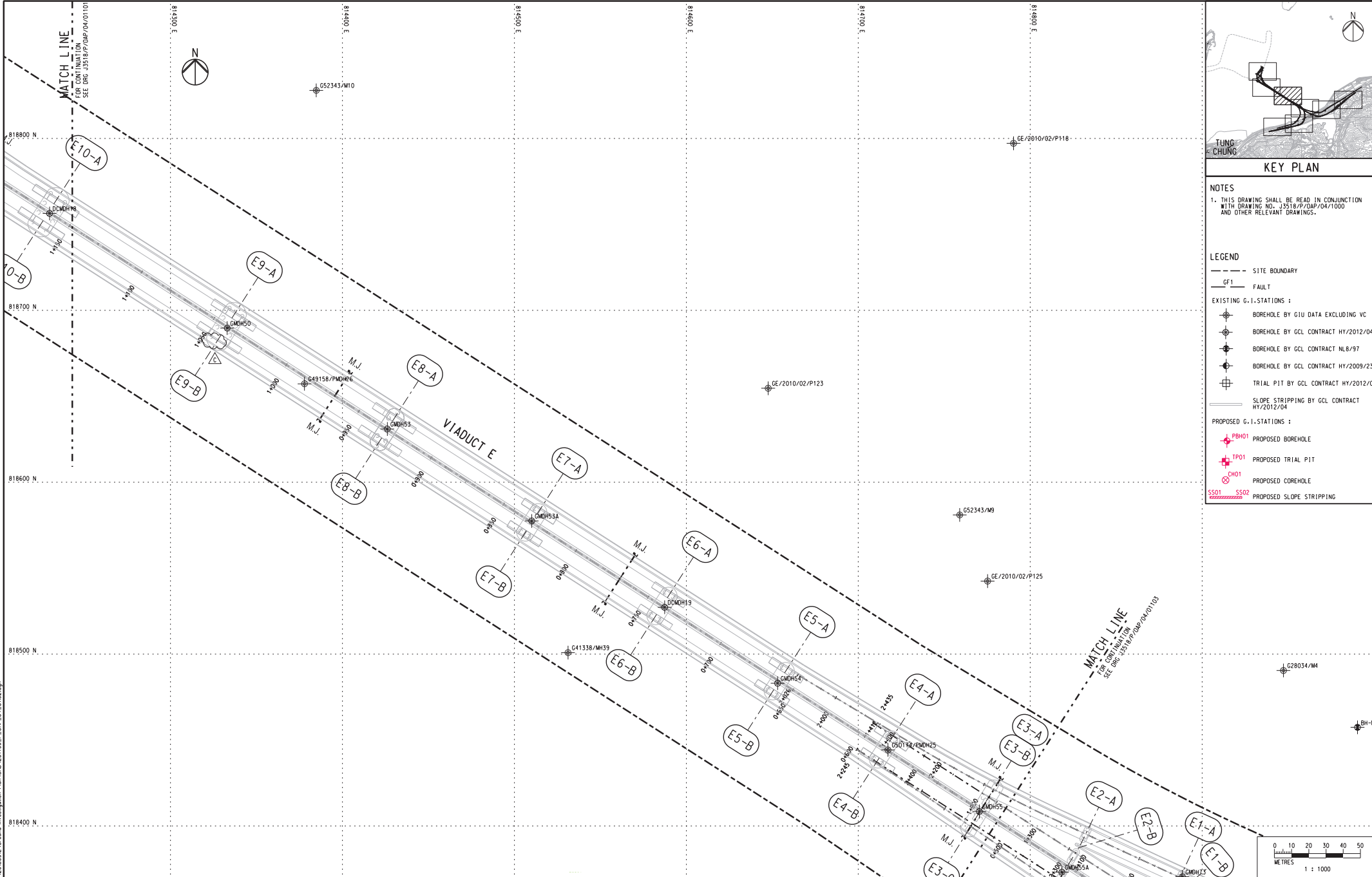
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Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

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Originator



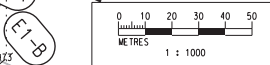
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C	SUBMISSION	RC	09/13				

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RL	07/13	DS	DOP

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Client

 路政署 HIGHWAYS DEPARTMENT
 香港港人鐵路工程管理有限公司
 Hong Kong Project Management Office

Supervising Officer

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

Contractor

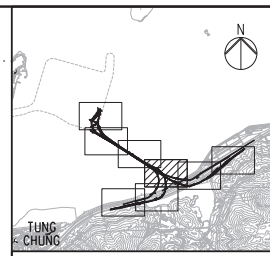
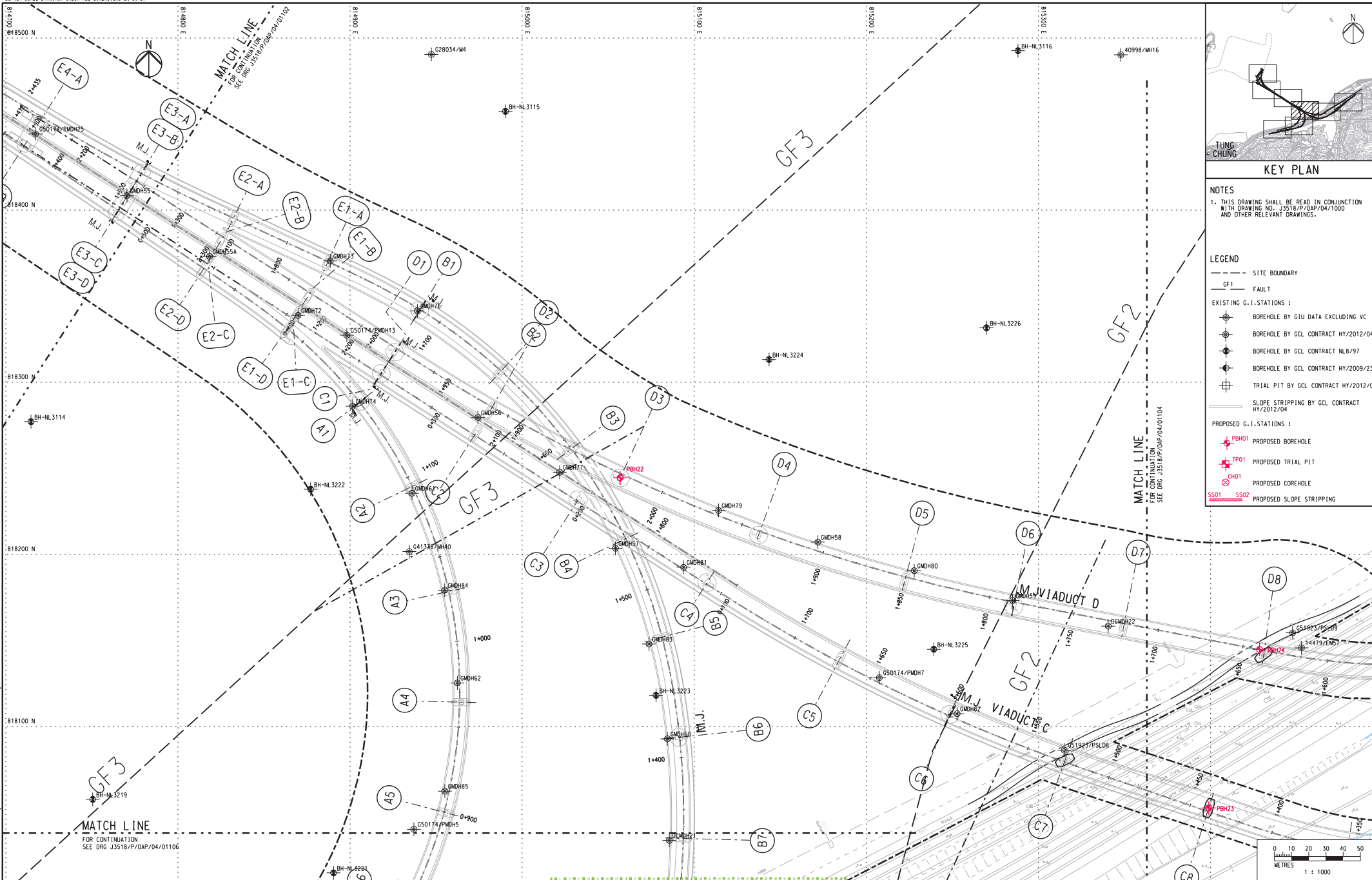
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⊕	TRIAL PIT BY GCL CONTRACT HY/2012/04
---	SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
PROPOSED G.I.-STATIONS :	
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⊕	PROPOSED TRIAL PIT
⊕	PROPOSED COREHOLE
---	PROPOSED SLOPE STRIPPING

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C	SUBMISSION	RC	09/13				

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 港珠澳大桥香港工程管理局
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

Supervising Officer
AECOM

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 Tuen Mun - Chek Lap Kok Link
 Southern Connection Viaduct Section

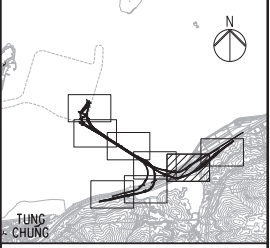
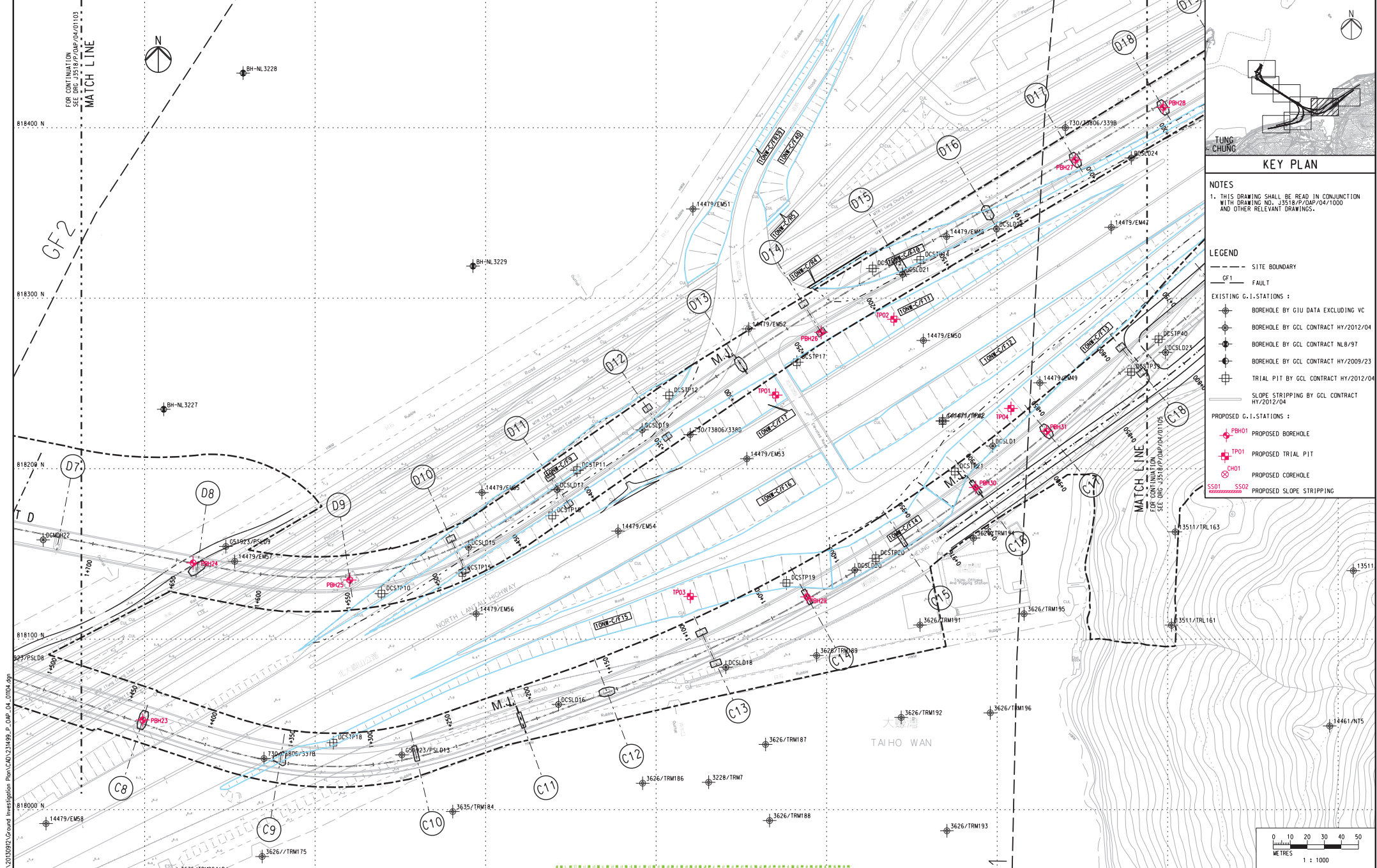
Contractor
Gammon

Originator
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 ● BOREHOLE BY GCL CONTRACT HY/2012/04
 ● BOREHOLE BY GCL CONTRACT NL6/97
 ● 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



Rev	Description	By	Date	Rev	Description	By	Date	Drawn	Date
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
 HIGWAYS DEPARTMENT
 港珠澳大橋香港工程總處
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

Supervising Officer
 AECOM

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

Contractor
 Gammon

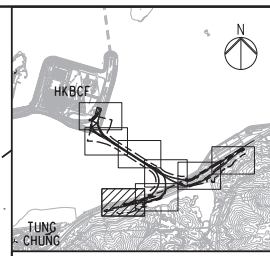
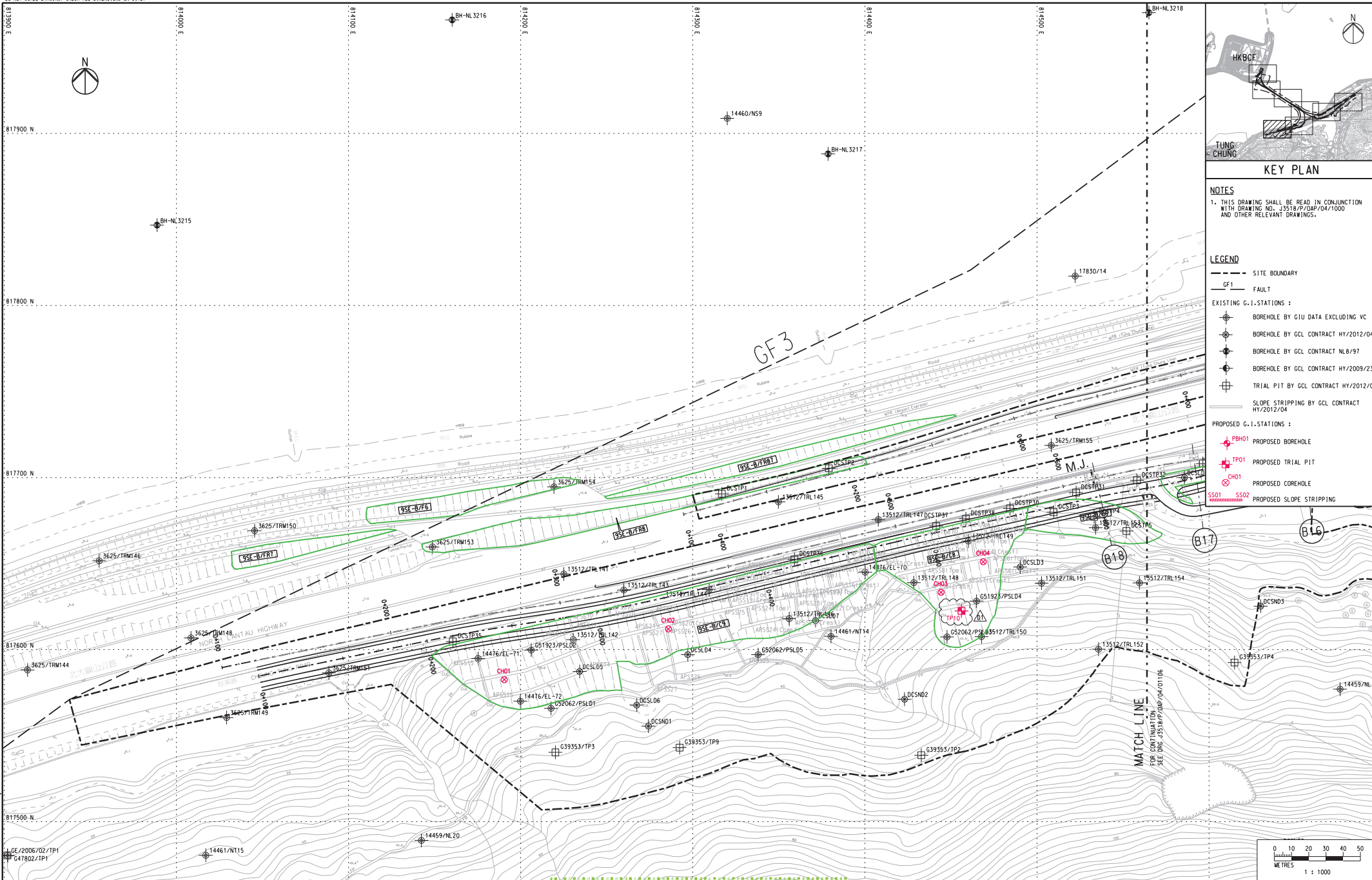
Originator
 ARUP

Drawing title
Figure 1.2f

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

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DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



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 NL6/97
 - ⊕ 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

Printed by : 07/11/2013
 File name : J:\3518\p\oap\04\1000\dwg

1. 2006/02/TP1
 2. 2006/02/TP1

Rev	Description	By	Date	Rev	Description	By	Date	Drawn	Date	Client
A	SUBMISSION	RC	07/13					RL	07/13	路政署 HIGHWAYS DEPARTMENT 港珠澳大桥香港工程管理局 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
B	SUBMISSION	RC	07/13					Checked	Approved	
C	SUBMISSION	RC	09/13					DS	DOP	
D1	FOR INTERNAL REVIEW	RC	11/13					Scale	1:1000 @ A1 / 1:2000 @ A3	

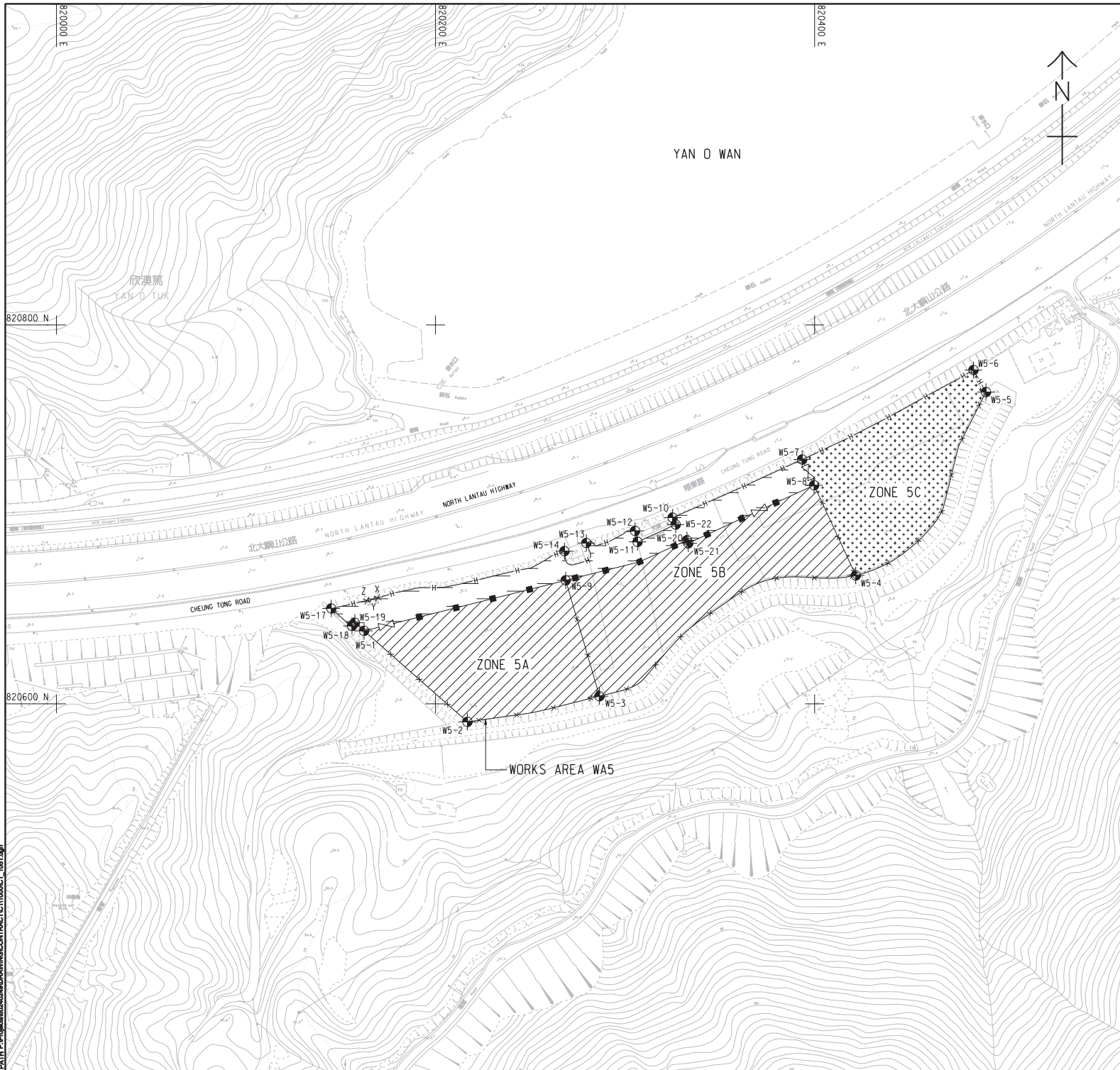
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 港珠澳大桥香港工程管理局
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

Supervising Officer: **AECOM**
 Contractor: **Gammon**


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

Originator: **ARUP**







Drawing title: **Figure 1.2g**
 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.
- DEMARCATION 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 ERRECTED 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 ERRECTED 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-CLK RELATED CONTRACTS. THE AREAS HATCHED WITH  ARE TENTATIVELY ALLOCATED FOR THE USE OF 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 ERRECTED AND MAINTAINED UNDER THIS CONTRACT)
-  CHAIN LINK FENCE AND GATE (TO BE ERRECTED AND MAINTAINED BY OTHERS)
-  CHAIN LINK FENCE AND GATE (TO BE ERRECTED AND MAINTAINED UNDER THIS CONTRACT)

SETTING OUT COORDINATES OF WORKS AREA W5

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

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
1	OCT. 12	TENDER DRAWING	CWN

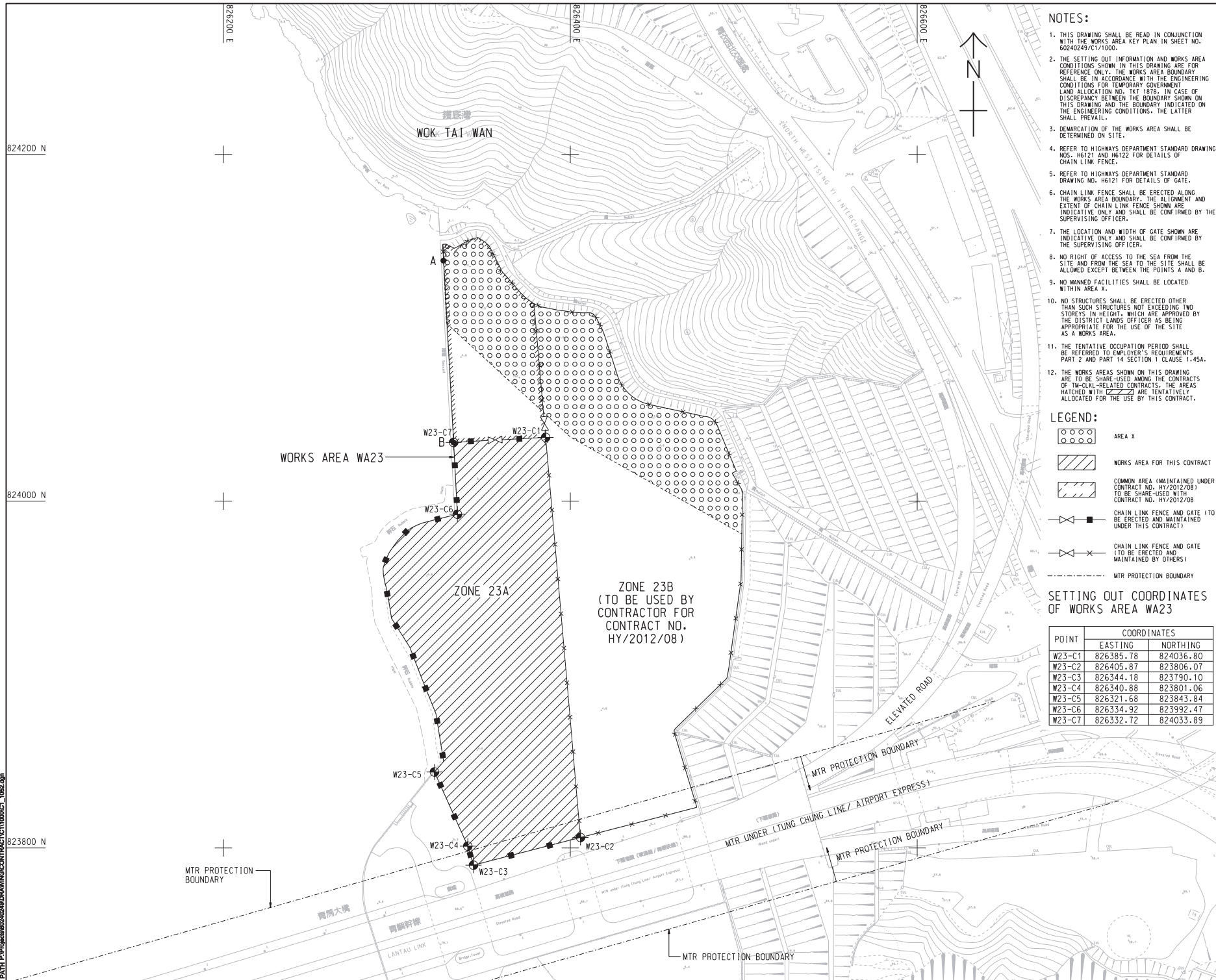
STATUS

SCALE	DIMENSION UNIT
A1:1000	METRES

KEY PLAN

Figure 1.2h

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NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/CT1/000.
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 1879. 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 SHARED AMONG THE CONTRACTS OF TM-CLKL-RELATED CONTRACTS. THE AREAS HATCHED WITH [diagonal lines] ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.

LEGEND:

- [Circle with dot symbol] AREA X
- [Diagonal lines symbol] WORKS AREA FOR THIS CONTRACT
- [Cross-hatch symbol] COMMON AREA (MAINTAINED UNDER CONTRACT NO. HY/2012/08) TO BE SHARED WITH CONTRACT NO. HY/2012/08
- [Chain link symbol] CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
- [Chain link with gate symbol] CHAIN LINK FENCE AND GATE (TO BE SHARED AND MAINTAINED BY OTHERS)
- [Dashed line symbol] MTR PROTECTION BOUNDARY

SETTING OUT COORDINATES OF WORKS AREA WA23

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	826354.92	823992.47
W23-C7	826332.72	824033.89

AECOM

PROJECT NO.
60240249

CONTRACT NO.
HY/2012/07

TUEN MUN - CHEK LAP KOK LINK

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

CLIENT
路政署 HIGHWAYS DEPARTMENT
港務局 港務工程管理有限公司
Hong Kong + Zhuhai + Hainan Bridge
Hong Kong Project Management Office

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
[Symbol]

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
1	OCT. 12	TENDER DRAWING	CWN

STATUS

SCALE
A1:1:1000

DIMENSION UNIT
METRES

KEY PLAN

Figure 1.2i

PROJECT NO.
60240249

CONTRACT NO.
HY/2012/07

SHEET TITLE
WORKS AREA AND HOARDING PLAN

SHEET NUMBER
60240249/CT1/052

SHEET 2 OF 2

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SETTING OUT COORDINATES OF WORKS AREA WA4

POINT	COORDINATES	
	EASTING	NORTHING
W4-1,U	815717.822	818074.398
V	815718.373	818071.803
W4-2,W	815718.923	818069.208
W4-3	815868.411	818103.687
X	815865.759	818117.028
Y	815866.539	818113.104
Z	815867.319	818109.181
W4-4	815860.972	818141.118

NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/100.
- 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 631.
- THE CONTRACTOR SHALL NOTE THAT WORKS AREA WA4 IS THE AREA FOR STORAGE OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER.
- THE CONTRACTOR SHALL TAKE UP AND MAINTAIN THE EXISTING CHAIN LINK FENCE AND GATE. PROVIDE THE SECURITY, SITE CLEANLINESS AND TIDINESS FOR THE WORKS AREA.
- THE CONTRACTOR SHALL NOTE THAT THE SETTING OUT COORDINATES OF WORKS AREA WA4 ARE TENTATIVE ONLY AND THE CONTRACTOR SHALL VERIFY THE SETTING OUT COORDINATES ON SITE.

LEGEND:

- WORKS AREA WA4
- EXISTING CHAIN LINK FENCE AND GATE

AECOM

PROJECT NO. 60240249

TUEN MUN - CHEK LAP KOK LINK

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

CLIENT
 路政署 DEPARTMENT OF HIGHWAYS
 港務局 港務工程管理局
 Hong Kong + Zhuhai + Hainan Bridge
 Hong Kong Project Management Office

CONSULTANT
 AECOM Asia Company Ltd.
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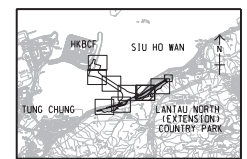
SUB-CONSULTANTS
 2/11/2012/16

Figure 1.2j

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.	APP.
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SCALE: A1 : 1000
 DIMENSION UNIT: METRES



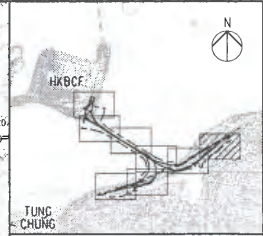
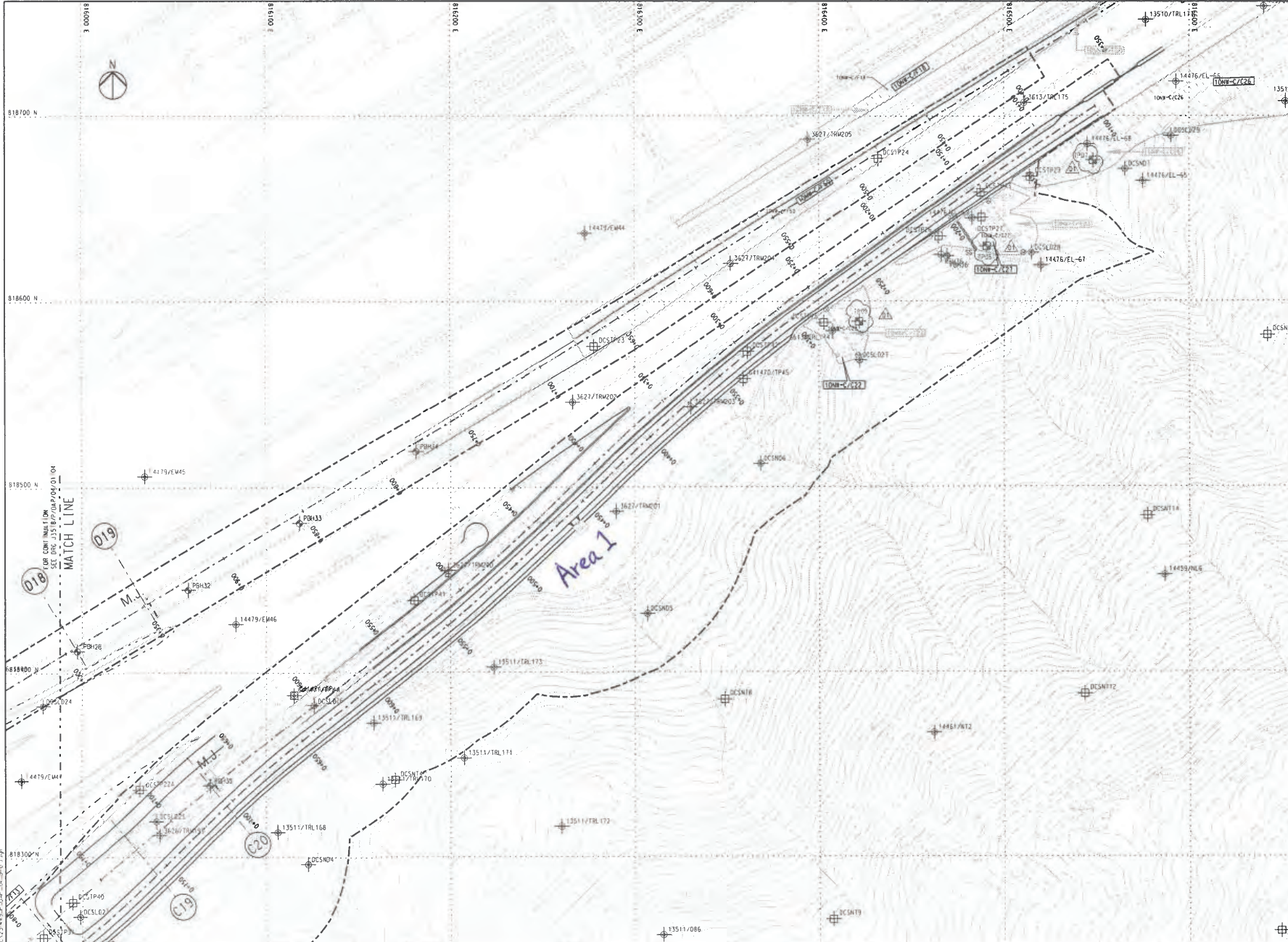
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 CONTRACT NO. HY/2012/07

SHEET TITLE
 WORKS AREA WA4

SHEET NUMBER
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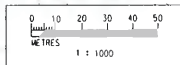
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NOTES
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- LEGEND**
- SITE BOUNDARY
 - GF1 FAULT
- EXISTING G.I. STATIONS :
- ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
 - ⊕ BOREHOLE BY GCL CONTRACT N6.8/97
 - ⊕ 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 :
- ⊕ B-0 PROPOSED BOREHOLE
 - ⊕ T-0 PROPOSED TRIAL PIT
 - ⊕ C-01 PROPOSED COREHOLE
 - ⊕ S502 PROPOSED SLOPE STRIPPING



Rev	Description	By	Date	Rev	Description	By	Date
01	FOR CONSTRUCTION	RL	31/7/13				
02	FOR CONSTRUCTION	RL	27/7/13				
03	FOR CONSTRUCTION	RL	29/7/13				
04	FOR INTERNAL REVIEW	RL	19/7/12				

Drawn	Date	Client
RL	07/13	路政署 HIGHWAYS DEPARTMENT
Checked	Approved	Supervising Officer
DS	DOP	AZCOM
Scale	1:1000 @ A1 / 1:2000 @ A3	

Client: 路政署 HIGHWAYS DEPARTMENT
 港珠澳大桥香港工程指挥部
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

Supervising Officer: AZCOM

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

Contractor: Gammon

Originator: ARUP

Drawing title: **Figure 1.2k**

Drawing no. J3518/P/OAP/04/01105 Rev. D1

1:1000 @ A1 / 1:2000 @ A3
 1:1000 @ A1 / 1:2000 @ A3

1.2 SCOPE OF REPORT

This is the Eighteenth 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 April 2015.

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
HyD (Highways Department)	Project Coordinator	Stanley Chan	2762 3406	3188 6614
	Senior Engineer	Steven Shum	2762 4133	3188 6614
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	Dr. F.C. Tsang	3465 2828	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 month are listed below:

Marine Works

- Construction and installation of pile caps;
- Marine piling platform installation & uninstallation;
- Pier construction;

- Installation of launching gantry;
- Marine piling; and,
- Installation of pier head segment.

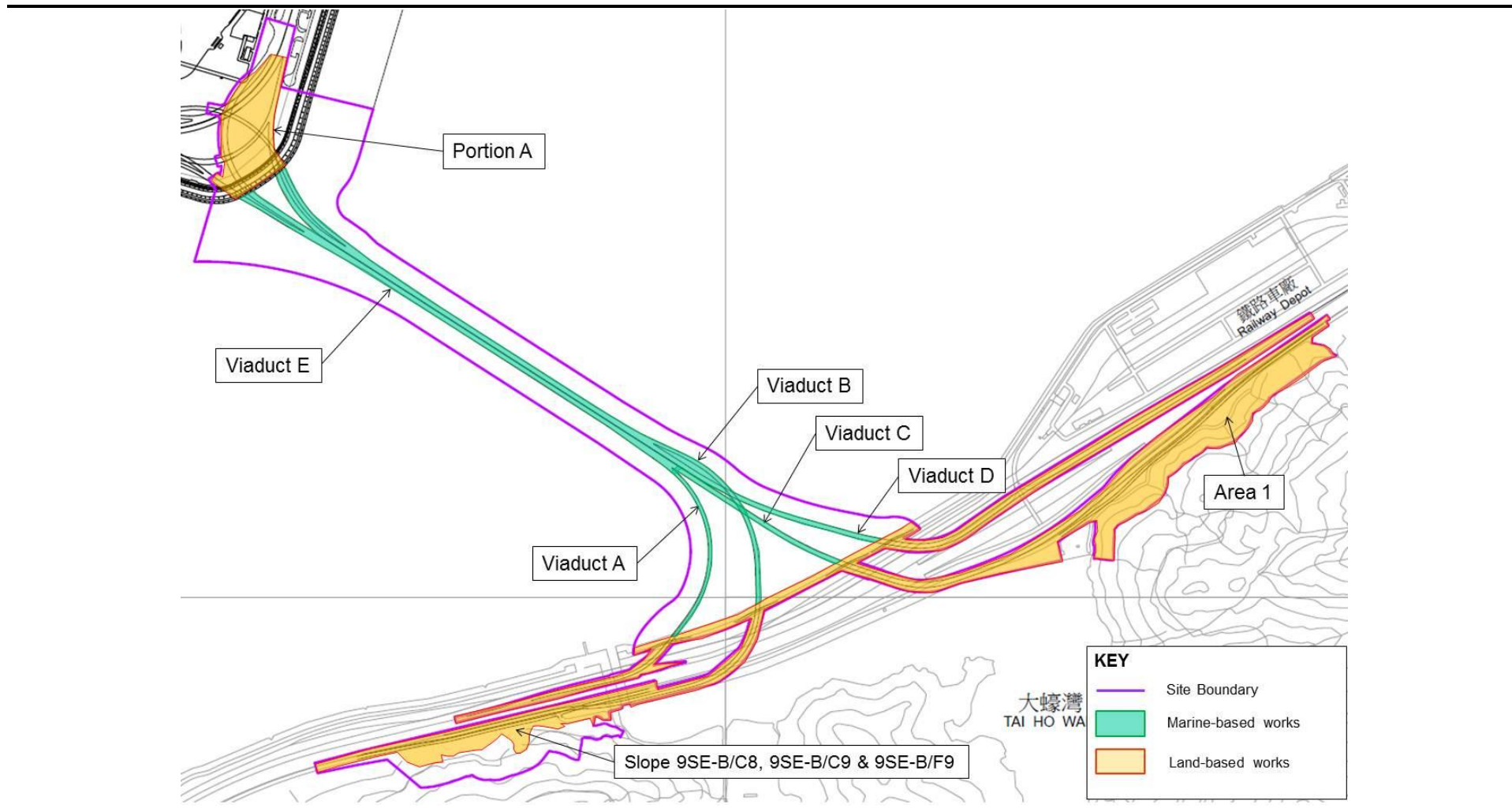
Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Utility surveys; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in *Figure 1.4*.

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

Figure 1.3 Locations of Construction Activities in the Reporting Month



Key

Air Sensitive Receiver

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

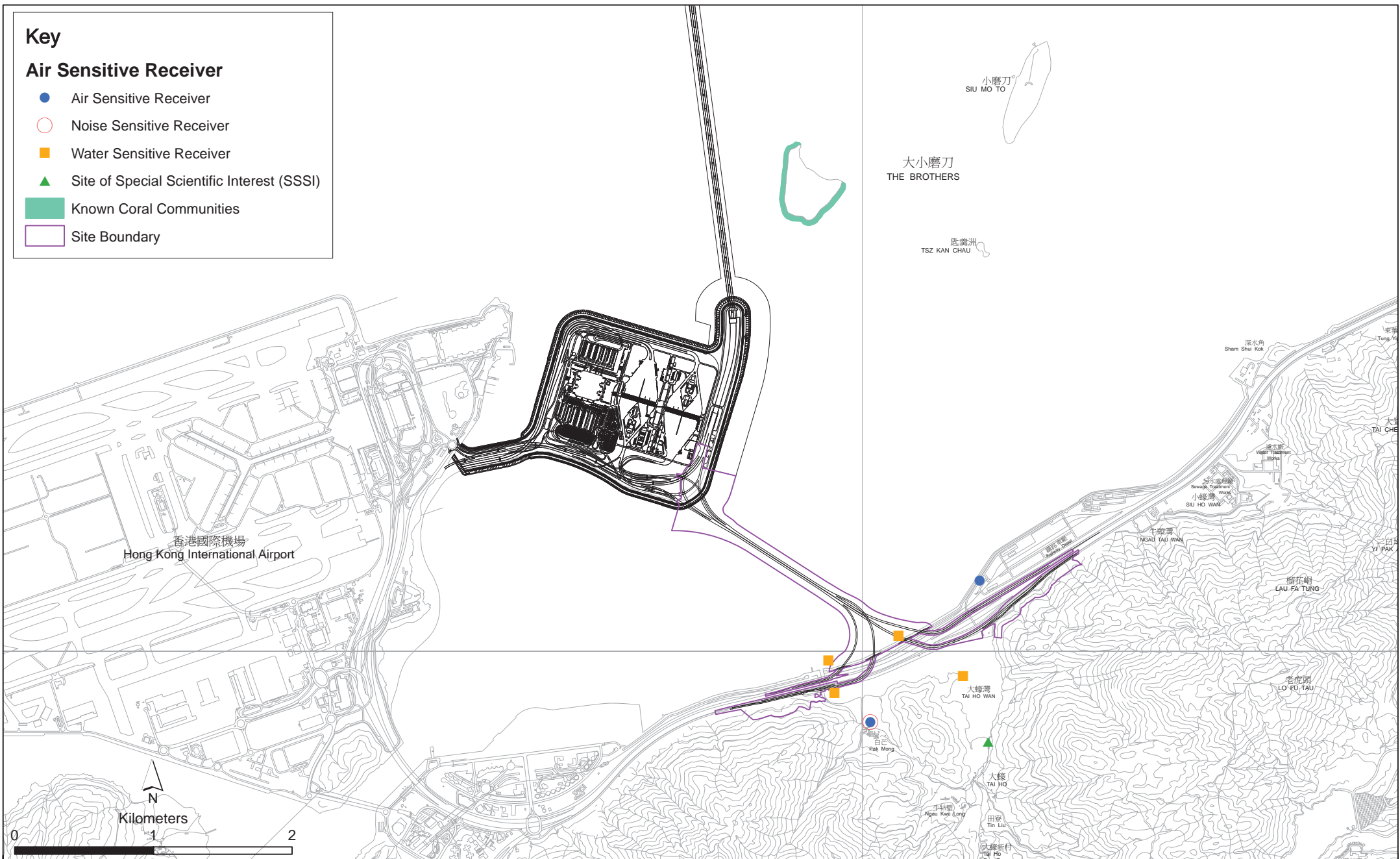


Figure 1.4

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 Levels 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 9	MTR Depot	On the ground nearby MTR Depot Entrance	6, 9, 15, 21, 27 and 30 April 2015
ASR 8A	Area 4	On ground at the works area, Area 4	6, 9, 15, 21, 27 and 30 April 2015

High Volume Samplers (HVSs) were used for carried out 1-hour and 24-hour TSP monitoring on 6, 9, 15, 21, 27 and 30 April 2015 at ASR8A and ASR9 in accordance with the requirements of the Updated EM&A Manual. The TSP monitoring stations are illustrated in *Figure 2.1* and detailed in *Table 2.1*. Wind anemometer was deployed at Area 4 for logging wind speed and wind direction. Copies of the calibration certificates for the equipment are presented in *Appendix E*. Details of the deployed equipment are given in *Table 2.2*.

Key

- Alternative Air Monitoring Station
- Site Boundary



Figure 2.1

Locations of Air Quality Monitoring Stations

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 Sensor	Global Water (Wind Speed Sensor: WE550; Wind Direction Sensor: WE570)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

2.1.2 *Monitoring Schedule for the Reporting Month*

The schedule for air quality monitoring in April 2015 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*

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
ASR 8A	86	59 - 124	394	500
ASR 9	112	59 - 217	393	500

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

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
ASR 8A	56	50 - 60	178	260
ASR 9	65	56 - 72	178	260

The major dust sources in the reporting period included construction activities under the Contract as well as nearby traffic emissions.

All 1-hour and 24-hour TSP results were below the Action and Limit levels 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 at ASR8A 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, 9, 15, 21, 27 and 30 April 2015 by using sound level meter at the designated monitoring station NSR1A (*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 deployed equipment are 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 1A	Pak Mong Village Pavilion	On the ground at the village entrance	30-minute 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, 9, 15, 21, 27 and 30 April 2015

Table 2.6 *Noise Monitoring Equipment*

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

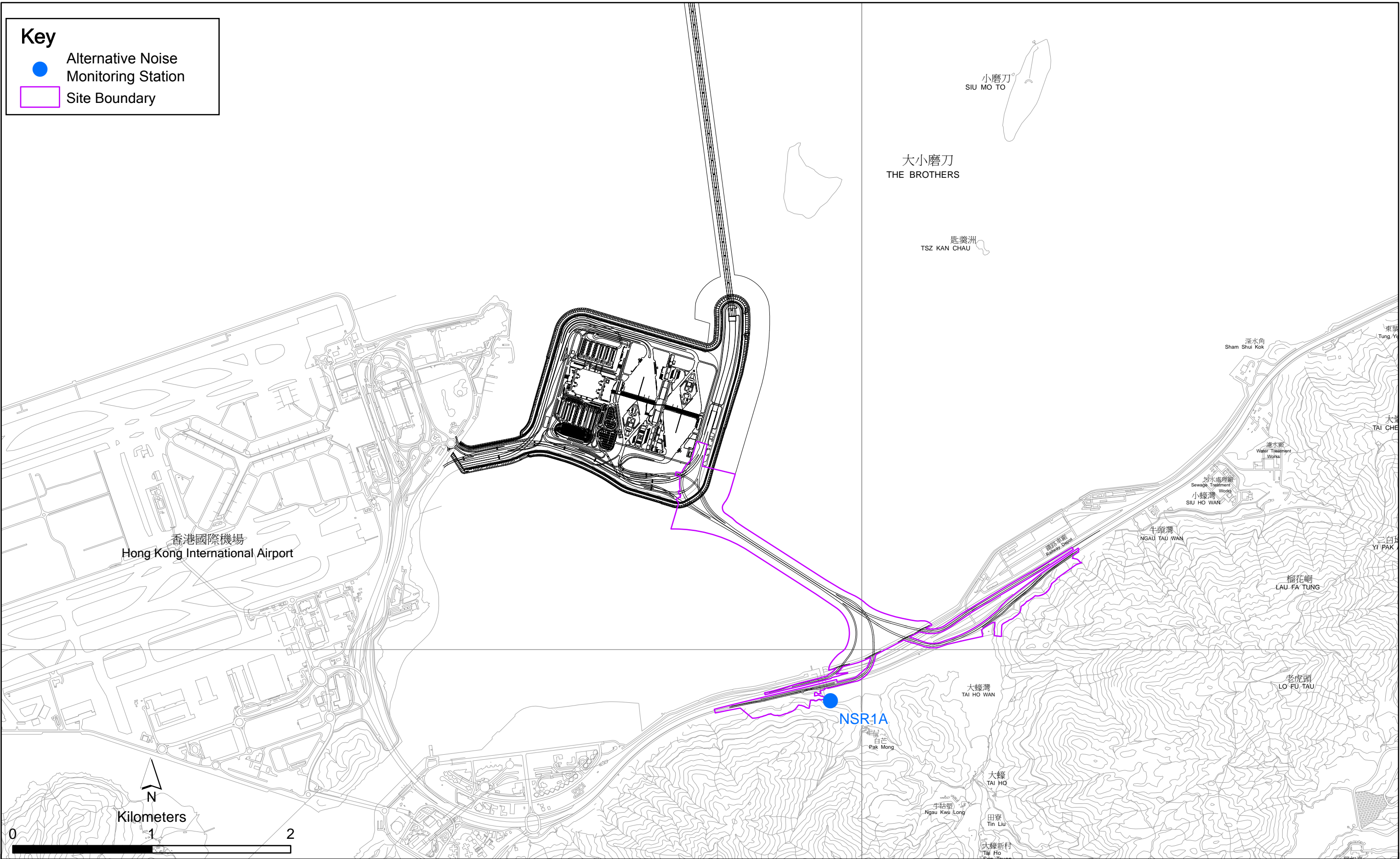


Figure 2.2

Location of Noise Monitoring Station

2.2.2 *Monitoring Schedule for the Reporting Month*

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

2.2.3 *Results and Observations*

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), Leq (30mins)	Range, dB(A), Leq (30mins)	Limit Level, dB(A), Leq (30mins)
NSR 1A	60	57 – 61	75

No noise Action Level and Limit level exceedance was recorded 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*

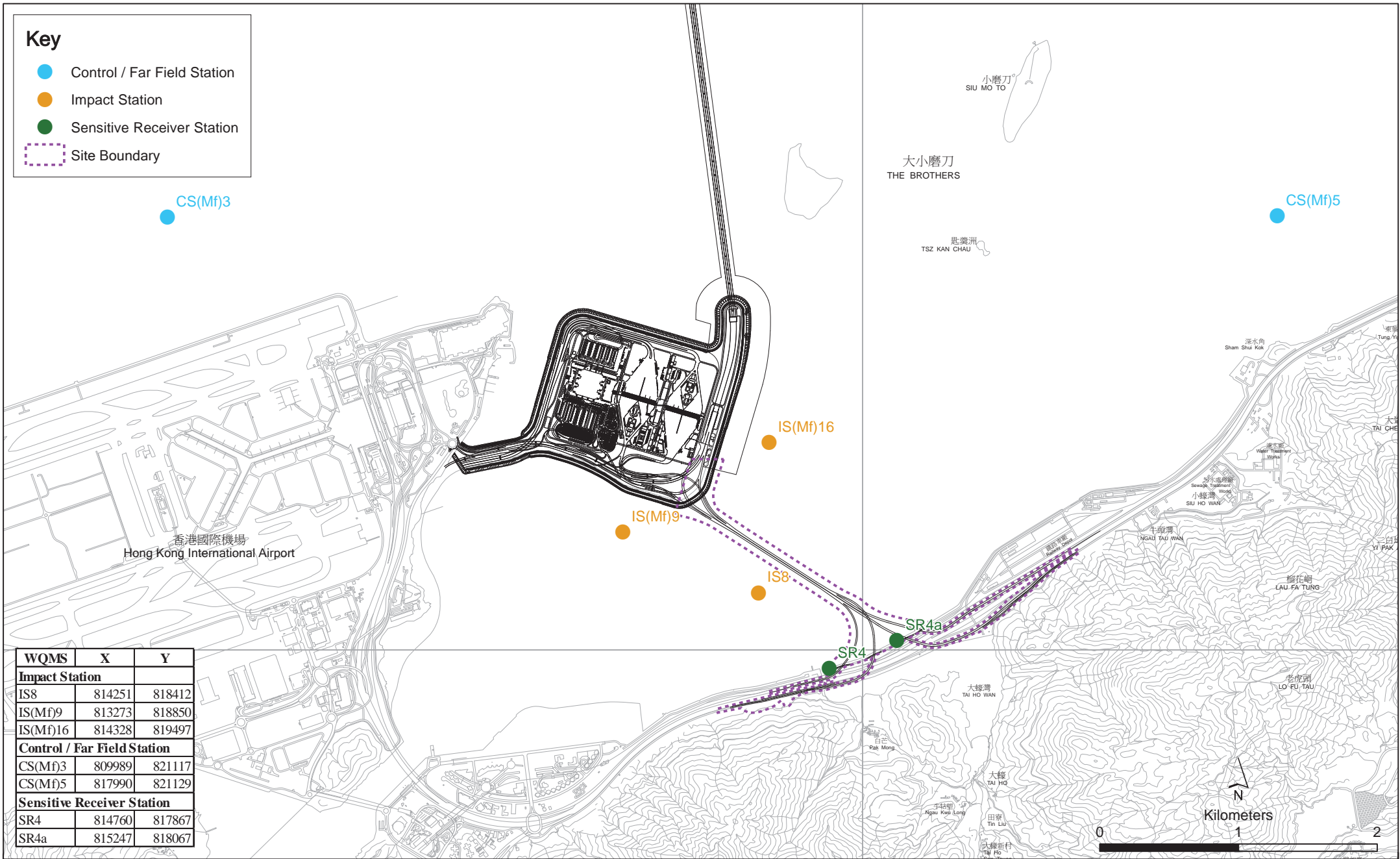
2.3.1 *Monitoring Requirements and Equipment*

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 Levels of the water quality monitoring are provided in *Appendix D*.

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

Key

- Control / Far Field Station
- Impact Station
- Sensitive Receiver Station
- Site Boundary



WQMS	X	Y
Impact Station		
IS8	814251	818412
IS(Mf)9	813273	818850
IS(Mf)16	814328	819497
Control / Far Field Station		
CS(Mf)3	809989	821117
CS(Mf)5	817990	821129
Sensitive Receiver Station		
SR4	814760	817867
SR4a	815247	818067

Figure 2.3

Locations of Water Quality Monitoring Stations

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) • Water depth (m) • Salinity (ppt) • DO (mg/L and % of saturation) • SS (mg/L) 	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 may be omitted
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497			
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
DO and Salinity	YSI Pro2030
Turbidity meter	HACH Model 2100Q
pH meter	HANNA HI8314
Positioning Equipment	Koden913MK2 with KBG-3 DGPS antenna
Water Depth Detector	Speedtech Instrument SM-5
Water Sampler	Kemmerer 1520 (1520-C25) 2.2L with messenger

2.3.2 *Monitoring Schedule for the Reporting Month*

The schedule for water quality monitoring in April 2015 is provided in *Appendix F*.

2.3.3 *Results and Observations*

In total of 13 monitoring events for impact water quality monitoring were conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in *Appendix J*.

Although depth-averaged SS on 2 and 7 April during ebb-tide and flood-tide, and 28 April during ebb-tide were observed higher than the Action Level, the results were lower than 120% of the upstream control at the same tide of the same day. As such, the above depth-averaged SS results were considered as sporadic events of natural variation in water quality. No Action and Limit levels exceedances was thus recorded at all monitoring stations for impact water quality monitoring in the reporting month. No action was 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 Geo One Phottix
Camera	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.

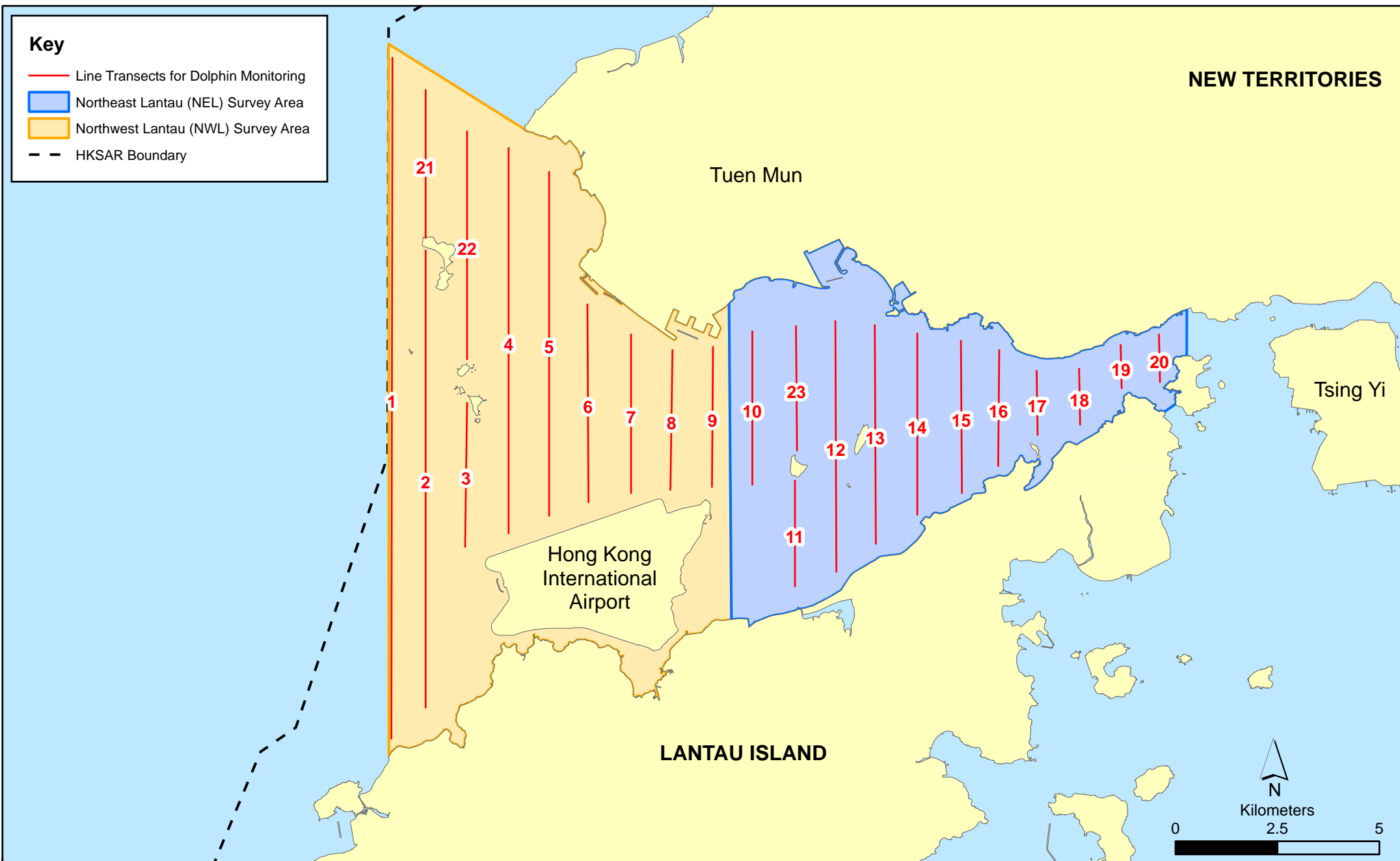


Figure 2.4

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

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
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*.

2.4.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 8, 10, 17 and 22 of April 2015 (*Appendix F*).

2.4.7 *Results and Observations*

A total of 300.70 km of survey effort was collected, with 95.5% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the surveys in April 2015. Among the two areas, 114.40 km and 186.30 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 217.91 km and 82.79 km respectively. The survey efforts are summarized in *Appendix K*.

Three (3) groups of thirteen (13) Chinese White Dolphins were sighted during the two sets of monitoring surveys in April 2015. All sightings were made in NWL, with no dolphin being sighted at all in NEL. During surveys in April 2015, only one (1) of the three (3) sightings was made on primary lines during on-effort search, and none of the dolphin groups was associated with operating fishing vessel. No sighting was made in the proximity of the Project's alignment. The distribution of dolphin sighting 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) in April 2015 are shown 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: Apr 8 th / 10 th	0.0	0.0
	Set 2: Apr 17 th / 22 nd	0.0	0.0
NWL	Set 1: Apr 8 th / 10 th	1.4	4.2
	Set 2: Apr 17 th / 22 nd	0.0	0.0

Note: Dolphin Encounter Rates are deduced from the two sets of surveys (two surveys in each set) in April 2015 in Northeast (NEL) and Northwest Lantau (NWL)

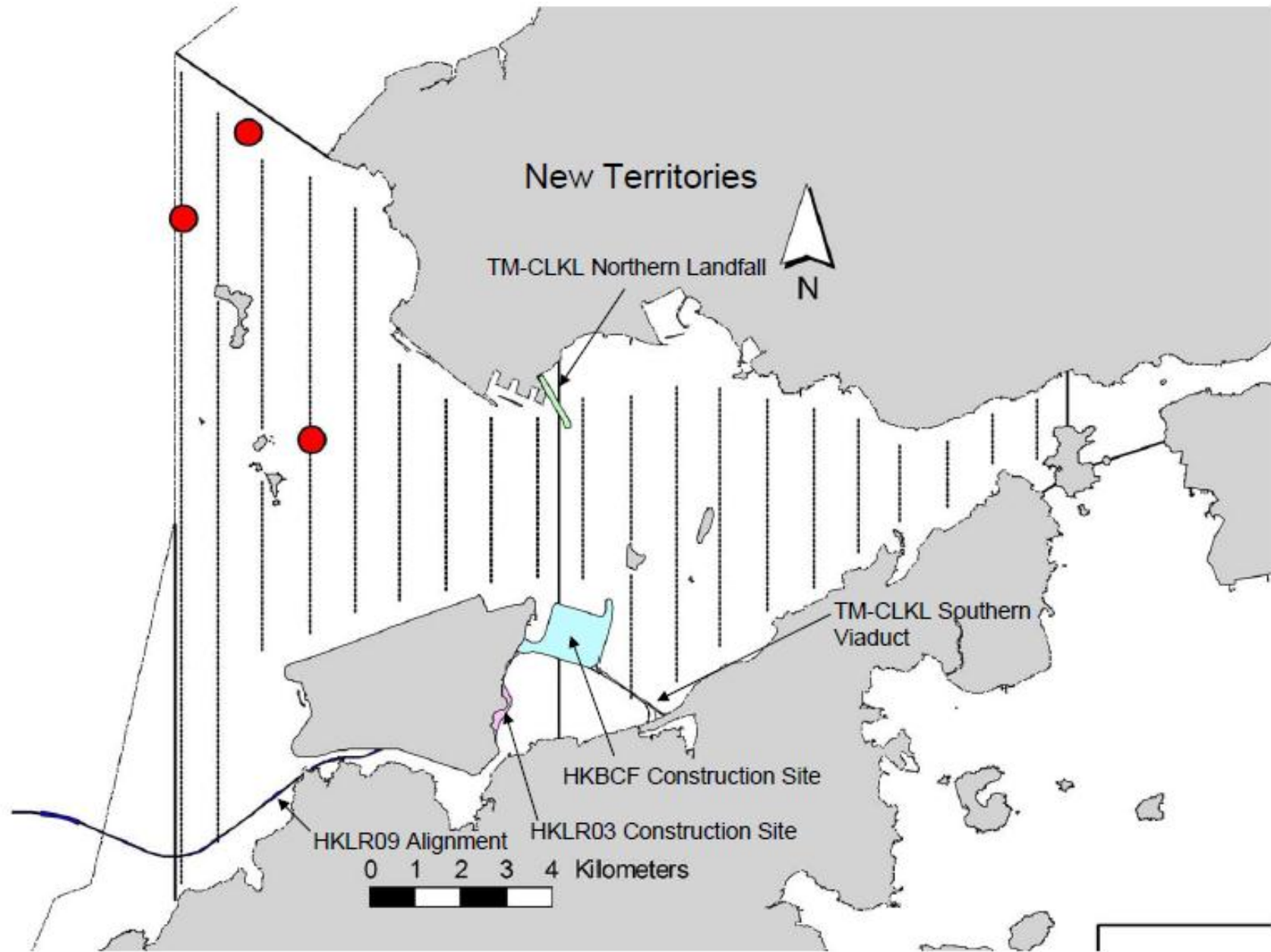


Figure 2.5

Date 7/5/2015

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 April 2015)

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	0.7	1.1	2.2	6.3

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in April 2015 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 April 2015 was 4.33 individuals per group, which was slightly higher than the ones in previous months of dolphin monitoring. Two (2) of the three (3) dolphin groups were composed of two to three (2-3) dolphins, while another larger group of eight (8) dolphins were also sighted during the monitoring period.

No unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

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.

2.4.8 Marine Mammal Exclusion Zone Monitoring

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of marine works activities being undertaken. Passive Acoustic Monitoring (PAM) was implemented when the marine piling works were carried out outside the daylight hours in this reporting month. No sighting of Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) were recorded in April 2015 during the exclusion zone monitoring.

2.5

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 2, 9, 15, 22 and 30 April 2015.

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

Table 2.14 Specific Observations Identified during the Weekly Site Inspections in this Reporting Month

Inspection Date	Environmental Observations	Recommendations/ Remarks
2 April 2015	Dockyard near Area 23 <ul style="list-style-type: none"> • Drip trays were not plugged. Area 1 <ul style="list-style-type: none"> • Soil stockpile was not covered. 	Dockyard near Area 23 <ul style="list-style-type: none"> • Drip trays should be plugged. Area 1 <ul style="list-style-type: none"> • Soil stockpile should be covered by tarpaulin sheet or watered to avoid dust emission.
9 April 2015	Pier E13AB <ul style="list-style-type: none"> • The updated checklist for wetsep was not displayed. Pier E9 <ul style="list-style-type: none"> • A generator was not placed on acoustic decoupling pad. 	Pier E13AB <ul style="list-style-type: none"> • The updated checklist should be displayed at the wetsep. Pier E9 <ul style="list-style-type: none"> • Operating generators on marine platform should be placed on acoustic decoupling pad.
15 April 2015	Slope B/F9 <ul style="list-style-type: none"> • The exposed area was partially dry. Pier B14 <ul style="list-style-type: none"> • The updated EP was not displayed. Pier D12 <ul style="list-style-type: none"> • The updated EP was not displayed. • A drip tray for generator was not plugged. 	Slope B/F9 <ul style="list-style-type: none"> • Watering was applied immediately. Pier B14 <ul style="list-style-type: none"> • The updated EP should be displayed. Pier D12 <ul style="list-style-type: none"> • The updated EP should be displayed. • The drip tray should be plugged.
22 April 2015	Seafront <ul style="list-style-type: none"> • Some chemical containers were not placed in drip trip. Pier D3 <ul style="list-style-type: none"> • Gutter was not properly installed. Pier E11 <ul style="list-style-type: none"> • A generator was not placed on acoustic decoupling pad. 	Seafront <ul style="list-style-type: none"> • Chemical containers should be placed in drip trip. Pier D3 <ul style="list-style-type: none"> • Gutter should be properly installed. Pier E11 <ul style="list-style-type: none"> • Generator on marine platform should be placed on acoustic decoupling pad.
30 April 2015	Pier ACD1 <ul style="list-style-type: none"> • A drip tray for generator was placed without acoustic decoupling pad and containing stagnant water. • A drip tray for generator was not plugged. 	Pier ACD1 <ul style="list-style-type: none"> • Acoustic decoupling pad should be provided and stagnant water should be removed. • A drip tray for generator should be plugged.

The Contractor has rectified all of the observations identified during environmental site inspections in the reporting month.

2.6 WASTE MANAGEMENT STATUS

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

Wastes generated during this reporting period include mainly construction wastes (inert and non-inert) and recyclable materials. Reference has been made to the waste flow table prepared by the Contractor (*Appendix M*). The quantities of different types of wastes are summarized in *Table 2.15*.

Table 2.15 Quantities of Different Waste Generated in the Reporting Period

Month/Year	Inert C&D Materials ^(a) (m ³)	Imported Fill (m ³)	Inert Construction Waste Re-used (m ³)	Non-inert Construction Waste ^(b) (kg)	Recyclable Materials ^(c) (kg)	Chemical Wastes (kg)	Marine Sediment (m ³)	
							Category L	Category M (M _p & M _f)
April 2015	7,694	0	1,885	133,630	105	0	0	0

Notes:

- (a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.
- (b) Non-inert construction wastes include general refuse disposed at landfill.
- (c) Recyclable materials include metals, paper, cardboard, plastics, timber, felled trees and others.

The Contractor was 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 was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store 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.

2.7 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.16* below.

Table 2.16 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	N/A	HyD	Tuen Mun- Chek Lap Kok Link
Construction Dust Notification	361571	5 Jul 2013	N/A	GCL	
Construction Dust Notification	362093	17 Jul 2013	N/A	GCL	For Area 23
Chemical Waste Registration	5213-961-G2380-13	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract HY/2012/07 (Area 1 adjacent to Cheng Tung Road, Siu Ho Wan)
Chemical Waste Registration	5213-961-G2380-14	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract HY/2012/07 (Area 2 adjacent to Cheung Tung Road, Pak Mong Village)
Chemical Waste Registration	5213-974-G2588-03	4 Nov 2013	N/A	GCL	Chemical waste produced in Contract HY/2012/07 (WA5 adjacent to Cheung Tung Road, Yam O)
Chemical Waste Registration	5213-951-G2380-17	12 Jun 2014	N/A	GCL	Viaducts A, B, C, D & E
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	-
Construction Waste Disposal Account	7019470	3 Mar 2014	N/A	GCL	Vessel CHIT Account
Waste Water Discharge License	WT00019017-2014	13 May 2014	31 May 2019	GCL	Discharge for marine portion
Waste Water Discharge License	WT00019018-2014	13 May 2014	31 May 2019	GCL	Discharge for land portion
Construction Noise Permit	Nil	N/A	N/A	GCL	For Piling Works
Construction Noise Permit for night works and works in general holidays	GW-RW0093-15	26 Feb 2015	26 Aug 2015	GCL	General works at WA5
Construction Noise Permit for night works and works in general holidays	GW-RS0307-15	27 Mar 2015	27 Sep 2015	GCL	For Load unload at NLH near Viaduct D
Construction Noise Permit for night works and works in general holidays	GW-RS0470-14	29 Apr 2015	28 Oct 2015	GCL	For Broad Permit
Construction Noise Permit for night works and works in general holidays	GW-RS0078-15	28 Jan 2015	29 Jul 2015	GCL	For Plant mobilization using tractor with trailer
Construction Noise Permit for night works and works in general holidays	GW-RS0326-15	30 Mar 2015	31 May 2015	GCL	B9-B16 Pier Head Segments Erection
Construction Noise Permit for night works and works in general holidays	GW-RS0137-15	12 Feb 2015	15 Aug 2015	GCL	Pre-casted pile cap shell installation at E10-E13

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Construction Noise Permit for night works and works in general holidays	GW-RS0212-15	2 Mar 2015	4 Jun 2015	GCL	Pier A8A9 Safety Fence Erection
Construction Noise Permit for night works and works in general holidays	GW-RS0225-15	13 Mar 2015	12 May 2015	GCL	TTA Case 009 Ch.2.1E-4.2E
Construction Noise Permit for night works and works in general holidays	GW-RS0266-15	20 Mar 2015	30 Apr 2015	GCL	B8 Pier Head Segment Erection and Formwork Installation
Marine Dumping Permit	EP/MD/16-002	17 Apr 2015	26 May 2015	GCL	For dumping Type I (Dedicated Site) and Type II sediment
Marine Dumping Permit	EP/MD/15-257	2 Apr 2015	7 Oct 2015	GCL	For dumping Type I sediment

2.8 *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.

The landscape and visual (L&V) mitigation measures were also monitored on weekly basis in the reporting period. The monitoring status is summarized in *Appendix C*.

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

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

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

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

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

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

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

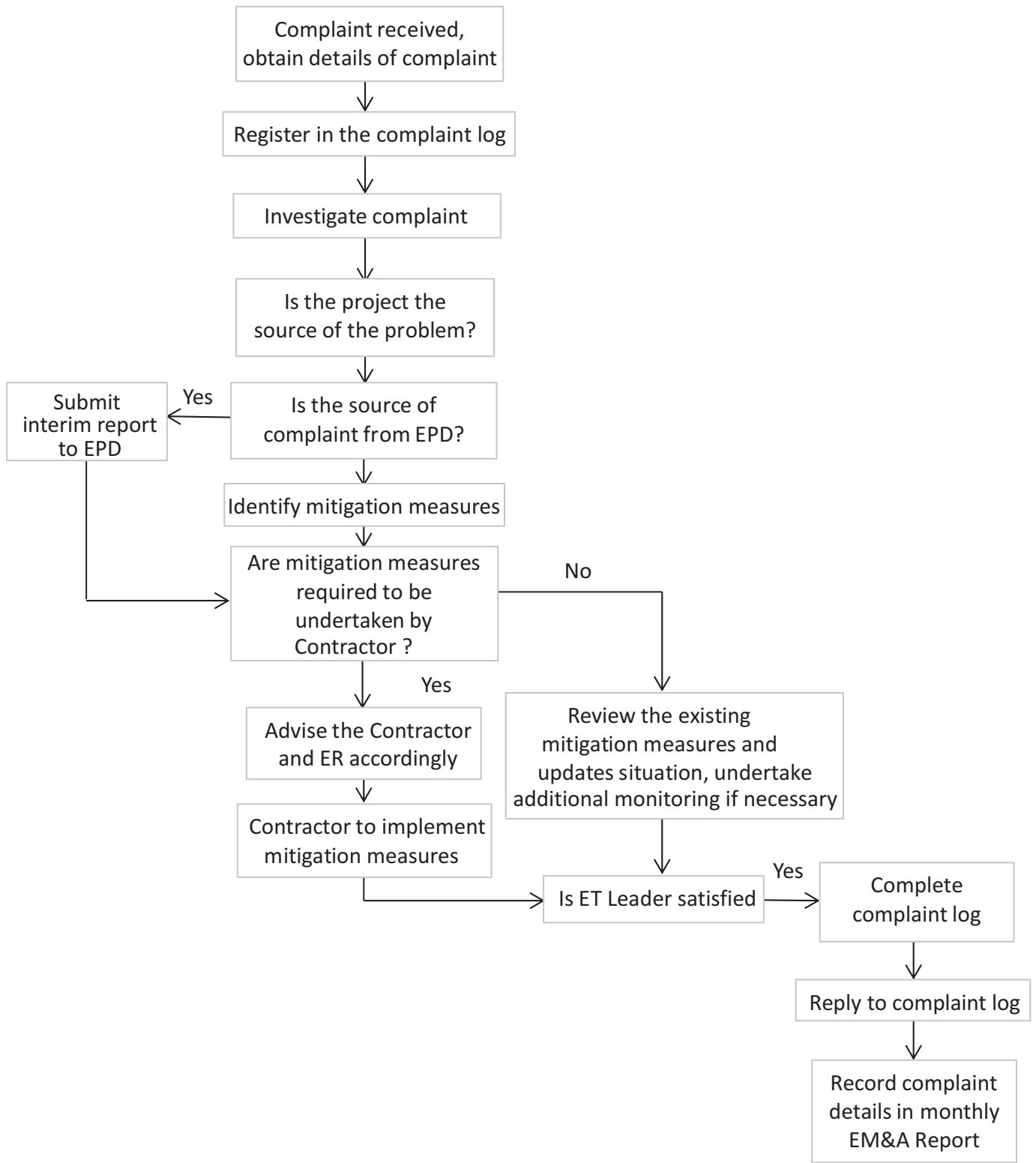


Figure 2.6

Environmental Complaint Handling Procedure

3 *FUTURE KEY ISSUES*

3.1 *CONSTRUCTION PROGRAMME FOR THE COMING MONTHS*

As informed by the Contractor, the major works for this Contract in May 2015 will be:

Marine Works

- Construction and installation of pile caps;
- Marine piling platform installation & uninstallation;
- Pier construction;
- Installation of launching gantry;
- Marine piling and
- Installation of pier head segment.

Land-based Works

- Construction and installation of pile caps;
- Pier construction;
- Drainage works;
- Land piling;
- Pre-drilling works;
- Installation of pier head segment;
- Additional land GI, trial pits & lab testing;
- Tree survey, felling and transplanting;
- Relocation of MTRC fence; and
- Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

3.2 *KEY ISSUES FOR THE COMING MONTH*

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of May 2015 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 schedules for environmental monitoring in May 2015 are provided in *Appendix F*.

4.1 CONCLUSIONS

This Eighteenth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 April 2015, in accordance with the Updated EM&A Manual and the requirements of the *Environmental Permit (EP-354/2009/D)*.

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

Three (3) groups of thirteen (13) Chinese White Dolphins were sighted during the two sets of monitoring surveys in April 2015. All sightings were made in NWL, with no dolphin being sighted at all in NEL. During surveys in April 2015, only one (1) of the three (3) sightings was made on primary lines during on-effort search, and none of the dolphin groups was associated with operating fishing vessel. No sighting was made in the proximity of the Project's alignment. 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.

Environmental site inspection was carried out five (5) times in April 2015. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

No environmental complaint, notification of summons or prosecution was 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	Duration% Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015															
												March				April				May				June			
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08
HY/2012/07 - TM-CLK Link-SC [DWP rE] - Status Update 21-03-2015																											
Contract Key Dates																											
Possession Dates / Access Period																											
POS02	Portion A (Commencement of Works+499 days)	0	21-Mar-15*	0%	0		01-Nov-14		-139	0	0%																
POS03	Portion B (Commencement of Works+619 days)	0	21-Mar-15*	0%	0		03-Mar-15		-18	307	0%																
General Submissions																											
General Requirements																											
Temporary Works Design																											
PR00130	Unloading Jetty at HKBCF - Working Platform design and approval	90	02-Jun-14 A	10%	81	02-Jul-15	12-Nov-14	17-Feb-15	-105	15	10%																
Land Works																											
PR00160	Propose/submit a performance review for piled fnds in accordance w/ ETWB TCW No. 4/20(101	26-May-14 A	80.2%	20	17-Apr-15	11-Jan-16	02-Feb-16	239	353	80%																
Land GI Works																											
PR02204	SQR Sampling & Testing and Approval	110	14-Aug-14 A	68.18%	35	06-May-15	27-Nov-14	09-Jan-15	-92	2	68%																
PR03110	Trial Pits along Cheung Tung Road	20	21-Oct-13 A	85%	3	24-Mar-15	27-Apr-18	30-Apr-18	917	5	85%																
Additional Land GI																											
PR03200	PBH25, 29, 30, 31 (Piers D9, C14, C16, C17)	33	11-Jan-14 A	75.76%	8	30-Mar-15	21-Apr-18	30-Apr-18	912	912	75%																
Design Submissions																											
Detailed Design (v18.8 18-08-14)																											
Ground Investigation																											
ARDD0009	Consultation with GEO	20	13-Aug-13 A	85%	3	25-Mar-15	14-Apr-15	16-Apr-15	16	42	85%																
ARDD0010	IC/SO Approval of Ground Investigation Interpretative Report - AP03.00	75	13-Aug-13 A	40%	45	22-May-15	30-Jan-17	31-Mar-17	485	0	50%																
ARDD0010-1	IC/SO Approval of Ground Investigation Interpretative Report - AP03.00	0		0%	0	22-May-15		31-Mar-17	485	0	0%																
ARDD0013-2	Additional GI Fieldwork, Lab Testing and Permitting - Other areas	60	16-Jul-13 A	80%	12	07-Apr-15	13-Apr-18	30-Apr-18	799	799	90%																
ARDD0017-2	IC/SO Approval of Additional GI Interpretative Report - AP03.00	75	29-Jan-14 A	40%	45	22-May-15	13-Feb-15	16-Apr-15	-26	0	30%																
ARDD0017-4	IC/SO Approval of Additional GI Interpretative Report - AP03.00	0		0%	0	22-May-15		16-Apr-15	-26	0	0%																
General Submissions																											
ARDD0037-1	Preparation of Seismic Performance Report Viaduct A,B,C,D - AP12.01	20	09-Apr-15	0%	20	06-May-15	23-Sep-15	20-Oct-15	119	0	0%																
ARDD0037-2	IC/SO Approval of Seismic Performance Report Viaduct A,B,C,D - AP12.01	75	07-May-15	0%	75	19-Aug-15	21-Oct-15	02-Feb-16	119	222	0%																
ARDD0037-4	Preparation of Seismic Performance Report Viaduct E - AP12.02	20	25-May-15	0%	20	19-Jun-15	23-Sep-15	20-Oct-15	87	0	0%																
ARDD0037-7	Preparation of Seismic Performance Report Viaduct F - AP12.03	20	23-Mar-15	0%	20	17-Apr-15	23-Sep-15	20-Oct-15	132	0	0%																
ARDD0037-8	IC/SO Approval of Seismic Performance Report Viaduct F - AP12.03	75	20-Apr-15	0%	75	31-Jul-15	21-Oct-15	02-Feb-16	132	0	0%																
ARDD0042-2	IC/SO Approval of O&M Facility Provisions DDA - BP11.01	75	14-Jan-15 A	40%	45	22-May-15	19-Aug-15	20-Oct-15	107	0	50%																
ARDD0042-4	IC/SO Approval of O&M Facility Provisions DDA - BP11.01	0		0%	0	22-May-15		20-Oct-15	107	65	0%																
Viaduct E5 and E6																											
Viaduct Design																											
Viaduct E5 E6 Superstructure Optimisation																											
TGP0540	Viaduct E5 & E6 - Preparation of Optimised Bearing Schedule	15	23-Mar-15	0%	15	10-Apr-15	27-Mar-18	16-Apr-18	786	17	0%																
TGP0550	Viaduct E5 & E6 - Preparation of Optimised Movement Joint Schedule	15	23-Mar-15	0%	15	10-Apr-15	10-Apr-18	30-Apr-18	796	796	0%																
Associated Construction Milestones																											
ARDD0175	Viaduct E5 & E6 - DDA approval ready for Initial Segment Casting	0	18-Apr-15	0%	0		21-Apr-15		4	82	0%																
Viaduct E7 & E8																											
Viaduct Design																											
Viaduct E7 E8 Superstructure Optimisation																											
TGP0740	Viaduct E7 & E8 - Preparation of Optimised Bearing Schedule	15	23-Mar-15	0%	15	10-Apr-15	27-Mar-18	16-Apr-18	786	17	0%																
TGP0750	Viaduct E7 & E8 - Preparation of Optimised Movement Joint Schedule	15	23-Mar-15	0%	15	10-Apr-15	10-Apr-18	30-Apr-18	796	796	0%																
Associated Construction Milestones																											
ARDD0220	Viaduct E7 & E8 - DDA approval ready for Initial Segment Casting	0	21-Mar-15	0%	0		22-Apr-15		33	111	0%																
Viaduct E2																											

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 1 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>09-Mar-15</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>31-Mar-15</td> <td></td> <td>WY</td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
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												March					April					May					June				
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15			
Viaduct Design																															
Viaduct E2 Superstructure Optimisation																															
TGP0240	Viaduct E2 - Preparation of Optimised Bearing Schedule	15	23-Mar-15	0%	15	10-Apr-15	27-Mar-18	16-Apr-18	786	17	0%																				
TGP0250	Viaduct E2 - Preparation of Optimised Movement Joint Schedule	15	23-Mar-15	0%	15	10-Apr-15	10-Apr-18	30-Apr-18	796	796	0%																				
Associated Construction Milestones																															
ARDD0266	Viaduct E2 - DDA approval ready for Initial Segment Casting	0	18-Apr-15	0%	0		06-Feb-15		-71	0	0%																				
Viaduct E1																															
Viaduct Design																															
ARDD0287-3	Viaduct E1 - Coordination and Further Issue of Construction Method and Temporary Works I	60	30-Jul-14 A	98.33%	1	23-Mar-15	30-Apr-18	30-Apr-18	810	0	98%																				
ARDD0287-4	Viaduct E1 - Preparation of Draft Working Drawing Set	60	30-Jul-14 A	98.33%	1	23-Mar-15	30-Apr-18	30-Apr-18	810	0	98%																				
ARDD0287-5	Viaduct E1 - GCL/FRE Final Coordinated Construction Method/Temporary Work Details	0		0%	0	23-Mar-15		30-Apr-18	810	810	0%																				
ARDD0287-8	Viaduct E1 - IC/SO Consent of Supplemental Working Drawings Viaduct E1	10	23-Mar-15	0%	10	03-Apr-15	24-Dec-14	07-Jan-15	-63	0	0%																				
ARDD0287-9	Viaduct E1 - IC/SO Consent of Supplemental Working Drawings Viaduct E1	0		0%	0	03-Apr-15		07-Jan-15	-63	10	0%																				
Viaduct D																															
Viaduct Design																															
ARDD0333-5	Viaduct D - GCL/FRE Final Coordinated Construction Method/Temporary Work Details	0		0%	0	23-Mar-15		30-Apr-18	811	811	0%																				
ARDD0333-6	Viaduct D - Preparation and Coordination of Working Drawing Set	10	17-Feb-15 A	100%	0	16-Mar-15 A					100%																				
ARDD0333-7	Viaduct D - Issue of Revised DDA Submission - DP14.03	0		100%	0	16-Mar-15 A					100%																				
ARDD0333-8	Viaduct D - IC/SO Consent of Supplemental Working Drawings Viaduct D	10	23-Mar-15	0%	10	03-Apr-15	07-Jan-15	20-Jan-15	-53	0	0%																				
ARDD0333-9	Viaduct D - IC/SO Consent of Supplemental Working Drawings Viaduct D	0		0%	0	03-Apr-15		20-Jan-15	-53	18	0%																				
Information to Contractor																															
ARDD0348	Viaduct D - Final Segment Types and Reinforcement	0		0%	0	03-Apr-15		20-Jan-15	-53	18	0%																				
ARDD0350	Viaduct D - Final Anchorage and PT Requirements	0		0%	0	03-Apr-15		20-Jan-15	-53	18	0%																				
ARDD0352	Viaduct D - Final Bearing Schedule	0		0%	0	03-Apr-15		30-Apr-18	801	801	0%																				
ARDD0354	Viaduct D - Final Movement Joint (MJ) Schedule	0		0%	0	03-Apr-15		20-Oct-15	142	49	0%																				
Viaduct C																															
Viaduct Design																															
ARDD0384	Viaduct C - IC/SO Approval of Sub & Superstructure DDA - DP13.03	75	22-Dec-14 A	40%	45	22-May-15	06-Jan-15	10-Mar-15	-54	0	50%																				
ARDD0384-1	Viaduct C - IC/SO Approval of Sub & Superstructure DDA - DP13.03	0		0%	0	22-May-15		10-Mar-15	-54	0	0%																				
ARDD0384-3	Viaduct C - Coordination and Further Issue of Construction Method and Temporary Works D	60	02-Mar-15 A	25%	45	22-May-15	16-Dec-14	17-Feb-15	-69	0	25%																				
ARDD0384-4	Viaduct C - Preparation of Draft DDA Working Drawing Set	60	02-Mar-15 A	25%	45	22-May-15	16-Dec-14	17-Feb-15	-69	0	25%																				
ARDD0384-5	Viaduct C - GCL/FRE Final Coordinated Construction Method/Temporary Work Details	0		0%	0	22-May-15		17-Feb-15	-69	0	0%																				
ARDD0384-6	Viaduct C - Preparation and Coordination of Working Drawing Set	10	25-May-15	0%	10	05-Jun-15	17-Feb-15	03-Mar-15	-69	0	0%																				
ARDD0384-7	Viaduct C - Submission of Working DDA Drawings for Viaduct C DP13.03	0		0%	0	05-Jun-15		03-Mar-15	-69	0	0%																				
ARDD0384-8	Viaduct C - IC/SO Consent of Supplemental Working Drawings Viaduct C	10	08-Jun-15	0%	10	19-Jun-15	03-Mar-15	17-Mar-15	-69	0	0%																				
ARDD0384-9	Viaduct C - IC/SO Consent of Supplemental Working Drawings Viaduct C	0		0%	0	19-Jun-15		17-Mar-15	-69	0	0%																				
Associated Construction Milestones																															
ARDD0413	Viaduct C - DDA approval ready for Commencement of Pilecaps C1-C17	0	23-May-15	0%	0		10-Mar-15		-74	0	0%																				
ARDD0414	Viaduct C - DDA approval ready for Initial Segment Casting	0	08-Jun-15	0%	0		16-Mar-15		-84	13	0%																				
Viaduct A																															
Viaduct Design																															
ARDD0430-2	Viaduct A - IC/SO Approval of Foundation DDA - DP11.01	75	04-Oct-14 A	40%	45	22-May-15	16-Apr-15	17-Jun-15	18	0	50%																				
ARDD0430-4	Viaduct A - IC/SO Approval of Foundation DDA - DP11.01	0		0%	0	22-May-15		17-Jun-15	18	0	0%																				
ARDD0433-1	Viaduct A - GCL Review of Draft DDA Rev A1 - DP11.03	5	19-Feb-15 A	40%	3	25-Mar-15	23-Dec-14	25-Dec-14	-64	0	0%																				
ARDD0433-2	Viaduct A - Update to Incorporate GCL Comments	10	26-Mar-15	0%	10	08-Apr-15	26-Dec-14	08-Jan-15	-64	0	0%																				
ARDD0434	Viaduct A - Submission of DDA - DP11.03	0		0%	0	08-Apr-15		08-Jan-15	-64	0	0%																				
ARDD0434-1	Viaduct A - Earliest IC Certificate for DDA DP11.02, DP11.03	0		0%	0	20-May-15		24-Aug-15	68	8	0%																				
ARDD0435	Viaduct A - IC/SO Approval of DDA DP11.03	75	25-May-15	0%	75	04-Sep-15	09-Jul-15	21-Oct-15	33	0	0%																				

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPrE-M22
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Tuen Mun - Chek Lap Kok Link - Southern Connection
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DWG. No.:
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Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015																
												March			April			May			June							
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15
ARDD0604-2	IC/SO Approval of Slope Combined AIP/DDA - CP14.02	75	20-Apr-15	0%	75	31-Jul-15	26-Jun-15	08-Oct-15	49	0	0%																	
Waterworks, Drainage & Utility Diversions																												
ARDD0629	IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01	75	22-Jul-14 A	90.67%	7	31-Mar-15	12-May-15	20-May-15	36	0	90%																	
ARDD0629-1	IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01	0		0%	0	31-Mar-15		20-May-15	36	0	0%																	
ARDD0629-2	Gov't Approval of Submissions for Waterworks, Drainage & Utility Diversions	75	02-Jan-14 A	90.67%	7	31-Mar-15	13-Feb-15	23-Feb-15	-26	0	90%																	
ARDD0630-3	IC/SO Approval of Deck Drainage DDA - BP20.02	75	30-Jun-14 A	90.67%	7	31-Mar-15	23-Mar-17	31-Mar-17	523	0	90%																	
ARDD0630-4	IC/SO Approval of Deck Drainage DDA - BP20.02	0		0%	0	31-Mar-15		31-Mar-17	523	0	0%																	
Viaduct Approach Ramp Retaining Walls																												
Approach Ramp D																												
ARDD0652	Approach D - IC/SO Approval of Approach Ramp D DDA - DP23.01	75	25-Sep-14 A	89.33%	8	22-May-15	07-Apr-15	16-Apr-15	-26	0	90%																	
ARDD0652-1	Approach D - IC/SO Approval of Approach Ramp D DDA - DP23.01	0		0%	0	22-May-15		16-Apr-15	-26	0	0%																	
Approach Ramp C																												
ARDD0658	Approach C - IC/SO Approval of Approach Ramp C DDA - DP20.01	75	03-Oct-14 A	80%	15	10-Apr-15	24-Feb-15	17-Mar-15	-19	0	80%																	
ARDD0658-1	Approach C - IC/SO Approval of Approach Ramp C DDA - DP20.01	0		0%	0	10-Apr-15		17-Mar-15	-19	0	0%																	
Approach Ramp B																												
ARDD0664	Approach B - IC/SO Approval of Approach Ramp B DDA - DP21.01	75	14-Oct-14 A	89.33%	8	01-Apr-15	30-Dec-15	08-Jan-16	202	0	90%																	
ARDD0664-1	Approach B - IC/SO Approval of Approach Ramp B DDA - DP21.01	0		0%	0	01-Apr-15		08-Jan-16	202	230	0%																	
Approach A																												
ARDD0670	Approach A - IC/SO Approval of Approach Ramp A DDA - DP20.01	75	03-Oct-14 A	80%	15	10-Apr-15	21-Jul-15	10-Aug-15	86	0	80%																	
ARDD0670-1	Approach A - IC/SO Approval of Approach Ramp A DDA - DP20.01	0		0%	0	10-Apr-15		10-Aug-15	86	69	0%																	
Approach F																												
ARDD0676	Approach F - IC/SO Approval of Approach Ramp F DDA - DP24.01	75	23-Dec-14 A	49.33%	38	13-May-15	31-Mar-15	21-May-15	6	0	50%																	
ARDD0676-1	Approach F - IC/SO Approval of Approach Ramp F DDA - DP24.01	0		0%	0	13-May-15		08-Dec-15	149	32	0%																	
Viaduct Pavement																												
ARDD871	Viaduct Pavement - IC/SO Approval of AIP/DDA - BP02.01	75	27-Jun-14 A	100%	0	09-Mar-15 A					100%																	
ARDD871-1	Viaduct Pavement - IC/SO Approval of AIP/DDA - BP02.01	0		100%	0	09-Mar-15 A					100%																	
Signs, Markings and Street Furniture																												
ARDD0688	IC/SO Approval of Signs, Markings & Street Furniture DDA - BP03.01	75	16-Oct-14 A	100%	0	26-Feb-15 A					100%																	
ARDD0688-1	IC/SO Approval of Signs, Markings & Street Furniture DDA - BP03.01	0		100%	0	26-Feb-15 A					100%																	
Landscape																												
ARDD0700	IC/SO Approval of DDA for landscape works - BP22.01	75	15-Oct-14 A	60%	30	01-May-15	23-Nov-15	01-Jan-16	175	0	60%																	
ARDD0700-1	IC/SO Approval of DDA for landscape works - BP22.01	0		0%	0	01-May-15		01-Jan-16	175	0	0%																	
ARDD0701	Water Supply Application to WSD	0		0%	0	01-May-15		01-Jan-16	175	0	0%																	
ARDD0702	Gov't Approval of LVIA	40	04-May-15	0%	40	26-Jun-15	04-Jan-16	26-Feb-16	175	168	0%																	
Remaining Works																												
ARDD0704	Preparation of Remaining Works AIP - ZP01.00	30	23-Mar-15	0%	30	01-May-15	29-Aug-16	07-Oct-16	375	0	0%																	
ARDD0705	IC/SO Approval of Remaining Works AIP - ZP01.00	40	04-May-15	0%	40	26-Jun-15	10-Oct-16	02-Dec-16	375	0	0%																	
Segment Target Geometry And Erection Engineering																												
Viaduct A																												
ARDD0716	Viaduct A - Confirmation of Erection Sequence from Freyssinet	0		0%	0	23-Mar-15		05-Feb-15	-31	0	0%																	
ARDD0717	Viaduct A - Erection Sequence Analysis	20	23-Mar-15	0%	20	17-Apr-15	06-Feb-15	05-Mar-15	-31	0	0%																	
ARDD0718	Viaduct A - Target Geometry Analysis	20	20-Apr-15	0%	20	15-May-15	06-Mar-15	02-Apr-15	-31	0	0%																	
ARDD0719	Viaduct A - Segment Geometry Schedules	10	18-May-15	0%	10	29-May-15	03-Apr-15	16-Apr-15	-31	33	0%																	
Viaduct C																												
ARDD0721	Viaduct C - Confirmation of Erection Sequence from Freyssinet	0		0%	0	23-Mar-15		05-Jan-15	-55	0	0%																	
ARDD0722	Viaduct C - Erection Sequence Analysis	20	23-Mar-15	0%	20	17-Apr-15	05-Jan-15	02-Feb-15	-55	0	0%																	
ARDD0723	Viaduct C - Target Geometry Analysis	20	20-Apr-15	0%	20	15-May-15	02-Feb-15	02-Mar-15	-55	0	0%																	
ARDD0724	Viaduct C - Segment Geometry Schedules	10	18-May-15	0%	10	29-May-15	02-Mar-15	16-Mar-15	-55	5	0%																	

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 4 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>09-Mar-15</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>31-Mar-15</td> <td></td> <td>WY</td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
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												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15								
PR66018-1	Dismantle Tower Crane @ E9	12	21-Mar-15	0%	12	08-Apr-15	14-Apr-18	30-Apr-18	851	851	0%																									
PR66019	Erect & Commission Tower Crane @ E10	12	25-Apr-15	0%	12	09-May-15	11-May-15	28-May-15	13	18	0%																									
PR66019-1	Dismantle Tower Crane @ E10	12	21-Mar-15	0%	12	08-Apr-15	14-Apr-18	30-Apr-18	851	851	0%																									
PR66020	Erect & Commission Tower Crane @ E11	12	16-May-15	0%	12	02-Jun-15	17-Feb-15	06-Mar-15	-65	61	0%																									
PR66020-1	Dismantle Tower Crane @ E11	12	21-Mar-15	0%	12	08-Apr-15	14-Apr-18	30-Apr-18	851	851	0%																									
PR66021	Erect & Commission Tower Crane @ E12A	12	02-Jun-15	0%	12	19-Jun-15	08-Sep-15	24-Sep-15	73	110	0%																									
PR66021-1	Dismantle Tower Crane @ E12A	12	21-Mar-15	0%	12	08-Apr-15	14-Apr-18	30-Apr-18	851	851	0%																									
PR66022	Erect & Commission Tower Crane @ E12B	12	02-Jun-15	0%	12	19-Jun-15	06-Aug-15	22-Aug-15	47	91	0%																									
PR66022-1	Dismantle Tower Crane @ E12B	12	21-Mar-15	0%	12	08-Apr-15	14-Apr-18	30-Apr-18	851	851	0%																									
PR66023-1	Dismantle Tower Crane @ E13-Sth	12	21-Mar-15	0%	12	08-Apr-15	14-Apr-18	30-Apr-18	851	851	0%																									
PR66024-1	Dismantle Tower Crane @ E13-Nth	12	21-Mar-15	0%	12	08-Apr-15	14-Apr-18	30-Apr-18	851	851	0%																									

Equipment Platforms for Tower Cranes

PR66026	Inst.Temp.Eqpt.Platform (piles & deck) @ E4	24	21-Mar-15	0%	24	24-Apr-15	18-Dec-14	19-Jan-15	-74	0	0%																									
PR66027	Inst.Temp.Eqpt.Platform (piles & deck) @ E5	24	08-Apr-15	0%	24	09-May-15	06-May-15	08-Jun-15	21	0	0%																									
PR66028	Inst.Temp.Eqpt.Platform (piles & deck) @ E6	24	17-Apr-15	0%	24	19-May-15	11-Jul-15	12-Aug-15	60	0	0%																									
PR66030	Inst.Temp.Eqpt.Platform (piles & deck) @ E8	24	27-Mar-15	0%	24	02-May-15	09-Jul-15	08-Aug-15	71	0	0%																									
PR66031	Inst.Temp.Eqpt.Platform (piles & deck) @ E9	24	21-Mar-15	0%	24	24-Apr-15	22-Dec-14	22-Jan-15	-70	0	0%																									
PR66032	Inst.Temp.Eqpt.Platform (piles & deck) @ E10	24	21-Mar-15	0%	24	24-Apr-15	09-Apr-15	11-May-15	13	0	0%																									
PR66033	Inst.Temp.Eqpt.Platform (piles & deck) @ E11	24	14-Apr-15	0%	24	16-May-15	20-Jan-15	17-Feb-15	-65	0	0%																									
PR66034	Re-arrange temp.platform @ E12	24	30-Apr-15	0%	24	01-Jun-15	07-Jul-15	06-Aug-15	47	0	0%																									

Deck Segment Installation Equipment

Launching Gantry 1

PR67040	Launching Gantry Design	130	05-Feb-14 A	100%	0	23-Feb-15 A					100%																									
PR67041	Launching Gantry 1 Fabrication	130	10-Mar-14 A	100%	0	23-Feb-15 A					100%																									
PR67042	Launching Gantry 1 Delivery	24	25-Aug-14 A	100%	0	26-Feb-15 A					100%																									

Launching Gantry 2

PR67043	Launching Gantry 2 Fabrication	142	16-Jun-14 A	78.17%	31	30-Apr-15	27-Nov-14	05-Jan-15	-92	0	60%																									
PR67044	Launching Gantry 2 Delivery	12	02-May-15	0%	12	15-May-15	06-Jan-15	19-Jan-15	-92	0	0%																									

Lifting Frames

Lifting Frames 1 & 2

PR68011	Lifting Frame 1&2 Design	86	02-Jun-14 A	100%	0	16-Mar-15 A					100%																									
PR68012	Lifting Frame 1&2 Approval	24	28-Feb-15 A	75%	6	28-Mar-15	29-Dec-14	06-Jan-15	-68	0	80%																									
PR68013	Lifting Frame 1&2 Fabrication	24	30-Mar-15	0%	24	30-Apr-15	06-Jan-15	03-Feb-15	-68	0	0%																									
PR68014	Lifting Frame 1&2 Delivery	12	02-May-15	0%	12	15-May-15	03-Feb-15	17-Feb-15	-68	11	0%																									

Lifting Frames 3 & 4

PR68015	Lifting Frame 3&4 Design	70	02-Jun-14 A	100%	0	16-Mar-15 A					100%																									
PR68016	Lifting Frame 3&4 Approval	24	28-Feb-15 A	70.83%	7	28-Mar-15	05-Feb-15	13-Feb-15	-35	0	80%																									
PR68017	Lifting Frame 3&4 Fabrication	24	30-Mar-15	0%	24	30-Apr-15	13-Feb-15	17-Mar-15	-35	0	0%																									
PR68018	Lifting Frame 3&4 Delivery	12	02-May-15	0%	12	15-May-15	17-Mar-15	31-Mar-15	-35	24	0%																									

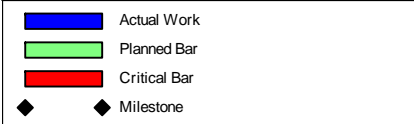
Lifting Frames 5 & 6

PR68019	Lifting Frame 5&6 Design	70	22-Dec-14 A	51.43%	34	05-May-15	08-Jun-15	18-Jul-15	61	0	15%																									
PR68020	Lifting Frame 5&6 Approval	60	26-Mar-15	0%	60	10-Jun-15	12-Jun-15	22-Aug-15	61	4	0%																									
PR68021	Lifting Frame 5&6 Fabrication	85	30-Mar-15	0%	85	15-Jul-15	11-Jun-15	19-Sep-15	57	0	0%																									

Unloading Frames

Type 1 (at B6 and D6)

PR69100	Unloading Frame Type 1 Design	50	05-May-14 A	86%	7	28-Mar-15	10-Jan-15	17-Jan-15	-57	0	40%																									
PR69110	Unloading Frame Type 1 Fabrication	80	16-Mar-15 A	31.25%	55	30-May-15	06-Jan-18	14-Mar-18	829	0	0%																									
PR69120	Unloading Frame Type 1 Delivery	24	01-Jun-15	0%	24	29-Jun-15	15-Mar-18	16-Apr-18	829	24	0%																									

	Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 6 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1"> <tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr> <tr><td>09-Mar-15</td><td></td><td>DB</td><td></td></tr> <tr><td>31-Mar-15</td><td></td><td>WY</td><td></td></tr> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
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												March					April					May					June																								
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15																							
Type 2 (at Bridge E1)																																																			
PR69170	Unloading Frame Type 2 Design	50	21-Mar-15	0%	50	23-May-15	10-Jan-15	12-Mar-15	-57	0	0%																																								
PR69180	Unloading Frame Type 2 Fabrication	80	30-Apr-15	0%	80	05-Aug-15	07-Dec-17	16-Mar-18	776	0	0%																																								
Type 4 (at HKBCF)																																																			
PR69250	Unloading Frame Type 4 Design	50	21-Mar-15	0%	50	23-May-15	10-Jan-15	12-Mar-15	-57	0	0%																																								
PR69260	Unloading Frame Type 4 (BCF) Fabrication	80	30-Apr-15	0%	80	05-Aug-15	14-Feb-15	28-May-15	-57	0	0%																																								
Deck Segments & Precast Pile Cap Shells																																																			
Preliminaries																																																			
MBBE0018	Precast Segment Mould Design (Viaduct E5, E6, E7 & E8)	42	05-Jul-14 A	59.52%	17	14-Apr-15	25-Mar-15	18-Apr-15	4	903	60%																																								
MBBE0020	Precast Segment Mould Fabrication & Assembly (Viaduct E5, E6, E7 & E8)	52	21-Mar-15	0%	52	27-May-15	25-Mar-15	01-Jun-15	4	67	0%																																								
MBBE0024	Precast Segment Mould Design (Viaduct E2)	42	28-Jun-14 A	59.52%	17	14-Apr-15	14-Jan-15	02-Feb-15	-54	903	60%																																								
MBBE0026	Precast Segment Mould Fabrication & Assembly (Viaduct E2)	52	21-Mar-15	0%	52	27-May-15	14-Jan-15	18-Mar-15	-54	0	0%																																								
MBBE0030	Precast Segment Mould Design (Viaduct E1)	42	30-Jul-14 A	59.52%	17	14-Apr-15	11-Dec-14	02-Feb-15	-80	878	40%																																								
MBBE0032	Precast Segment Mould Fabrication & Assembly (Viaduct E1)	52	21-Mar-15	0%	52	27-May-15	11-Dec-14	13-Feb-15	-80	0	0%																																								
MBBE0036	Precast Segment Mould Design (Viaduct D)	42	21-Mar-15	0%	42	14-May-15	13-Dec-14	03-Feb-15	-78	0	0%																																								
MBBE0038	Precast Segment Mould Fabrication & Assembly (Viaduct D)	52	02-Apr-15	0%	52	08-Jun-15	27-Dec-14	02-Mar-15	-78	0	0%																																								
MBBE0042	Precast Segment Mould Design (Viaduct C)	42	21-Mar-15	0%	42	14-May-15	06-Feb-15	31-Mar-15	-34	0	0%																																								
MBBE0044	Precast Segment Mould Fabrication & Assembly (Viaduct C)	52	02-Apr-15	0%	52	08-Jun-15	18-Feb-15	28-Apr-15	-34	42	0%																																								
MBBE0048	Precast Segment Mould Design (Viaduct A)	42	09-Apr-15	0%	42	29-May-15	17-Dec-15	06-Feb-16	209	0	0%																																								
MBBE0050	Precast Segment Mould Fabrication & Erection (Viaduct A)	52	21-Apr-15	0%	52	23-Jun-15	31-Dec-15	04-Mar-16	209	95	0%																																								
MBBE0054	Precast Segment Mould Design (Viaduct F1 to F5)	42	21-Mar-15	0%	42	14-May-15	15-Jun-15	04-Aug-15	67	0	0%																																								
MBBE0056	Precast Segment Mould Fabrication & Erection (Viaduct F1 to F5)	52	02-Apr-15	0%	52	08-Jun-15	27-Jun-15	27-Aug-15	67	58	0%																																								
Viaduct B																																																			
Precast Deck Segments																																																			
MBBE0130-1	B: Progressive Pier Head Segment Manufacture & Delivery remaining segments	54	02-Dec-14 A	0%	157	30-Sep-15	07-Mar-15	04-May-15	-12	875	16.7%																																								
MBBE130	B: Commence Match Cast Segment Delivery	0	21-Mar-15	0%	0		30-Apr-18		920	920	0%																																								
MBBE130-1	B: Progressive Match Cast Segment Manufacture & Delivery remaining segments (334 Nr)	96	24-Oct-14 A	10.42%	86	08-Jul-15	19-Nov-14	05-Mar-15	-99	0	10.48%																																								
Viaduct E																																																			
Precast Pile Caps																																																			
Viaduct E1																																																			
PP7330	Production of Viaduct E1 Marine Precast Pile Cap Shells	80	17-Oct-14 A	50%	40	12-May-15	10-Mar-18	30-Apr-18	880	880	50%																																								
Viaduct E2																																																			
PP7260	Production of Viaduct E2 Marine Precast Pile Cap Shells	80	27-Oct-14 A	33.75%	53	28-May-15	29-Jan-15	09-Apr-15	-41	0	33%																																								
Viaduct E5, E6, E7 & E8																																																			
MBE0120-5	E5-6-7-8: Commence Pile Cap Shell Casting on Approval of DDA	0	06-Jun-15	0%	0		15-Dec-14		-137	0	0%																																								
PP7120	Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells	60	06-Jun-15	0%	60	17-Aug-15	15-Dec-14	02-Mar-15	-137	0	0%																																								
PP7190	Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells	60	06-Jun-15	0%	60	17-Aug-15	15-Dec-14	02-Mar-15	-137	0	0%																																								
Precast Deck Segments																																																			
MBE00014	Viaduct E2 - Pier Head Segment Casting	0	18-Apr-15	0%	0		06-Feb-15		-54	0	0%																																								
Viaduct E1																																																			
MBE0120-3	E1: Commence Segment Casting on Approval of DDA	0	18-Apr-15	0%	0		07-Jan-15		-80	0	0%																																								
MBE0130-3	E1: Commence Segment Delivery	0	26-May-15	0%	0		04-Mar-15		-65	15	0%																																								
MBE0130-5	E1: Progressive Segment Manufacture & Delivery remaining segments (189 Nr)	120	12-Jun-15	0%	120	04-Nov-15	04-Mar-15	31-Jul-15	-80	0	0%																																								
Viaduct E2																																																			
MBE0120-2	E2: Commence Segment Casting on Approval of DDA	0	18-Apr-15	0%	0		06-Feb-15		-54	0	0%																																								
MBE0130-2	E2: Commence Segment Delivery	0	02-Jun-15	0%	0		24-Mar-15		-54	0	0%																																								
MBE0130-7	E2: Progressive Segment Manufacture & Delivery remaining segments (358 Nr)	120	02-Jun-15	0%	120	24-Oct-15	24-Mar-15	19-Aug-15	-54	35	0%																																								

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

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												March					April					May					June				
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15			
Precast Pile Caps																															
MBDC0130-8	D: Progressive Pile Cap Shell Manufacture & Delivery remaining shells	90	07-Dec-14 A	42.22%	52	27-May-15	09-Feb-15	17-Apr-15	-32	868	42.8%																				
Precast Deck Segments																															
MBDE0120	D: Commence Segment Casting on Approval of DDA	0	30-Apr-15	0%	0		21-Jan-15		-78	0	0%																				
MBDE0130-1	D: Commence Pier Head Segment Delivery	0	06-Jun-15	0%	0		03-Jul-15		21	0	0%																				
MBDE0130-5	D: Progressive Pier Head Segment Manufacture & Delivery	107	06-Jun-15	0%	107	13-Oct-15	03-Jul-15	07-Nov-15	21	23	0%																				
Viaduct C																															
Precast Pile Caps																															
MBCC0120	C: Commence Pile Cap Shell Casting on Approval of DDA	0	21-Mar-15	0%	0		17-Jan-15		-51	0	0%																				
MBCC0130	C: Commence Pile Cap Shell Delivery	0	22-May-15	0%	0		18-Mar-15		-51	0	0%																				
MBCC0130-1	C: Progressive Pile Cap Shell Manufacture & Delivery remaining shells	80	22-May-15	0%	80	26-Aug-15	18-Mar-15	27-Jun-15	-51	0	0%																				
PP7490	Production of initial Viaduct C Marine Precast Pile Cap Shells	38	21-Mar-15	0%	38	09-May-15	21-Jan-15	10-Mar-15	-48	0	0%																				
Viaduct A																															
Precast Pile Caps																															
MBAC0120	A: Commence Pile Cap Shell Casting on Approval of DDA	0	21-Mar-15	0%	0		02-Sep-15		133	0	0%																				
MBAC0130	A: Commence Pile Cap Shell Delivery	0	22-May-15	0%	0		11-Dec-15		168	30	0%																				
PP7570	Production of initial Viaduct A Marine Precast Pile Cap Shells	40	11-May-15	0%	40	27-Jun-15	02-Sep-15	20-Oct-15	95	0	0%																				
Parapets																															
MBEE0090	Approval of DDA to start Precast Parapets/Barriers Casting	0	01-Apr-15	0%	0		16-Oct-15		160	31	0%																				
PP6010	Procure Sub-Contractor for Precast Parapets/Barriers	40	21-Mar-15	0%	40	12-May-15	28-Aug-15	15-Oct-15	129	0	0%																				
PP6011	Precast Parapets/Barriers Detail Design & Procure Moulds	120	13-May-15	0%	120	05-Oct-15	16-Oct-15	11-Mar-16	129	0	0%																				
PP6011-02	Viaduct B - Precast Parapets/Barriers Production & Delivery	120	13-May-15	0%	120	05-Oct-15	12-Feb-16	09-Jul-16	224	62	0%																				
PP6011-03	Viaduct C - Precast Parapets/Barriers Production & Delivery	120	13-May-15	0%	120	05-Oct-15	16-Dec-15	17-May-16	180	0	0%																				
PP6011-04	Viaduct D - Precast Parapets/Barriers Production & Delivery	120	13-May-15	0%	120	05-Oct-15	10-Dec-15	10-May-16	175	0	0%																				
PP6011-05	Viaduct E - Precast Parapets/Barriers Production & Delivery	180	13-May-15	0%	180	15-Dec-15	16-Oct-15	27-May-16	129	173	0%																				
PP6011-06	Viaduct F - Precast Parapets/Barriers Production & Delivery	120	13-May-15	0%	120	05-Oct-15	28-Jan-16	27-Jun-16	214	275	0%																				
Materials																															
PP7010	Procure Sub-contractor for Signs & Street Furniture	90	21-Mar-15	0%	90	13-Jul-15	24-Jul-15	09-Nov-15	99	0	0%																				
H-Piles																															
PP7550	Procurement of Viaduct A Socketted H-Piles	70	21-Mar-15	0%	70	17-Jun-15	29-Jul-15	20-Oct-15	103	0	0%																				
Reinforcement																															
Bored Piles																															
PP7100	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E5 & E6 Piles	185	07-Jul-14 A	40.54%	110	05-Aug-15	16-Oct-14	28-Feb-15	-128	810	40%																				
PP7170	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E7 & E8 Piles	185	07-Jul-14 A	40.54%	110	05-Aug-15	15-Dec-14	05-May-15	-77	810	40%																				
PP7240	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E2 Piles	106	15-Apr-14 A	50.94%	52	27-May-15	06-Dec-14	09-Feb-15	-84	133	50%																				
PP7380	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct D Piles	25	28-Jul-14 A	68%	8	30-Mar-15	08-Jun-15	16-Jun-15	61	6	68%																				
PP7460	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct C Piles	35	18-Aug-14 A	28.57%	25	23-Apr-15	10-Feb-15	14-Mar-15	-31	0	28%																				
PP7540	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct A Piles	21	12-Aug-14 A	14.29%	18	15-Apr-15	04-Feb-15	28-Feb-15	-35	6	14%																				
PP7620	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct F1 & F3 Piles	61	21-Mar-15	0%	61	06-Jun-15	17-Dec-14	04-Mar-15	-75	0	0%																				
PP7690	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct F2, F4 & F5 Piles	73	21-Mar-15	0%	73	22-Jun-15	14-Jan-15	16-Apr-15	-54	0	0%																				
Marine Pile Caps																															
PP7110	Rebar - Cut, Bend & Fabricate for Viaduct E5 & E6 Pile Caps	245	21-Mar-15	0%	245	16-Jan-16	16-Oct-14	14-Aug-15	-128	0	0%																				
PP7180	Rebar - Cut, Bend & Fabricate for Viaduct E7 & E8 Pile Caps	102	21-Mar-15	0%	102	27-Jul-15	15-Dec-14	24-Apr-15	-77	0	0%																				
PP7250	Rebar - Cut, Bend & Fabricate for Viaduct E2 Pile Caps	185	21-Mar-15	0%	185	04-Nov-15	06-Dec-14	27-Jul-15	-84	0	0%																				
PP7320	Rebar - Cut, Bend & Fabricate for Viaduct E1 Pile Caps	67	11-Dec-14 A	7.46%	62	08-Jun-15	26-Nov-14	09-Feb-15	-93	0	7%																				
PP7400	Rebar - Cut, Bend & Fabricate for Viaduct D Marine Pile Caps	47	18-Dec-14 A	6.38%	44	16-May-15	06-Mar-18	30-Apr-18	876	876	6%																				
PP7480	Rebar - Cut, Bend & Fabricate for Viaduct C Marine Pile Caps	42	10-Apr-15	0%	42	30-May-15	08-Mar-18	30-Apr-18	865	865	0%																				
PP7560	Rebar - Cut, Bend & Fabricate for Viaduct A Marine Pile Caps	36	23-Apr-15	0%	36	05-Jun-15	07-Sep-15	20-Oct-15	113	76	0%																				

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												March				April				May				June		
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Marine Piers - Viaduct E																										
PP7270	Rebar - Cut, Bend & Fabricate for Viaduct E2 Piers	180	23-Apr-15	0%	180	26-Nov-15	07-Jan-15	18-Aug-15	-84	31	0%															
PP7340	Rebar - Cut, Bend & Fabricate for Viaduct E1 Piers	31	22-Feb-15 A	40%	19	08-Jun-15	19-Jan-15	09-Feb-15	-93	1	0%															
Land Pile Caps																										
PP7630	Rebar - Cut, Bend & Fabricate for Viaduct F1 & F3 Pile Caps	47	08-Jun-15	0%	47	03-Aug-15	08-Aug-15	03-Oct-15	51	0	0%															
PP7752	Rebar - Cut, Bend & Fabricate for Viaduct B Land Pile Caps	26	16-Jul-14 A	26.92%	19	16-Apr-15	09-Apr-18	30-Apr-18	901	901	26%															
PP7754	Rebar - Cut, Bend & Fabricate for Viaduct D Land Pile Caps	29	21-Mar-15	0%	29	28-Apr-15	08-Jun-15	13-Jul-15	61	0	0%															
PP7756	Rebar - Cut, Bend & Fabricate for Viaduct C Land Pile Caps	34	20-Apr-15	0%	34	30-May-15	10-Mar-15	23-Apr-15	-31	0	0%															
PP7758	Rebar - Cut, Bend & Fabricate for Viaduct A Land Pile Caps	12	23-Apr-15	0%	12	07-May-15	28-Feb-15	14-Mar-15	-41	0	0%															
Land / Marine Piers - Viaduct A, B, C, D & F																										
PP7060	Bending of Rebar for Viaduct B Piers	64	11-Aug-14 A	20.31%	51	26-May-15	26-Feb-18	30-Apr-18	869	869	20%															
PP7420	Bending of Rebar for Viaduct D Piers	71	23-Apr-15	0%	71	18-Jul-15	08-Jul-15	29-Sep-15	61	75	0%															
PP7500	Bending of Rebar for Viaduct C Piers	78	01-Jun-15	0%	78	01-Sep-15	13-Aug-15	14-Nov-15	61	0	0%															
PP7580	Bending of Rebar for Viaduct A Piers	23	08-May-15	0%	23	04-Jun-15	14-Mar-15	15-Apr-15	-41	0	0%															
In-Situ Formworks / Falseworks																										
PP7070	On-Site Preparation & Assembly of Pier Formwork for Viaduct B Piers	70	03-Sep-14 A	20%	56	01-Jun-15	17-Feb-15	30-Apr-15	-25	24	20%															
PP7140	On-Site Preparation & Assembly of Pier Formwork for Viaduct E5 & E6 Piers	90	30-Apr-15	0%	90	17-Aug-15	29-Nov-14	21-Mar-15	-120	22	0%															
PP7280	On-Site Preparation & Assembly of Pier Formwork for Viaduct E2 Piers	80	21-Mar-15	0%	80	30-Jun-15	01-Nov-14	06-Feb-15	-114	0	0%															
PP7350	On-Site Preparation & Assembly of Pier Formwork for Viaduct E1 Piers	60	21-Mar-15	0%	60	05-Jun-15	16-Dec-14	02-Mar-15	-76	5	0%															
PP7430	On-Site Preparation & Assembly of Pier Formwork for Viaduct D Piers	80	30-Apr-15	0%	80	05-Aug-15	18-Apr-15	24-Jul-15	-10	0	0%															
PP7510	On-Site Preparation & Assembly of Pier Formwork for Viaduct C Piers	80	30-Apr-15	0%	80	05-Aug-15	10-Jun-15	12-Sep-15	33	0	0%															
PP7710	On-Site Preparation & Assembly of Pier Formwork for Viaduct F2, F4 & F5 Pile Caps	60	30-Apr-15	0%	60	13-Jul-15	18-Apr-15	30-Jun-15	-10	0	0%															
PPPF02	Design & Fabrication of Falsework / Formwork & Delivery	120	20-Feb-14 A	75%	30	29-Apr-15	25-Oct-14	29-Nov-14	-120	0	75%															
Bearings																										
Viaduct A																										
PPBRA1	Preliminary Design of Bearings - Viaduct A	50	28-Apr-15	0%	50	27-Jun-15	27-Oct-15	23-Dec-15	149	0	0%															
Viaduct C																										
PPBRC1	Preliminary Design of Bearings - Viaduct C	50	22-Dec-14 A	40%	30	29-Apr-15	16-Dec-14	22-Jan-15	-76	0	40%															
PPBRC2	Confirmation of bearing assumption - Viaduct C	0		0%	0	29-Apr-15		22-Jan-15	-76	0	0%															
PPBRC3	Bearing design and submission - Viaduct C	12	30-Apr-15	0%	12	14-May-15	23-Jan-15	05-Feb-15	-76	0	0%															
PPBRC4	Design check by ICE - Viaduct C	24	15-May-15	0%	24	12-Jun-15	06-Feb-15	09-Mar-15	-76	0	0%															
PPBRC5	SO review & comment on design submission - Viaduct C	36	13-Jun-15	0%	36	27-Jul-15	10-Mar-15	24-Apr-15	-76	0	0%															
PPBRC7	Manufacture of Bearing - Viaduct C	54	13-Jun-15	0%	54	17-Aug-15	10-Mar-15	16-May-15	-76	0	0%															
Viaduct D																										
PPBRD4	Design check by ICE - Viaduct D	24	20-Dec-14 A	20.83%	19	16-Apr-15	31-Jan-15	25-Feb-15	-39	0	20%															
PPBRD5	SO review & comment on design submission - Viaduct D	36	17-Apr-15	0%	36	30-May-15	26-Feb-15	13-Apr-15	-39	0	0%															
PPBRD6	Bearing Design Amendment & re-issue - Viaduct D	12	01-Jun-15	0%	12	13-Jun-15	21-Apr-15	05-May-15	-33	6	0%															
PPBRD7	Manufacture of Bearing - Viaduct D	54	17-Apr-15	0%	54	22-Jun-15	26-Feb-15	05-May-15	-39	0	0%															
Viaduct E																										
PPBRE2	Confirmation of bearing assumption - Viaduct E (E1, E2, E5, E6, E7 & E8)	0		0%	0	21-Mar-15		30-Apr-18	920	920	0%															
PPBRE3	Bearing design and submission - Viaduct E (E1, E2, E5, E6, E7 & E8)	12	06-Jan-14 A	66.67%	4	25-Mar-15	26-Apr-18	30-Apr-18	916	916	65%															
PPBRE4	Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	06-Jun-14 A	16.67%	20	17-Apr-15	07-Apr-18	30-Apr-18	900	900	16%															
PPBRE5	SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E7 & E8)	36	10-Oct-14 A	5.56%	34	05-May-15	03-Mar-18	16-Apr-18	874	0	5%															
PPBRE6	Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E8)	12	06-May-15	0%	12	19-May-15	17-Apr-18	30-Apr-18	874	0	0%															
PPBRE7	Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	54	02-Jun-14 A	5.56%	51	26-May-15	26-Feb-18	30-Apr-18	869	869	5%															
PPBRE8	Testing Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	30-Jun-14 A	4.17%	23	19-May-15	03-Apr-18	30-Apr-18	874	874	5%															
PPBRE9	Bearing Delivery - Viaduct E (E1, E2, E5, E6, E7 & E8)	48	18-Oct-14 A	4.17%	46	19-May-15	09-Dec-14	03-Feb-15	-82	0	5%															
Bridge E1																										

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWP-RE-M22 Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 9 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>09-Mar-15</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>31-Mar-15</td> <td></td> <td>WY</td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
Date	Revision	Checked	Approved													
09-Mar-15		DB														
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Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015																			
												March					April					May					June				
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15			
Pier A4 (A2b)																															
Foundation Works																															
GFXX127	A4 (A2b) - Inst.Temp.Working Platform	12	26-Feb-15 A	100%	0	20-Mar-15 A					100%																				
GFXX128	A4 (A2b) - Pre-drilling (2 nos)	13	21-Mar-15	0%	13	09-Apr-15	17-Jun-15	03-Jul-15	69	0	0%																				
GFXX128-2	A4 (A2b) - Confirm Rockhead Levels	8	10-Apr-15	0%	8	18-Apr-15	04-Jul-15	13-Jul-15	69	28	0%																				
GFXX129	A4 (A2b) - Bored Piles (2.20m dia. x 2 nos)	90	23-May-15	0%	90	08-Sep-15	14-Jul-15	29-Oct-15	41	0	0%																				
Pier A5 (A2a)																															
Foundation Works																															
GFXX122	A5 (A2a) - Inst.Temp.Working Platform	13	06-Mar-15 A	27%	9	01-Apr-15	22-Jun-15	03-Jul-15	73	0	50%																				
GFXX123	A5 (A2a) - Pre-drilling (2 nos)	12	01-Apr-15	0%	12	20-Apr-15	04-Jul-15	17-Jul-15	73	0	0%																				
GFXX123-2	A5 (A2a) - Confirm Rockhead Levels	8	20-Apr-15	0%	8	29-Apr-15	18-Jul-15	27-Jul-15	73	32	0%																				
GFXX124	A5 (A2a) - Bored Piles (2.20m dia. x 2 nos)	90	08-Jun-15	0%	90	22-Sep-15	28-Jul-15	12-Nov-15	41	0	0%																				
Pier A6 (A1f)																															
Foundation Works																															
GFXX118	A6 (A1f) - Pre-drilling (3 nos)	12	03-Mar-15 A	100%	0	11-Mar-15 A					100%																				
GFXX118-2	A6 (A1f) - Confirm Rockhead Levels	8	21-Mar-15	0%	8	30-Mar-15	06-Jul-15	14-Jul-15	83	41	0%																				
GFXX119	A6 (A1f) - Bored Piles (1.80m dia. x 3 nos)	90	23-May-15	0%	90	08-Sep-15	15-Jul-15	30-Oct-15	42	0	0%																				
Bridge A1																															
Pier A7 (A1e)																															
Foundation Works																															
GFXX113	A7 (A1e) - Pre-drilling (2 nos)	12	12-Feb-15 A	100%	0	25-Feb-15 A					100%																				
GFXX113-2	A7 (A1e) - Confirm Rockhead Levels	8	26-Feb-15 A	100%	0	06-Mar-15 A					100%																				
GFXX114	A7 (A1e) - Bored Piles (2.20m dia. x 2 nos)	90	26-Feb-15 A	22.22%	70	17-Jun-15	19-Sep-15	12-Dec-15	148	0	20%																				
GFXX115	A7 (A1e) - Sonic & Interface Coring	12	18-Jun-15	0%	12	03-Jul-15	14-Dec-15	29-Dec-15	148	0	0%																				
Pier A8 (A1d)																															
Preliminary Works for Land Piling																															
GFXX281	A8 (A1d) - Mobilise & Set up grouting equipment	24	12-Mar-15 A	100%	0	13-Mar-15 A					100%																				
GFXX281-1	A8 (A1d) - Pre-grouting Works	24	13-Mar-15 A	50%	12	08-Apr-15	17-Apr-18	30-Apr-18	908	0	50%																				
PA080020	A8 (A1d) - Erect MTR protective fence / Remove existing fence	12	26-Feb-15 A	100%	0	10-Mar-15 A					100%																				
PA080050	A8 (A1d) - Complete Civil Preparation Works for piling to commence	0		0%	0	08-Apr-15		30-Apr-18	851	851	0%																				
Socketted H-Pile installation																															
GFXX297-1	A8 (A1d) - Confirm Rockhead Levels	8	21-Mar-15	0%	8	30-Mar-15	10-Jul-15	18-Jul-15	87	87	0%																				
Pier A9 (A1c)																															
Preliminary Works for Land Piling																															
GFXX281-2	A9 (A1c) - Pre-grouting Works	24	21-Mar-15 A	0%	24	22-Apr-15	29-Mar-18	30-Apr-18	896	0	0%																				
PA090030	A09 (A1c) - Erect MTR protective fence	12	16-Mar-15 A	100%	0	19-Mar-15 A					100%																				
PA090050	A9 (A1c) - Set up piling platform	24	29-Jan-15 A	100%	0	04-Mar-15 A					100%																				
PA090060	A9 (A1c) - Complete civil preparation works for piling to commence	0		0%	0	22-Apr-15		30-Apr-18	840	840	0%																				
Socketted H-Pile installation																															
GFXX293	A9 (A1c) - Install SH Pile (11 no.)	120	30-May-15	0%	120	22-Oct-15	15-Sep-15	12-Feb-16	90	0	0%																				
Pier A10 (A1b)																															
Preliminary Works for Land Piling																															
GFXX281-3	A10 (A1b) - Pregroutings Works	24	21-Feb-15 A	100%	0	21-Feb-15 A					100%																				
PA100040	A10 (A1b) - Install Geo. Instru. & Baseline Monitoring	36	09-Feb-15 A	100%	0	21-Feb-15 A					100%																				
PA100050	A10 (A1b) - Set up piling platform	24	09-Feb-15 A	100%	0	21-Feb-15 A					100%																				
PA100060	A10 (A1b) - Complete civil preparation works for piling to commence	0		0%	0	21-Mar-15		30-Apr-18	863	863	0%																				
Socketted H-Pile installation																															
GFXX286-3	A10 (A1b) - Confirm Rockhead Levels	8	21-Mar-15	0%	8	30-Mar-15	21-Apr-18	30-Apr-18	912	912	0%																				

	Project ID: J3518DWPRe-M22	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 12 of 41 Pages) (Progress as of 21-Mar-15)	Date	Revision	Checked	Approved	DWG. No.: J3518/GCL/PGM/3MRP-M22
	Layout: J3518-DWP-3MRP Submission - M22_		09-Mar-15		DB		
	Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.		31-Mar-15		WY		

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015																			
												March					April					May					June				
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15			
GFX288	A10 (A1b) - Install SH Pile (8 no.)	120	11-Mar-15 A	15%	102	27-Jul-15	19-Jun-15	20-Oct-15	71	0	15%																				
Pier A11 (A1a) & Abutment A																															
Preliminary Works for Land Piling																															
GFX281-4	A11 (A1a) - Pregrouting Works	24	22-Feb-15 A	100%	0	22-Feb-15 A					100%																				
PA110050	A11 (A1a) - Set up piling platform	24	09-Feb-15 A	100%	0	27-Feb-15 A					100%																				
PA110060	A11 (A1a) - Completion of civil preparation works for piling to commence	0		0%	0	21-Mar-15		28-Apr-15	27	0	0%																				
Socketted H-Pile installation																															
GFX286-4	A11 (A1a) - Confirm Rockhead Levels	8	21-Mar-15	0%	8	30-Mar-15	09-Jun-15	17-Jun-15	62	41	0%																				
GFX287	A11 (A1a) - Install SH Pile (6 no.)	149	23-May-15	0%	149	19-Nov-15	18-Jun-15	14-Dec-15	21	0	0%																				
Viaduct B																															
Bridge B3																															
Pier B2 (B3e)																															
Pier Head Segments																															
SB3E0380	B2 (B3e) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	19-Feb-15 A	100%	0	28-Feb-15 A					100%																				
Pier B3 (B3d)																															
Pier Head Segments																															
SB3D0372	B3 (B3d) - Pier Head Segment Lift & Fix (1 seg)	2	25-Feb-15 A	100%	0	25-Feb-15 A					100%																				
SB3D0374	B3 (B3d) - Pier Head Segment Diaphragm - Rebar	13	09-Mar-15 A	100%	0	13-Mar-15 A					100%																				
SB3D0376	B3 (B3d) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	11-Mar-15 A	100%	0	13-Mar-15 A					100%																				
SB3D0378	B3 (B3d) - Pier Head Segment Diaphragm - Concreting	2	13-Mar-15 A	100%	0	13-Mar-15 A					100%																				
SB3D0380	B3 (B3d) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	14-Mar-15 A	100%	0	20-Mar-15 A					100%																				
Pier B4 (B3c)																															
Pier Works																															
SB3C0340	B4 (B3c) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	18-Feb-15 A	100%	0	02-Mar-15 A					100%																				
Pier Head Segments																															
SB3C0370	B4 (B3c) - Pier Head Segment - Temporary Platform	6	06-Mar-15 A	100%	0	10-Mar-15 A					100%																				
SB3C0372	B4 (B3c) - Pier Head Segment Lift & Fix (1 seg)	2	20-Mar-15 A	100%	0	20-Mar-15 A					100%																				
SB3C0374	B4 (B3c) - Pier Head Segment Diaphragm - Rebar	12	21-Mar-15	0%	12	08-Apr-15	02-Mar-15	16-Mar-15	-17	0	0%																				
SB3C0376	B4 (B3c) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	09-Apr-15	0%	8	18-Apr-15	16-Mar-15	25-Mar-15	-17	0	0%																				
SB3C0378	B4 (B3c) - Pier Head Segment Diaphragm - Concreting	2	20-Apr-15	0%	2	21-Apr-15	25-Mar-15	27-Mar-15	-17	0	0%																				
SB3C0380	B4 (B3c) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	22-Apr-15	0%	6	29-Apr-15	08-Apr-15	16-Apr-15	-11	0	0%																				
Pier B5 (B3b)																															
Pier Works																															
SB3B0340	B5 (B3b) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	13-Feb-15 A	100%	0	25-Feb-15 A					100%																				
Pier Head Segments																															
SB3B0370	B5 (B3b) - Pier Head Segment - Temporary Platform	6	02-Mar-15 A	100%	0	09-Mar-15 A					100%																				
SB3B0372	B5 (B3b) - Pier Head Segment Lift & Fix (1 seg)	2	18-Mar-15 A	100%	0	18-Mar-15 A					100%																				
SB3B0374	B5 (B3b) - Pier Head Segment Diaphragm - Rebar	12	21-Mar-15	0%	12	08-Apr-15	23-Mar-15	10-Apr-15	2	0	0%																				
SB3B0376	B5 (B3b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	09-Apr-15	0%	8	18-Apr-15	10-Apr-15	21-Apr-15	2	0	0%																				
SB3B0378	B5 (B3b) - Pier Head Segment Diaphragm - Concreting	2	20-Apr-15	0%	2	21-Apr-15	21-Apr-15	24-Apr-15	2	0	0%																				
SB3B0380	B5 (B3b) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	22-Apr-15	0%	6	29-Apr-15	02-May-15	09-May-15	8	0	0%																				
Pier B6 (B3a)																															
Pier Works																															
SB3A0310	B6 (B3a) - Type 4B-MJ Pier Head Rebarwork	5	23-Feb-15 A	100%	0	12-Mar-15 A					100%																				
SB3A0320	B6 (B3a) - Type 4B-MJ Pier Head Formwork & Prep for Concreting	5	13-Mar-15 A	50%	3	24-Mar-15	13-Feb-15	16-Feb-15	-28	0	70%																				
SB3A0330	B6 (B3a) - Type 4B-MJ Pier Head Concreting	1	24-Mar-15	0%	1	25-Mar-15	17-Feb-15	17-Feb-15	-28	0	0%																				
SB3A0340	B6 (B3a) - Type 4B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding	6	25-Mar-15	0%	6	01-Apr-15	18-Feb-15	27-Feb-15	-28	0	0%																				
SB3A0350	B6 (B3a) - Type 4B-Bearing Plinth	6	25-Mar-15	0%	6	01-Apr-15	18-Feb-15	27-Feb-15	-28	0	0%																				

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWP-Pr-M22 Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 13 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>09-Mar-15</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>31-Mar-15</td> <td></td> <td>WY</td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
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												March			April			May			June		
												23	02	09	16	23	30	06	13	20	27	04	11
Pier Head Segments																							
SB3A0370	B6 (B3a) - Pier Head Segment - Temporary Platform	6	01-Apr-15	0%	6	13-Apr-15	28-Feb-15	06-Mar-15	-28	0	0%	Gantt bar starting 13-Apr-15, ending 06-Mar-15											
SB3A0371	B6 (B3a) - Pier Head Segment bearings	2	13-Apr-15	0%	2	16-Apr-15	07-Mar-15	09-Mar-15	-28	0	0%	Gantt bar starting 16-Apr-15, ending 09-Mar-15											
SB3A0372	B6 (B3a) - Pier Head Segment Lift & Temp Support (2 seg)	7	16-Apr-15	0%	7	25-Apr-15	10-Mar-15	17-Mar-15	-28	0	0%	Gantt bar starting 25-Apr-15, ending 17-Mar-15											
Bridge B2																							
Pier B7 (B2f)																							
Pier Works																							
SB2F0242	B7 (B2f) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	17-Feb-15 A	100%	0	25-Feb-15 A					100%	Gantt bar starting 17-Feb-15, ending 25-Feb-15 (blue)											
SB2F0300	B7 (B2f) - Type 4B Pier Head Scaffolding	4	26-Feb-15 A	100%	0	10-Mar-15 A					100%	Gantt bar starting 26-Feb-15, ending 10-Mar-15 (blue)											
SB2F0310	B7 (B2f) - Type 4B Pier Head Rebarwork	5	11-Mar-15 A	100%	0	18-Mar-15 A					100%	Gantt bar starting 11-Mar-15, ending 18-Mar-15 (blue)											
SB2F0320	B7 (B2f) - Type 4B Pier Head Formwork & Prep for Concreting	4	20-Mar-15 A	60%	2	23-Mar-15	02-Jan-15	03-Jan-15	-64	0	60%	Gantt bar starting 20-Mar-15, ending 23-Mar-15 (red)											
SB2F0330	B7 (B2f) - Type 4B Pier Head Concreting	1	23-Mar-15	0%	1	24-Mar-15	05-Jan-15	05-Jan-15	-64	0	0%	Gantt bar starting 23-Mar-15, ending 24-Mar-15 (red)											
SB2F0340	B7 (B2f) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	24-Mar-15	0%	6	31-Mar-15	06-Jan-15	12-Jan-15	-64	0	0%	Gantt bar starting 24-Mar-15, ending 31-Mar-15 (red)											
Pier Head Segments																							
SB2F0370	B7 (B2f) - Pier Head Segment - Temporary Platform	6	31-Mar-15	0%	6	11-Apr-15	13-Jan-15	19-Jan-15	-64	0	0%	Gantt bar starting 31-Mar-15, ending 11-Apr-15 (red)											
SB2F0372	B7 (B2f) - Pier Head Segment Lift & Fix (1 seg)	2	11-Apr-15	0%	2	14-Apr-15	20-Jan-15	21-Jan-15	-64	0	0%	Gantt bar starting 11-Apr-15, ending 14-Apr-15 (red)											
SB2F0374	B7 (B2f) - Pier Head Segment Diaphragm - Rebar	12	14-Apr-15	0%	12	30-Apr-15	22-Jan-15	04-Feb-15	-64	0	0%	Gantt bar starting 14-Apr-15, ending 30-Apr-15 (red)											
SB2F0376	B7 (B2f) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	30-Apr-15	0%	8	11-May-15	05-Feb-15	13-Feb-15	-64	0	0%	Gantt bar starting 30-Apr-15, ending 11-May-15 (red)											
SB2F0378	B7 (B2f) - Pier Head Segment Diaphragm - Concreting	2	11-May-15	0%	2	14-May-15	14-Feb-15	16-Feb-15	-64	0	0%	Gantt bar starting 11-May-15, ending 14-May-15 (red)											
SB2F0380	B7 (B2f) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	14-May-15	0%	6	22-May-15	27-Feb-15	05-Mar-15	-58	0	0%	Gantt bar starting 14-May-15, ending 22-May-15 (red)											
Pier B8 (B2e)																							
Pier Works																							
SB2E0230	B8 (B2e) - Type 5B Pier Head Scaffolding	3	02-Mar-15 A	100%	0	06-Mar-15 A					100%	Gantt bar starting 02-Mar-15, ending 06-Mar-15 (blue)											
SB2E0240	B8 (B2e) - Type 5B Pier Head Rebarwork	4	07-Mar-15 A	100%	0	23-Mar-15 A					100%	Gantt bar starting 07-Mar-15, ending 23-Mar-15 (blue)											
SB2E0250	B8 (B2e) - Type 5B Pier Head Formwork & Prep for Concreting	4	17-Mar-15 A	0%	4	25-Mar-15	20-Jan-15	23-Jan-15	-49	0	0%	Gantt bar starting 17-Mar-15, ending 25-Mar-15 (red)											
SB2E0260	B8 (B2e) - Type 5B Pier Head Concreting	1	26-Mar-15	0%	1	26-Mar-15	24-Jan-15	24-Jan-15	-49	0	0%	Gantt bar starting 26-Mar-15, ending 26-Mar-15 (red)											
SB2E0270	B8 (B2e) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	27-Mar-15	0%	6	02-Apr-15	26-Jan-15	31-Jan-15	-49	0	0%	Gantt bar starting 27-Mar-15, ending 02-Apr-15 (red)											
SB2E0280	B8 (B2e) - Type 5B Pier Backfilling Works	4	31-Mar-15	0%	4	08-Apr-15	29-Jan-15	02-Feb-15	-49	0	0%	Gantt bar starting 31-Mar-15, ending 08-Apr-15 (red)											
Pier Head Segments																							
SB2E0370	B8 (B2e) - Pier Head Segment - Temporary Platform	6	09-Apr-15	0%	6	16-Apr-15	03-Feb-15	09-Feb-15	-49	18	0%	Gantt bar starting 09-Apr-15, ending 16-Apr-15 (red)											
SB2E0372	B8 (B2e) - Pier Head Segment Lift & Fix (1 seg)	2	11-May-15	0%	2	13-May-15	10-Feb-15	11-Feb-15	-67	0	0%	Gantt bar starting 11-May-15, ending 13-May-15 (red)											
SB2E0374	B8 (B2e) - Pier Head Segment Diaphragm - Rebar	12	14-May-15	0%	12	29-May-15	12-Feb-15	28-Feb-15	-67	0	0%	Gantt bar starting 14-May-15, ending 29-May-15 (red)											
SB2E0376	B8 (B2e) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	30-May-15	0%	8	10-Jun-15	02-Mar-15	10-Mar-15	-67	0	0%	Gantt bar starting 30-May-15, ending 10-Jun-15 (red)											
SB2E0378	B8 (B2e) - Pier Head Segment Diaphragm - Concreting	2	12-Jun-15	0%	2	13-Jun-15	11-Mar-15	12-Mar-15	-67	0	0%	Gantt bar starting 12-Jun-15, ending 13-Jun-15 (red)											
SB2E0380	B8 (B2e) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	15-Jun-15	0%	6	24-Jun-15	19-Mar-15	26-Mar-15	-61	0	0%	Gantt bar starting 15-Jun-15, ending 24-Jun-15 (red)											
Pier B9 (B2d)																							
Pier Works																							
SB2D0230	B9 (B2d) - Type 5B Pier Head Scaffolding	3	07-Mar-15 A	100%	0	21-Mar-15 A					100%	Gantt bar starting 07-Mar-15, ending 21-Mar-15 (blue)											
SB2D0240	B9 (B2d) - Type 5B Pier Head Rebarwork	4	21-Mar-15 A	0%	4	25-Mar-15	13-Feb-15	17-Feb-15	-28	0	0%	Gantt bar starting 21-Mar-15, ending 25-Mar-15 (red)											
SB2D0250	B9 (B2d) - Type 5B Pier Head Formwork & Prep for Concreting	4	26-Mar-15	0%	4	30-Mar-15	18-Feb-15	25-Feb-15	-28	0	0%	Gantt bar starting 26-Mar-15, ending 30-Mar-15 (red)											
SB2D0260	B9 (B2d) - Type 5B Pier Head Concreting	1	31-Mar-15	0%	1	31-Mar-15	26-Feb-15	26-Feb-15	-28	0	0%	Gantt bar starting 31-Mar-15, ending 31-Mar-15 (red)											
SB2D0270	B9 (B2d) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	01-Apr-15	0%	6	11-Apr-15	27-Feb-15	05-Mar-15	-28	0	0%	Gantt bar starting 01-Apr-15, ending 11-Apr-15 (red)											
SB2D0280	B9 (B2d) - Type 5B Pier Backfilling Works	4	09-Apr-15	0%	4	13-Apr-15	03-Mar-15	06-Mar-15	-28	0	0%	Gantt bar starting 09-Apr-15, ending 13-Apr-15 (red)											
Pier Head Segments																							
SB2D0370	B9 (B2d) - Pier Head Segment - Temporary Platform	6	14-Apr-15	0%	6	21-Apr-15	07-Mar-15	13-Mar-15	-28	14	0%	Gantt bar starting 14-Apr-15, ending 21-Apr-15 (red)											
SB2D0372	B9 (B2d) - Pier Head Segment Lift & Fix (1 seg)	2	11-May-15	0%	2	13-May-15	14-Mar-15	16-Mar-15	-42	0	0%	Gantt bar starting 11-May-15, ending 13-May-15 (red)											
SB2D0374	B9 (B2d) - Pier Head Segment Diaphragm - Rebar	12	14-May-15	0%	12	29-May-15	17-Mar-15	30-Mar-15	-42	0	0%	Gantt bar starting 14-May-15, ending 29-May-15 (red)											
SB2D0376	B9 (B2d) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	30-May-15	0%	8	10-Jun-15	31-Mar-15	13-Apr-15	-42	0	0%	Gantt bar starting 30-May-15, ending 10-Jun-15 (red)											

<ul style="list-style-type: none"> █ Actual Work █ Planned Bar █ Critical Bar ◆ Milestone 	Project ID: J3518DWPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 14 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1"> <tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr> <tr><td>09-Mar-15</td><td></td><td>DB</td><td></td></tr> <tr><td>31-Mar-15</td><td></td><td>WY</td><td></td></tr> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
Date	Revision	Checked	Approved													
09-Mar-15		DB														
31-Mar-15		WY														

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015																	
												March					April					May					June		
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	
SB2D0378	B9 (B2d) - Pier Head Segment Diaphragm - Concreting	2	12-Jun-15	0%	2	13-Jun-15	14-Apr-15	16-Apr-15	-42	0	0%																		
SB2D0380	B9 (B2d) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	15-Jun-15	0%	6	24-Jun-15	25-Apr-15	02-May-15	-36	0	0%																		
Pier B10 (B2c)																													
Pier Works																													
SB2C0170	B10 (B2c) - Type 5B Pier Formwork & Prep for Concreting (1st Lift)	2	18-Feb-15 A	100%	0	25-Feb-15 A					100%																		
SB2C0180	B10 (B2c) - Type 5B Pier Concreting (1st Lift)	1	26-Feb-15 A	100%	0	26-Feb-15 A					100%																		
SB2C0182	B10 (B2c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	27-Feb-15 A	100%	0	27-Feb-15 A					100%																		
SB2C0190	B10 (B2c) - Type 5B Pier Scaffolding (2nd Lift)	2	19-Mar-15 A	100%	0	21-Mar-15 A					100%																		
SB2C0200	B10 (B2c) - Type 5B Pier Rebarwork (2nd Lift)	3	21-Mar-15 A	20%	2	24-Mar-15	04-Mar-15	06-Mar-15	-14	0	20%																		
SB2C0210	B10 (B2c) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift)	3	24-Mar-15	0%	3	27-Mar-15	07-Mar-15	10-Mar-15	-14	0	0%																		
SB2C0220	B10 (B2c) - Type 5B Pier Concreting (2nd Lift)	1	27-Mar-15	0%	1	28-Mar-15	11-Mar-15	11-Mar-15	-14	0	0%																		
SB2C0222	B10 (B2c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	28-Mar-15	0%	2	31-Mar-15	12-Mar-15	13-Mar-15	-14	0	0%																		
SB2C0230	B10 (B2c) - Type 5B Pier Head Scaffolding	3	31-Mar-15	0%	3	08-Apr-15	14-Mar-15	17-Mar-15	-14	0	0%																		
SB2C0240	B10 (B2c) - Type 5B Pier Head Rebarwork	4	08-Apr-15	0%	4	13-Apr-15	18-Mar-15	21-Mar-15	-14	0	0%																		
SB2C0250	B10 (B2c) - Type 5B Pier Head Formwork & Prep for Concreting	4	13-Apr-15	0%	4	18-Apr-15	23-Mar-15	26-Mar-15	-14	0	0%																		
SB2C0260	B10 (B2c) - Type 5B Pier Head Concreting	1	18-Apr-15	0%	1	20-Apr-15	27-Mar-15	27-Mar-15	-14	0	0%																		
SB2C0270	B10 (B2c) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	20-Apr-15	0%	6	28-Apr-15	28-Mar-15	08-Apr-15	-14	0	0%																		
SB2C0280	B10 (B2c) - Type 5B Pier Backfilling Works	4	24-Apr-15	0%	4	29-Apr-15	01-Apr-15	09-Apr-15	-14	0	0%																		
Pier Head Segments																													
SB2C0370	B10 (B2c) - Pier Head Segment - Temporary Platform	6	29-Apr-15	0%	6	07-May-15	10-Apr-15	17-Apr-15	-14	3	0%																		
SB2C0372	B10 (B2c) - Pier Head Segment Lift & Fix (1 seg)	2	11-May-15	0%	2	13-May-15	18-Apr-15	20-Apr-15	-17	0	0%																		
SB2C0374	B10 (B2c) - Pier Head Segment Diaphragm - Rebar	12	14-May-15	0%	12	29-May-15	21-Apr-15	06-May-15	-17	0	0%																		
SB2C0376	B10 (B2c) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	30-May-15	0%	8	10-Jun-15	07-May-15	16-May-15	-17	0	0%																		
SB2C0378	B10 (B2c) - Pier Head Segment Diaphragm - Concreting	2	12-Jun-15	0%	2	13-Jun-15	18-May-15	19-May-15	-17	0	0%																		
SB2C0380	B10 (B2c) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	15-Jun-15	0%	6	24-Jun-15	29-May-15	05-Jun-15	-11	0	0%																		
Pier B11 (B2b)																													
Pier Works																													
SB2B0230	B11 (B2b) - Type 5B-B Pier Head Scaffolding	3	23-Feb-15 A	100%	0	25-Feb-15 A					100%																		
SB2B0240	B11 (B2b) - Type 5B-B Pier Head Rebarwork	4	07-Mar-15 A	100%	0	19-Mar-15 A					100%																		
SB2B0250	B11 (B2b) - Type 5B-B Pier Head Formwork & Prep for Concreting	5	20-Mar-15 A	10%	5	26-Mar-15	20-Apr-15	25-Apr-15	21	0	10%																		
SB2B0260	B11 (B2b) - Type 5B-B Pier Head Concreting	1	26-Mar-15	0%	1	27-Mar-15	27-Apr-15	27-Apr-15	21	0	0%																		
SB2B0270	B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	27-Mar-15	0%	6	08-Apr-15	28-Apr-15	05-May-15	21	0	0%																		
SB2B0280	B11 (B2b) - Type 5B-B Pier Backfilling Works	4	31-Mar-15	0%	4	09-Apr-15	02-May-15	06-May-15	21	0	0%																		
Pier Head Segments																													
SB2B0370	B11 (B2b) - Pier Head Segment - Temporary Platform	6	09-Apr-15	0%	6	17-Apr-15	07-May-15	14-May-15	21	0	0%																		
SB2B0372	B11 (B2b) - Pier Head Segment Lift & Fix (1 seg)	2	17-Apr-15	0%	2	20-Apr-15	15-May-15	16-May-15	21	0	0%																		
SB2B0374	B11 (B2b) - Pier Head Segment Diaphragm - Rebar	12	20-Apr-15	0%	12	06-May-15	18-May-15	02-Jun-15	21	0	0%																		
SB2B0376	B11 (B2b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	06-May-15	0%	8	16-May-15	04-Jun-15	15-Jun-15	21	0	0%																		
SB2B0378	B11 (B2b) - Pier Head Segment Diaphragm - Concreting	2	16-May-15	0%	2	19-May-15	16-Jun-15	18-Jun-15	21	0	0%																		
SB2B0380	B11 (B2b) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	19-May-15	0%	6	28-May-15	30-Jun-15	07-Jul-15	27	0	0%																		
Pier B12 (B2a)																													
Pier Works																													
SB2A0300	B12 (B2a) - Type 5B-MJ Pier Head Scaffolding (F/W from B6)	4	21-Mar-15	0%	4	25-Mar-15	28-May-15	01-Jun-15	48	0	0%																		
SB2A0310	B12 (B2a) - Type 5B-MJ Pier Head Rebarwork	5	26-Mar-15	0%	5	31-Mar-15	02-Jun-15	08-Jun-15	48	0	0%																		
SB2A0320	B12 (B2a) - Type 5B-MJ Pier Head Formwork & Prep for Concreting	5	01-Apr-15	0%	5	10-Apr-15	10-Jun-15	16-Jun-15	48	0	0%																		
SB2A0330	B12 (B2a) - Type 5B-MJ Pier Head Concreting	1	11-Apr-15	0%	1	11-Apr-15	18-Jun-15	18-Jun-15	48	0	0%																		
SB2A0340	B12 (B2a) - Type 5B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding	6	13-Apr-15	0%	6	20-Apr-15	19-Jun-15	29-Jun-15	48	0	0%																		
SB2A0360	B12 (B2a) - Type 5B-MJ Pier Backfilling Works	4	21-Apr-15	0%	4	25-Apr-15	30-Jun-15	04-Jul-15	48	0	0%																		

<ul style="list-style-type: none"> Actual Work Planned Bar Critical Bar Milestone 	Project ID: J3518DWPRe-M22 Layout: J3518-DWP-3MRP Submission - M22_ Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 15 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1" style="width: 100%;"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td>09-Mar-15</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>31-Mar-15</td> <td></td> <td>WY</td> <td></td> </tr> </tbody> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
Date	Revision	Checked	Approved													
09-Mar-15		DB														
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Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015															
												March				April				May				June			
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08
Pier C10 (C3b)																											
Foundation Works																											
GFXX418	C10 (C3b) - Bored Pile (2.20m dia. x 2 nos)	51	19-Jan-15 A	75%	13	09-Apr-15	29-Jun-15	14-Jul-15	78	0	75%																
GFXX421-2	C10 (C3b) - Sonic & Interface Coring Tests	12	06-Jun-15	0%	12	19-Jun-15	05-Aug-15	18-Aug-15	49	0	0%																
Pier C11 (C3a)																											
Foundation Works																											
GFXX416	C11 (C3a) - Bored Pile (2.00m dia. x 2 nos)	45	24-Jan-15 A	95%	2	24-Mar-15	30-Mar-17	01-Apr-17	602	91	95%																
GFXX421-3	C11 (C3a) - Sonic & Interface Coring Tests	12	12-Mar-15 A	30%	8	31-Mar-15	01-Sep-15	10-Sep-15	133	0	30%																
Bridge C2																											
Pier C12 (C2f)																											
Foundation Works																											
GFXX412	C12 (C2f) - Bored Pile (2.00m dia. x 2 nos)	66	21-Jan-15 A	71%	19	17-Apr-15	14-Sep-15	08-Oct-15	144	0	71%																
GFXX413	C12 (C2f) - Sonic & Interface Coring Tests	12	17-Apr-15	0%	12	02-May-15	24-Oct-15	06-Nov-15	156	12	0%																
GFXX422-4	C12 (C2f) - Selection of bored pile for Full Depth Coring	24	17-Apr-15	0%	24	16-May-15	09-Oct-15	06-Nov-15	144	0	0%																
GFXX422-8	C12 (C2f) - Bored Pile Full Depth Coring & Testing	24	16-May-15	0%	24	15-Jun-15	07-Nov-15	04-Dec-15	144	0	0%																
Pier C13 (C2e) Portal																											
Socketted H-Pile Installation																											
GFXX399-4	C13 (C2e) - Selction of pile for Loading Test	24	21-Mar-15	0%	24	22-Apr-15	22-Aug-15	18-Sep-15	124	0	0%																
GFXX399-6	C13 (C2e) - Loading Test for pre-bored H-pile	36	23-Apr-15	0%	36	05-Jun-15	19-Sep-15	03-Nov-15	124	0	0%																
Pile Cap Works																											
SC2ER090	C13B (C2e-R) - Pile cap Excavation / ELS	18	06-Jun-15	0%	18	04-Jul-15	04-Nov-15	24-Nov-15	111	0	0%																
Pier C14 (C2d)																											
Socketted H-Pile Installation																											
GFXX381-2	C14 (C2d) - Install SH Pile (12 nr)	60	07-Jan-15 A	100%	0	28-Feb-15 A					100%																
Pier C15 (C2c)																											
Socketted H-Pile Installation																											
GFXX381-3	C15 (C2c) - Install SH Pile (13 nr)	60	19-Jan-15 A	100%	0	21-Mar-15 A					100%																
Pier C16 (C2b)																											
Foundation Works																											
GFXX408	C16 (C2b) - Bored Pile (2.00m dia. x 2 nos)	52	13-May-15	0%	52	16-Jul-15	17-Aug-15	17-Oct-15	78	0	0%																
Bridge C1																											
Pier C17 (C2a)																											
Foundation Works																											
GFXX406	C17 (C2a) - Bored Pile (2.00m dia. x 2 nos)	52	09-Apr-15	0%	52	11-Jun-15	15-Jul-15	12-Sep-15	78	0	0%																
GFXX409-2	C17 (C2a) - Sonic & Interface Coring Tests	12	11-Jun-15	0%	12	26-Jun-15	10-Nov-15	23-Nov-15	124	0	0%																
Pier C18 (C3d) Portal																											
Pile Cap Works																											
SC1ER090	C18B (C1e-R) - Pile cap Excavation / ELS	18	09-Mar-15 A	80%	4	25-Mar-15	04-May-16	09-May-16	310	0	80%																
SC1ER092	C18B (C1e-R)- Pile cap Pile breakdown to cut-off etc	4	25-Mar-15	0%	4	30-Mar-15	09-May-16	13-May-16	310	37	0%																
SC1ER100	C18B (C1e-R)- Pile cap Blinding	1	23-May-15	0%	1	23-May-15	13-May-16	16-May-16	272	0	0%																
SC1ER110	C18B (C1e-R)- Pile cap Formwork	3	30-May-15	0%	3	02-Jun-15	21-May-16	25-May-16	272	0	0%																
SC1ER120	C18B (C1e-R)- Pile cap Rebarwork	4	26-May-15	0%	4	29-May-15	16-May-16	21-May-16	272	0	0%																
SC1ER122	C18B (C1e-R)- Pile cap Kicker Formwork	2	05-Jun-15	0%	2	06-Jun-15	01-Jun-16	06-Jun-16	277	4	0%																
SC1ER130	C18B (C1e-R)- Pile cap Concreting	1	04-Jun-15	0%	1	04-Jun-15	25-May-16	27-May-16	272	0	0%																
SC1ER140	C18B (C1e-R) - Pile cap Curing & Striking of Forms incl. CJ prep	6	05-Jun-15	0%	6	13-Jun-15	27-May-16	06-Jun-16	273	0	0%																
Pier Works																											
SC1EL150	C18A (C1e-L) - Pier Scaffolding (1st Lift)	3	21-Mar-15	0%	3	24-Mar-15	31-May-16	03-Jun-16	329	0	0%																
SC1EL160	C18A (C1e-L) - Pier Rebarwork (1st Lift)	3	25-Mar-15	0%	3	27-Mar-15	04-Jun-16	08-Jun-16	329	0	0%																

Actual Work
 Planned Bar
 Critical Bar
 Milestone

Project ID: J3518DWPRe-M22
 Layout: J3518-DWP-3MRP Submission - M22_
 Filter: TASK filters: 3-Month Lookahead, No CC
 Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 20 of 41 Pages)
(Progress as of 21-Mar-15)

Date	Revision	Checked	Approved
09-Mar-15		DB	
31-Mar-15		WY	

DWG. No.:
J3518/GCL/PGM/3MRP-M22

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015																
												March				April				May				June				
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15
GFXX242	D5 (D4b) - Sonic & Interface Coring	12	17-Feb-15 A	100%	0	28-Feb-15 A					100%	[Gantt bar: 17-Feb-15 to 28-Feb-15]																
GFXX243	D5 (D4b) - Dismantle removable panels of temp. platform	5	04-Mar-15 A	100%	0	09-Mar-15 A					100%	[Gantt bar: 04-Mar-15 to 09-Mar-15]																
Pile Cap Works																												
SD4B0070	D5 (D4b) - Marine Pile Cap M2b - Inst.Floating Seal & Casing Head Steelwork	7	21-Mar-15	0%	7	28-Mar-15	23-Feb-15	02-Mar-15	-23	1	0%	[Gantt bar: 23-Feb-15 to 02-Mar-15]																
SD4B0080	D5 (D4b) - Marine Pile Cap M2b - Install precast shell in position	1	31-Mar-15	0%	1	31-Mar-15	03-Mar-15	03-Mar-15	-24	0	0%	[Gantt bar: 03-Mar-15 to 03-Mar-15]																
SD4B0090	D5 (D4b) - Marine Pile Cap M2b - Inst.Access & make Watertight	3	01-Apr-15	0%	3	08-Apr-15	04-Mar-15	06-Mar-15	-24	0	0%	[Gantt bar: 04-Mar-15 to 06-Mar-15]																
SD4B0100	D5 (D4b) - Marine Pile Cap M2b - Weld Fin plates/Plug Rebar & Concrete	9	09-Apr-15	0%	9	20-Apr-15	07-Mar-15	17-Mar-15	-24	0	0%	[Gantt bar: 07-Mar-15 to 17-Mar-15]																
SD4B0120	D5 (D4b) - Marine Pile Cap M2b - Dewater precast shell / Remove Lifting Frame	2	21-Apr-15	0%	2	22-Apr-15	18-Mar-15	19-Mar-15	-24	0	0%	[Gantt bar: 18-Mar-15 to 19-Mar-15]																
SD4B0130	D5 (D4b) - Marine Pile Cap M2b - Pile cut down	8	24-Apr-15	0%	8	04-May-15	20-Mar-15	28-Mar-15	-24	0	0%	[Gantt bar: 20-Mar-15 to 28-Mar-15]																
SD4B0140	D5 (D4b) - Marine Pile Cap M2b - Rebar fixing, inst.inserts etc	12	05-May-15	0%	12	19-May-15	30-Mar-15	17-Apr-15	-24	0	0%	[Gantt bar: 30-Mar-15 to 17-Apr-15]																
SD4B0150	D5 (D4b) - Marine Pile Cap M2b - Concreting	1	20-May-15	0%	1	20-May-15	18-Apr-15	18-Apr-15	-24	0	0%	[Gantt bar: 18-Apr-15 to 18-Apr-15]																
SD4B0160	D5 (D4b) - Marine Pile Cap M2b - Curing incl. CJ Preparation	6	22-May-15	0%	6	29-May-15	20-Apr-15	27-Apr-15	-24	0	0%	[Gantt bar: 20-Apr-15 to 27-Apr-15]																
Pier Works																												
SD4B0170	D5 (D4b) - Type 4B Pier Temp. Support Platform	6	22-May-15	0%	6	29-May-15	20-Apr-15	27-Apr-15	-24	0	0%	[Gantt bar: 20-Apr-15 to 27-Apr-15]																
SD4B0172	D5 (D4b) - Type 4B Pier Scaffolding (1st Lift)	1	30-May-15	0%	1	30-May-15	28-Apr-15	28-Apr-15	-24	0	0%	[Gantt bar: 28-Apr-15 to 28-Apr-15]																
SD4B0180	D5 (D4b) - Type 4B Pier Rebarwork (1st Lift)	3	01-Jun-15	0%	3	04-Jun-15	29-Apr-15	02-May-15	-24	0	0%	[Gantt bar: 29-Apr-15 to 02-May-15]																
SD4B0190	D5 (D4b) - Type 4B Pier Formwork & Prep for Concreting (1st Lift)	2	05-Jun-15	0%	2	06-Jun-15	04-May-15	05-May-15	-24	0	0%	[Gantt bar: 04-May-15 to 05-May-15]																
SD4B0200	D5 (D4b) - Type 4B Pier Concreting (1st Lift)	1	08-Jun-15	0%	1	08-Jun-15	06-May-15	06-May-15	-24	0	0%	[Gantt bar: 06-May-15 to 06-May-15]																
SD4B0202	D5 (D4b) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	10-Jun-15	0%	2	12-Jun-15	07-May-15	08-May-15	-24	0	0%	[Gantt bar: 07-May-15 to 08-May-15]																
SD4B0210	D5 (D4b) - Type 4B Pier Scaffolding (2nd Lift)	2	13-Jun-15	0%	2	15-Jun-15	09-May-15	11-May-15	-24	0	0%	[Gantt bar: 09-May-15 to 11-May-15]																
SD4B0220	D5 (D4b) - Type 4B Pier Rebarwork (2nd Lift)	2	16-Jun-15	0%	2	18-Jun-15	13-May-15	14-May-15	-24	0	0%	[Gantt bar: 13-May-15 to 14-May-15]																
SD4B0230	D5 (D4b) - Type 4B Pier Formwork & Prep for Concreting (2nd Lift)	2	19-Jun-15	0%	2	22-Jun-15	15-May-15	16-May-15	-24	0	0%	[Gantt bar: 15-May-15 to 16-May-15]																
Pier D6 (D4a)																												
Foundation Works																												
GFXX237	D6 (D4a) - Sonic & Interface Coring	12	30-Jan-15 A	100%	0	26-Feb-15 A					100%	[Gantt bar: 26-Feb-15 to 26-Feb-15]																
GFXX237-1	D6 (D4a) - Selection of bored pile for Full Depth Coring	6	26-Feb-15 A	100%	0	26-Feb-15 A					100%	[Gantt bar: 26-Feb-15 to 26-Feb-15]																
GFXX237-2	D6 (D4a) - Bored Pile Full Depth Coring & Testing	24	26-Feb-15 A	100%	0	26-Feb-15 A					100%	[Gantt bar: 26-Feb-15 to 26-Feb-15]																
GFXX238	D6 (D4a) - Dismantle removable panels of temp. platform	5	26-Feb-15 A	100%	0	03-Mar-15 A					100%	[Gantt bar: 03-Mar-15 to 03-Mar-15]																
Pile Cap Works																												
SD4A0070	D6 (D4a) - Marine Pile Cap M2 - Inst.Floating Seal & Casing Head Steelwork	7	30-May-15	0%	7	08-Jun-15	29-Apr-15	07-May-15	-23	0	0%	[Gantt bar: 29-Apr-15 to 07-May-15]																
SD4A0080	D6 (D4a) - Marine Pile Cap M2 - Install precast shell in position	1	10-Jun-15	0%	1	10-Jun-15	08-May-15	08-May-15	-23	0	0%	[Gantt bar: 08-May-15 to 08-May-15]																
SD4A0090	D6 (D4a) - Marine Pile Cap M2 - Inst.Access & make Watertight	3	12-Jun-15	0%	3	15-Jun-15	09-May-15	13-May-15	-23	0	0%	[Gantt bar: 09-May-15 to 13-May-15]																
SD4A0100	D6 (D4a) - Marine Pile Cap M2 - Weld Fin plates/Plug Rebar & Concrete	9	16-Jun-15	0%	9	30-Jun-15	14-May-15	26-May-15	-23	0	0%	[Gantt bar: 14-May-15 to 26-May-15]																
Bridge D2																												
Pier D7 (D3e)																												
Pile Cap Works																												
SD3E0080	D7 (D3e) - Marine Pile Cap M2b - Install precast shell in position	1	21-Mar-15	0%	1	21-Mar-15	25-Mar-15	25-Mar-15	3	0	0%	[Gantt bar: 25-Mar-15 to 25-Mar-15]																
SD3E0090	D7 (D3e) - Marine Pile Cap M2b - Inst.Access & make Watertight	3	23-Mar-15	0%	3	25-Mar-15	26-Mar-15	28-Mar-15	3	0	0%	[Gantt bar: 26-Mar-15 to 28-Mar-15]																
SD3E0100	D7 (D3e) - Marine Pile Cap M2b - Weld Fin plates/Plug Rebar & Concrete	9	26-Mar-15	0%	9	09-Apr-15	30-Mar-15	13-Apr-15	3	0	0%	[Gantt bar: 30-Mar-15 to 13-Apr-15]																
SD3E0120	D7 (D3e) - Marine Pile Cap M2b - Dewater precast shell / Remove Lifting Frame	2	10-Apr-15	0%	2	11-Apr-15	14-Apr-15	16-Apr-15	3	0	0%	[Gantt bar: 14-Apr-15 to 16-Apr-15]																
SD3E0130	D7 (D3e) - Marine Pile Cap M2b - Pile cut down	8	13-Apr-15	0%	8	22-Apr-15	17-Apr-15	27-Apr-15	3	0	0%	[Gantt bar: 17-Apr-15 to 27-Apr-15]																
SD3E0140	D7 (D3e) - Marine Pile Cap M2b - Rebar fixing, inst.inserts etc	12	24-Apr-15	0%	12	08-May-15	28-Apr-15	13-May-15	3	0	0%	[Gantt bar: 28-Apr-15 to 13-May-15]																
SD3E0150	D7 (D3e) - Marine Pile Cap M2b - Concreting	1	09-May-15	0%	1	09-May-15	14-May-15	14-May-15	3	0	0%	[Gantt bar: 14-May-15 to 14-May-15]																
SD3E0160	D7 (D3e) - Marine Pile Cap M2b - Curing incl. CJ Preparation	6	11-May-15	0%	6	18-May-15	15-May-15	22-May-15	3	0	0%	[Gantt bar: 15-May-15 to 22-May-15]																
Pier Works																												
SD3E0170	D7 (D3e) - Type 4B Pier Temp. Support Platform	6	11-May-15	0%	6	18-May-15	15-May-15	22-May-15	3	0	0%	[Gantt bar: 15-May-15 to 22-May-15]																
SD3E0172	D7 (D3e) - Type 4B Pier Scaffolding (1st Lift)	1	19-May-15	0%	1	19-May-15	23-May-15	23-May-15	3	0	0%	[Gantt bar: 23-May-15 to 23-May-15]																
SD3E0180	D7 (D3e) - Type 4B Pier Rebarwork (1st Lift)	3	20-May-15	0%	3	23-May-15	26-May-15	28-May-15	3	0	0%	[Gantt bar: 26-May-15 to 28-May-15]																

<ul style="list-style-type: none"> Actual Work Planned Bar Critical Bar Milestone 	Project ID: J3518DWPPrE-M22 Layout: J3518-DWP-3MRP Submission - M22_... Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 24 of 41 Pages) (Progress as of 21-Mar-15)	<table border="1" style="font-size: small;"> <tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr> <tr><td>09-Mar-15</td><td></td><td>DB</td><td></td></tr> <tr><td>31-Mar-15</td><td></td><td>WY</td><td></td></tr> </table>	Date	Revision	Checked	Approved	09-Mar-15		DB		31-Mar-15		WY		DWG. No.: J3518/GCL/PGM/3MRP-M22
Date	Revision	Checked	Approved													
09-Mar-15		DB														
31-Mar-15		WY														

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015													
												March					April				May			June	
												23	02	09	16	23	30	06	13	20	27	04	11	18	25
GFXX089	E12 (E5b/E6b/E7b/E8b) - Bored Piles (2.5m dia. x 14 nr) 25% in total	151	09-Jul-14 A	80.13%	30	29-Apr-15	10-Apr-15	16-May-15	14	0	90%	[Gantt bar: 10-Apr-15 to 16-May-15]													
GFXX091	E12 (E5b/E6b/E7b/E8b) - Sonic & Interface Coring	12	30-Apr-15	0%	12	14-May-15	16-May-15	01-Jun-15	14	0	0%	[Gantt bar: 16-May-15 to 01-Jun-15]													
GFXX091	E12 (E5b/E6b/E7b/E8b Dolphins only) - Sonic & Interface Coring	12	06-Jun-15	0%	12	19-Jun-15	09-Feb-17	22-Feb-17	499	0	0%	[Gantt bar: 09-Feb-17 to 22-Feb-17]													
GFXX092	E12 (E5b/E6b/E7b/E8b) - Dismantle Removable Piling Platform in Pier E12	6	15-May-15	0%	6	21-May-15	01-Jun-15	08-Jun-15	14	0	0%	[Gantt bar: 01-Jun-15 to 08-Jun-15]													
E13A, E13B, E13C & E13D (E8c/E7c/E6c/E5c)																									
Foundation Works - E13																									
Foundation Works - E13A (E8c) & E13B (E7c)																									
GFXX101	E13A/B (E8c/E7c) - Bored Piles (2.5m dia. x 10 nr)	172	27-Dec-14 A	27.91%	124	21-Aug-15	16-Jun-15	13-Nov-15	69	0	20%	[Gantt bar: 16-Jun-15 to 13-Nov-15]													
GFXX101	E13A/B (E8c/E7c) - Bored Piles (2.5m dia. x 10 nr) 50% in total	172	27-Dec-14 A	27.91%	124	21-Aug-15	16-Jun-15	13-Nov-15	69	0	20%	[Gantt bar: 16-Jun-15 to 13-Nov-15]													
GFXX101	E13A/B (E8c/E7c) - Bored Piles (2.5m dia. x 10 nr) 50% in total	172	27-Dec-14 A	27.91%	124	21-Aug-15	16-Jun-15	13-Nov-15	69	0	20%	[Gantt bar: 16-Jun-15 to 13-Nov-15]													
Foundation Works - E13C (E6c) & E13D (E5c)																									
GFXX095	E13C/D (E6c/E5c) - Bored Piles (2.50m dia. x 10 nr)	128	23-Aug-14 A	39.06%	78	27-Jun-15	24-Dec-14	01-Apr-15	-68	0	40%	[Gantt bar: 24-Dec-14 to 01-Apr-15]													
GFXX095	E13C/D (E6c/E5c) - Bored Piles (2.50m dia. x 10 nr) 50% in total	128	23-Aug-14 A	39.06%	78	27-Jun-15	24-Dec-14	01-Apr-15	-68	0	40%	[Gantt bar: 24-Dec-14 to 01-Apr-15]													
GFXX095	E13C/D (E6c/E5c) - Bored Piles (2.50m dia. x 10 nr) 50% in total	128	23-Aug-14 A	39.06%	78	27-Jun-15	24-Dec-14	01-Apr-15	-68	0	40%	[Gantt bar: 24-Dec-14 to 01-Apr-15]													
E14A, E14B, E14C & E14D (E8d/E7d/E6d/E5d)																									
Foundation Works - E14																									
GFXX545	Mobilization & Assembling Bored Pile Plant & Equipment for Viaducts in HKBCF	5	21-Mar-15	0%	5	26-Mar-15	01-Nov-14	07-Nov-14	-113	0	0%	[Gantt bar: 01-Nov-14 to 07-Nov-14]													
Foundation Works - E14A (E8d)																									
GFXX544	E14A (E8d) - Pre-drilling for Piles (4 nos)	24	29-May-15	0%	24	26-Jun-15	02-Apr-15	05-May-15	-43	0	0%	[Gantt bar: 02-Apr-15 to 05-May-15]													
Foundation Works - E14B (E7d)																									
GFXX544	E14B (E7d) - Pre-drilling for Piles (3 nos)	24	29-May-15	0%	24	26-Jun-15	19-Mar-15	20-Apr-15	-55	0	0%	[Gantt bar: 19-Mar-15 to 20-Apr-15]													
Foundation Works - E14C (E6d)																									
GFXX544	E14C (E6d) - Pre-drilling for Piles (3 nos)	30	02-Apr-15	0%	30	12-May-15	17-Nov-14	20-Dec-14	-111	0	0%	[Gantt bar: 17-Nov-14 to 20-Dec-14]													
GFXX544	E14C (E6d) - Confirm Rockhead levels	8	13-May-15	0%	8	21-May-15	22-Dec-14	02-Jan-15	-111	0	0%	[Gantt bar: 22-Dec-14 to 02-Jan-15]													
GFXX547	E14C (E6d) - Bored Piles (2.20m dia. x 3 nos)	93	22-May-15	0%	93	10-Sep-15	03-Jan-15	29-Apr-15	-111	0	0%	[Gantt bar: 03-Jan-15 to 29-Apr-15]													
Foundation Works - E14D (E5d)																									
GFXX544	E14D (E5d) - Pre-drilling for Piles (4 nos)	30	02-Apr-15	0%	30	12-May-15	07-Nov-14	12-Dec-14	-118	0	0%	[Gantt bar: 07-Nov-14 to 12-Dec-14]													
GFXX544	E14D (E5d) - Confirm Rockhead levels	8	13-May-15	0%	8	21-May-15	12-Dec-14	22-Dec-14	-118	0	0%	[Gantt bar: 12-Dec-14 to 22-Dec-14]													
GFXX546	E14D (E5d) - Bored Piles (2.20m dia. x 4 nos)	102	22-May-15	0%	102	21-Sep-15	22-Dec-14	02-May-15	-118	0	0%	[Gantt bar: 22-Dec-14 to 02-May-15]													
Viaduct F																									
Viaduct F1																									
General F1																									
Milestones																									
GFXX553-8	F2 (F1c) - Start date for piling	0	09-May-15	0%	0		17-Apr-15		-18	72	0%	[Milestone diamond at 17-Apr-15]													
GFXX553-9	F3 (F1d) - Start date for piling	0	09-May-15	0%	0		12-Sep-15		105	84	0%	[Milestone diamond at 12-Sep-15]													
F1 (F1b)																									
Foundation Works																									
GFXX553-1	F1 (F1b) - Pre-drilling for Piles (2 nos)	24	29-Apr-15	0%	24	28-May-15	16-Feb-15	18-Mar-15	-55	0	0%	[Gantt bar: 16-Feb-15 to 18-Mar-15]													
GFXX553-4	F1 (F1b) - Confirm Rockhead Levels	8	29-May-15	0%	8	06-Jun-15	24-Apr-15	04-May-15	-28	60	0%	[Gantt bar: 24-Apr-15 to 04-May-15]													
F2 (F1c)																									
Foundation Works																									
GFXX553-2	F2 (F1c) - Pre-drilling for Piles (2 nos)	24	27-Mar-15	0%	24	28-Apr-15	05-Dec-14	05-Jan-15	-90	0	0%	[Gantt bar: 05-Dec-14 to 05-Jan-15]													
GFXX553-5	F2 (F1c) - Confirm Rockhead Levels	8	29-Apr-15	0%	8	08-May-15	06-Jan-15	14-Jan-15	-90	0	0%	[Gantt bar: 06-Jan-15 to 14-Jan-15]													
GFXX556	F2 (F1c) - Bored Piles (2.20m dia. x 2 nos)	72	09-May-15	0%	72	04-Aug-15	15-Jan-15	16-Apr-15	-90	0	0%	[Gantt bar: 15-Jan-15 to 16-Apr-15]													
F3 (F1d)																									
Foundation Works																									
GFXX553-3	F3 (F1d) - Pre-drilling for Piles (2 nos)	24	27-Mar-15	0%	24	28-Apr-15	08-Dec-14	07-Jan-15	-88	0	0%	[Gantt bar: 08-Dec-14 to 07-Jan-15]													
GFXX553-6	F3 (F1d) - Confirm Rockhead Levels	8	29-Apr-15	0%	8	08-May-15	08-Jan-15	16-Jan-15	-88	0	0%	[Gantt bar: 08-Jan-15 to 16-Jan-15]													

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWP-Pre-M22
 Layout: J3518-DWP-3MRP Submission - M22_
 Filter: TASK filters: 3-Month Lookahead, No CC
 Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 36 of 41 Pages)
(Progress as of 21-Mar-15)

Date	Revision	Checked	Approved
09-Mar-15		DB	
31-Mar-15		WY	

DWG. No.:
J3518/GCL/PGM/3MRP-M22

Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	Physical % Complete	2015																			
												March					April					May					June				
												23	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15			
SWVB3110	9SE-B/F9 - Install Geo. Instru. & Baseline Monitoring	30	22-Jan-15 A	0%	30	02-May-15	20-Mar-18	30-Apr-18	833	833	50%	[Gantt bar: 22-Jan-15 to 30-Apr-18]																			
SWVB3120A	Rockfall Fence Construction	57	20-Jan-15 A	45.61%	31	04-May-15	25-Feb-17	01-Apr-17	536	527	70%	[Gantt bar: 20-Jan-15 to 01-Apr-17]																			
Slope 9SE-B/F85																															
SWVB4020	9SE-B/F85 - Filling & forming slope	18	28-Mar-15	0%	18	24-Apr-15	01-Aug-15	24-Aug-15	88	0	0%	[Gantt bar: 24-Apr-15 to 24-Aug-15]																			
SWVB4030	9SE-B/F85 - Form UC	12	25-Apr-15	0%	12	09-May-15	19-Oct-15	03-Nov-15	130	0	0%	[Gantt bar: 09-May-15 to 03-Nov-15]																			
SWVB4035	9SE-B/F85 - Install Geo. Instru. & Baseline Monitoring	30	11-May-15	0%	30	24-Jun-15	04-Nov-15	08-Dec-15	130	0	0%	[Gantt bar: 24-Jun-15 to 08-Dec-15]																			
Re-alignment of Cheung Tung Road adjacent to Viaduct C																															
West Portion																															
RW61000	Realign CTR (West of Abut. C) - Site Clearance	42	03-Sep-14 A	76.19%	10	01-Apr-15	15-Jan-15	26-Jan-15	-53	32	75%	[Gantt bar: 01-Apr-15 to 26-Jan-15]																			
RW61010	Realign CTR (West of Abut. C) - Road drainage works	60	15-Jan-15 A	38.33%	37	24-Jun-15	09-Mar-15	27-Apr-15	-40	18	40%	[Gantt bar: 24-Jun-15 to 27-Apr-15]																			
RW61020	Realign CTR (West of Abut. C) - Utility diversion	90	19-May-15	0%	90	18-Sep-15	09-Mar-15	11-Jul-15	-53	0	0%	[Gantt bar: 18-Sep-15 to 11-Jul-15]																			
RW61082	Realign CTR (West of Abut. C) - Road formation	48	20-Nov-14 A	31.25%	33	18-May-15	16-Dec-14	26-Jan-15	-85	0	30%	[Gantt bar: 18-May-15 to 26-Jan-15]																			
RW61084	Realign CTR (West of Abut. C) - Retaining Wall C1	48	13-Oct-14 A	75%	12	08-Apr-15	05-Dec-14	18-Dec-14	-85	0	75%	[Gantt bar: 08-Apr-15 to 18-Dec-14]																			
East Portion																															
RW60000	Realign CTR (East of Abut. C) - Site Clearance	54	01-Dec-14 A	18.52%	44	20-May-15	03-Dec-14	26-Jan-15	-87	0	18%	[Gantt bar: 20-May-15 to 26-Jan-15]																			
RW60005	Realign CTR (East of Abut. C) - Road formation	66	22-May-15	0%	66	21-Aug-15	27-Jan-15	22-Apr-15	-87	0	0%	[Gantt bar: 21-Aug-15 to 22-Apr-15]																			
Emergency Gates G6 & G7																															
RP10070	Construct Expressway Fence /Beam Barriers betw new Gates G6 & G7	24	30-Oct-14 A	25%	18	16-Apr-15	07-Apr-18	30-Apr-18	845	845	25%	[Gantt bar: 16-Apr-15 to 30-Apr-18]																			
ESS Sub-Station																															
RP10020	Construct new ESS-C Sub.Stn. adjacent to Viaduct C	48	30-Jun-14 A	85.42%	7	28-Mar-15	21-Apr-18	30-Apr-18	856	856	85%	[Gantt bar: 28-Mar-15 to 30-Apr-18]																			
RP10030	Inst.Eqpt. & Testing / commissioning of new ESS	60	16-Mar-15 A	50%	30	02-May-15	27-Jan-15	05-Mar-15	-43	0	0%	[Gantt bar: 02-May-15 to 05-Mar-15]																			
RP10040	Removal of equipment in existing ESS	30	04-May-15	0%	30	13-Jun-15	06-Mar-15	14-Apr-15	-43	0	0%	[Gantt bar: 13-Jun-15 to 14-Apr-15]																			
RP10050	Demolish the existing ESS	6	15-Jun-15	0%	6	24-Jun-15	16-Apr-15	22-Apr-15	-43	44	0%	[Gantt bar: 24-Jun-15 to 22-Apr-15]																			
Natural Terrain Hazard Mitigation Works																															
NTHM Works - West Portion																															
Check Dam no. 1 (CD1)																															
GFXX497	Predrilling Works for Check Dams	25	21-Mar-15	0%	25	25-Apr-15	04-May-15	05-Jun-15	30	0	0%	[Gantt bar: 25-Apr-15 to 05-Jun-15]																			
GFXX499	CD1 - Mobilization of rig for MiniPile	6	18-Apr-15	0%	6	25-Apr-15	29-May-15	05-Jun-15	30	0	0%	[Gantt bar: 25-Apr-15 to 05-Jun-15]																			
GFXX500	CD1 - Installation of MiniPile (13nos.)	52	27-Apr-15	0%	52	09-Jul-15	06-Jun-15	17-Aug-15	30	0	0%	[Gantt bar: 09-Jul-15 to 17-Aug-15]																			
Watermains & All Assoc Works from Tung Chung to Southern Landfall																															
WM00030	Trial trench works for watermains along existing CTR	157	26-May-14 A	75.16%	39	14-May-15	14-Mar-16	05-May-16	272	66	75%	[Gantt bar: 14-May-15 to 05-May-16]																			
WM00120	Lay DN450 Fresh Water Main along re-aligned CTR (app. 500 m at 12m/day)	48	10-Jun-15	0%	48	14-Aug-15	18-Jun-15	21-Aug-15	5	0	0%	[Gantt bar: 14-Aug-15 to 21-Aug-15]																			

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPrE-M22
 Layout: J3518-DWP-3MRP Submission - M22_
 Filter: TASK filters: 3-Month Lookahead, No CC
 Milestones, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 41 of 41 Pages)
(Progress as of 21-Mar-15)

Date	Revision	Checked	Approved
09-Mar-15		DB	
31-Mar-15		WY	

DWG. No.:
J3518/GCL/PGM/3MRP-M22

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

(In reference to 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 offsite 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	n/a
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		✓
<i>Water Quality Monitoring</i>									
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			n/a
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 3,600 m ² 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	n/a To be enforced by 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 (donor site) and Yam Tsui Wan (receptor site) /Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
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		n/a. To be approved by 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	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	
		prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree 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		✓ Implemented as the Contract Specification
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/	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		✓
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.	All areas/detailed	Design	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	
		mulching (CM9)	design/ during construction	Consultant/ Contractor					
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	n/a. To be implemented by AFCD/HyD/ L CSD
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	n/a To be implemented by 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	n/a. To be implemented by 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	n/a. To be implemented by HyD/LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and	All areas/detailed design/ during	Design Consultant/	TMEIA	Y	Y	Y	n/a. To be

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
		finishes	construction / during operation	Contractor					implemented by 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 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.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		✓
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		✓

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	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		✓
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			n/a
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	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	
		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 scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	construction period						
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	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: <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 	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	
		(water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
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		✓
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	Site Offices/ 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	
		collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.							
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		✓
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

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/ASR9 = 178	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR9A/ASR8A = 394 ASR9C/ASR8/ASR9 = 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 : ASR8(A)
 Calibrated by : P.F. Yeung
 Date : 28/03/2015

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 24 Mar 2015
 Slope (m) : 2.09532
 Intercept (b) : -0.03812
 Correlation Coefficient(r) : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1024
 Ta(K) : 292

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	10.6	3.307	1.596	60	60.94
2	13 holes	8.2	2.909	1.406	54	54.85
3	10 holes	6.2	2.529	1.225	49	49.77
4	7 holes	4.0	2.031	0.988	41	41.64
5	5 holes	2.4	1.574	0.769	34	34.53

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): 31.890 Intercept(b): 10.177 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 01/04/2015

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR9
 Calibrated by : P.F. Yeung
 Date : 28/03/2015

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 24 Mar 2015
 Slope (m) : 2.09532
 Intercept (b) : -0.03812
 Correlation Coefficient(r) : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1024
 Ta(K) : 292

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	10.4	3.276	1.581	53	53.83
2	13 holes	8.4	2.944	1.423	48	48.75
3	10 holes	5.5	2.382	1.155	41	41.64
4	7 holes	3.6	1.927	0.938	34	34.53
5	5 holes	2.2	1.507	0.737	28	28.44

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): 29.862 Intercept(b): 6.593 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 01/04/2015



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE
 VILLAGE OF CLEVELAND, OH
 45002
 513.467.9000
 877.263.7610 TOLL FREE
 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 24, 2015 Rootmeter S/N 0438320 Ta (K) - 292
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 756.92

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4460	3.2	2.00
2	NA	NA	1.00	1.0300	6.4	4.00
3	NA	NA	1.00	0.9180	7.9	5.00
4	NA	NA	1.00	0.8780	8.7	5.50
5	NA	NA	1.00	0.7240	12.6	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0121	0.6999	1.4258	0.9958	0.6886	0.8784
1.0078	0.9785	2.0163	0.9916	0.9627	1.2422
1.0057	1.0955	2.2543	0.9895	1.0779	1.3888
1.0047	1.1443	2.3644	0.9885	1.1258	1.4566
0.9994	1.3805	2.8515	0.9833	1.3582	1.7568
Qstd slope (m) = 2.09532			Qa slope (m) = 1.31205		
intercept (b) = -0.03812			intercept (b) = -0.02349		
coefficient (r) = 0.99994			coefficient (r) = 0.99994		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

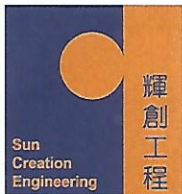
CALCULATIONS

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 }



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C143980

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-1497)

Date of Receipt / 收件日期 : 23 June 2014

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 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 20)%

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 28 June 2014

TEST RESULTS / 測試結果

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

All results are within manufacturer's specification.

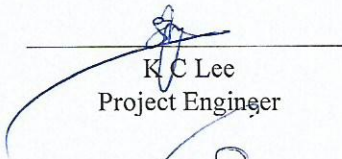
The results are detailed in the subsequent page(s).

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

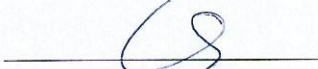
Tested By :

測試


K C Lee
Project Engineer

Certified By :

核證


K M Wu
Engineer

Date of Issue :

簽發日期

2 July 2014

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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Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Certificate of Calibration 校正證書

Certificate No. : C143980
證書編號

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

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C143868
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

- Test procedure : MA100N.

- 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	0.987	1 kHz ± 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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輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C144558

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-1853)

Date of Receipt / 收件日期 : 22 July 2014

Description / 儀器名稱 : Sound Level Meter

Manufacturer / 製造商 : Rion

Model No. / 型號 : NL-31

Serial No. / 編號 : 00603867

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 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 20)%

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 29 July 2014

TEST RESULTS / 測試結果

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

All results are within manufacturer's specification.

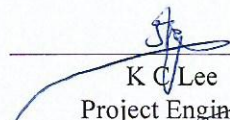
The results are detailed in the subsequent page(s).

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
Project Engineer

Certified By :

核證


K M Wu
Engineer

Date of Issue :

簽發日期

30 July 2014

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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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Page 1 of 4

Certificate of Calibration

校正證書

Certificate No. : C144558

證書編號

1. 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.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C140016
CL281	Multifunction Acoustic Calibrator	DC130171

5. Test procedure : MA101N.

6. 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. : C144558

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	94.7	+1.0 ± 1.6
					8 kHz	92.5	-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	93.6	0.0 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	93.5	-0.2 ± 1.6
					4 kHz	92.9	-0.8 ± 1.6
					8 kHz	90.6	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

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Certificate of Calibration

校正證書

Certificate No. : C144558
證書編號

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 316987

- 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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c/o 香港新界屯門興安里一號青山灣機樓四樓

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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/0505/011 Manufacturer : HACH
Model No. : 2100Q Serial No. : 12060 C 018534
Date of Calibration : 05/01/2015 Due Date : 04/04/2015

Ref. No. of Turbidity Standard used (4000NTU)

005/6.1/001/7

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	19.8	-1.00
100	104	4.00
800	788	-1.50

(*) Difference = (Measured Value – Theoretical Value) / Theoretical Value x 100

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 : hy

Checked by : [Signature]



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/011 Manufacturer : HACH
Model No. : 2100Q Serial No. : 12060 C 018534
Date of Calibration : 02/04/2015 Due Date : 01/07/2015

Ref. No. of Turbidity Standard used (4000NTU)

005/6.1/001/7

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.2	1.00
100	103	3.00
800	787	-1.63

(*) Difference = (Measured Value – Theoretical Value) / Theoretical Value x 100

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 : 

Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/005 Manufacturer : HANNA
 Model No. : HI 8314 Serial No. : 8246095
 Date of Calibration : 07/03/2015 Calibration Due Date : 06/04/2015

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/23
 Temperature of Solution : 20.0 $\Delta\text{pH}_{\frac{1}{2}} = +0.08$
 pH value of diluted buffer : 6.78 pH (S) = 6.881
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.101}$ (Observed Deviation)
 Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{\frac{1}{2}} = \underline{0.021}$

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s = \underline{6.91}$
 Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.008}$

Noise

Noise, $\Delta\text{pH}_n =$ 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): 19.9 °C
 Temperature record from the ATC (T_{ATC}): 19.8 °C
 Temperature Difference, $|T_R - T_{ATC}|$: 0.1 °C

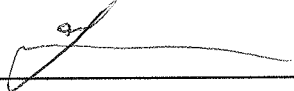
Acceptance Criteria

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/007/005 Manufacturer : HANNA
 Model No. : HI 8314 Serial No. : 8246095
 Date of Calibration : 06/04/2015 Calibration Due Date : 05/05/2015

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/23
 Temperature of Solution : 20.0 $\Delta\text{pH}_{1/2} = \underline{+0.08}$
 pH value of diluted buffer : 6.76 pH (S) = 6.881
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.121}$ (Observed Deviation)
 Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{1/2} = \underline{0.041}$

Shift on Stirring

pH of buffer solution (with stirring), $\text{pH}_s = \underline{6.94}$
 Shift on stirring, $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.018}$

Noise

Noise, $\Delta\text{pH}_n =$ 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): 19.9 °C
 Temperature record from the ATC (T_{ATC}): 19.6 °C
 Temperature Difference, $|T_R - T_{ATC}|$: 0.3 °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 : hy

Checked by : [Signature]



Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : <u>ET/EW/008/006</u>	Manufacturer : <u>YSI</u>
Model No. : <u>Pro 2030</u>	Serial No. : <u>12A 100554</u>
Date of Calibration : <u>17/03/2015</u>	Calibration Due Date : <u>16/06/2015</u>

Temperature Verification

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

Ref. No. of Water Bath : ---

Reference Thermometer reading	Temperature (°C)			
	Measured	20.0	Corrected	19.4
DO Meter reading	Measured	19.2	Difference	0.2

Standardization of sodium thiosulphate ($Na_2S_2O_3$) solution

Reagent No. of $Na_2S_2O_3$ titrant	CPE/012/4.5/001/11	Reagent No. of 0.025N $K_2Cr_2O_7$	CPE/012/4.4/001/35
		Trial 1	Trial 2
Initial Vol. of $Na_2S_2O_3$ (ml)		0.00	10.15
Final Vol. of $Na_2S_2O_3$ (ml)		10.15	20.40
Vol. of $Na_2S_2O_3$ used (ml)		10.15	10.25
Normality of $Na_2S_2O_3$ solution (N)		0.02463	0.02439
Average Normality (N) of $Na_2S_2O_3$ solution (N)		0.02451	
Acceptance criteria, Deviation		Less than $\pm 0.001N$	

Calculation: Normality of $Na_2S_2O_3$, $N = 0.25 / ml Na_2S_2O_3$ used

Linearity Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
	1	2	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	11.20	22.60	0.00	6.80	10.40
Final Vol. of $Na_2S_2O_3$ (ml)	11.20	22.60	29.20	6.80	10.40	14.10
Vol. (V) of $Na_2S_2O_3$ used (ml)	11.20	11.40	6.60	6.80	3.60	3.70
Dissolved Oxygen (DO), mg/L	7.37	7.50	4.34	4.47	2.37	2.43
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

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

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.42	7.90	7.66	7.37	7.50	7.44	2.91
5	4.38	4.10	4.24	4.34	4.47	4.41	3.93
10	2.50	2.48	2.49	2.37	2.43	2.40	3.68
Linear regression coefficient				0.9954			



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/012/4.7/002/34	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/34
-----------------------------	--------------------	-----------------------------	--------------------

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
	1	2	1	2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.90	23.50	34.00
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.90	23.50	34.00	44.30
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.90	11.60	10.50	10.30
Dissolved Oxygen (DO), mg/L	7.83	7.63	6.91	6.78
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

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

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.20	7.65	7.43	7.83	7.63	7.73	3.96
30	6.90	6.40	6.65	6.91	6.78	6.85	2.96

Acceptance Criteria

- (1) Difference between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °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 ± 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/008/006 Manufacturer : YSI
Model No. : Pro 2030 Serial No. : 12A 100554
Date of Calibration : 17/03/2015 Due Date : 16/06/2015

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

S/001/5

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.3	1.0

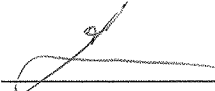
(*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

Acceptance Criteria

Difference : -10 % to 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 : 

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration : 20 November 2014

Brand of Test Meter: Global Water

Model: Speed Sensor: WE550 (S/N:EC0000)

Direction Sensor: WE570 (S/N:ED0000)

Location : Pak Mong, Siu Ho Wan

Procedures :

- 1. Wind Still Test: The wind speed sensor was hold by hand until it keep still
- 2. Wind Speed Test: The wind meter was on-site calibrated against the Anemometer
- 3. Wind Direction Test : The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)
0.00

Wind Speed Test

Global Wate (m/s)	Anemomete (m/s)
0.35	0.4
1.49	1.6
3.01	3.1

Wind Direction Test

Global Wate (o)	Marine Compass (o)
270.21	270
0.01	0
90.12	90
179.05	180

Calibrated by: Fai
Yeung Ping Fai
(Technical Officer)

Checked by : Fat
Ho Kam Fat
(Senior Technical Officer)



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C146966

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-2877) Date of Receipt / 收件日期 : 12 November 2014

Description / 儀器名稱 : Anemometer

Manufacturer / 製造商 : Lutron

Model No. / 型號 : AM-4201

Serial No. / 編號 : AF.27513

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 : 14 November 2014

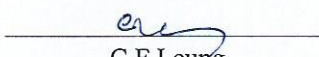
TEST RESULTS / 測試結果

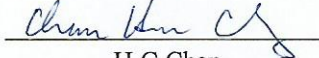
The results apply to the particular unit-under-test only.

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

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

- Testo Industrial Services GmbH, Germany

Tested By : 
測試 : C F Leung
Project Engineer

Certified By : 
核證 : H C Chan
Engineer

Date of Issue : 18 November 2014
簽發日期

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. : C146966

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 10 measurements at each calibration point.
3. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL386	Multi-function Measuring Instrument	S12109

4. Test procedure : MA130N.

5. Results :

Air Velocity

Applied Value (m/s)	UUT Reading (m/s)	Measured Correction		
		Value (m/s)	Measurement Uncertainty	
			Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.7	+0.3	0.2	2.0
4.1	3.8	+0.3	0.3	2.0
6.1	5.8	+0.3	0.3	2.0
8.0	7.8	+0.2	0.3	2.0
10.0	9.9	+0.1	0.4	2.0

Remarks : - The Measured Corrections are defined as :
Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 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

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 (April 15)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Apr	02-Apr	03-Apr	04-Apr
				WQM Mid-Ebb 12:11 (10:26 - 13:56) Mid-Flood 18:08 (16:23 - 19:53)		WQM Mid-Ebb 13:04 (11:19 - 14:49) Mid-Flood 19:21 (17:36 - 21:06)
05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr
		WQM Mid-Flood 8:15 (06:30 - 10:00) Mid-Ebb 14:36 (12:51 - 16:21)		WQM Mid-Flood 9:14 (07:29 - 10:59) Mid-Ebb 15:53 (14:08 - 17:38)		WQM Mid-Flood 10:29 (08:44 - 12:14) Mid-Ebb 17:40 (15:55 - 19:25)
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
		WQM Mid-Ebb 9:53 (08:08 - 11:38) Mid-Flood 14:57 (13:12 - 16:42)		WQM Mid-Ebb 11:25 (09:40 - 13:10) Mid-Flood 17:08 (15:23 - 18:53)		WQM Mid-Ebb 12:43 (10:58 - 14:28) Mid-Flood 18:57 (17:12 - 20:42)
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
		WQM Mid-Flood 8:08 (06:23 - 09:53) Mid-Ebb 14:48 (13:03 - 16:33)		WQM Mid-Flood 9:16 (07:31 - 11:01) Mid-Ebb 16:16 (14:27 - 17:57)		WQM Mid-Flood 10:33 (08:48 - 12:18) Mid-Ebb 17:57 (16:12 - 19:42)
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		
		WQM Mid-Ebb 10:07 (08:22 - 11:52) Mid-Flood 15:25 (13:40 - 17:10)		WQM Mid-Ebb 11:14 (09:29 - 12:59) Mid-Flood 17:11 (15:26 - 18:56)		

**HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Impact Marine Water Quality Monitoring (WQM) Schedule (May 15)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Apr	02-Apr	01-May	02-May
						WQM Mid-Ebb 12:11 (10:26 - 13:56) Mid-Flood 18:33 (16:48 - 20:18)
03-May	04-May	05-May	06-May	07-May	08-May	09-May
		WQM Mid-Ebb 13:44 (11:59 - 15:29) Mid-Flood 20:33 (18:48 - 22:18)		WQM Mid-Flood 8:15 (06:30 - 10:00) Mid-Ebb 14:57 (13:12 - 16:42)		WQM Mid-Flood 9:32 (07:47 - 11:17) Mid-Ebb 16:28 (14:43 - 18:13)
10-May	11-May	12-May	13-May	14-May	15-May	16-May
		WQM Mid-Ebb 8:22 (06:37 - 10:07) Mid-Flood 13:17 (11:32 - 15:02)		WQM Mid-Ebb 10:18 (08:33 - 12:03) Mid-Flood 15:58 (14:13 - 17:43)		WQM Mid-Ebb 11:44 (09:59 - 13:29) Mid-Flood 18:00 (16:15 - 19:45)
17-May	18-May	19-May	20-May	21-May	22-May	23-May
		WQM Mid-Ebb 13:48 (12:03 - 15:33) Mid-Flood 20:45 (19:00 - 22:30)		WQM Mid-Flood 8:14 (06:29 - 09:59) Mid-Ebb 15:12 (13:27 - 16:57)		WQM Mid-Flood 9:27 (07:42 - 11:12) Mid-Ebb 16:35 (14:50 - 18:20)
24-May	25-May	26-May	27-May	28-May	29-May	30-May
		WQM Mid-Flood 12:39 (10:54 - 14:24) Mid-Ebb 19:16 (17:31 - 21:01)		WQM Mid-Ebb 10:00 (08:15 - 11:45) Mid-Flood 15:51 (14:06 - 17:36)		WQM Mid-Ebb 11:11 (09:26 - 12:56) Mid-Flood 17:35 (15:50 - 19:20)

**HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Noise Monitoring Schedule (1 to 30 April 2015)**

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Apr	02-Apr	03-Apr	04-Apr
05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr
	Noise Impact Monitoring			Noise Impact Monitoring		
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
			Noise Impact Monitoring			
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
		Noise Impact Monitoring				
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		
	Noise Impact Monitoring			Noise Impact 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
Tentative Impact Air Quality Monitoring Schedule (1 to 30 April 2015)**

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Mar	02-Mar	03-Mar	01-Apr	02-Apr	03-Apr	04-Apr
05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr
	1-hr TSP Monitoring 24-hr TSP Monitoring			1-hr TSP Monitoring 24-hr TSP Monitoring		
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
			1-hr TSP Monitoring 24-hr TSP Monitoring			
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
		1-hr TSP Monitoring 24-hr TSP Monitoring				
26-Apr	27-Apr	28-Apr	29-Apr	30-Apr		
	1-hr TSP Monitoring 24-hr TSP Monitoring			1-hr TSP Monitoring 24-hr TSP 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
Tentative Impact Noise Monitoring Schedule (1 to 31 May 2015)**

Alternative Noise Monitoring at Pak Mong Village Entrance

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

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 to 31 May 2015)**

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					P. Holiday 01-May	02-May
03-May	04-May	05-May	06-May	07-May	08-May	09-May
			1-hr TSP Monitoring 24-hr TSP Monitoring			
10-May	11-May	12-May	13-May	14-May	15-May	16-May
		1-hr TSP Monitoring 24-hr TSP Monitoring				
17-May	18-May	19-May	20-May	21-May	22-May	23-May
	1-hr TSP Monitoring 24-hr TSP Monitoring			1-hr TSP Monitoring 24-hr TSP Monitoring		
24-May	P. Holiday 25-May	26-May	27-May	28-May	29-May	30-May
			1-hr TSP Monitoring 24-hr TSP Monitoring			
31-May						

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 to 30 April 2015)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Apr	02-Apr	03-Apr	04-Apr
05-Apr	06-Apr	07-Apr	08-Apr	09-Apr	10-Apr	11-Apr
			Impact Dolphin Monitoring		Impact Dolphin Monitoring	
12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr
					Impact Dolphin Monitoring	
19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr
			Impact Dolphin Monitoring			
26-Apr	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 Impact Dolphin Monitoring Survey Schedule (1 to 31 May 2015)

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

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	2015-04-06	ASR8A	8:00	1-hr TSP	69	394	500		
TMCLKL	HY/2012/07	2015-04-06	ASR8A	9:02	1-hr TSP	64				
TMCLKL	HY/2012/07	2015-04-06	ASR8A	10:04	1-hr TSP	59				
TMCLKL	HY/2012/07	2015-04-09	ASR8A	8:13	1-hr TSP	68				
TMCLKL	HY/2012/07	2015-04-09	ASR8A	9:15	1-hr TSP	65				
TMCLKL	HY/2012/07	2015-04-09	ASR8A	10:17	1-hr TSP	65				
TMCLKL	HY/2012/07	2015-04-15	ASR8A	12:35	1-hr TSP	111				
TMCLKL	HY/2012/07	2015-04-15	ASR8A	13:37	1-hr TSP	109				
TMCLKL	HY/2012/07	2015-04-15	ASR8A	14:39	1-hr TSP	124				
TMCLKL	HY/2012/07	2015-04-21	ASR8A	12:43	1-hr TSP	61				
TMCLKL	HY/2012/07	2015-04-21	ASR8A	13:45	1-hr TSP	87				
TMCLKL	HY/2012/07	2015-04-21	ASR8A	14:47	1-hr TSP	72				
TMCLKL	HY/2012/07	2015-04-27	ASR8A	8:10	1-hr TSP	80				
TMCLKL	HY/2012/07	2015-04-27	ASR8A	9:12	1-hr TSP	76				
TMCLKL	HY/2012/07	2015-04-27	ASR8A	10:14	1-hr TSP	85				
TMCLKL	HY/2012/07	2015-04-30	ASR8A	9:00	1-hr TSP	117				
TMCLKL	HY/2012/07	2015-04-30	ASR8A	10:02	1-hr TSP	119				
TMCLKL	HY/2012/07	2015-04-30	ASR8A	11:04	1-hr TSP	113				
					Average	86				
					Min.	59				
					Max.	124				

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

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	2015-04-06	ASR9	8:10	1-hr TSP	117	393	500		
TMCLKL	HY/2012/07	2015-04-06	ASR9	9:12	1-hr TSP	80				
TMCLKL	HY/2012/07	2015-04-06	ASR9	10:14	1-hr TSP	81				
TMCLKL	HY/2012/07	2015-04-09	ASR9	8:24	1-hr TSP	61				
TMCLKL	HY/2012/07	2015-04-09	ASR9	9:26	1-hr TSP	59				
TMCLKL	HY/2012/07	2015-04-09	ASR9	10:28	1-hr TSP	83				
TMCLKL	HY/2012/07	2015-04-15	ASR9	12:48	1-hr TSP	161				
TMCLKL	HY/2012/07	2015-04-15	ASR9	13:50	1-hr TSP	135				
TMCLKL	HY/2012/07	2015-04-15	ASR9	14:52	1-hr TSP	109				
TMCLKL	HY/2012/07	2015-04-21	ASR9	12:54	1-hr TSP	111				
TMCLKL	HY/2012/07	2015-04-21	ASR9	13:56	1-hr TSP	105				
TMCLKL	HY/2012/07	2015-04-21	ASR9	14:58	1-hr TSP	88				
TMCLKL	HY/2012/07	2015-04-27	ASR9	8:22	1-hr TSP	217				
TMCLKL	HY/2012/07	2015-04-27	ASR9	9:24	1-hr TSP	148				
TMCLKL	HY/2012/07	2015-04-27	ASR9	10:26	1-hr TSP	139				
TMCLKL	HY/2012/07	2015-04-30	ASR9	9:12	1-hr TSP	100				
TMCLKL	HY/2012/07	2015-04-30	ASR9	10:14	1-hr TSP	128				
TMCLKL	HY/2012/07	2015-04-30	ASR9	11:16	1-hr TSP	91				
					Average	112				
					Min.	59				
					Max.	217				

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

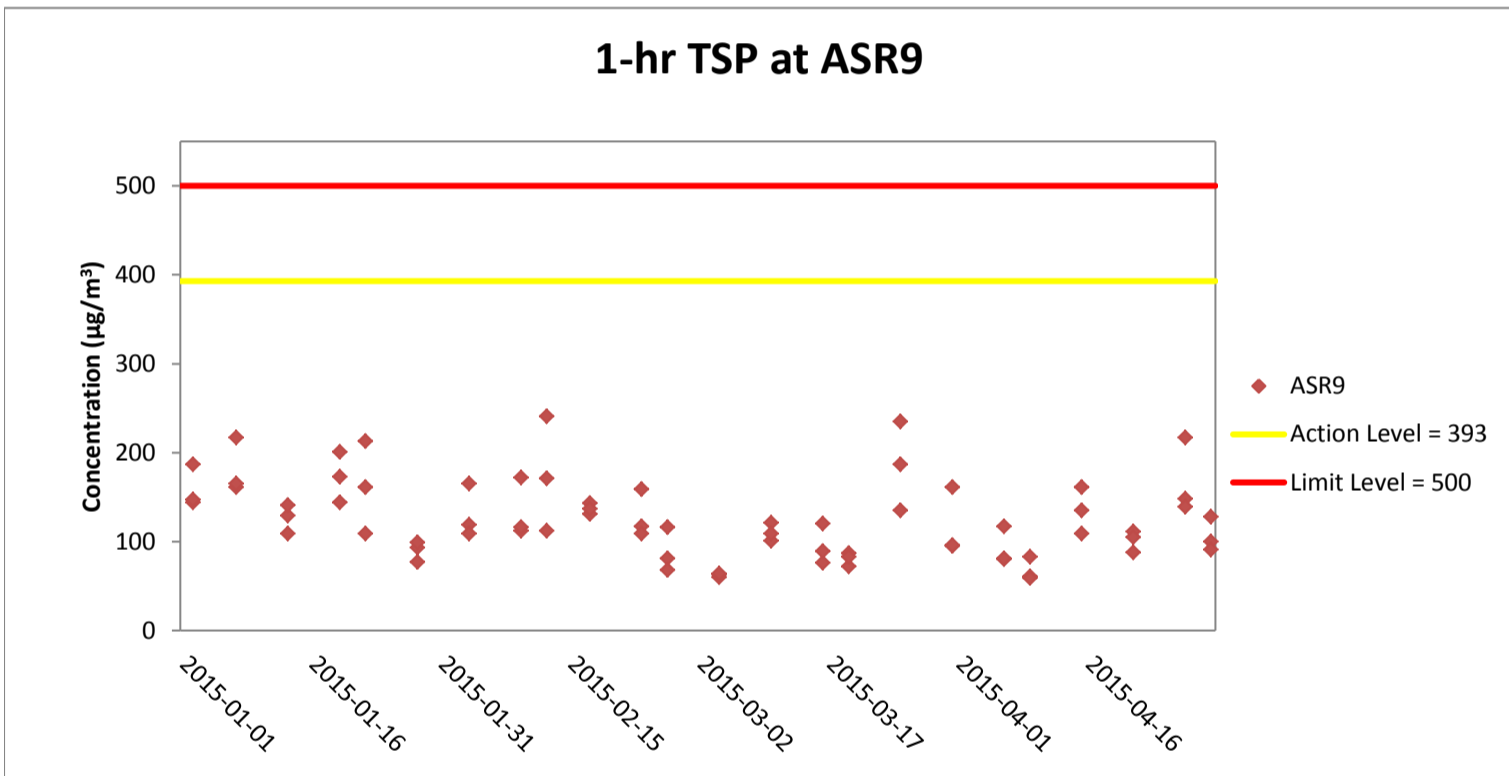
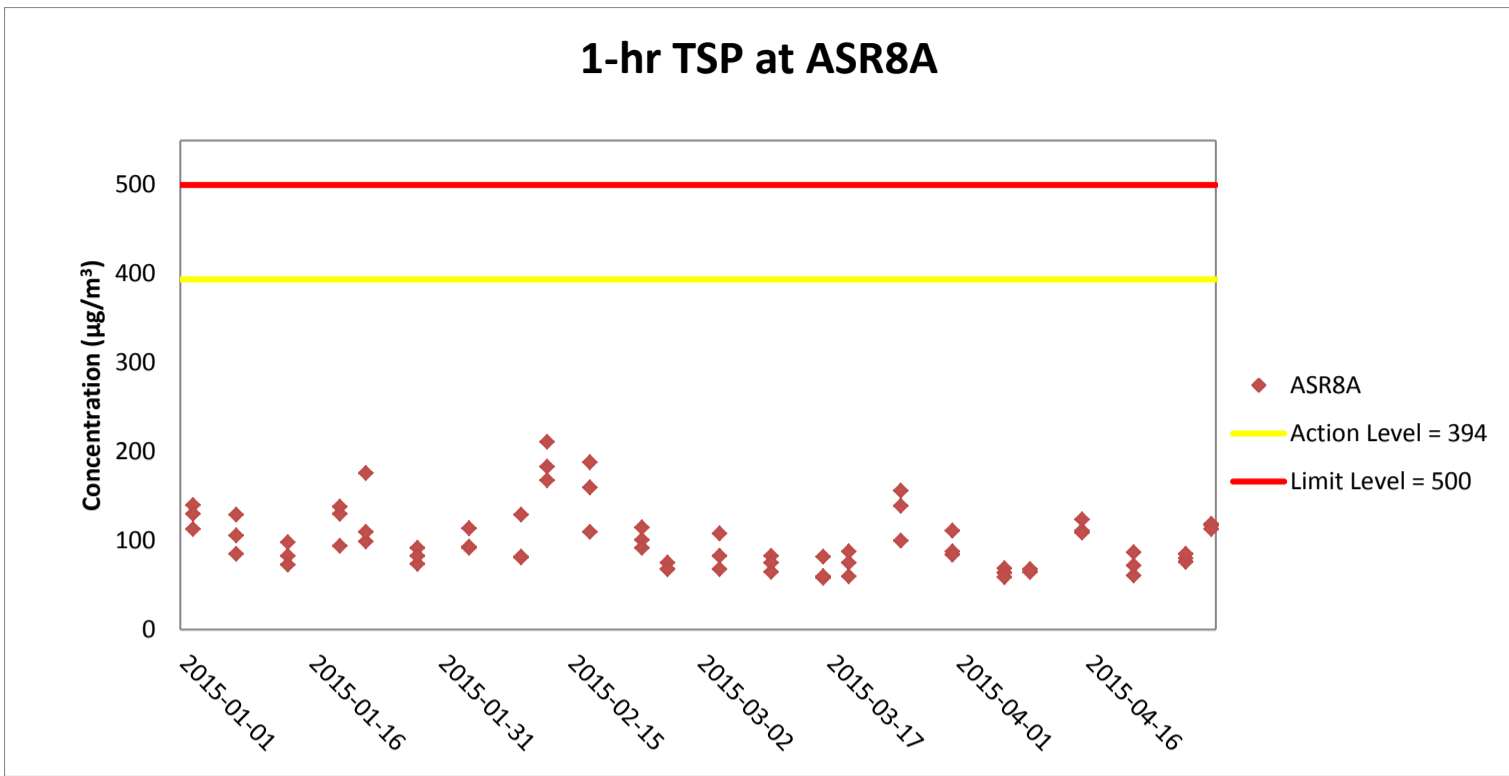
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2015-04-06	ASR8A	11:06	24-hr TSP	50	178	260
TMCLKL	HY/2012/07	2015-04-09	ASR8A	11:19	24-hr TSP	60		
TMCLKL	HY/2012/07	2015-04-15	ASR8A	15:41	24-hr TSP	59		
TMCLKL	HY/2012/07	2015-04-21	ASR8A	15:49	24-hr TSP	52		
TMCLKL	HY/2012/07	2015-04-27	ASR8A	11:16	24-hr TSP	57		
TMCLKL	HY/2012/07	2015-04-30	ASR8A	12:06	24-hr TSP	60		
						Average	56	
						Min.	50	
						Max.	60	

24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

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	2015-04-06	ASR9	11:16	24-hr TSP	56	178	260
TMCLKL	HY/2012/07	2015-04-09	ASR9	11:30	24-hr TSP	69		
TMCLKL	HY/2012/07	2015-04-15	ASR9	15:54	24-hr TSP	68		
TMCLKL	HY/2012/07	2015-04-21	ASR9	16:00	24-hr TSP	72		
TMCLKL	HY/2012/07	2015-04-27	ASR9	11:28	24-hr TSP	64		
TMCLKL	HY/2012/07	2015-04-30	ASR9	12:18	24-hr TSP	62		
						Average	65	
						Min.	56	
						Max.	72	

Action Level Exceedance

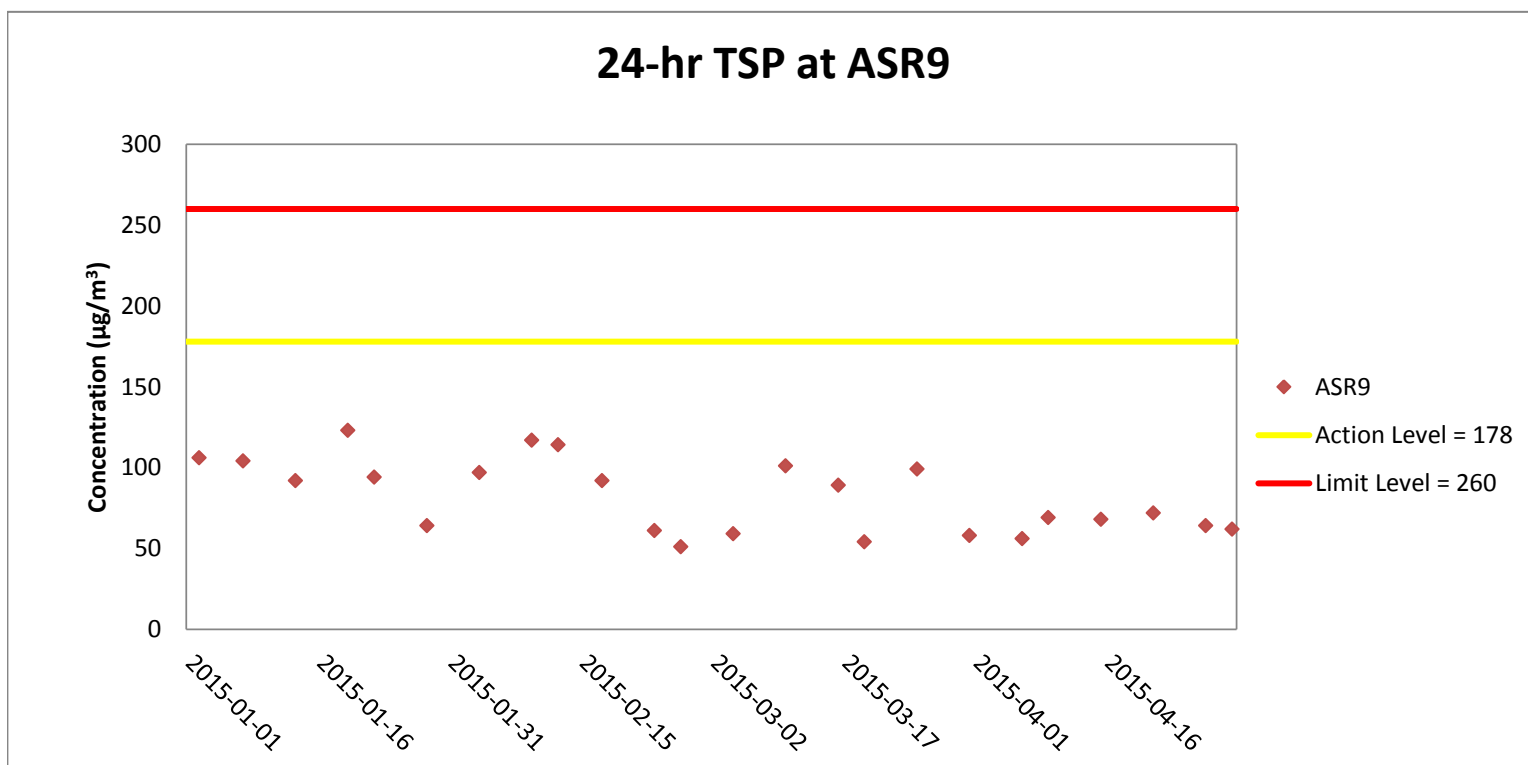
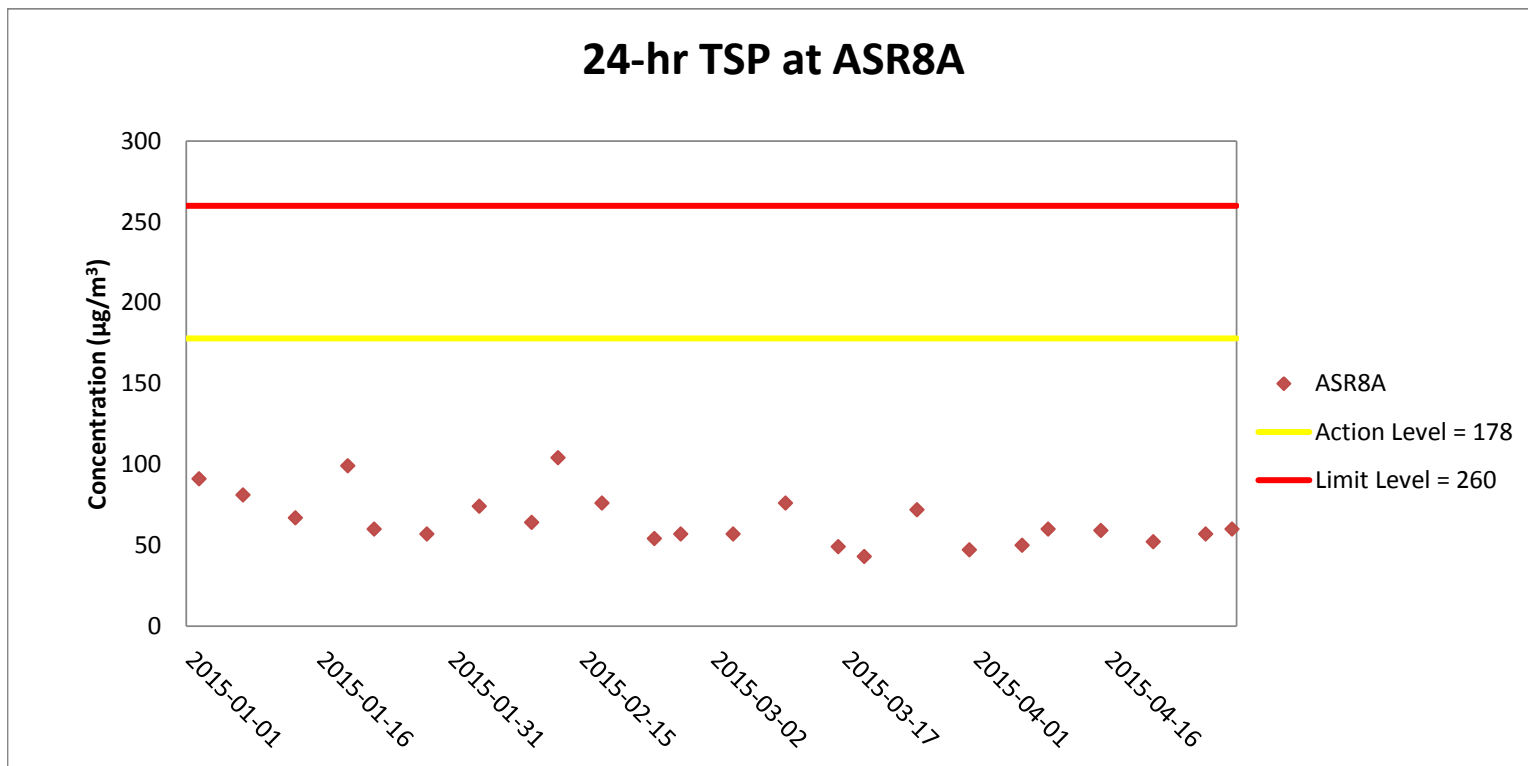
Limit Level Exceedance



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction and installation of pile caps; Pier construction; Drainage works; Land piling; Pre-drilling works; Installation of pier head segment; Additional land GI, trial pits & lab testing; Tree survey, felling and transplanting Utility surveys and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction and installation of pile caps; Pier construction; Drainage works; Land piling; Pre-drilling works; Installation of pier head segment; Additional land GI, trial pits & lab testing; Tree survey, felling and transplanting Utility surveys and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstillation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.

Appendix H

Meteorological Data for the Reporting Month

Date	Time	Wind speed (m/s)	Wind direction (deg)
06-04-2015	7:00	0.02	161
06-04-2015	8:00	0.02	196
06-04-2015	9:00	0.02	282
06-04-2015	10:00	0.02	296
06-04-2015	11:00	0.03	280
06-04-2015	12:00	0.01	247
06-04-2015	13:00	0.32	281
06-04-2015	14:00	0.38	298
06-04-2015	15:00	0.50	285
06-04-2015	16:00	0.33	221
06-04-2015	17:00	1.58	171
06-04-2015	18:00	1.34	135
06-04-2015	19:00	1.01	145
06-04-2015	20:00	1.15	149
06-04-2015	21:00	0.02	136
06-04-2015	22:00	0.15	124
06-04-2015	23:00	0.11	100
07-04-2015	0:00	0.21	121
07-04-2015	1:00	0.13	136
07-04-2015	2:00	2.37	159
07-04-2015	3:00	0.20	235
07-04-2015	4:00	0.02	115
07-04-2015	5:00	0.02	113
07-04-2015	6:00	0.06	159
07-04-2015	7:00	0.32	174
07-04-2015	8:00	0.06	98
07-04-2015	9:00	1.78	154
07-04-2015	10:00	4.59	160
07-04-2015	11:00	4.70	161
07-04-2015	12:00	6.55	168
07-04-2015	13:00	5.38	160
07-04-2015	14:00	4.72	150
07-04-2015	15:00	5.30	167
07-04-2015	16:00	5.66	167
07-04-2015	17:00	4.68	157
09-04-2015	7:00	0.03	41
09-04-2015	8:00	0.03	61
09-04-2015	9:00	0.05	280
09-04-2015	10:00	0.18	186
09-04-2015	11:00	0.30	124
09-04-2015	12:00	0.03	150
09-04-2015	13:00	0.10	144
09-04-2015	14:00	0.02	133
09-04-2015	15:00	0.08	233
09-04-2015	16:00	0.02	98
09-04-2015	17:00	0.04	154
09-04-2015	18:00	0.15	283
09-04-2015	19:00	0.08	200
09-04-2015	20:00	0.13	157
09-04-2015	21:00	0.06	66

Date	Time	Wind speed (m/s)	Wind direction (deg)
09-04-2015	22:00	0.05	157
09-04-2015	23:00	0.03	62
10-04-2015	0:00	0.09	57
10-04-2015	1:00	0.03	107
10-04-2015	2:00	0.17	142
10-04-2015	3:00	0.18	81
10-04-2015	4:00	0.06	285
10-04-2015	5:00	0.04	151
10-04-2015	6:00	0.05	225
10-04-2015	7:00	0.23	71
10-04-2015	8:00	0.03	60
10-04-2015	9:00	0.05	92
10-04-2015	10:00	0.06	291
10-04-2015	11:00	0.21	210
10-04-2015	12:00	0.10	279
10-04-2015	13:00	0.05	229
10-04-2015	14:00	0.03	307
10-04-2015	15:00	0.13	257
10-04-2015	16:00	0.14	233
10-04-2015	17:00	0.24	337
15-04-2015	7:00	0.05	112
15-04-2015	8:00	0.26	221
15-04-2015	9:00	0.52	325
15-04-2015	10:00	0.27	270
15-04-2015	11:00	0.42	295
15-04-2015	12:00	1.27	242
15-04-2015	13:00	3.66	179
15-04-2015	14:00	5.68	169
15-04-2015	15:00	4.32	175
15-04-2015	16:00	5.04	168
15-04-2015	17:00	5.21	169
15-04-2015	18:00	3.99	160
15-04-2015	19:00	4.45	165
15-04-2015	20:00	3.84	157
15-04-2015	21:00	1.84	180
15-04-2015	22:00	1.95	156
15-04-2015	23:00	1.20	171
16-04-2015	0:00	0.75	164
16-04-2015	1:00	0.68	179
16-04-2015	2:00	0.32	183
16-04-2015	3:00	0.50	190
16-04-2015	4:00	0.64	184
16-04-2015	5:00	0.78	190
16-04-2015	6:00	0.05	174
16-04-2015	7:00	0.02	191
16-04-2015	8:00	0.10	298
16-04-2015	9:00	0.14	176
16-04-2015	10:00	0.17	189
16-04-2015	11:00	0.28	109
16-04-2015	12:00	0.27	202

Date	Time	Wind speed (m/s)	Wind direction (deg)
16-04-2015	13:00	0.33	225
16-04-2015	14:00	0.42	307
16-04-2015	15:00	0.36	225
16-04-2015	16:00	1.01	174
16-04-2015	17:00	1.24	176
21-04-2015	7:00	0.11	250
21-04-2015	8:00	0.32	199
21-04-2015	9:00	0.46	194
21-04-2015	10:00	0.03	262
21-04-2015	11:00	0.04	162
21-04-2015	12:00	0.08	283
21-04-2015	13:00	0.02	308
21-04-2015	14:00	0.02	220
21-04-2015	15:00	0.02	317
21-04-2015	16:00	0.02	297
21-04-2015	17:00	0.10	199
21-04-2015	18:00	0.52	165
21-04-2015	19:00	0.92	183
21-04-2015	20:00	0.43	163
21-04-2015	21:00	0.69	129
21-04-2015	22:00	0.87	144
21-04-2015	23:00	0.44	199
22-04-2015	0:00	0.11	164
22-04-2015	1:00	0.56	184
22-04-2015	2:00	0.62	135
22-04-2015	3:00	0.05	62
22-04-2015	4:00	0.02	135
22-04-2015	5:00	0.02	178
22-04-2015	6:00	0.02	158
22-04-2015	7:00	0.10	172
22-04-2015	8:00	1.86	165
22-04-2015	9:00	0.27	79
22-04-2015	10:00	0.42	113
22-04-2015	11:00	0.12	171
22-04-2015	12:00	0.40	246
22-04-2015	13:00	3.20	188
22-04-2015	14:00	4.14	182
22-04-2015	15:00	4.41	164
22-04-2015	16:00	4.43	161
22-04-2015	17:00	4.48	164
27-04-2015	7:00	1.45	195
27-04-2015	8:00	1.50	183
27-04-2015	9:00	0.95	139
27-04-2015	10:00	1.08	131
27-04-2015	11:00	3.08	168
27-04-2015	12:00	1.11	209
27-04-2015	13:00	0.18	231
27-04-2015	14:00	1.24	203
27-04-2015	15:00	0.28	245
27-04-2015	16:00	2.29	176

Date	Time	Wind speed (m/s)	Wind direction (deg)
27-04-2015	17:00	1.48	200
27-04-2015	18:00	2.35	182
27-04-2015	19:00	3.15	160
27-04-2015	20:00	2.04	163
27-04-2015	21:00	3.82	146
27-04-2015	22:00	3.28	149
27-04-2015	23:00	1.67	170
28-04-2015	0:00	2.18	191
28-04-2015	1:00	0.57	180
28-04-2015	2:00	0.67	192
28-04-2015	3:00	0.60	177
28-04-2015	4:00	0.63	178
28-04-2015	5:00	1.75	157
28-04-2015	6:00	1.32	167
28-04-2015	7:00	0.13	219
28-04-2015	8:00	0.03	306
28-04-2015	9:00	0.07	137
28-04-2015	10:00	0.15	177
28-04-2015	11:00	0.04	174
28-04-2015	12:00	0.18	100
28-04-2015	13:00	0.07	112
28-04-2015	14:00	0.10	236
28-04-2015	15:00	0.13	180
28-04-2015	16:00	0.43	206
28-04-2015	17:00	0.78	148
30-04-2015	7:00	0.02	189
30-04-2015	8:00	0.09	277
30-04-2015	9:00	0.07	269
30-04-2015	10:00	0.26	251
30-04-2015	11:00	0.07	272
30-04-2015	12:00	0.21	312
30-04-2015	13:00	0.60	306
30-04-2015	14:00	2.30	180
30-04-2015	15:00	3.25	158
30-04-2015	16:00	2.94	147
30-04-2015	17:00	3.06	130
30-04-2015	18:00	2.76	145
30-04-2015	19:00	3.45	150
30-04-2015	20:00	3.62	167
30-04-2015	21:00	1.60	151
30-04-2015	22:00	1.78	150
30-04-2015	23:00	1.72	146
01-05-2015	0:00	1.15	141
01-05-2015	1:00	1.41	150
01-05-2015	2:00	0.77	163
01-05-2015	3:00	0.43	147
01-05-2015	4:00	0.42	164
01-05-2015	5:00	1.08	154
01-05-2015	6:00	1.43	162
01-05-2015	7:00	2.03	166

Date	Time	Wind speed (m/s)	Wind direction (deg)
01-05-2015	8:00	1.70	164
01-05-2015	9:00	1.68	151
01-05-2015	10:00	2.24	171
01-05-2015	11:00	1.83	157
01-05-2015	12:00	2.18	164
01-05-2015	13:00	2.63	170
01-05-2015	14:00	4.13	186
01-05-2015	15:00	2.78	182
01-05-2015	16:00	2.44	164
01-05-2015	17:00	2.76	179

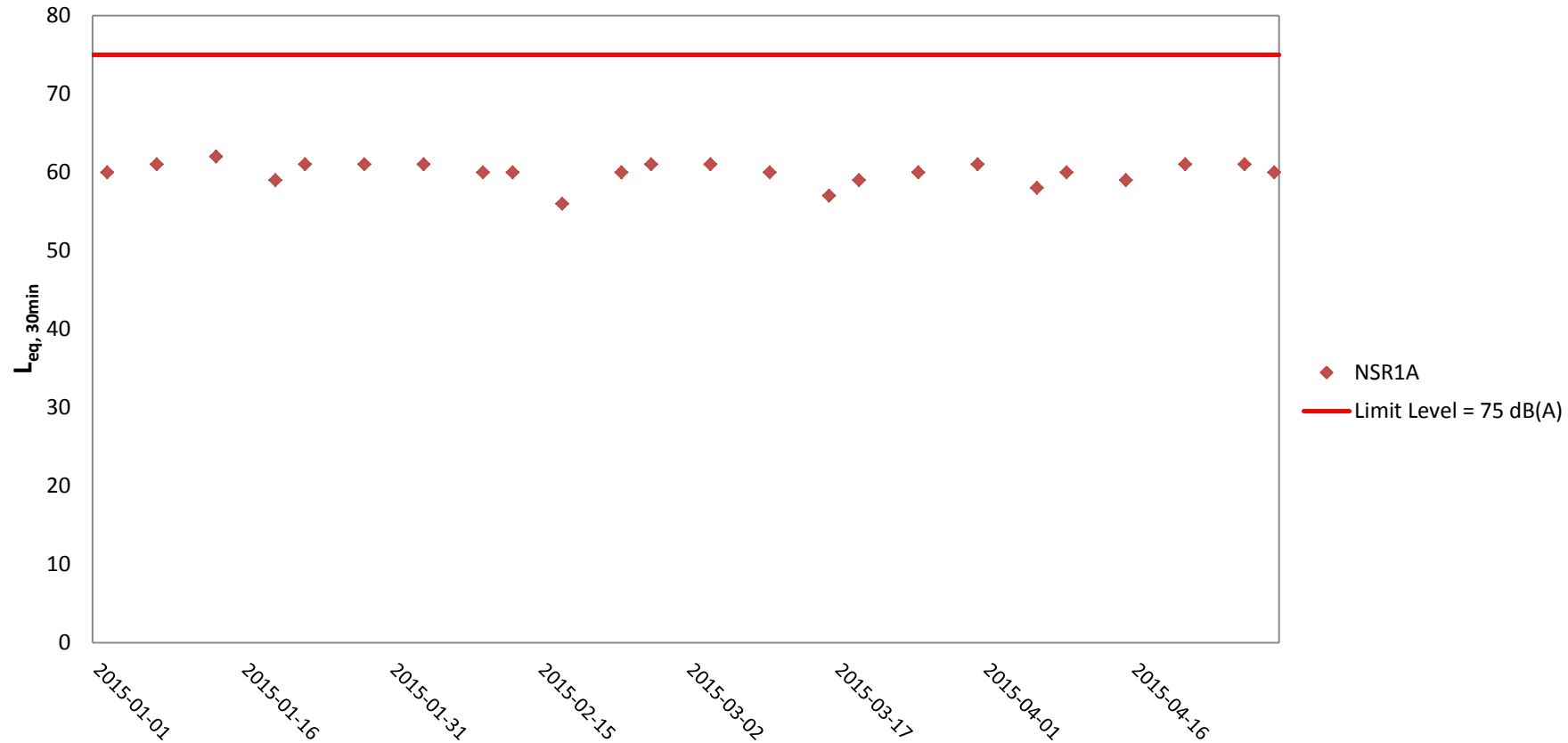
Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Appendix II Noise Monitoring Results

Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Noise Level for 30-min, dB(A)			Limit Level dB(A)	Wind Speed (m/s)	Noise Meter Model/ID	Calibrator Model/ID
						Leq	L10	L90				
TMCLKL	HY/2012/07	2015-04-06	NSR1A	Sunny	10:26	58	60	53	75	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2015-04-09	NSR1A	Cloudy	9:38	60	62	56	75	0.6	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2015-04-15	NSR1A	Sunny	13:00	59	61	53	75	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2015-04-21	NSR1A	Sunny	13:05	61	64	57	75	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2015-04-27	NSR1A	Sunny	10:36	61	64	55	75	0.8	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/08	2015-04-30	NSR1A	Sunny	10:25	60	61	54	75	0.8	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
						Min.	57					
						Max.	61					
						Average	60					

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



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction and installation of pile caps; Pier construction; Drainage works; Land piling; Pre-drilling works; Installation of pier head segment; Additional land GI, trial pits & lab testing; Tree survey, felling and transplanting Utility surveys and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.

Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)5	16:25	Surface	1	1	20.2	8.11	29.2	7.66	13.8	16.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)5	16:25	Surface	1	2	20.3	8.12	29.2	7.62	14.4	17.3
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)5	16:25	Middle	2	1	20.3	8.08	29.2	7.48	15.2	21.3
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)5	16:25	Middle	2	2	20.3	8.09	29.3	7.45	15.9	23.9
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)5	16:25	Bottom	3	1	20.4	8.1	29.4	7.27	17.3	26
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)5	16:25	Bottom	3	2	20.4	8.11	29.5	7.24	18.1	23.5
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4a	16:52	Surface	1	1	20.3	8.07	29.2	7.53	15.2	19.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4a	16:52	Surface	1	2	20.3	8.09	29.3	7.49	14.4	21.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4a	16:52	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4a	16:52	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4a	16:52	Bottom	3	1	20.3	8.05	29.3	7.44	16.6	19.9
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4a	16:52	Bottom	3	2	20.3	8.06	29.4	7.4	17.1	22.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4	17:09	Surface	1	1	20.3	7.98	29.1	7.58	15.4	24.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4	17:09	Surface	1	2	20.3	7.99	29.2	7.55	15.9	23.9
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4	17:09	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4	17:09	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4	17:09	Bottom	3	1	20.3	8.02	29.3	7.47	17.2	20.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	SR4	17:09	Bottom	3	2	20.4	8.03	29.4	7.45	17.9	23.3
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS8	17:27	Surface	1	1	20.3	8.02	29.2	7.51	16.2	21.1
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS8	17:27	Surface	1	2	20.4	8.04	29.2	7.49	17.1	22.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS8	17:27	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS8	17:27	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS8	17:27	Bottom	3	1	20.4	8.07	29.3	7.4	17.8	28.5
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS8	17:27	Bottom	3	2	20.4	8.09	29.3	7.37	18.4	25.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)16	17:46	Surface	1	1	20.4	8.11	29.2	7.57	15.7	22
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)16	17:46	Surface	1	2	20.4	8.12	29.3	7.62	16.5	23.1
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)16	17:46	Middle	2	1	20.4	8.09	29.3	7.51	17.3	26
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)16	17:46	Middle	2	2	20.3	8.1	29.3	7.48	18	25.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)16	17:46	Bottom	3	1	20.4	8.05	29.3	7.34	18.7	26.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)16	17:46	Bottom	3	2	20.5	8.06	29.4	7.31	19.4	29.1
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)9	18:10	Surface	1	1	20.4	8.06	29.1	7.48	16.3	21.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)9	18:10	Surface	1	2	20.4	8.07	29.2	7.44	17	20.4
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)9	18:10	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)9	18:10	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)9	18:10	Bottom	3	1	20.4	8.09	29.2	7.36	17.8	28.5
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	IS(Mf)9	18:10	Bottom	3	2	20.4	8.1	29.3	7.33	18.3	23.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)3	18:30	Surface	1	1	20.4	8.03	29.2	7.58	19.3	27

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)3	18:30	Surface	1	2	20.4	8.04	29.3	7.56	18.7	26.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)3	18:30	Middle	2	1	20.4	8.07	29.3	7.47	20.4	28.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)3	18:30	Middle	2	2	20.4	8.06	29.4	7.43	19.7	29.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)3	18:30	Bottom	3	1	20.5	8.11	29.6	7.29	21.2	31.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Flood	CS(Mf)3	18:30	Bottom	3	2	20.5	8.12	29.6	7.24	20.6	24.7
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)3	10:56	Surface	1	1	19.1	8	29.1	7.43	20.1	28.1
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)3	10:56	Surface	1	2	19.2	8.02	29.2	7.41	20.3	30.5
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)3	10:56	Middle	2	1	19.3	8.13	29.3	7.33	21.4	30
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)3	10:56	Middle	2	2	19.3	8.11	29.3	7.31	21.6	30.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)3	10:56	Bottom	3	1	19.4	8.07	29.4	7.17	22.4	31.4
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)3	10:56	Bottom	3	2	19.4	8.05	29.5	7.15	22.6	31.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4a	13:00	Surface	1	1	19	8.06	29.1	7.55	16.3	19.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4a	13:00	Surface	1	2	19.1	8.04	29.2	7.57	16.5	23.1
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4a	13:00	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4a	13:00	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4a	13:00	Bottom	3	1	19.1	8.11	29.3	7.34	17.1	27.4
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4a	13:00	Bottom	3	2	19.2	8.13	29.3	7.32	17.3	26
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4	12:25	Surface	1	1	19.1	7.94	29.1	7.46	16.9	22
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4	12:25	Surface	1	2	19.2	7.96	29.2	7.48	17.1	23.9
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4	12:25	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4	12:25	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4	12:25	Bottom	3	1	19.3	8.06	29.3	7.32	18.4	25.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	SR4	12:25	Bottom	3	2	19.3	8.08	29.3	7.3	18.6	24.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS8	12:03	Surface	1	1	19	8.03	29.1	7.55	18.4	25.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS8	12:03	Surface	1	2	19	8.05	29.1	7.53	18.6	24.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS8	12:03	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS8	12:03	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS8	12:03	Bottom	3	1	19.1	8.11	29.2	7.42	19	24.7
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS8	12:03	Bottom	3	2	19.2	8.09	29.3	7.4	19.2	26.9
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)16	11:41	Surface	1	1	19.1	8.13	29	7.6	17.4	27.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)16	11:41	Surface	1	2	19.2	8.15	29.1	7.58	17.6	24.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)16	11:41	Middle	2	1	19.2	8.06	29.2	7.48	18	23.4
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)16	11:41	Middle	2	2	19.3	8.04	29.2	7.47	18.2	27.3
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)16	11:41	Bottom	3	1	19.4	7.94	29.3	7.32	18.6	24.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)16	11:41	Bottom	3	2	19.4	7.92	29.4	7.3	18.8	24.4
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)9	11:18	Surface	1	1	19	8.03	29	7.36	17.8	23.1
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)9	11:18	Surface	1	2	19.1	8.05	29	7.34	18	23.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)9	11:18	Middle	2	1						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)9	11:18	Middle	2	2						
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)9	11:18	Bottom	3	1	19.2	8.12	29.1	7.22	18.5	22.2
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	IS(Mf)9	11:18	Bottom	3	2	19.3	8.1	29.2	7.2	18.7	29.9
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)5	13:25	Surface	1	1	19.1	8.13	29	7.55	15.4	20
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)5	13:25	Surface	1	2	19.2	8.15	29.1	7.53	15.6	20.3
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)5	13:25	Middle	2	1	19.3	8.06	29.2	7.36	16.3	22.8
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)5	13:25	Middle	2	2	19.3	8.04	29.3	7.33	16.5	26.4
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)5	13:25	Bottom	3	1	19.4	8.12	29.4	7.19	17.4	22.6
TMCLKL	HY/2012/07	02-04-2015	Mid-Ebb	CS(Mf)5	13:25	Bottom	3	2	19.4	8.1	29.4	7.17	17.6	22.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)5	17:36	Surface	1	1	20	7.96	29.1	7.62	14.2	18.5
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)5	17:36	Surface	1	2	20.1	7.98	29.2	7.64	14.4	18.7
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)5	17:36	Middle	2	1	20.2	8.06	29.3	7.42	15	18.6
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)5	17:36	Middle	2	2	20.3	8.04	29.3	7.4	15.2	18.8
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)5	17:36	Bottom	3	1	20.4	8.12	29.4	7.35	16.8	22.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)5	17:36	Bottom	3	2	20.4	8.14	29.5	7.32	17	20.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4a	17:58	Surface	1	1	20.1	8.06	29	7.53	15.4	19.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4a	17:58	Surface	1	2	20.2	8.04	29	7.51	15.6	19.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4a	17:58	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4a	17:58	Middle	2	2						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4a	17:58	Bottom	3	1	20.3	8.13	29.1	7.41	16.1	21.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4a	17:58	Bottom	3	2	20.4	8.11	29.2	7.43	16.3	22.1
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4	18:20	Surface	1	1	20.1	8.12	29	7.56	15.7	22.7
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4	18:20	Surface	1	2	20.2	8.14	29	7.58	15.9	22.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4	18:20	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4	18:20	Middle	2	2						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4	18:20	Bottom	3	1	20.3	8.06	29.1	7.39	16.6	22
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	SR4	18:20	Bottom	3	2	20.3	8.04	29.2	7.41	16.4	22.5
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS8	18:42	Surface	1	1	20.1	7.96	29.1	7.47	16.2	22.4
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS8	18:42	Surface	1	2	20.1	7.98	29.2	7.45	16.4	22.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS8	18:42	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS8	18:42	Middle	2	2						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS8	18:42	Bottom	3	1	20.2	8.06	29.3	7.36	17.7	20.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS8	18:42	Bottom	3	2	20.3	8.08	29.3	7.34	17.5	20.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)16	19:04	Surface	1	1	20	8.03	29.1	7.64	16.4	17.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)16	19:04	Surface	1	2	20.1	8.05	29.2	7.62	16.6	17.6
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)16	19:04	Middle	2	1	20.2	8.11	29.3	7.51	17.3	21.1

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)16	19:04	Middle	2	2	20.2	8.13	29.3	7.53	17.5	19
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)16	19:04	Bottom	3	1	20.3	8.2	29.4	7.4	18.3	20.7
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)16	19:04	Bottom	3	2	20.4	8.22	29.5	7.42	18.5	20.3
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)9	19:20	Surface	1	1	20.1	7.96	29.1	7.48	16.5	18.6
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)9	19:20	Surface	1	2	20	7.94	29.2	7.5	16.7	19
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)9	19:20	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)9	19:20	Middle	2	2						
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)9	19:20	Bottom	3	1	20.2	8	29.3	7.36	17.4	18.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	IS(Mf)9	19:20	Bottom	3	2	20.3	8.02	29.4	7.34	17.6	21.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)3	19:45	Surface	1	1	20	8	29	7.56	17.4	18
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)3	19:45	Surface	1	2	20.1	7.98	29	7.58	17.6	21.3
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)3	19:45	Middle	2	1	20.1	8.09	29.1	7.41	18	19
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)3	19:45	Middle	2	2	20.2	8.11	29.2	7.39	18.2	18.6
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)3	19:45	Bottom	3	1	20.3	8.13	29.3	7.36	19.2	17.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Flood	CS(Mf)3	19:45	Bottom	3	2	20.4	8.15	29.4	7.37	19.4	19.1
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)3	12:19	Surface	1	1	20.5	8.02	29	7.55	13.9	19.8
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)3	12:19	Surface	1	2	20.4	8.03	29.1	7.51	13.9	17
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)3	12:19	Middle	2	1	20.3	8.05	29.2	7.27	15.2	18.5
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)3	12:19	Middle	2	2	20.3	8.04	29.3	7.24	15.2	18.6
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)3	12:19	Bottom	3	1	20.2	8.05	29.3	7.06	15.9	21.8
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)3	12:19	Bottom	3	2	20.1	8.05	29.4	7.02	15.7	21.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4a	14:15	Surface	1	1	20.4	8.06	29.2	7.3	15.5	17
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4a	14:15	Surface	1	2	20.5	8.05	29.1	7.34	15.4	17.3
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4a	14:15	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4a	14:15	Middle	2	2						
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4a	14:15	Bottom	3	1	20.2	8.1	29.3	7.1	16.8	18.5
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4a	14:15	Bottom	3	2	20.1	8.09	29.2	7.13	16.5	17.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4	14:00	Surface	1	1	20.4	8.05	29	7.26	15.9	19.8
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4	14:00	Surface	1	2	20.5	8.05	28.9	7.28	15.9	19.8
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4	14:00	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4	14:00	Middle	2	2						
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4	14:00	Bottom	3	1	20.2	8.06	29.2	7.11	17.5	20.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	SR4	14:00	Bottom	3	2	20.2	8.05	29.2	7.07	17.4	22.1
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS8	13:40	Surface	1	1	20.4	8.03	29	7.34	16.1	18.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS8	13:40	Surface	1	2	20.4	8.04	29	7.3	16.2	18.6
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS8	13:40	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS8	13:40	Middle	2	2						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS8	13:40	Bottom	3	1	20.3	8.05	29.4	7.18	17.2	22.7
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS8	13:40	Bottom	3	2	20.3	8.06	29.4	7.14	17.2	18.6
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)16	13:14	Surface	1	1	20.5	8.03	29.1	7.4	14.8	20.4
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)16	13:14	Surface	1	2	20.4	8.04	29.2	7.37	14.8	20.3
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)16	13:14	Middle	2	1	20.3	8.04	29.3	7.15	16.4	20.7
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)16	13:14	Middle	2	2	20.3	8.04	29.3	7.1	16.3	21.8
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)16	13:14	Bottom	3	1	20.3	8.04	29.4	7.08	16.6	20.1
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)16	13:14	Bottom	3	2	20.2	8.05	29.3	7.05	16.8	17.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)9	12:49	Surface	1	1	20.4	8.01	29.1	7.43	15.7	20.3
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)9	12:49	Surface	1	2	20.3	8.02	29.1	7.47	15.7	20.4
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)9	12:49	Middle	2	1						
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)9	12:49	Middle	2	2						
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)9	12:49	Bottom	3	1	20.3	8.03	29.3	7.17	16.4	20
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	IS(Mf)9	12:49	Bottom	3	2	20.3	8.04	29.2	7.14	16.2	22.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)5	14:30	Surface	1	1	20.5	8.07	29.1	7.55	14.7	21.1
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)5	14:30	Surface	1	2	20.4	8.08	29.1	7.58	14.7	18.3
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)5	14:30	Middle	2	1	20.2	8.08	29.3	7.29	15.8	21.2
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)5	14:30	Middle	2	2	20.1	8.08	29.4	7.25	15.8	21.5
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)5	14:30	Bottom	3	1	20.1	8.09	29.4	7.2	16.1	20.9
TMCLKL	HY/2012/07	04-04-2015	Mid-Ebb	CS(Mf)5	14:30	Bottom	3	2	20.1	8.08	29.4	7.17	16.2	19.1
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)5	7:30	Surface	1	1	20.5	8.07	28.9	7.27	13.9	22.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)5	7:30	Surface	1	2	20.4	8.06	28.8	7.29	14	18.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)5	7:30	Middle	2	1	20.3	8.09	29	7.09	15.2	21.3
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)5	7:30	Middle	2	2	20.2	8.1	29.1	7.05	15.4	24.6
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)5	7:30	Bottom	3	1	20.2	8.1	29.1	6.97	15.7	20.4
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)5	7:30	Bottom	3	2	20.2	8.1	29.2	6.94	15.7	20.4
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4a	8:00	Surface	1	1	20.4	8.05	28.9	7.15	14.4	18.7
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4a	8:00	Surface	1	2	20.4	8.06	28.8	7.18	14.3	18.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4a	8:00	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4a	8:00	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4a	8:00	Bottom	3	1	20.3	8.08	29.1	7.01	15.1	18.1
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4a	8:00	Bottom	3	2	20.3	8.07	29.1	7.05	15.2	21.3
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4	8:25	Surface	1	1	20.4	8.07	28.8	7.34	16.4	24.6
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4	8:25	Surface	1	2	20.3	8.08	28.7	7.3	16.4	19.7
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4	8:25	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4	8:25	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4	8:25	Bottom	3	1	20.2	8.09	29.1	7.02	17.2	27.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	SR4	8:25	Bottom	3	2	20.2	8.1	29.1	7.05	17.4	22.6
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS8	8:50	Surface	1	1	20.4	8.07	28.7	7.21	15.8	25.3
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS8	8:50	Surface	1	2	20.4	8.06	28.8	7.17	15.8	22.1
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS8	8:50	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS8	8:50	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS8	8:50	Bottom	3	1	20.2	8.09	29.2	6.87	16.6	23.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS8	8:50	Bottom	3	2	20.2	8.08	29.1	6.84	16.4	23
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)16	9:10	Surface	1	1	20.5	8.07	28.9	7.17	14.9	23.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)16	9:10	Surface	1	2	20.4	8.07	28.9	7.14	14.8	22.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)16	9:10	Middle	2	1	20.2	8.1	29	7.04	16.4	19.7
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)16	9:10	Middle	2	2	20.2	8.11	29	7.07	16.3	19.6
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)16	9:10	Bottom	3	1	20.2	8.11	29.2	6.9	16.8	25.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)16	9:10	Bottom	3	2	20.1	8.12	29.2	6.94	16.9	27
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)9	9:30	Surface	1	1	20.5	8.06	28.8	7.21	15.8	20.5
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)9	9:30	Surface	1	2	20.5	8.07	28.9	7.24	15.8	19
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)9	9:30	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)9	9:30	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)9	9:30	Bottom	3	1	20.3	8.08	29.2	6.97	16.2	20.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	IS(Mf)9	9:30	Bottom	3	2	20.2	8.09	29.2	6.94	16.2	19.4
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)3	9:45	Surface	1	1	20.5	8.07	29	7.3	16.1	20.9
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)3	9:45	Surface	1	2	20.4	8.07	28.9	7.27	16.2	21.1
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)3	9:45	Middle	2	1	20.3	8.09	29.2	7.01	17.2	20.6
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)3	9:45	Middle	2	2	20.2	8.1	29.1	6.98	17.1	25.7
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)3	9:45	Bottom	3	1	20.2	8.12	29.2	6.79	16.9	25.4
TMCLKL	HY/2012/07	07-04-2015	Mid-Flood	CS(Mf)3	9:45	Bottom	3	2	20.2	8.12	29.1	6.75	16.8	21.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)3	12:51	Surface	1	1	21.1	8.03	29	7.23	16.4	21.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)3	12:51	Surface	1	2	21.2	8.05	29	7.21	16.6	19.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)3	12:51	Middle	2	1	21.3	8.13	29.1	7.04	17.1	25.5
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)3	12:51	Middle	2	2	21.3	8.15	29.2	7.06	17.3	24.1
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)3	12:51	Bottom	3	1	21.4	7.96	29.3	6.83	17.6	26
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)3	12:51	Bottom	3	2	21.4	7.94	29.4	6.85	17.8	24.5
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4a	15:00	Surface	1	1	21.1	8.06	29.1	7.26	17	25.5
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4a	15:00	Surface	1	2	21.2	8.08	29.2	7.24	17.2	22.4
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4a	15:00	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4a	15:00	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4a	15:00	Bottom	3	1	21.4	8.22	29.4	7.07	18.3	23.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4a	15:00	Bottom	3	2	21.5	8.2	29.4	7.09	18.5	27.8

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4	14:21	Surface	1	1	21	8.04	29	7.23	17.3	24.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4	14:21	Surface	1	2	21.1	8.06	29.1	7.21	17.5	26.3
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4	14:21	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4	14:21	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4	14:21	Bottom	3	1	21.2	8.12	29.2	6.98	18	28.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	SR4	14:21	Bottom	3	2	21.3	8.1	29.3	6.96	18.2	24.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS8	13:57	Surface	1	1	21.1	8.13	29.1	7.17	16	22.4
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS8	13:57	Surface	1	2	21.2	8.15	29.2	7.15	16.2	22.7
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS8	13:57	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS8	13:57	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS8	13:57	Bottom	3	1	21.3	8.06	29.3	7.04	16.4	21.3
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS8	13:57	Bottom	3	2	21.4	8.08	29.3	7.06	16.6	24.9
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)16	13:35	Surface	1	1	21	8	29	7.13	15.2	19.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)16	13:35	Surface	1	2	20.9	8.02	29.1	7.15	15.4	21.6
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)16	13:35	Middle	2	1	21.1	8.07	29.2	7.02	15.9	22.3
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)16	13:35	Middle	2	2	21.2	8.09	29.3	7	16.1	25.8
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)16	13:35	Bottom	3	1	21.3	8.11	29.4	6.83	16.3	21.2
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)16	13:35	Bottom	3	2	21.4	8.13	29.3	6.85	16.5	23.1
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)9	13:14	Surface	1	1	21	7.94	29.1	7.17	16.2	25.9
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)9	13:14	Surface	1	2	21.1	7.96	29.2	7.15	16.4	21.3
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)9	13:14	Middle	2	1						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)9	13:14	Middle	2	2						
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)9	13:14	Bottom	3	1	21.2	8.03	29.3	7.04	17.2	22.4
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	IS(Mf)9	13:14	Bottom	3	2	21.3	8.05	29.3	7.02	17	25.5
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)5	15:35	Surface	1	1	21	8.13	29	7.17	16.3	23
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)5	15:35	Surface	1	2	21.1	8.15	29.1	7.19	16.5	24.9
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)5	15:35	Middle	2	1	21.2	8.2	29.2	7.06	17	23.9
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)5	15:35	Middle	2	2	21.3	8.18	29.3	7.08	17.2	22.5
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)5	15:35	Bottom	3	1	21.4	8.23	29.4	6.94	17.3	22.9
TMCLKL	HY/2012/07	07-04-2015	Mid-Ebb	CS(Mf)5	15:35	Bottom	3	2	21.5	8.21	29.5	6.96	17.5	26.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)5	8:25	Surface	1	1	24	7.98	28.9	7.33	13	17.3
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)5	8:25	Surface	1	2	20.3	7.97	29	7.35	13.9	18.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)5	8:25	Middle	2	1	20.2	8	29.1	7.15	14.3	20
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)5	8:25	Middle	2	2	20.1	8.01	29.2	7.11	14.5	19.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)5	8:25	Bottom	3	1	20	8.01	29.3	7.03	14.8	21.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)5	8:25	Bottom	3	2	20.1	8.02	29.2	7	14.7	21.1
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4a	8:47	Surface	1	1	20.3	7.96	28.9	7.21	13.5	18

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4a	8:47	Surface	1	2	20.2	7.97	29	7.24	13.4	18.5
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4a	8:47	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4a	8:47	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4a	8:47	Bottom	3	1	20.2	7.99	29.1	7.07	14.2	19
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4a	8:47	Bottom	3	2	20.1	7.98	29.2	7.11	14.3	20.1
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4	9:09	Surface	1	1	20.3	7.98	28.8	7.4	15.5	20.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4	9:09	Surface	1	2	20.2	7.99	28.9	7.36	15.4	20.5
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4	9:09	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4	9:09	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4	9:09	Bottom	3	1	20	8	29.1	7.08	16.3	22
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	SR4	9:09	Bottom	3	2	20.1	8.01	29.2	7.11	16.5	21.6
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS8	9:31	Surface	1	1	20.3	7.98	28.8	7.21	14.9	19.5
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS8	9:31	Surface	1	2	20.2	7.97	28.9	7.23	14.8	19.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS8	9:31	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS8	9:31	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS8	9:31	Bottom	3	1	20.2	8	29.2	6.93	15.7	20.9
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS8	9:31	Bottom	3	2	20.1	7.99	29.3	6.9	15.5	20.3
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)16	9:53	Surface	1	1	20.4	7.98	29	7.23	13.9	18.1
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)16	9:53	Surface	1	2	20.3	7.99	28.9	7.2	13.7	17.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)16	9:53	Middle	2	1	20.1	8.01	29.1	7.1	15.5	20.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)16	9:53	Middle	2	2	20	8.02	29	7.13	15.4	21.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)16	9:53	Bottom	3	1	20.1	8.02	29.2	6.96	15.9	21.9
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)16	9:53	Bottom	3	2	20	8.03	29.3	7	16	22.6
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)9	10:15	Surface	1	1	20.3	7.97	28.9	7.27	14.8	19.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)9	10:15	Surface	1	2	20.4	7.98	29	7.3	14.9	20.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)9	10:15	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)9	10:15	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)9	10:15	Bottom	3	1	20.2	7.99	29.3	7.03	15.3	21.6
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	IS(Mf)9	10:15	Bottom	3	2	20.1	8	29.2	7	15.1	20.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)3	10:37	Surface	1	1	20.4	7.98	29	7.36	15.2	20.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)3	10:37	Surface	1	2	20.3	7.97	29.1	7.33	15.3	21.6
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)3	10:37	Middle	2	1	20.2	8	29.2	7.07	16.3	21.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)3	10:37	Middle	2	2	20.1	8.01	29.3	7.04	16.2	21.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)3	10:37	Bottom	3	1	20.1	8.03	29.4	6.85	16	21.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Flood	CS(Mf)3	10:37	Bottom	3	2	20	8.04	29.3	6.81	15.9	20.6
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)3	14:08	Surface	1	1	20.3	7.99	28.8	7.24	15.3	19.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)3	14:08	Surface	1	2	20.3	7.98	28.8	7.2	15.4	20.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)3	14:08	Middle	2	1	20.2	7.98	29	6.96	16.4	21.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)3	14:08	Middle	2	2	20.2	8	29.1	6.93	16.3	22
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)3	14:08	Bottom	3	1	20	8.01	29.3	6.72	16.1	22
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)3	14:08	Bottom	3	2	20.1	8.02	29.2	6.7	16	21.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4a	16:19	Surface	1	1	20.2	7.95	29	7.1	13.5	17.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4a	16:19	Surface	1	2	20.2	7.96	28.7	7.13	13.6	18.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4a	16:19	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4a	16:19	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4a	16:19	Bottom	3	1	20.1	7.98	28.9	6.94	14.5	20
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4a	16:19	Bottom	3	2	20.2	7.98	29	6.96	14.3	20.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4	15:52	Surface	1	1	20.2	7.97	28.7	7.27	15.5	20.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4	15:52	Surface	1	2	20.3	7.97	28.9	7.22	15.6	20.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4	15:52	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4	15:52	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4	15:52	Bottom	3	1	20	7.99	29	6.98	16.6	22.1
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	SR4	15:52	Bottom	3	2	20	8.01	29.1	7	16.4	21.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS8	15:26	Surface	1	1	20.2	7.98	28.7	7.09	14.9	19.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS8	15:26	Surface	1	2	20.2	7.99	28.7	7.12	15	20
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS8	15:26	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS8	15:26	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS8	15:26	Bottom	3	1	20.1	8.01	29.1	6.82	15.8	21.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS8	15:26	Bottom	3	2	20.2	8	29.2	6.8	15.6	20.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)16	15:00	Surface	1	1	20.3	7.99	29	7.11	14	18.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)16	15:00	Surface	1	2	20.4	8	29.1	7.08	13.8	18.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)16	15:00	Middle	2	1	20.2	8	28.9	6.98	15.6	20.6
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)16	15:00	Middle	2	2	20	8.01	29	7.01	15.5	21.2
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)16	15:00	Bottom	3	1	20	8	29.1	6.85	16	21.7
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)16	15:00	Bottom	3	2	20	8.01	29.1	6.9	16.1	22
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)9	14:34	Surface	1	1	20.2	7.96	28.8	7.16	15	20
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)9	14:34	Surface	1	2	20.4	7.97	28.8	7.19	15.1	20.5
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)9	14:34	Middle	2	1						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)9	14:34	Middle	2	2						
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)9	14:34	Bottom	3	1	20.1	8	29.2	6.92	15.4	21
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	IS(Mf)9	14:34	Bottom	3	2	20.1	7.98	29.3	6.88	15.3	20.4
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)5	16:46	Surface	1	1	20.3	7.97	28.8	7.2	13.9	18.5
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)5	16:46	Surface	1	2	20.3	7.97	28.9	7.24	13.3	17.1
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)5	16:46	Middle	2	1	20.1	8	29	7.01	14.5	19.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)5	16:46	Middle	2	2	20.2	7.99	29.1	6.97	14.6	19.8
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)5	16:46	Bottom	3	1	20.1	8.01	29.2	6.92	14.9	21.5
TMCLKL	HY/2012/07	09-04-2015	Mid-Ebb	CS(Mf)5	16:46	Bottom	3	2	20	8.01	29.1	6.89	14.8	21.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)5	9:14	Surface	1	1	20.3	8.02	29	7.27	14	21
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)5	9:14	Surface	1	2	20.2	8.03	29	7.24	14.2	21.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)5	9:14	Middle	2	1	20.1	8.03	29.4	7.08	14.4	20.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)5	9:14	Middle	2	2	20.2	8.04	29.3	7.05	14.3	17.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)5	9:14	Bottom	3	1	20.2	8.04	29.5	6.99	15.2	22.8
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)5	9:14	Bottom	3	2	20.2	8.04	29.5	6.95	15.1	21.1
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4a	9:44	Surface	1	1	20.3	8.03	29.1	7.34	14.7	17.6
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4a	9:44	Surface	1	2	20.3	8.03	29.1	7.3	14.9	20.9
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4a	9:44	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4a	9:44	Middle	2	2						
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4a	9:44	Bottom	3	1	20.2	8.05	29.4	7.1	15.2	21.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4a	9:44	Bottom	3	2	20.2	8.04	29.5	7.07	15.1	21.1
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4	10:09	Surface	1	1	20.3	8.05	29	7.24	14.3	21.5
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4	10:09	Surface	1	2	20.2	8.05	28.9	7.27	14.1	18.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4	10:09	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4	10:09	Middle	2	2						
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4	10:09	Bottom	3	1	20.1	8.05	29.3	7.18	14.7	22.1
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	SR4	10:09	Bottom	3	2	20.1	8.06	29.4	7.15	14.8	20.7
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS8	10:34	Surface	1	1	20.3	8.04	29.1	7.17	13.8	17.9
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS8	10:34	Surface	1	2	20.3	8.03	29.2	7.14	13.9	18.1
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS8	10:34	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS8	10:34	Middle	2	2						
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS8	10:34	Bottom	3	1	20.2	8.05	29.4	7.09	14.5	18.9
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS8	10:34	Bottom	3	2	20.2	8.05	29.5	7.06	14.3	20
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)16	10:52	Surface	1	1	20.2	8.05	29.1	7.25	14	18.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)16	10:52	Surface	1	2	20.3	8.06	29.2	7.21	14.1	16.9
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)16	10:52	Middle	2	1	20.2	8.06	29.4	7.09	15.1	22.7
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)16	10:52	Middle	2	2	20.1	8.07	29.4	7.07	15.2	22.8
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)16	10:52	Bottom	3	1	20.1	8.07	29.5	6.88	15.4	23.1
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)16	10:52	Bottom	3	2	20.1	8.07	29.5	6.84	15.6	21.8
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)9	11:22	Surface	1	1	20.3	8.06	29	7.34	15.4	21.6
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)9	11:22	Surface	1	2	20.4	8.07	28.9	7.38	15.2	24.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)9	11:22	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)9	11:22	Middle	2	2						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)9	11:22	Bottom	3	1	20.3	8.05	29.2	7.15	15.8	19
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	IS(Mf)9	11:22	Bottom	3	2	20.2	8.06	29.3	7.11	15.8	19
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)3	11:52	Surface	1	1	20.4	8.07	29.1	7.28	13.9	16.7
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)3	11:52	Surface	1	2	20.5	8.08	29.2	7.24	13.9	22.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)3	11:52	Middle	2	1	20.2	8.09	29.4	7.07	14.9	20.9
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)3	11:52	Middle	2	2	20.1	8.08	29.5	7.04	14.7	17.6
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)3	11:52	Bottom	3	1	20.1	8.09	29.5	7.02	15.1	21.1
TMCLKL	HY/2012/07	11-04-2015	Mid-Flood	CS(Mf)3	11:52	Bottom	3	2	20.1	8.09	29.5	7.05	15.3	21.4
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)3	15:55	Surface	1	1	20.5	8.04	29.2	7.27	15.8	20.5
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)3	15:55	Surface	1	2	20.6	8.03	29.1	7.24	15.9	22.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)3	15:55	Middle	2	1	20.4	8.06	29.3	6.98	16.9	23.7
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)3	15:55	Middle	2	2	20.3	8.07	29.4	6.95	16.8	21.8
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)3	15:55	Bottom	3	1	20.3	8.09	29.4	6.76	16.6	26.6
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)3	15:55	Bottom	3	2	20.2	8.1	29.5	6.72	16.5	21.5
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4a	18:05	Surface	1	1	20.4	8.02	29	7.12	14.1	19.7
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4a	18:05	Surface	1	2	20.5	8.03	29.1	7.15	14	16.8
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4a	18:05	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4a	18:05	Middle	2	2						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4a	18:05	Bottom	3	1	20.4	8.05	29.2	6.98	14.8	19.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4a	18:05	Bottom	3	2	20.3	8.04	29.3	7.02	14.9	20.9
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4	17:39	Surface	1	1	20.5	8.04	28.9	7.31	16.1	24.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4	17:39	Surface	1	2	20.4	8.05	29	7.27	16	20.8
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4	17:39	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4	17:39	Middle	2	2						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4	17:39	Bottom	3	1	20.3	8.06	29.2	6.99	16.9	23.7
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	SR4	17:39	Bottom	3	2	20.2	8.07	29.3	7.02	17.1	23.9
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS8	17:13	Surface	1	1	20.4	8.04	29	7.12	15.5	20.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS8	17:13	Surface	1	2	20.5	8.03	28.9	7.14	15.4	20
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS8	17:13	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS8	17:13	Middle	2	2						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS8	17:13	Bottom	3	1	20.4	8.06	29.3	6.84	16.3	19.6
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS8	17:13	Bottom	3	2	20.4	8.05	29.4	6.81	16.1	22.5
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)16	16:47	Surface	1	1	20.5	8.04	29	7.14	14.5	20.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)16	16:47	Surface	1	2	20.6	8.05	29.1	7.11	14.3	20
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)16	16:47	Middle	2	1	20.2	8.07	29.1	7.01	16.1	25.8
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)16	16:47	Middle	2	2	20.3	8.08	29.2	7.04	16	22.4
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)16	16:47	Bottom	3	1	20.3	8.08	29.4	6.87	16.5	24.8

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)16	16:47	Bottom	3	2	20.2	8.09	29.3	6.91	16.6	23.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)9	16:21	Surface	1	1	20.6	8.03	29	7.18	15.4	20
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)9	16:21	Surface	1	2	20.5	8.04	29.1	7.21	15.5	20.2
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)9	16:21	Middle	2	1						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)9	16:21	Middle	2	2						
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)9	16:21	Bottom	3	1	20.4	8.05	29.4	6.94	15.9	22.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	IS(Mf)9	16:21	Bottom	3	2	20.3	8.06	29.3	6.91	15.7	22
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)5	18:35	Surface	1	1	20.6	8.04	29	7.24	13.6	20.4
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)5	18:35	Surface	1	2	20.5	8.03	29.1	7.26	14.5	20.3
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)5	18:35	Middle	2	1	20.4	8.06	29.3	7.06	14.9	22.4
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)5	18:35	Middle	2	2	20.3	8.07	29.2	7.02	15.1	22.7
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)5	18:35	Bottom	3	1	20.3	8.07	29.3	6.94	15.4	18.5
TMCLKL	HY/2012/07	11-04-2015	Mid-Ebb	CS(Mf)5	18:35	Bottom	3	2	20.2	8.08	29.4	6.91	15.3	23
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)5	13:12	Surface	1	1	21.1	8.16	27.2	7.98	11.2	12.3
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)5	13:12	Surface	1	2	21	8.14	27	7.94	11	12.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)5	13:12	Middle	2	1	21.2	8.07	27.3	7.77	11.9	12.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)5	13:12	Middle	2	2	21	8.1	27.2	7.74	11.6	12.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)5	13:12	Bottom	3	1	21	8.17	27	7.7	11.9	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)5	13:12	Bottom	3	2	20.9	8.14	27.3	7.67	12.3	13.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4a	13:34	Surface	1	1	21	8.14	27.4	7.37	12.1	14.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4a	13:34	Surface	1	2	21.3	8.12	27.5	7.42	11.8	14.6
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4a	13:34	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4a	13:34	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4a	13:34	Bottom	3	1	21.3	8.09	27.1	7.26	12.5	15.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4a	13:34	Bottom	3	2	21.1	8.14	27	7.22	12.7	15.1
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4	14:00	Surface	1	1	21.3	8.16	27.5	7.11	11.8	13.6
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4	14:00	Surface	1	2	21	8.2	27.4	7.16	12	13.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4	14:00	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4	14:00	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4	14:00	Bottom	3	1	21.5	8.03	27.1	7.21	12.5	14.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	SR4	14:00	Bottom	3	2	21.3	8.07	27	7.17	12.2	15
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS8	14:23	Surface	1	1	21.3	8.2	27.2	7.04	11.5	13.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS8	14:23	Surface	1	2	21	8.21	27	7.07	11.7	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS8	14:23	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS8	14:23	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS8	14:23	Bottom	3	1	20.8	8.14	27.3	7.09	11.2	14.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS8	14:23	Bottom	3	2	20.7	8.17	27.1	7.1	11.1	15.1

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)16	14:55	Surface	1	1	21.3	8.1	26.9	6.97	10.9	11.3
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)16	14:55	Surface	1	2	21.6	8.12	27	6.95	11.1	11.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)16	14:55	Middle	2	1	21.4	8.09	27.1	6.92	11.2	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)16	14:55	Middle	2	2	21	8.07	27	6.97	11	13.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)16	14:55	Bottom	3	1	20.9	8.12	26.9	7.01	11.7	12.6
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)16	14:55	Bottom	3	2	20.7	8.09	27.2	6.96	11.9	12.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)9	15:21	Surface	1	1	21.3	8.17	27.3	7.06	11.8	12.3
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)9	15:21	Surface	1	2	21.2	8.19	27	7.02	11.6	12.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)9	15:21	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)9	15:21	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)9	15:21	Bottom	3	1	21.4	8.14	27.1	7.12	12.7	14.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	IS(Mf)9	15:21	Bottom	3	2	21.2	8.1	27	7.11	12.5	14.6
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)3	15:45	Surface	1	1	21.4	8.12	27.1	7.16	12.4	13.6
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)3	15:45	Surface	1	2	21.3	8.14	27.3	7.12	12.2	13.4
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)3	15:45	Middle	2	1	21.2	8.15	27.4	7.09	13.1	14.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)3	15:45	Middle	2	2	20.9	8.19	27.3	7.11	12.8	14.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)3	15:45	Bottom	3	1	20.7	8.09	27.2	7.07	13.7	15.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Flood	CS(Mf)3	15:45	Bottom	3	2	20.8	8.11	27	7.06	13.4	15.4
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)3	9:15	Surface	1	1	21.4	8.11	27	7.04	12.5	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)3	9:15	Surface	1	2	21.4	8.12	27.2	7	12.4	13.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)3	9:15	Middle	2	1	21.2	8.16	27.2	6.98	13.2	15.3
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)3	9:15	Middle	2	2	21	8.17	27.3	7.01	13	15.1
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)3	9:15	Bottom	3	1	20.6	8.1	27.1	6.96	13.9	15.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)3	9:15	Bottom	3	2	20.7	8.11	27.2	6.94	13.6	15.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4a	10:58	Surface	1	1	21.2	8.15	27.3	7.25	12.2	13.1
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4a	10:58	Surface	1	2	21.2	8.13	27.3	7.29	12	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4a	10:58	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4a	10:58	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4a	10:58	Bottom	3	1	21.3	8.1	27	7.12	12.7	14.8
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4a	10:58	Bottom	3	2	21.2	8.12	27.2	7.1	12.8	14.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4	10:35	Surface	1	1	21.3	8.15	27.6	7	12	15.3
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4	10:35	Surface	1	2	21.2	8.18	27.5	7.05	12.1	14.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4	10:35	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4	10:35	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4	10:35	Bottom	3	1	21.5	8.02	27.2	7.1	12.6	14.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	SR4	10:35	Bottom	3	2	21.4	8.04	27.2	7.12	12.4	14.6
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS8	10:15	Surface	1	1	21.4	8.21	27.2	6.92	11.7	13.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS8	10:15	Surface	1	2	21.2	8.22	27.2	6.95	11.8	13.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS8	10:15	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS8	10:15	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS8	10:15	Bottom	3	1	21	8.15	27.2	6.98	11.4	15.3
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS8	10:15	Bottom	3	2	20.9	8.16	27.1	7	11.3	14.9
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)16	9:55	Surface	1	1	21.4	8.09	27	6.84	11.1	13.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)16	9:55	Surface	1	2	21.5	8.1	27.1	6.81	11.2	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)16	9:55	Middle	2	1	21.4	8.1	27.2	6.8	11.3	14.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)16	9:55	Middle	2	2	21.2	8.09	27.1	6.83	11.2	14.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)16	9:55	Bottom	3	1	21	8.11	27	6.9	11.9	16.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)16	9:55	Bottom	3	2	20.9	8.1	27	6.86	12	16.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)9	9:35	Surface	1	1	21.3	8.18	27.2	6.94	12	13.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)9	9:35	Surface	1	2	21.3	8.18	27.1	6.91	11.8	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)9	9:35	Middle	2	1						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)9	9:35	Middle	2	2						
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)9	9:35	Bottom	3	1	21.3	8.13	27	7.01	12.8	14.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	IS(Mf)9	9:35	Bottom	3	2	21.4	8.12	27	6.98	12.6	14.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)5	11:22	Surface	1	1	21	8.14	27	7.86	11.4	13.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)5	11:22	Surface	1	2	20.9	8.15	27.1	7.83	11.2	12
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)5	11:22	Middle	2	1	21.1	8.05	27.2	7.66	12	13.2
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)5	11:22	Middle	2	2	21	8.07	27	7.64	11.8	13.5
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)5	11:22	Bottom	3	1	21	8.15	27.2	7.59	12.1	14.7
TMCLKL	HY/2012/07	14-04-2015	Mid-Ebb	CS(Mf)5	11:22	Bottom	3	2	21	8.14	27.1	7.57	12.2	14.9
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)5	15:23	Surface	1	1	21.2	8.18	27	7.89	10.1	15.2
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)5	15:23	Surface	1	2	21.1	8.16	27.1	7.86	10.3	15.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)5	15:23	Middle	2	1	21.3	8.12	27.1	7.63	11.2	16.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)5	15:23	Middle	2	2	21.2	8.14	27.2	7.66	11.3	18.1
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)5	15:23	Bottom	3	1	21.2	8.17	27.3	7.57	11.6	16.2
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)5	15:23	Bottom	3	2	21.1	8.17	27.4	7.56	11.7	15.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4a	15:49	Surface	1	1	21.1	8.16	27.2	7.23	10.8	13
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4a	15:49	Surface	1	2	21.2	8.17	27.1	7.25	10.6	15.9
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4a	15:49	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4a	15:49	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4a	15:49	Bottom	3	1	21.3	8.2	27.2	7.18	11.1	13.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4a	15:49	Bottom	3	2	21.2	8.17	27.3	7.17	11.3	15.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4	16:05	Surface	1	1	21.2	8.16	27.3	7.13	10.3	12.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4	16:05	Surface	1	2	21.1	8.14	27.4	7.16	10.4	15.6

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4	16:05	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4	16:05	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4	16:05	Bottom	3	1	21.3	8.11	27.4	7.19	10.8	16.2
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	SR4	16:05	Bottom	3	2	21.4	8.13	27.5	7.2	10.9	16.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS8	16:26	Surface	1	1	21.2	8.2	27.1	7.18	10.3	15.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS8	16:26	Surface	1	2	21.3	8.21	27	7.16	10.5	14.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS8	16:26	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS8	16:26	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS8	16:26	Bottom	3	1	21.2	8.23	27.2	7.14	9.8	14.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS8	16:26	Bottom	3	2	21.3	8.24	27.3	7.17	9.9	12.9
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)16	16:47	Surface	1	1	21.2	8.13	27.2	7.08	9.9	15.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)16	16:47	Surface	1	2	21.3	8.11	27.1	7.11	9.6	14.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)16	16:47	Middle	2	1	21.4	8.17	27.2	7.11	9.8	12.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)16	16:47	Middle	2	2	21.5	8.18	27.2	7.13	9.9	13.9
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)16	16:47	Bottom	3	1	21.1	8.13	27.3	7.05	10.3	14.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)16	16:47	Bottom	3	2	21.2	8.15	27.2	7.07	10.2	16.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)9	17:11	Surface	1	1	21.1	8.18	27.1	7.11	10.2	12.2
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)9	17:11	Surface	1	2	21.2	8.19	27	7.14	10.3	15.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)9	17:11	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)9	17:11	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)9	17:11	Bottom	3	1	21.3	8.21	27.2	7.09	10.6	13.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	IS(Mf)9	17:11	Bottom	3	2	21.4	8.22	27.1	7.1	10.8	17.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)3	17:41	Surface	1	1	21.1	8.11	27	7.18	10.9	17.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)3	17:41	Surface	1	2	21.2	8.13	27.1	7.19	10.7	16.1
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)3	17:41	Middle	2	1	21.3	8.16	27.2	7.14	11.3	15.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)3	17:41	Middle	2	2	21.2	8.17	27.1	7.16	11.1	15.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)3	17:41	Bottom	3	1	21.4	8.19	27.3	7.1	11.8	15.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Flood	CS(Mf)3	17:41	Bottom	3	2	21.5	8.21	27.4	7.13	11.6	17.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)3	10:10	Surface	1	1	21.4	8.17	27.1	7.1	11.6	18.6
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)3	10:10	Surface	1	2	21.5	8.18	27.2	7.06	11.5	16.1
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)3	10:10	Middle	2	1	21.2	8.22	27.3	7.04	12.3	17.2
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)3	10:10	Middle	2	2	21.1	8.22	27.4	7.07	12.1	15.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)3	10:10	Bottom	3	1	20.8	8.16	27.2	7.02	13	19.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)3	10:10	Bottom	3	2	20.9	8.17	27.3	7	12.7	17.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4a	12:20	Surface	1	1	21.3	8.21	27.3	7.16	11.3	14.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4a	12:20	Surface	1	2	21.2	8.19	27.4	7.2	11.1	14.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4a	12:20	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4a	12:20	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4a	12:20	Bottom	3	1	21.4	8.16	27.1	6.97	11.8	16.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4a	12:20	Bottom	3	2	21.3	8.18	27.2	7.01	11.9	15.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4	11:54	Surface	1	1	21.3	8.21	27.6	7.06	11.1	14.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4	11:54	Surface	1	2	21.4	8.24	27.7	7.11	11.2	15.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4	11:54	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4	11:54	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4	11:54	Bottom	3	1	21.6	8.08	27.3	7.16	11.7	16.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	SR4	11:54	Bottom	3	2	21.5	8.1	27.2	7.18	11.5	15
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS8	11:28	Surface	1	1	21.4	8.25	27.2	6.98	10.8	17.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS8	11:28	Surface	1	2	21.3	8.26	27.3	7.01	10.9	17.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS8	11:28	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS8	11:28	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS8	11:28	Bottom	3	1	21.1	8.21	27.3	7.04	10.5	14.7
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS8	11:28	Bottom	3	2	21.1	8.22	27.4	7.06	10.4	15.6
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)16	11:02	Surface	1	1	21.6	8.15	27.1	6.9	10.2	13.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)16	11:02	Surface	1	2	21.5	8.16	27.2	6.87	10.3	13.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)16	11:02	Middle	2	1	21.3	8.16	27.3	6.86	10.4	13.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)16	11:02	Middle	2	2	21.4	8.17	27.2	6.89	10.3	14.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)16	11:02	Bottom	3	1	21.1	8.16	27.1	6.96	11	15.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)16	11:02	Bottom	3	2	21.2	8.17	27	6.92	11.1	14.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)9	10:36	Surface	1	1	21.4	8.24	27.2	7	11.1	15.5
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)9	10:36	Surface	1	2	21.3	8.23	27.3	6.97	10.9	13.1
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)9	10:36	Middle	2	1						
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)9	10:36	Middle	2	2						
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)9	10:36	Bottom	3	1	21.5	8.19	27	7.07	11.9	14.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	IS(Mf)9	10:36	Bottom	3	2	21.4	8.2	27.1	7.04	11.7	15.2
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)5	12:50	Surface	1	1	21.1	8.2	27.1	7.77	10.5	15.8
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)5	12:50	Surface	1	2	21	8.21	27.2	7.74	10.3	14.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)5	12:50	Middle	2	1	21.1	8.11	27.3	7.57	11.1	13.3
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)5	12:50	Middle	2	2	21.2	8.13	27.2	7.55	10.9	16.4
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)5	12:50	Bottom	3	1	21.1	8.21	27.2	7.5	11.2	14.6
TMCLKL	HY/2012/07	16-04-2015	Mid-Ebb	CS(Mf)5	12:50	Bottom	3	2	21	8.2	27.3	7.48	11.3	14.7
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)5	17:12	Surface	1	1	21.1	7.94	28	7.62	10.9	14.5
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)5	17:12	Surface	1	2	21.2	7.92	28.1	7.6	11.1	15.3
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)5	17:12	Middle	2	1	21.3	8	28.2	7.43	12.3	16.5
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)5	17:12	Middle	2	2	21.3	8.02	28.3	7.45	12.5	16.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)5	17:12	Bottom	3	1	21.4	8.13	28.4	7.36	13.1	17.9
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)5	17:12	Bottom	3	2	21.5	8.11	28.4	7.34	13.2	17.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4a	17:38	Surface	1	1	21	8.04	28.1	7.33	11.2	14.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4a	17:38	Surface	1	2	21	8.06	28.2	7.35	11.4	15.2
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4a	17:38	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4a	17:38	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4a	17:38	Bottom	3	1	21.1	8.13	28.3	7.26	11.6	16.1
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4a	17:38	Bottom	3	2	21.2	8.15	28.3	7.24	11.8	16
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4	17:56	Surface	1	1	21.1	7.94	28.3	7.24	10.9	14.5
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4	17:56	Surface	1	2	21.1	7.92	28.2	7.22	11.1	14.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4	17:56	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4	17:56	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4	17:56	Bottom	3	1	21.2	8.03	28.4	7.09	11.4	16.1
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	SR4	17:56	Bottom	3	2	21.3	8.05	28.5	7.07	11.6	16.3
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS8	18:18	Surface	1	1	21	8.12	28.1	7.17	11.2	15.1
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS8	18:18	Surface	1	2	21	8.1	28.2	7.15	11.4	15.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS8	18:18	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS8	18:18	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS8	18:18	Bottom	3	1	21.1	8.03	25.3	7.03	12.6	17.1
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS8	18:18	Bottom	3	2	21.2	8.01	25.3	7.05	12.8	19
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)16	18:41	Surface	1	1	21.1	8	28	7.09	9.9	13.2
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)16	18:41	Surface	1	2	21.2	7.98	28	7.07	10.1	13.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)16	18:41	Middle	2	1	21.3	7.83	28.1	6.94	10.4	13.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)16	18:41	Middle	2	2	21.4	7.85	28.2	6.92	10.6	14.7
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)16	18:41	Bottom	3	1	21.5	8.09	28.3	6.75	12.3	16.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)16	18:41	Bottom	3	2	21.4	8.11	28.3	6.77	12.1	15.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)9	19:10	Surface	1	1	20.9	7.83	28.1	7.03	11.3	15
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)9	19:10	Surface	1	2	21	7.85	28.2	7.05	11.5	15.3
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)9	19:10	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)9	19:10	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)9	19:10	Bottom	3	1	21.1	8.06	28.3	6.92	12.6	17.2
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	IS(Mf)9	19:10	Bottom	3	2	21.2	8.08	28.3	6.94	12.8	17.5
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)3	19:30	Surface	1	1	21	8.06	27.9	7.13	10.4	13.9
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)3	19:30	Surface	1	2	21.1	8.08	28	7.11	10.6	14.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)3	19:30	Middle	2	1	21.2	8.13	28.1	6.95	11.3	15.3
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)3	19:30	Middle	2	2	21.3	8.11	28.2	6.97	11.1	14.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)3	19:30	Bottom	3	1	21.4	6.99	28.3	6.83	13.4	18.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	18-04-2015	Mid-Flood	CS(Mf)3	19:30	Bottom	3	2	21.5	6.97	28.4	6.81	13.2	17.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)3	11:28	Surface	1	1	21	8.12	27.8	6.93	8.97	12.1
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)3	11:28	Surface	1	2	21	8.14	27.9	6.9	9.04	12.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)3	11:28	Middle	2	1	21	8.08	28	6.72	9.43	12.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)3	11:28	Middle	2	2	21.1	8.1	28	6.71	9.52	13
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)3	11:28	Bottom	3	1	21.2	8.01	28.1	6.77	11.4	15.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)3	11:28	Bottom	3	2	21.2	8.02	28.2	6.79	10.8	14.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4a	13:05	Surface	1	1	21	8.02	27.9	7.18	10.2	13.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4a	13:05	Surface	1	2	21	8.02	28	7.2	10.9	14.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4a	13:05	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4a	13:05	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4a	13:05	Bottom	3	1	21	8.09	28.1	7.13	10.7	14.3
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4a	13:05	Bottom	3	2	21.1	8.1	28.1	7.1	11.3	15.3
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4	12:47	Surface	1	1	21	7.97	28.1	7.13	9.87	13.2
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4	12:47	Surface	1	2	21.1	7.98	28.1	7.1	9.96	13.5
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4	12:47	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4	12:47	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4	12:47	Bottom	3	1	21.1	8	28.1	7.03	10.4	14.1
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	SR4	12:47	Bottom	3	2	21.1	8.01	28.2	7	11.3	15.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS8	12:30	Surface	1	1	21	8.07	28	7.05	10.2	13.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS8	12:30	Surface	1	2	21	8.09	28	7.02	10.9	14.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS8	12:30	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS8	12:30	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS8	12:30	Bottom	3	1	21	8.09	28.1	6.96	11.1	15
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS8	12:30	Bottom	3	2	21.1	8.11	28.1	6.92	11.7	16
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)16	12:09	Surface	1	1	21	7.99	27.8	6.91	9.57	12.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)16	12:09	Surface	1	2	20.9	8.01	27.9	6.89	9.63	13
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)16	12:09	Middle	2	1	21	7.95	27.9	6.85	9.87	13.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)16	12:09	Middle	2	2	21.1	7.96	28	6.81	9.94	14
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)16	12:09	Bottom	3	1	21.2	7.97	28.1	6.72	11.2	15.2
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)16	12:09	Bottom	3	2	21.2	7.99	28.2	6.74	11.9	16.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)9	11:51	Surface	1	1	21	7.94	27.9	6.87	9.36	12.6
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)9	11:51	Surface	1	2	21	7.96	28	6.89	9.42	12.8
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)9	11:51	Middle	2	1						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)9	11:51	Middle	2	2						
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)9	11:51	Bottom	3	1	21	7.99	28	6.7	10.6	14.1
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	IS(Mf)9	11:51	Bottom	3	2	21	8	28.1	6.73	11.2	15.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)5	13:31	Surface	1	1	21	7.95	28	7.43	9.87	13
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)5	13:31	Surface	1	2	21.1	7.97	28	7.46	9.96	13.3
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)5	13:31	Middle	2	1	21.1	7.99	28.1	7.38	10.6	14.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)5	13:31	Middle	2	2	21.2	8	28.1	7.35	10.1	13.7
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)5	13:31	Bottom	3	1	21.3	8.05	28.2	7.17	11.6	16.4
TMCLKL	HY/2012/07	18-04-2015	Mid-Ebb	CS(Mf)5	13:31	Bottom	3	2	21.3	8.07	28.3	7.14	12.2	16.5
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)5	7:50	Surface	1	1	20.9	8.07	28	7.34	10.9	14.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)5	7:50	Surface	1	2	20.9	8.08	28.1	7.37	10.8	14
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)5	7:50	Middle	2	1	21.1	8.08	28.3	7.07	12.4	17.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)5	7:50	Middle	2	2	21	8.09	28.3	7.1	12.4	16.1
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)5	7:50	Bottom	3	1	21.1	8.1	28.4	6.95	12.1	19.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)5	7:50	Bottom	3	2	21.1	8.1	28.3	6.91	12.1	19.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4a	8:15	Surface	1	1	20.9	8.1	28	7.45	11.3	18.1
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4a	8:15	Surface	1	2	21	8.09	28	7.49	11.1	14.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4a	8:15	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4a	8:15	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4a	8:15	Bottom	3	1	21	8.11	28.1	7.02	12.5	18.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4a	8:15	Bottom	3	2	21	8.11	28.2	7.05	12.4	19.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4	8:28	Surface	1	1	20.9	8.12	28	7.18	11.2	17.9
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4	8:28	Surface	1	2	20.8	8.12	28	7.14	11.1	14.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4	8:28	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4	8:28	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4	8:28	Bottom	3	1	21.1	8.12	28.2	6.94	12.2	18.3
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	SR4	8:28	Bottom	3	2	21.2	8.11	28.1	6.9	12.1	18.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS8	8:42	Surface	1	1	20.9	8.12	28	7.34	10.8	16.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS8	8:42	Surface	1	2	21	8.12	28.1	7.37	10.9	14.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS8	8:42	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS8	8:42	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS8	8:42	Bottom	3	1	21.1	8.13	28.3	6.95	11.9	17.9
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS8	8:42	Bottom	3	2	21.1	8.12	28.3	6.98	12	18
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)16	8:56	Surface	1	1	21	8.13	28	7.29	11.1	14.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)16	8:56	Surface	1	2	20.9	8.12	28.1	7.25	11.3	15.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)16	8:56	Middle	2	1	21	8.13	28.2	7.01	11.7	17.6
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)16	8:56	Middle	2	2	21.1	8.14	28.1	7.05	11.7	15.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)16	8:56	Bottom	3	1	21.1	8.13	28.2	6.86	12.4	17.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)16	8:56	Bottom	3	2	21.2	8.12	28.2	6.84	12.2	15.9
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)9	9:15	Surface	1	1	21	8.13	28.1	7.1	12.2	14.6

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)9	9:15	Surface	1	2	21	8.12	28.1	7.06	12.1	16.9
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)9	9:15	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)9	9:15	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)9	9:15	Bottom	3	1	21.2	8.13	28.2	6.88	12.4	18.6
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	IS(Mf)9	9:15	Bottom	3	2	21.2	8.14	28.3	6.84	12.4	16.1
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)3	9:35	Surface	1	1	21	8.13	28	7.21	11.8	15.3
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)3	9:35	Surface	1	2	20.9	8.13	28.1	7.17	11.7	17.6
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)3	9:35	Middle	2	1	21	8.14	28.3	7.02	12.5	18.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)3	9:35	Middle	2	2	21.1	8.13	28.2	6.99	12.4	16.1
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)3	9:35	Bottom	3	1	21.2	8.14	28.3	6.9	12.7	17.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Flood	CS(Mf)3	9:35	Bottom	3	2	21.1	8.15	28.4	6.95	12.5	17.5
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)3	13:03	Surface	1	1	21.1	8.12	28	7.04	11	16.5
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)3	13:03	Surface	1	2	21.2	8.14	28.1	7.02	11.2	15.7
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)3	13:03	Middle	2	1	21.4	8.19	28.3	6.86	11.9	16.7
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)3	13:03	Middle	2	2	21.3	8.17	28.2	6.88	11.7	16.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)3	13:03	Bottom	3	1	21.6	7.05	28.4	6.74	14	19.6
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)3	13:03	Bottom	3	2	21.5	7.03	28.5	6.72	13.8	20.7
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4a	15:13	Surface	1	1	21.1	8.1	28.2	7.24	11.8	14.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4a	15:13	Surface	1	2	21	8.12	28.3	7.26	12	18
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4a	15:13	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4a	15:13	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4a	15:13	Bottom	3	1	21.3	8.19	28.4	7.17	12.2	14.6
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4a	15:13	Bottom	3	2	21.2	8.21	28.3	7.15	12.4	17.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4	14:47	Surface	1	1	21.1	8	28.3	7.15	11.5	18.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4	14:47	Surface	1	2	21.2	7.98	28.4	7.13	11.7	15.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4	14:47	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4	14:47	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4	14:47	Bottom	3	1	21.4	8.09	28.6	7	12	16.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	SR4	14:47	Bottom	3	2	21.4	8.11	28.5	6.98	12.2	17.1
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS8	14:21	Surface	1	1	21.1	8.18	28.2	7.08	11.8	17.7
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS8	14:21	Surface	1	2	21	8.16	28.3	7.06	12	15.6
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS8	14:21	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS8	14:21	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS8	14:21	Bottom	3	1	21.3	8.09	28.3	6.94	13.2	19.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS8	14:21	Bottom	3	2	21.3	8.07	28.4	6.96	13.4	18.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)16	13:55	Surface	1	1	21.2	8.06	28	7	10.5	15.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)16	13:55	Surface	1	2	21.3	8.04	28.1	6.98	10.7	16.1

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)16	13:55	Middle	2	1	21.5	7.89	28.3	6.85	11	16.5
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)16	13:55	Middle	2	2	21.6	7.91	28.2	6.83	11.2	15.7
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)16	13:55	Bottom	3	1	21.6	8.15	28.3	6.66	12.9	16.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)16	13:55	Bottom	3	2	21.5	8.17	28.4	6.68	12.7	17.8
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)9	13:29	Surface	1	1	21.1	7.89	28.3	6.94	11.9	19
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)9	13:29	Surface	1	2	21	7.91	28.2	6.96	12.1	16.9
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)9	13:29	Middle	2	1						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)9	13:29	Middle	2	2						
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)9	13:29	Bottom	3	1	21.2	8.12	28.3	6.83	13.2	17.2
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	IS(Mf)9	13:29	Bottom	3	2	21.3	8.14	28.4	6.85	13.4	16.1
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)5	15:43	Surface	1	1	21.2	8	28.1	7.53	11.5	16.1
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)5	15:43	Surface	1	2	21.3	7.98	28.2	7.51	11.7	14
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)5	15:43	Middle	2	1	21.4	8.06	28.4	7.34	12.9	20.6
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)5	15:43	Middle	2	2	21.3	8.08	28.3	7.36	13.1	15.7
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)5	15:43	Bottom	3	1	21.6	8.19	28.4	7.27	13.7	16.4
TMCLKL	HY/2012/07	21-04-2015	Mid-Ebb	CS(Mf)5	15:43	Bottom	3	2	21.5	8.17	28.5	7.25	13.8	20.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)5	8:34	Surface	1	1	21.4	7.99	28	7.24	9.94	11.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)5	8:34	Surface	1	2	21.5	8.01	27.9	7.21	10.1	11
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)5	8:34	Middle	2	1	21.5	8.03	28.1	7.13	11.2	15.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)5	8:34	Middle	2	2	21.6	8.04	28.2	7.11	11.8	14.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)5	8:34	Bottom	3	1	21.7	8.12	28.3	6.93	12.5	15
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)5	8:34	Bottom	3	2	21.8	8.13	28.4	6.89	13.1	16.2
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4a	9:04	Surface	1	1	21.4	8.07	28	7.34	10.6	12.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4a	9:04	Surface	1	2	21.4	8.09	28	7.31	11.2	12.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4a	9:04	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4a	9:04	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4a	9:04	Bottom	3	1	21.4	8.12	28.1	7.23	11.9	14.1
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4a	9:04	Bottom	3	2	21.5	8.14	28.1	7.2	12.3	12.2
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4	9:22	Surface	1	1	21.4	8.07	27.9	7.23	10.2	13.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4	9:22	Surface	1	2	21.5	8.09	28	7.19	10.9	12.5
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4	9:22	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4	9:22	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4	9:22	Bottom	3	1	21.5	8.1	28	7.03	11.7	14.3
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	SR4	9:22	Bottom	3	2	21.6	8.11	28.1	7	12.2	14.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS8	9:40	Surface	1	1	21.5	8.09	28	7.17	9.93	14.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS8	9:40	Surface	1	2	21.5	8.1	28	7.14	10.1	14.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS8	9:40	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS8	9:40	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS8	9:40	Bottom	3	1	21.5	8.07	28.1	7.01	10.7	16.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS8	9:40	Bottom	3	2	21.5	8.08	28.1	6.98	11.3	16.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)16	10:00	Surface	1	1	21.5	8.1	28.1	7.12	10.7	12.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)16	10:00	Surface	1	2	21.5	8.11	28.1	7.1	11.5	13.6
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)16	10:00	Middle	2	1	21.5	8.14	28.1	7.02	11.7	16.2
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)16	10:00	Middle	2	2	21.6	8.13	28.2	6.97	12.1	16.2
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)16	10:00	Bottom	3	1	21.6	8.09	28.2	6.77	12.3	13.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)16	10:00	Bottom	3	2	21.6	8.11	28.3	6.81	12.8	13.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)9	10:22	Surface	1	1	21.5	8.1	28	7.03	11.3	13.2
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)9	10:22	Surface	1	2	21.6	8.11	28.1	7.01	12	14.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)9	10:22	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)9	10:22	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)9	10:22	Bottom	3	1	21.6	8.11	28.2	6.93	12.3	14.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	IS(Mf)9	10:22	Bottom	3	2	21.5	8.12	28.2	6.91	12.9	15.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)3	10:41	Surface	1	1	21.5	8.09	28	7.16	10.7	15.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)3	10:41	Surface	1	2	21.6	8.11	28	7.13	11.4	14.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)3	10:41	Middle	2	1	21.6	8.12	28.1	7.07	12.2	15.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)3	10:41	Middle	2	2	21.6	8.12	28.2	7.04	12.9	14.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)3	10:41	Bottom	3	1	21.7	8.13	28.4	6.86	13.4	15.5
TMCLKL	HY/2012/07	23-04-2015	Mid-Flood	CS(Mf)3	10:41	Bottom	3	2	21.7	8.15	28.5	6.89	13.8	14.6
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)3	14:27	Surface	1	1	21.4	8.08	28.1	7.04	10.9	12.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)3	14:27	Surface	1	2	21.6	8.1	28	7.01	11.5	14.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)3	14:27	Middle	2	1	21.5	8.1	28	6.96	12.4	14.3
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)3	14:27	Middle	2	2	21.5	8.11	28.1	6.92	13	15.5
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)3	14:27	Bottom	3	1	21.6	8.11	28.2	6.74	13.9	16.1
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)3	14:27	Bottom	3	2	21.7	8.13	28.3	6.77	13.6	16.2
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4a	16:39	Surface	1	1	21.2	8.08	28.1	7.22	10.8	14.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4a	16:39	Surface	1	2	21.3	8.09	28	7.19	11.3	14.6
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4a	16:39	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4a	16:39	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4a	16:39	Bottom	3	1	21.3	8.1	28	7.11	12	13.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4a	16:39	Bottom	3	2	21.4	8.12	28.1	7.08	12.4	15.6
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4	16:12	Surface	1	1	21.5	8.08	28	7.1	10.4	12.6
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4	16:12	Surface	1	2	21.5	8.1	28.1	7.07	11	11.5
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4	16:12	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4	16:12	Middle	2	2						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4	16:12	Bottom	3	1	21.4	8.11	28.2	6.92	12.3	15.3
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	SR4	16:12	Bottom	3	2	21.5	8.12	28.1	6.89	12	13.1
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS8	15:48	Surface	1	1	21.6	8.11	28.1	7.05	10.1	12.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS8	15:48	Surface	1	2	21.5	8.09	28	7.02	10.2	11.3
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS8	15:48	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS8	15:48	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS8	15:48	Bottom	3	1	21.4	8.05	28	6.84	11.4	15.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS8	15:48	Bottom	3	2	21.5	8.07	28.1	6.9	11	17.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)16	15:19	Surface	1	1	21.4	8.09	28	7.01	11.3	14.1
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)16	15:19	Surface	1	2	21.5	8.1	28.1	6.96	11.1	15.3
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)16	15:19	Middle	2	1	21.6	8.13	28.2	6.91	12.1	15.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)16	15:19	Middle	2	2	21.6	8.11	28.2	6.86	12.4	15
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)16	15:19	Bottom	3	1	21.5	8.1	28.2	6.64	12.7	16.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)16	15:19	Bottom	3	2	21.6	8.12	28.3	6.69	12.6	16.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)9	14:52	Surface	1	1	21.4	8.09	28.1	6.9	11.4	14.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)9	14:52	Surface	1	2	21.5	8.1	28	6.86	12.2	14
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)9	14:52	Middle	2	1						
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)9	14:52	Middle	2	2						
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)9	14:52	Bottom	3	1	21.5	8.1	28.1	6.81	12.6	13.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	IS(Mf)9	14:52	Bottom	3	2	21.4	8.11	28.2	6.78	13	14.7
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)5	17:08	Surface	1	1	21.5	8	28	7.11	10	11.4
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)5	17:08	Surface	1	2	21.5	7.99	28	7.07	10.2	12.3
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)5	17:08	Middle	2	1	21.4	8.01	28.1	7.02	11.3	13.9
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)5	17:08	Middle	2	2	21.5	8.02	28.1	6.97	11.9	11.8
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)5	17:08	Bottom	3	1	21.6	8.1	28.2	6.81	12.7	15.2
TMCLKL	HY/2012/07	23-04-2015	Mid-Ebb	CS(Mf)5	17:08	Bottom	3	2	21.8	8.12	28.3	6.78	13.2	15.3
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)5	09:48	Surface	1	1	21.6	8.05	28.1	7.3	9	12.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)5	09:48	Surface	1	2	21.5	8.07	28	7.27	9.2	12
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)5	09:48	Middle	2	1	21.7	8.09	28.2	7.19	10.3	14.3
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)5	09:48	Middle	2	2	21.6	8.1	28.3	7.17	10.9	16.5
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)5	09:48	Bottom	3	1	21.8	8.18	28.4	6.99	11.6	15.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)5	09:48	Bottom	3	2	21.9	8.19	28.5	6.95	12.2	17
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4a	10:10	Surface	1	1	21.4	8.13	28	7.4	9.7	14.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4a	10:10	Surface	1	2	21.5	8.15	28.1	7.37	10.3	15.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4a	10:10	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4a	10:10	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4a	10:10	Bottom	3	1	21.6	8.18	28.2	7.29	11	13.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4a	10:10	Bottom	3	2	21.5	8.2	28.1	7.26	11.4	14.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4	10:32	Surface	1	1	21.6	8.13	28.1	7.29	9.3	11.2
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4	10:32	Surface	1	2	21.6	8.15	28	7.25	10	12.9
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4	10:32	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4	10:32	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4	10:32	Bottom	3	1	21.6	8.16	28.1	7.09	10.8	16.2
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	SR4	10:32	Bottom	3	2	21.7	8.17	28.2	7.06	11.3	16.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS8	10:54	Surface	1	1	21.6	8.15	28	7.23	9.1	11.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS8	10:54	Surface	1	2	21.5	8.16	28.1	7.2	9.2	13.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS8	10:54	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS8	10:54	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS8	10:54	Bottom	3	1	21.6	8.13	28.2	7.07	9.8	12.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS8	10:54	Bottom	3	2	21.6	8.14	28.1	7.04	10.4	14.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)16	11:16	Surface	1	1	21.5	8.16	28.1	7.18	9.8	14.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)16	11:16	Surface	1	2	21.6	8.17	28.2	7.16	10.6	13.9
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)16	11:16	Middle	2	1	21.7	8.2	28.2	7.08	10.8	16.2
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)16	11:16	Middle	2	2	21.7	8.19	28.3	7.03	11.2	15.1
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)16	11:16	Bottom	3	1	21.7	8.15	28.4	6.83	11.4	16.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)16	11:16	Bottom	3	2	21.6	8.17	28.3	6.87	11.9	17
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)9	11:38	Surface	1	1	21.7	8.16	28.1	7.09	10.4	14.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)9	11:38	Surface	1	2	21.6	8.17	28.2	7.07	11.1	14.3
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)9	11:38	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)9	11:38	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)9	11:38	Bottom	3	1	21.7	8.17	28.3	6.99	11.4	14.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	IS(Mf)9	11:38	Bottom	3	2	21.7	8.18	28.2	6.97	12	14.3
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)3	12:00	Surface	1	1	21.7	8.15	28	7.22	9.8	14.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)3	12:00	Surface	1	2	21.6	8.17	28.1	7.19	10.5	13.9
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)3	12:00	Middle	2	1	21.7	8.18	28.2	7.13	11.3	18.1
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)3	12:00	Middle	2	2	21.7	8.19	28.3	7.1	12	16.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)3	12:00	Bottom	3	1	21.8	8.19	28.6	6.92	12.5	15.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Flood	CS(Mf)3	12:00	Bottom	3	2	21.7	8.2	28.5	6.95	12.9	16
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)3	16:12	Surface	1	1	21.8	8.11	28.1	7.13	10.3	13.4
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)3	16:12	Surface	1	2	21.9	8.12	28.1	7.11	11.1	14.3
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)3	16:12	Middle	2	1	21.8	8.15	28.3	7.07	12.2	18.3
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)3	16:12	Middle	2	2	21.8	8.16	28.3	7.04	12.9	16
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)3	16:12	Bottom	3	1	21.9	8.18	28.5	6.92	13.3	21
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)3	16:12	Bottom	3	2	21.9	8.19	28.6	6.88	13.8	18.6

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4a	18:00	Surface	1	1	21.9	8.09	28.1	7.28	10.6	12.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4a	18:00	Surface	1	2	22	8.11	28.2	7.25	11.3	12.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4a	18:00	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4a	18:00	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4a	18:00	Bottom	3	1	22	8.15	28.2	7.17	11.9	15.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4a	18:00	Bottom	3	2	22	8.16	28.2	7.13	12.5	14.7
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4	17:40	Surface	1	1	21.9	8.09	28.1	7.2	10	12
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4	17:40	Surface	1	2	22	8.11	28.1	7.17	10.9	12.1
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4	17:40	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4	17:40	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4	17:40	Bottom	3	1	22	8.13	28.2	7.11	12.1	14.2
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	SR4	17:40	Bottom	3	2	22	8.14	28.3	7.06	12.8	14.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS8	17:21	Surface	1	1	21.9	8.09	28.1	7.13	9.8	11.8
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS8	17:21	Surface	1	2	21.9	8.11	28.2	7.09	10.5	11.9
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS8	17:21	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS8	17:21	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS8	17:21	Bottom	3	1	21.9	8.09	28.2	6.96	11.6	15.1
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS8	17:21	Bottom	3	2	22	8.1	28.3	6.92	12.3	17.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)16	16:59	Surface	1	1	21.9	8.13	28.2	7.1	10.2	14.3
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)16	16:59	Surface	1	2	21.9	8.14	28.2	7.07	11.1	13.4
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)16	16:59	Middle	2	1	21.9	8.15	28.3	7.01	11	13.2
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)16	16:59	Middle	2	2	22	8.16	28.3	6.97	11.8	13
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)16	16:59	Bottom	3	1	22	8.14	28.4	6.82	12.4	18.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)16	16:59	Bottom	3	2	22.1	8.16	28.5	6.79	13.1	17.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)9	16:38	Surface	1	1	21.9	8.1	28.2	7.03	11.6	18.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)9	16:38	Surface	1	2	21.9	8.12	28.1	6.99	12.2	18.1
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)9	16:38	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)9	16:38	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)9	16:38	Bottom	3	1	21.8	8.13	28.2	6.92	12.8	15.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	IS(Mf)9	16:38	Bottom	3	2	21.9	8.14	28.3	6.89	13.3	16.9
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)5	18:24	Surface	1	1	22	8.08	28.2	7.2	9.9	13
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)5	18:24	Surface	1	2	21.9	8.09	28.2	7.15	10.3	12.1
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)5	18:24	Middle	2	1	22	8.06	28.3	7.04	11.2	14.6
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)5	18:24	Middle	2	2	22	8.08	28.3	7.01	11.8	16
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)5	18:24	Bottom	3	1	22	8.1	28.5	6.92	12.6	18.5
TMCLKL	HY/2012/07	2015-04-25	Mid-Ebb	CS(Mf)5	18:24	Bottom	3	2	22.1	8.12	28.5	6.88	13.2	19.8
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)5	13:40	Surface	1	1	25.8	8.38	25.1	10.61	13.2	18.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)5	13:40	Surface	1	2	25.9	8.37	25	10.67	12.9	15.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)5	13:40	Middle	2	1	25.8	8.36	25.2	10.78	13.8	19.3
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)5	13:40	Middle	2	2	25.7	8.35	25.1	10.74	14	18.2
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)5	13:40	Bottom	3	1	25.7	8.37	25.2	10.86	14.4	20.2
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)5	13:40	Bottom	3	2	25.6	8.36	25.3	10.84	15	19.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4a	13:59	Surface	1	1	25.9	8.3	25.3	10.75	14.3	18.6
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4a	13:59	Surface	1	2	25.8	8.31	25.4	10.72	14.9	19.4
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4a	13:59	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4a	13:59	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4a	13:59	Bottom	3	1	25.7	8.35	25.4	10.52	15.3	23
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4a	13:59	Bottom	3	2	25.8	8.36	25.5	10.48	15.6	20.3
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4	14:18	Surface	1	1	25.8	8.38	25.4	10.63	13.5	18.9
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4	14:18	Surface	1	2	25.9	8.35	25.5	10.57	14.2	19.9
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4	14:18	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4	14:18	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4	14:18	Bottom	3	1	25.8	8.35	25.7	10.3	12.7	19.1
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	SR4	14:18	Bottom	3	2	25.8	8.36	25.6	10.26	13.6	17.7
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS8	14:37	Surface	1	1	25.7	8.34	25.9	10.18	15.4	20
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS8	14:37	Surface	1	2	25.8	8.33	26	10.25	16	25.6
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS8	14:37	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS8	14:37	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS8	14:37	Bottom	3	1	25.7	8.31	25.6	10.56	20.5	21.7
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS8	14:37	Bottom	3	2	25.6	8.28	25.7	10.5	21.1	22.4
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)16	14:56	Surface	1	1	25.8	8.36	25.5	10.67	14.2	18.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)16	14:56	Surface	1	2	25.7	8.34	25.4	10.64	13.9	20.9
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)16	14:56	Middle	2	1	25.7	8.37	25.3	10.52	14.8	19.2
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)16	14:56	Middle	2	2	25.6	8.36	25.4	10.46	15	19.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)16	14:56	Bottom	3	1	25.5	8.34	25.3	10.11	15.4	23.1
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)16	14:56	Bottom	3	2	25.6	8.35	25.2	10.16	15.9	22.3
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)9	15:15	Surface	1	1	25.7	8.33	24.1	12.05	14.3	17.2
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)9	15:15	Surface	1	2	25.6	8.34	24.2	12.11	15	18
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)9	15:15	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)9	15:15	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)9	15:15	Bottom	3	1	25.8	8.37	25.3	10.58	15.4	23.1
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	IS(Mf)9	15:15	Bottom	3	2	25.7	8.38	25.4	10.18	16	20.8
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)3	15:38	Surface	1	1	25.9	8.35	25.3	10.57	13.6	20.4
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)3	15:38	Surface	1	2	25.8	8.36	25.4	10.65	13.1	17

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)3	15:38	Middle	2	1	25.7	8.34	25.4	10.66	14.2	19.9
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)3	15:38	Middle	2	2	25.8	8.35	25.3	10.59	13.8	17.9
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)3	15:38	Bottom	3	1	25.8	8.37	25.3	10.59	15.2	19.8
TMCLKL	HY/2012/07	2015-04-28	Mid-Flood	CS(Mf)3	15:38	Bottom	3	2	25.7	8.38	25.2	10.64	14.9	17.9
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)3	09:30	Surface	1	1	25.8	8.3	25.3	10.51	14.5	21.8
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)3	09:30	Surface	1	2	25.7	8.3	25.2	10.59	14	21
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)3	09:30	Middle	2	1	25.8	8.28	25.3	10.6	15.1	19.6
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)3	09:30	Middle	2	2	25.8	8.29	25.3	10.53	14.7	19.1
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)3	09:30	Bottom	3	1	25.8	8.28	25.2	10.53	16.1	24.2
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)3	09:30	Bottom	3	2	25.7	8.28	25.1	10.58	15.8	23.7
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4a	10:54	Surface	1	1	25.8	8.3	25.3	10.69	15.2	21.3
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4a	10:54	Surface	1	2	25.8	8.3	25.2	10.66	15.8	23.7
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4a	10:54	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4a	10:54	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4a	10:54	Bottom	3	1	25.8	8.3	25.4	10.46	16.2	21.1
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4a	10:54	Bottom	3	2	25.8	8.3	25.4	10.42	16.5	21.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4	10:33	Surface	1	1	25.7	8.32	25.4	10.57	14.4	21.6
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4	10:33	Surface	1	2	25.8	8.29	25.4	10.51	15.1	21.1
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4	10:33	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4	10:33	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4	10:33	Bottom	3	1	25.7	8.29	25.6	10.24	13.6	19
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	SR4	10:33	Bottom	3	2	25.6	8.3	25.5	10.2	14.5	21.8
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS8	10:12	Surface	1	1	25.7	8.28	25.9	10.12	16.3	24.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS8	10:12	Surface	1	2	25.7	8.28	25.9	10.19	16.9	25.4
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS8	10:12	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS8	10:12	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS8	10:12	Bottom	3	1	25.7	8.25	25.5	10.5	21.4	25.7
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS8	10:12	Bottom	3	2	25.7	8.22	25.6	10.44	22	25.6
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)16	11:15	Surface	1	1	25.7	8.3	25.4	10.61	15.1	19.6
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)16	11:15	Surface	1	2	25.7	8.28	25.3	10.58	14.8	19.2
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)16	11:15	Middle	2	1	25.7	8.31	25.4	10.46	15.7	22
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)16	11:15	Middle	2	2	25.6	8.3	25.4	10.4	15.9	23.9
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)16	11:15	Bottom	3	1	25.7	8.28	25.3	10.05	16.3	26.1
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)16	11:15	Bottom	3	2	25.6	8.29	25.3	10.1	16.8	25.2
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)9	09:51	Surface	1	1	25.6	8.28	24	11.99	15.2	19.8
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)9	09:51	Surface	1	2	25.5	8.28	24.1	12.05	15.9	20.7
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)9	09:51	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)9	09:51	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)9	09:51	Bottom	3	1	25.8	8.31	25.3	10.52	16.3	24.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	IS(Mf)9	09:51	Bottom	3	2	25.8	8.3	25.2	10.12	16.9	27
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)5	11:40	Surface	1	1	25.8	8.32	25.1	10.55	14.1	19.7
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)5	11:40	Surface	1	2	25.8	8.31	25.1	10.61	13.8	19.3
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)5	11:40	Middle	2	1	25.8	8.31	25.2	10.72	14.7	20.6
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)5	11:40	Middle	2	2	25.7	8.31	25.1	10.68	14.9	22.4
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)5	11:40	Bottom	3	1	25.8	8.31	25.2	10.8	15.3	24.5
TMCLKL	HY/2012/07	2015-04-28	Mid-Ebb	CS(Mf)5	11:40	Bottom	3	2	25.7	8.3	25.2	10.78	15.9	23.9
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)5	15:26	Surface	1	1	26.4	8.14	27.9	8.04	8.85	11.6
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)5	15:26	Surface	1	2	26.2	8.17	28	8.07	8.9	11.9
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)5	15:26	Middle	2	1	26.3	8.16	27.6	8.07	9.32	12.1
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)5	15:26	Middle	2	2	26.2	8.17	27.8	8.1	9.35	12.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)5	15:26	Bottom	3	1	26.5	8.19	27.9	7.93	9.93	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)5	15:26	Bottom	3	2	26.5	8.2	27.8	7.89	9.9	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4a	15:54	Surface	1	1	25.9	8.14	27.6	7.94	7.99	10.7
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4a	15:54	Surface	1	2	26.2	8.12	27.5	7.92	8.01	10.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4a	15:54	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4a	15:54	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4a	15:54	Bottom	3	1	26.4	8.06	27.2	7.93	9.59	12.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4a	15:54	Bottom	3	2	26.5	8.05	27.4	7.96	9.6	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4	16:12	Surface	1	1	26.4	8.2	27.3	7.64	9.79	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4	16:12	Surface	1	2	26.5	8.19	27	7.66	9.81	13.3
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4	16:12	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4	16:12	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4	16:12	Bottom	3	1	26.4	8.21	27.3	7.93	9.93	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	SR4	16:12	Bottom	3	2	26.6	8.21	27.2	7.89	9.91	13.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS8	16:27	Surface	1	1	26.4	8.21	27.4	7.91	9.69	13.3
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS8	16:27	Surface	1	2	26.7	8.23	27.6	7.9	9.7	13.1
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS8	16:27	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS8	16:27	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS8	16:27	Bottom	3	1	26.5	8.2	27.5	7.69	9.81	13.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS8	16:27	Bottom	3	2	26.4	8.21	27.3	7.72	9.84	13.3
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)16	16:42	Surface	1	1	26.4	8.21	27.2	7.82	9.21	12.1
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)16	16:42	Surface	1	2	26.3	8.2	27	7.83	9.24	12.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)16	16:42	Middle	2	1	26.7	8.2	27	7.9	9.43	12.6
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)16	16:42	Middle	2	2	26.4	8.21	26.9	7.89	9.4	12.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)16	16:42	Bottom	3	1	26.4	8.13	27.4	7.59	9.9	13.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)16	16:42	Bottom	3	2	26.2	8.12	27.2	7.62	9.88	13.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)9	16:59	Surface	1	1	25.9	8.21	27	7.71	9.37	12.3
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)9	16:59	Surface	1	2	26.3	8.23	26.9	7.71	9.4	12.7
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)9	16:59	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)9	16:59	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)9	16:59	Bottom	3	1	26.5	8.21	27.3	7.44	9.31	12.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	IS(Mf)9	16:59	Bottom	3	2	26.3	8.23	27.1	7.49	9.29	13
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)3	17:18	Surface	1	1	26.4	8.17	27	7.81	8.99	12
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)3	17:18	Surface	1	2	26.5	8.19	26.9	7.82	9	12.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)3	17:18	Middle	2	1	26.7	8.21	26.9	7.61	8.84	11.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)3	17:18	Middle	2	2	26.5	8.19	26.8	7.63	8.81	12
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)3	17:18	Bottom	3	1	26.4	8.19	27.1	7.26	10.2	13.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Flood	CS(Mf)3	17:18	Bottom	3	2	26.2	8.2	26.9	7.29	10.1	13.6
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)3	10:00	Surface	1	1	25.6	8.19	27.2	7.69	8.97	12
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)3	10:00	Surface	1	2	25.6	8.21	27.3	7.66	9.05	12.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)3	10:00	Middle	2	1	25.6	8.16	27.3	7.49	8.73	11.6
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)3	10:00	Middle	2	2	25.6	8.19	27.3	7.51	8.85	12
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)3	10:00	Bottom	3	1	25.7	8.17	27.5	7.08	10.2	13.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)3	10:00	Bottom	3	2	25.7	8.2	27.5	7.14	11.1	14.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4a	11:40	Surface	1	1	25.7	8.13	27.3	7.81	9.94	13.3
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4a	11:40	Surface	1	2	25.7	8.16	27.4	7.77	9.85	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4a	11:40	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4a	11:40	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4a	11:40	Bottom	3	1	25.7	8.08	27.5	7.85	9.67	13
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4a	11:40	Bottom	3	2	25.8	8.11	27.5	7.88	9.6	12.6
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4	11:21	Surface	1	1	25.7	8.17	27.4	7.59	9.84	13
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4	11:21	Surface	1	2	25.7	8.2	27.5	7.62	9.77	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4	11:21	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4	11:21	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4	11:21	Bottom	3	1	25.7	8.21	27.5	7.67	9.96	14.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	SR4	11:21	Bottom	3	2	25.7	8.24	27.5	7.69	9.87	13.7
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS8	11:05	Surface	1	1	25.7	8.2	27.3	7.77	9.67	13.1
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS8	11:05	Surface	1	2	25.7	8.24	27.4	7.74	9.59	12.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS8	11:05	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS8	11:05	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS8	11:05	Bottom	3	1	25.7	8.18	27.5	7.53	9.88	13.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS8	11:05	Bottom	3	2	25.7	8.22	27.5	7.5	9.79	12.9
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)16	10:42	Surface	1	1	25.6	8.18	27.4	7.73	9.28	12
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)16	10:42	Surface	1	2	25.7	8.21	27.4	7.69	9.36	12.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)16	10:42	Middle	2	1	25.6	8.17	27.4	7.78	9.47	13.4
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)16	10:42	Middle	2	2	25.6	8.2	27.5	7.81	9.55	12.9
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)16	10:42	Bottom	3	1	25.6	8.16	27.7	7.46	9.94	13.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)16	10:42	Bottom	3	2	25.7	8.19	27.7	7.39	10.1	13.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)9	10:23	Surface	1	1	25.6	8.23	27.4	7.58	9.47	12.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)9	10:23	Surface	1	2	25.6	8.2	27.4	7.54	9.56	13
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)9	10:23	Middle	2	1						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)9	10:23	Middle	2	2						
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)9	10:23	Bottom	3	1	25.6	8.16	27.4	7.33	9.28	12.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	IS(Mf)9	10:23	Bottom	3	2	25.7	8.2	27.5	7.3	9.21	12.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)5	12:06	Surface	1	1	25.7	8.19	27.5	7.93	8.85	11.5
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)5	12:06	Surface	1	2	25.8	8.21	27.5	7.89	8.93	11.8
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)5	12:06	Middle	2	1	25.7	8.14	27.5	7.95	9.34	12.7
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)5	12:06	Middle	2	2	25.6	8.18	27.4	7.91	9.42	13.2
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)5	12:06	Bottom	3	1	25.7	8.2	27.7	7.68	9.94	13.3
TMCLKL	HY/2012/07	2015-04-30	Mid-Ebb	CS(Mf)5	12:06	Bottom	3	2	25.6	8.24	27.6	7.63	10.1	13.6

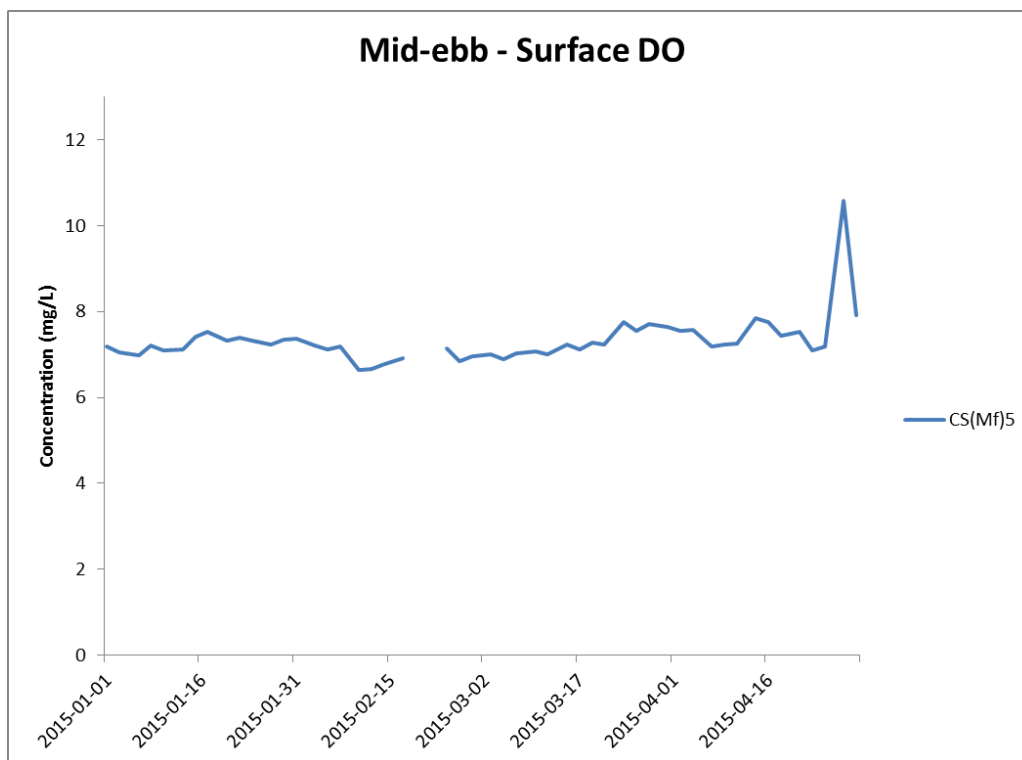
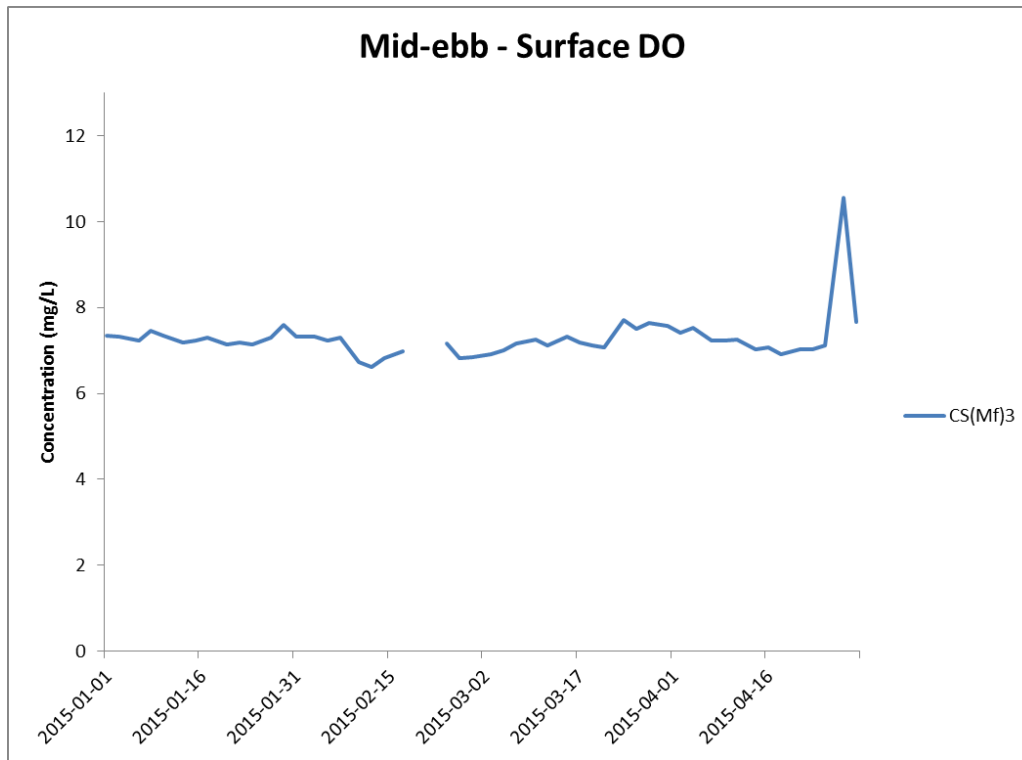
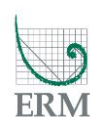


Figure J1 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



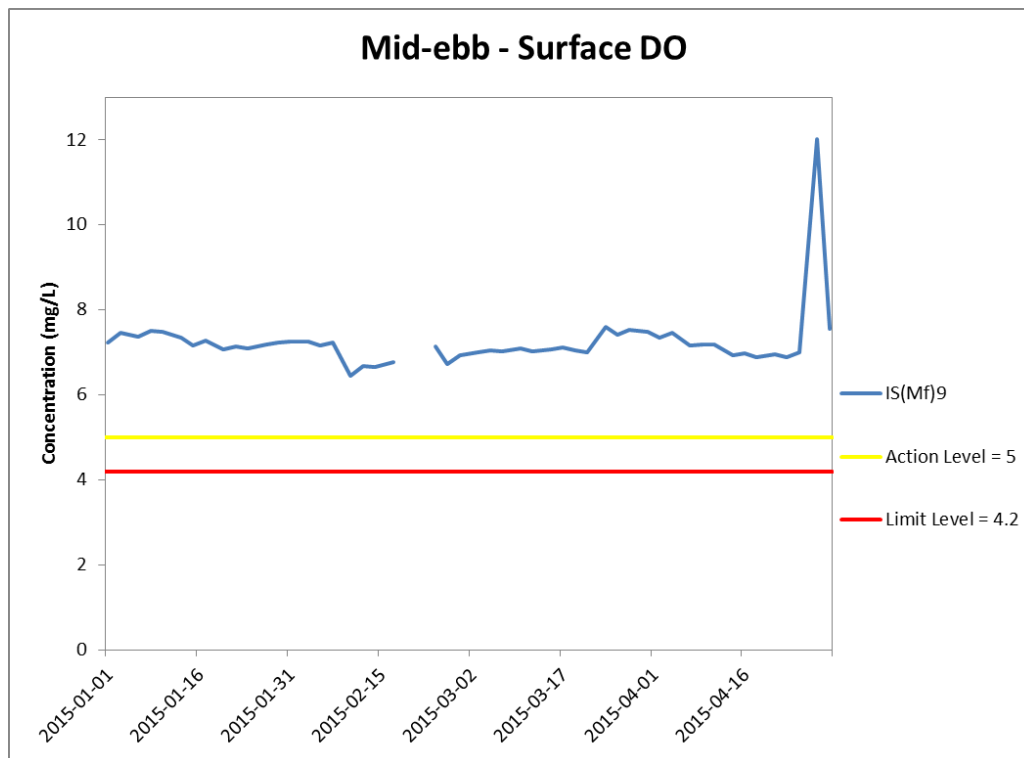
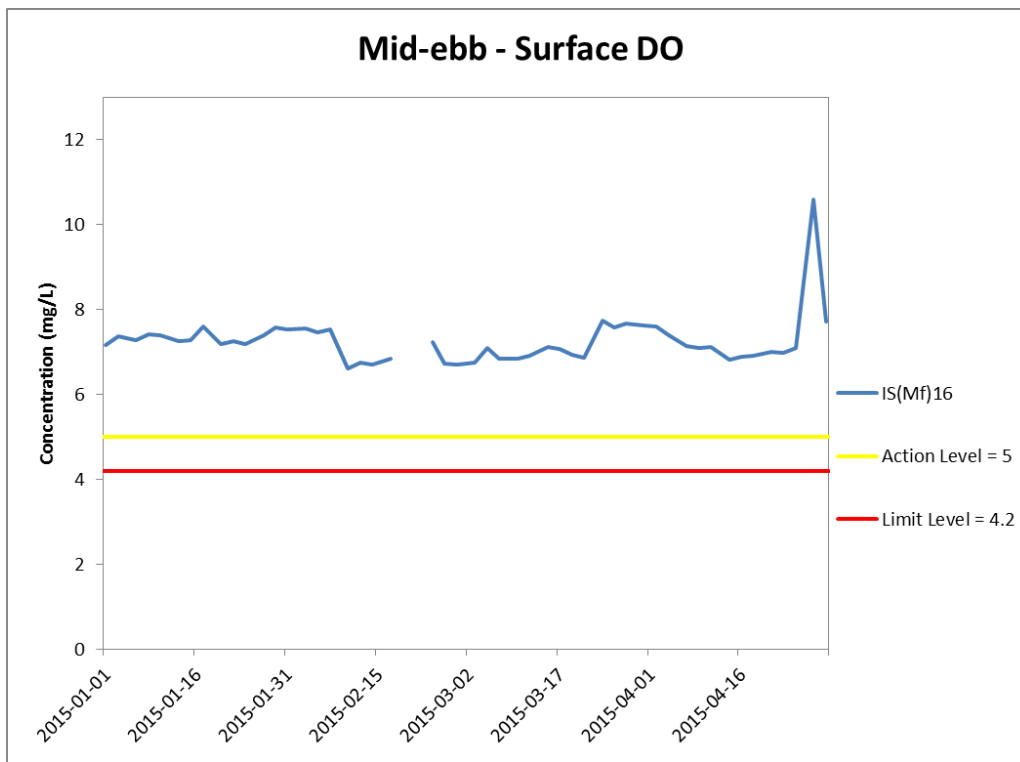


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstillation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



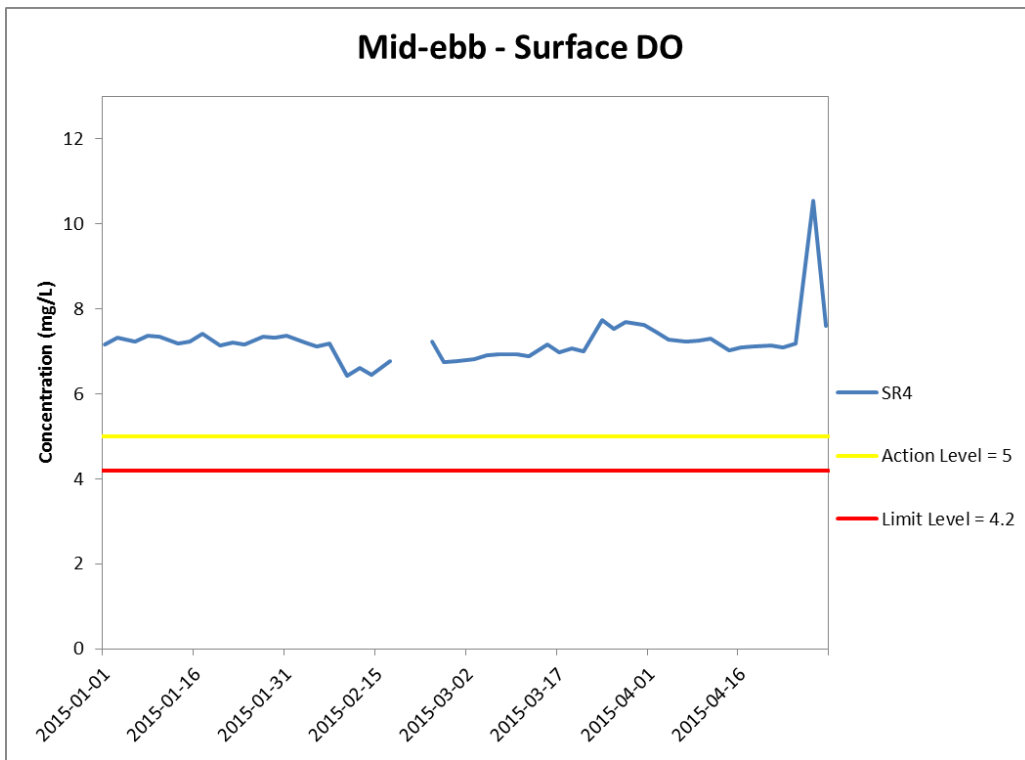
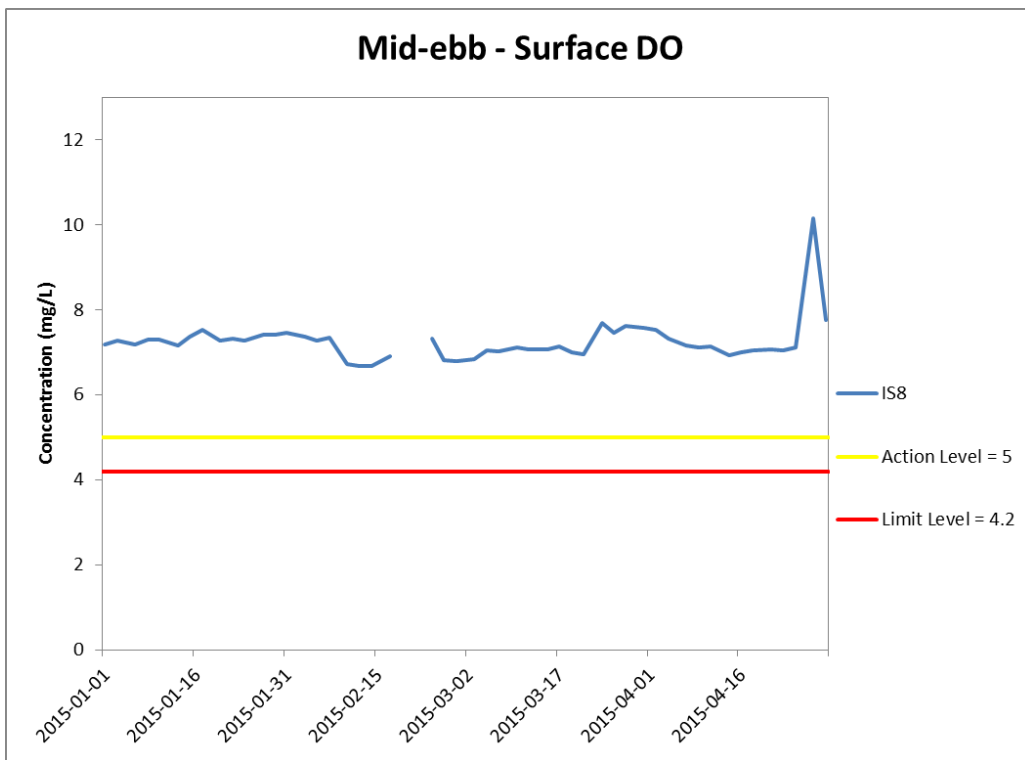


Figure J3 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



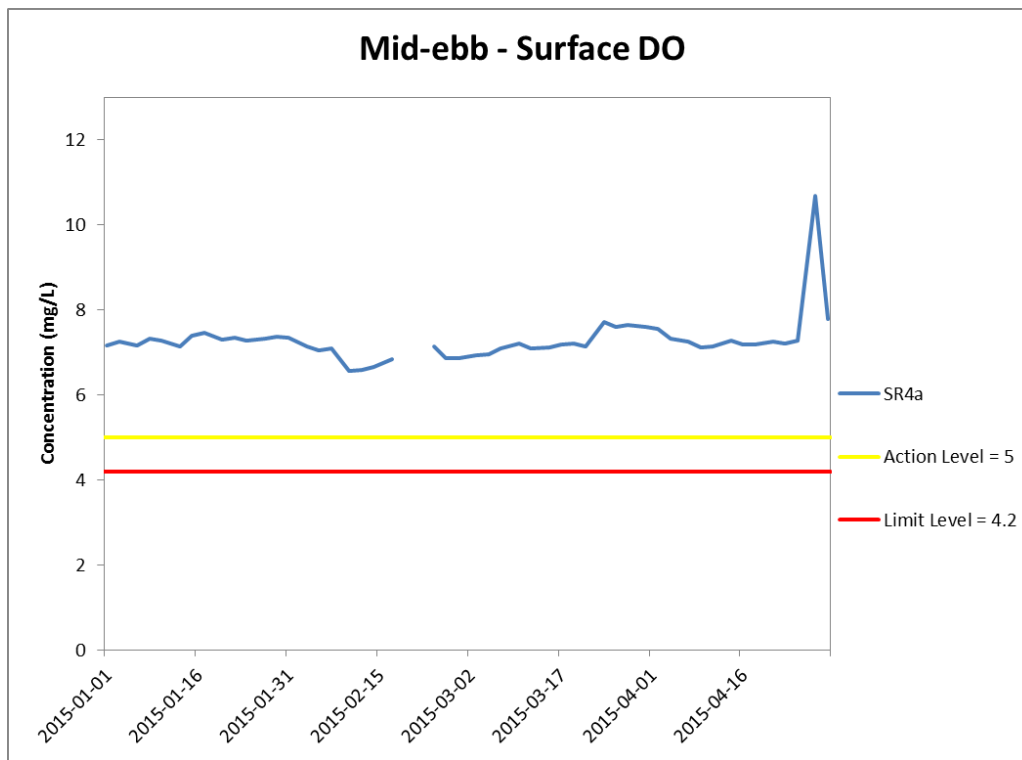


Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstillation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



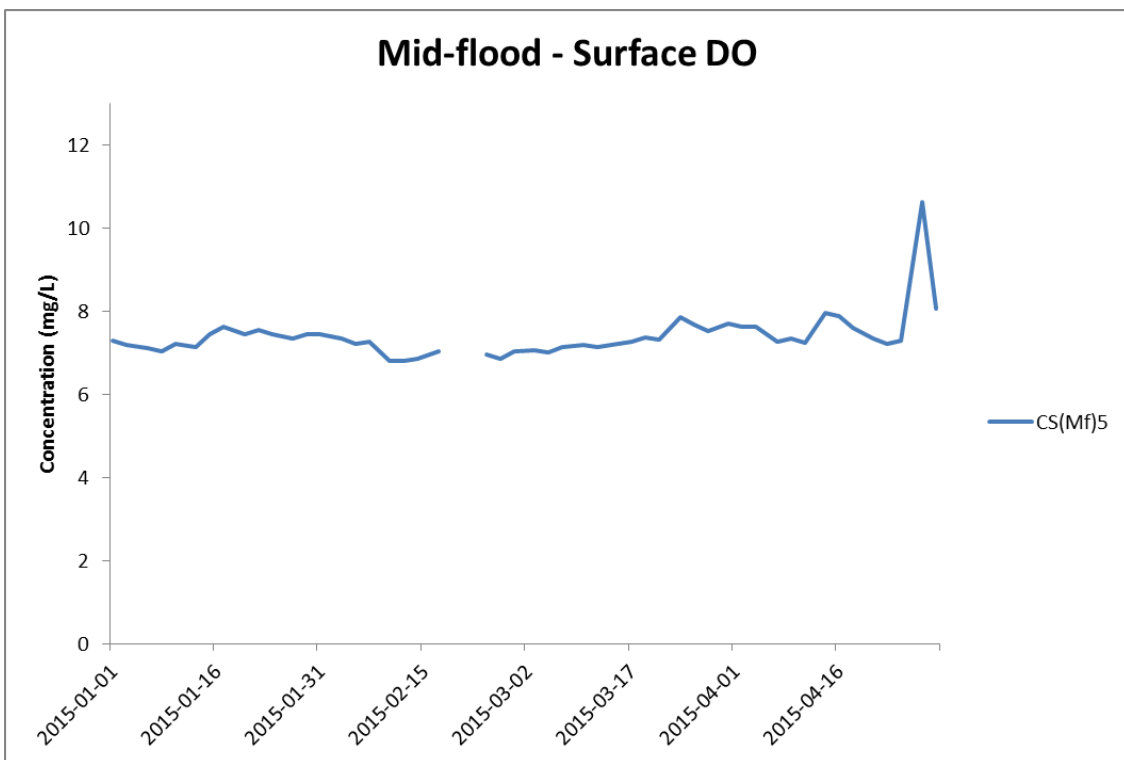
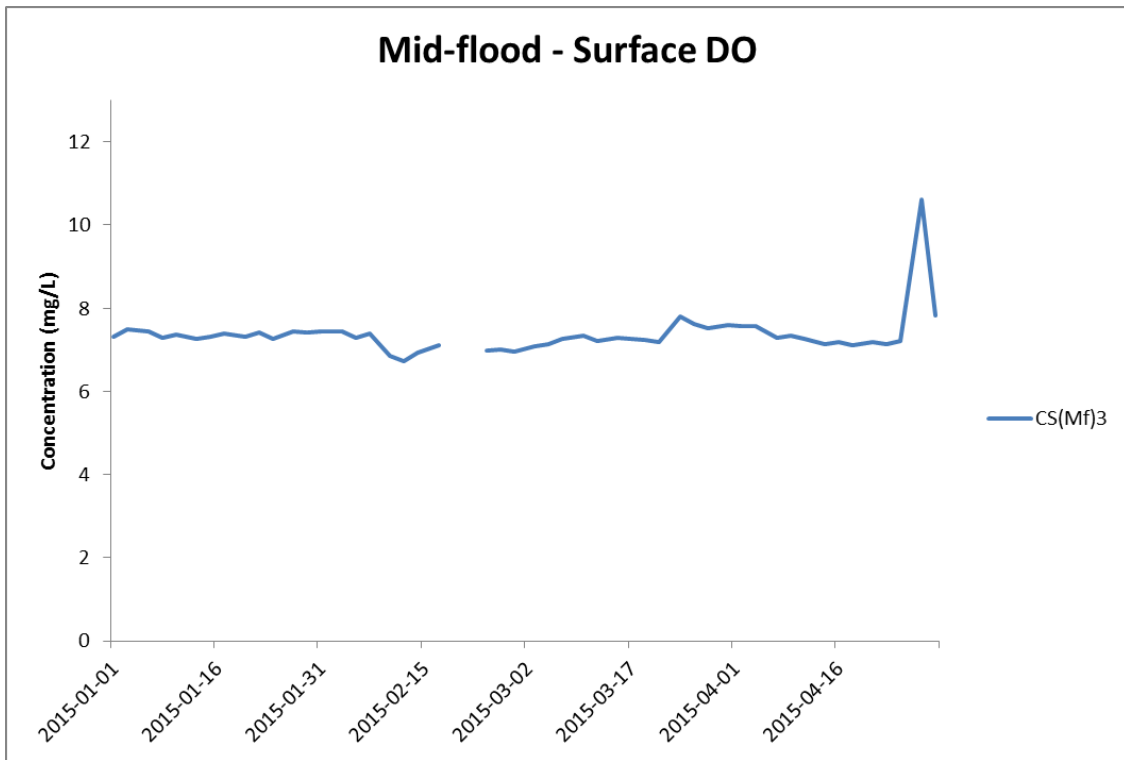


Figure J5 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



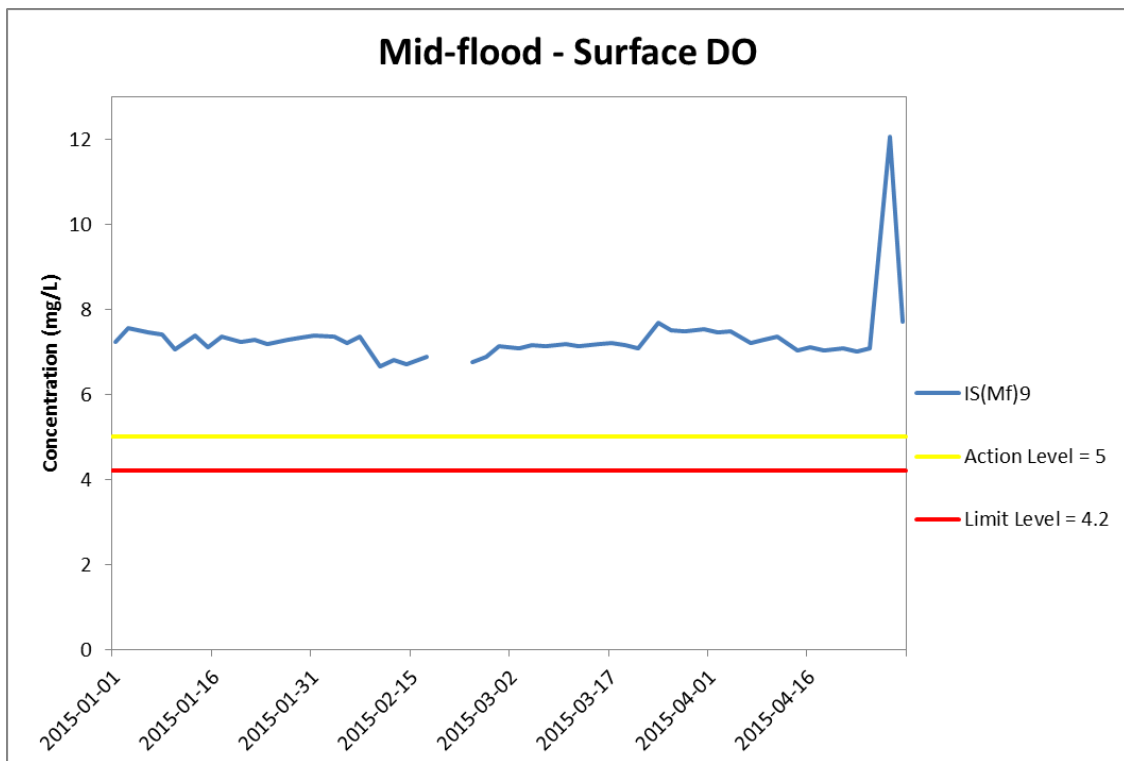
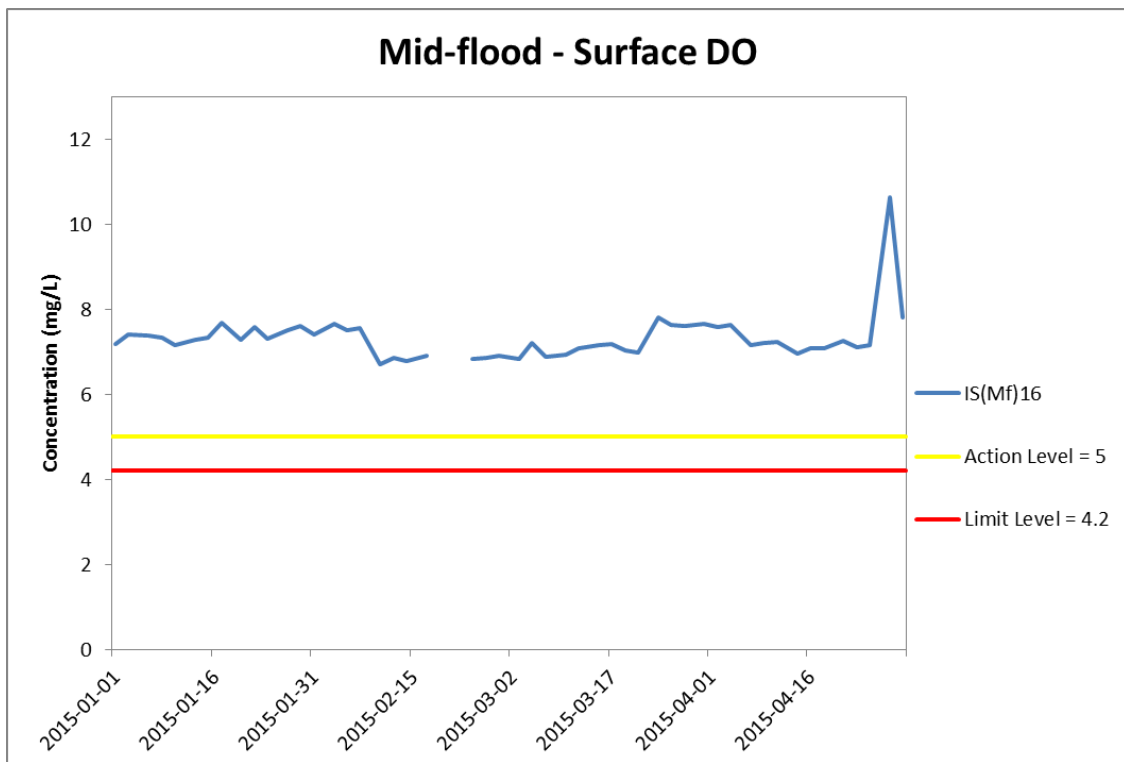


Figure J6 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



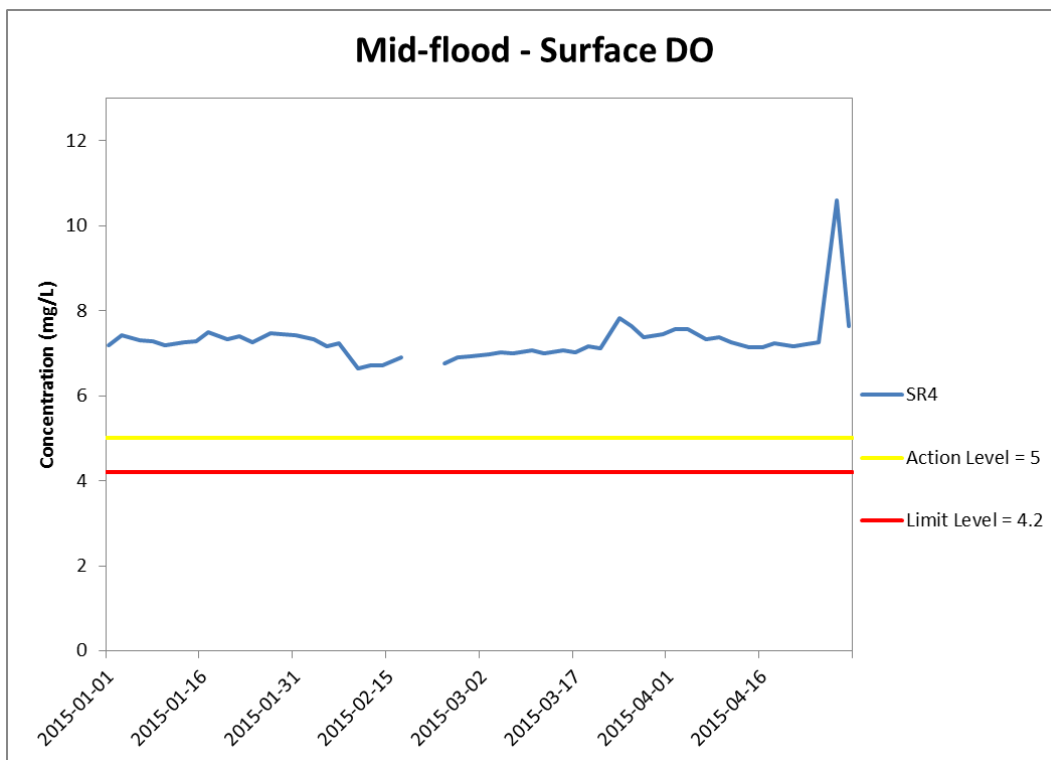
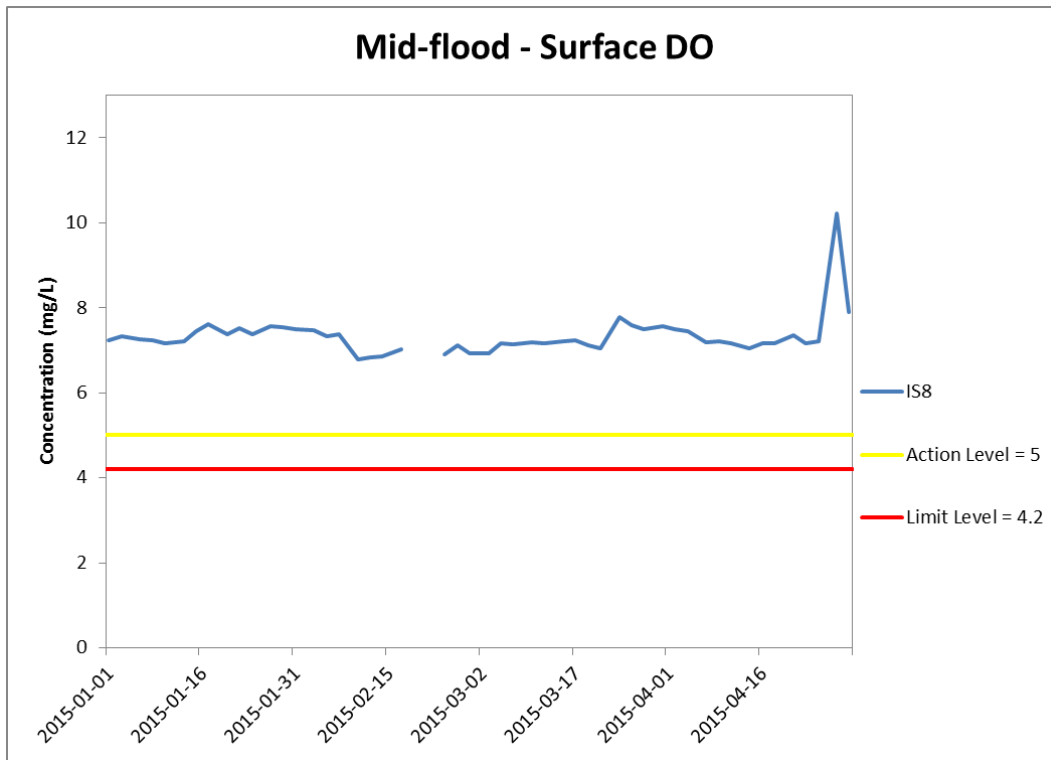


Figure J7 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
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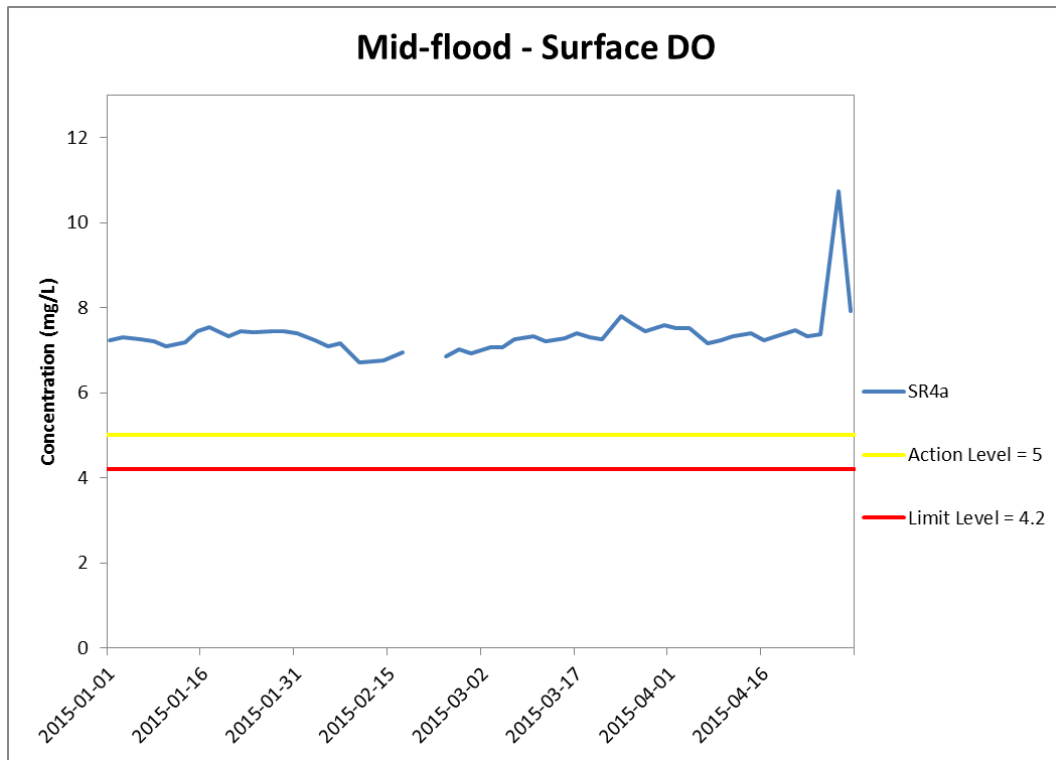


Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstillation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



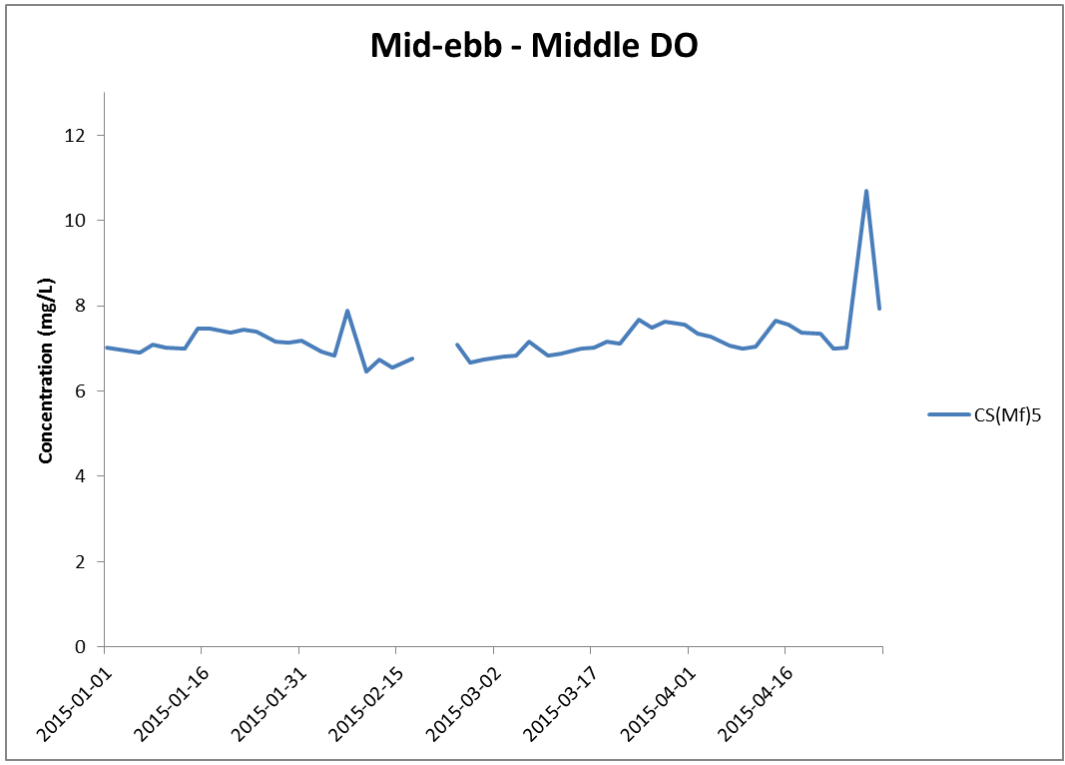
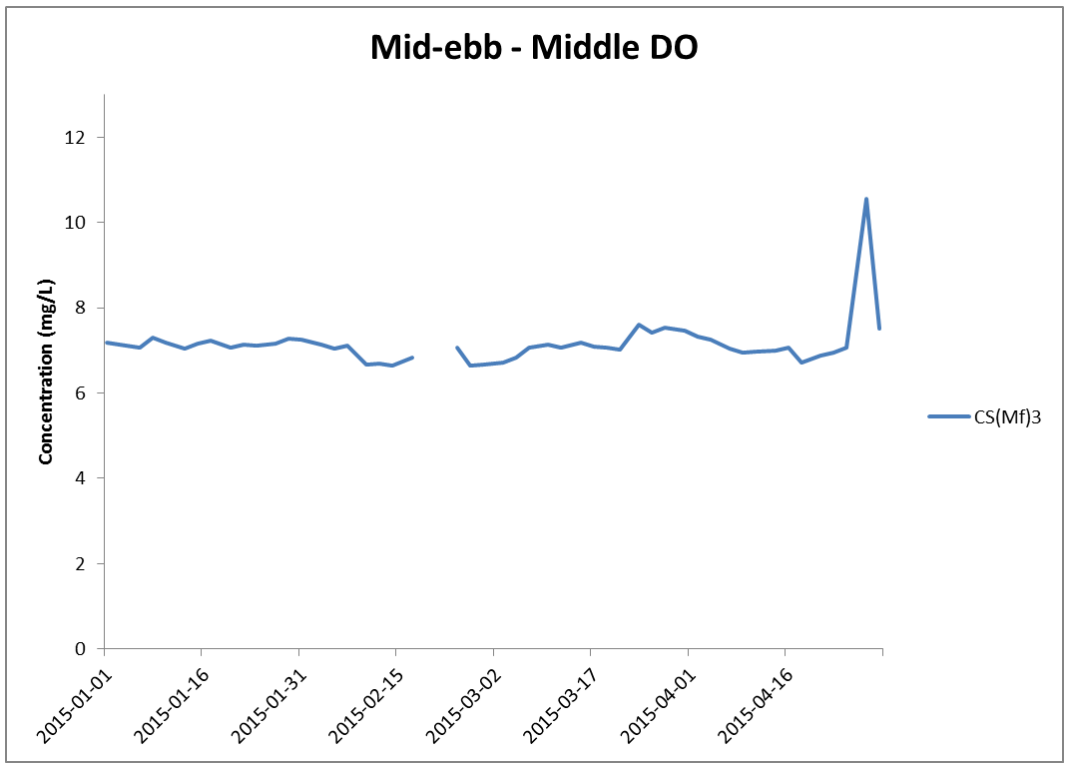


Figure J9 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

Environmental Resources Management



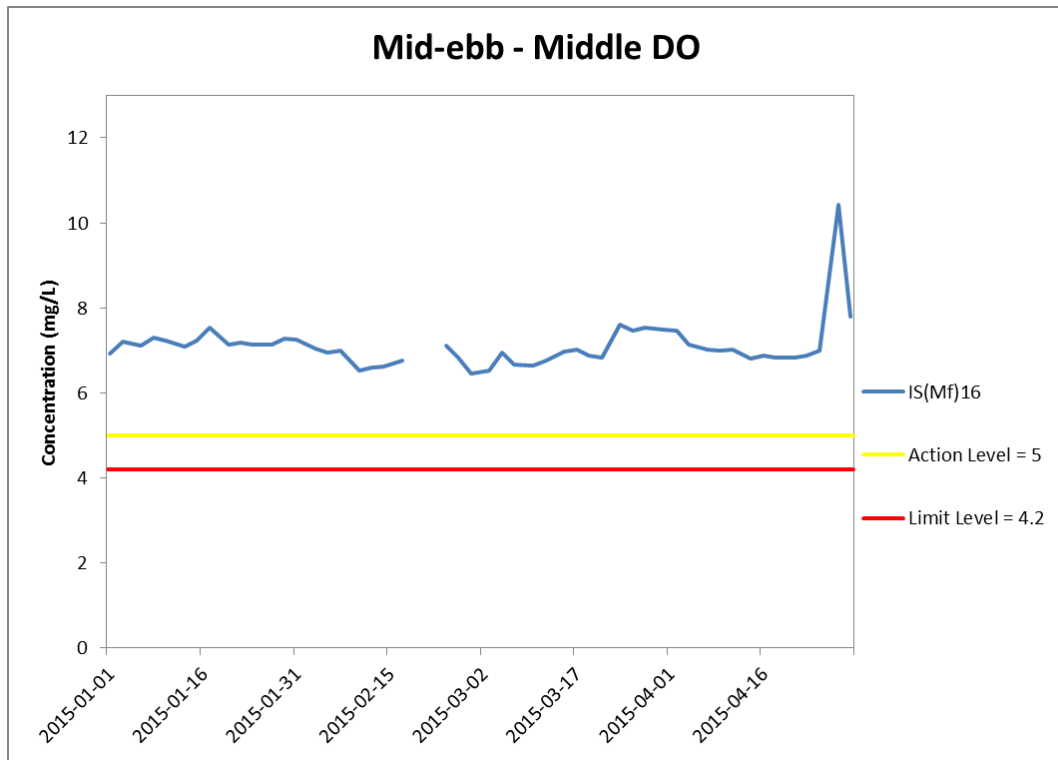


Figure J10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 January and 30 April 2015 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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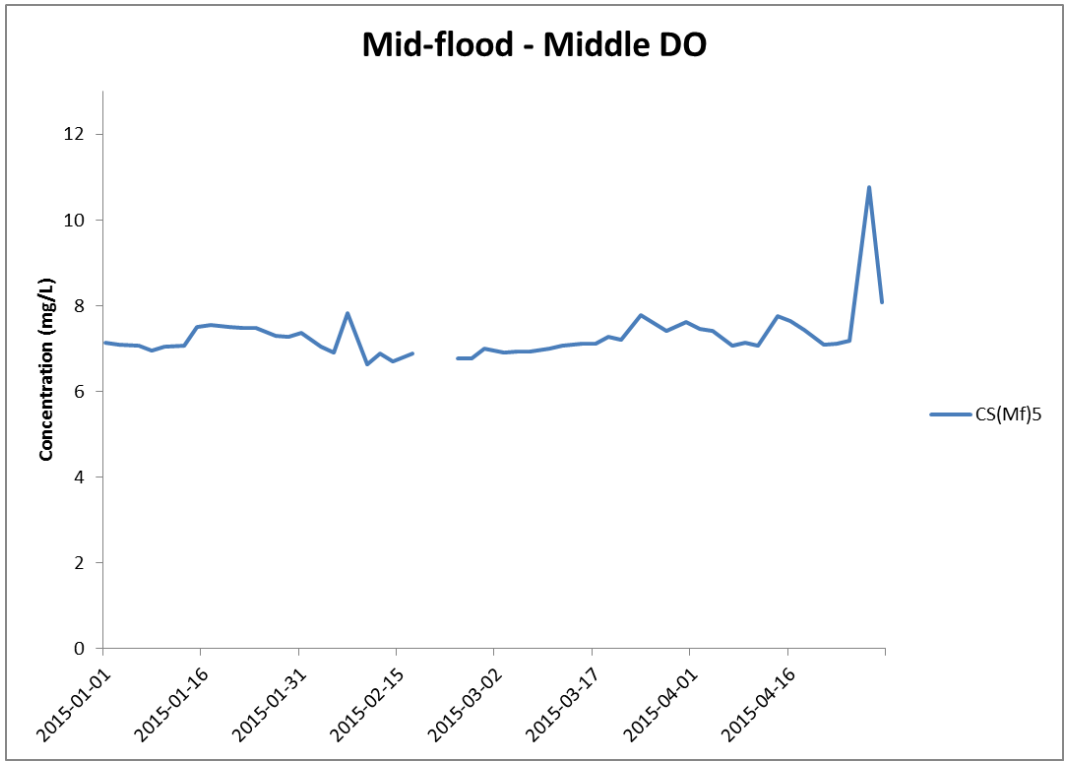
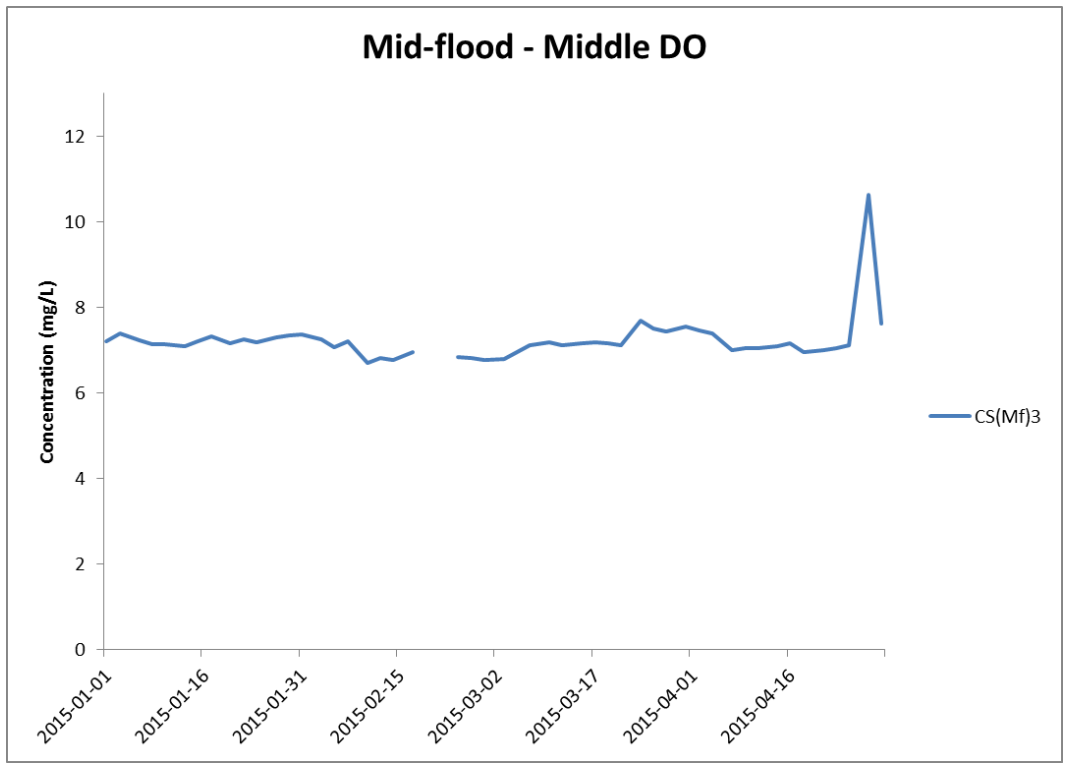


Figure J11 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

Environmental Resources Management



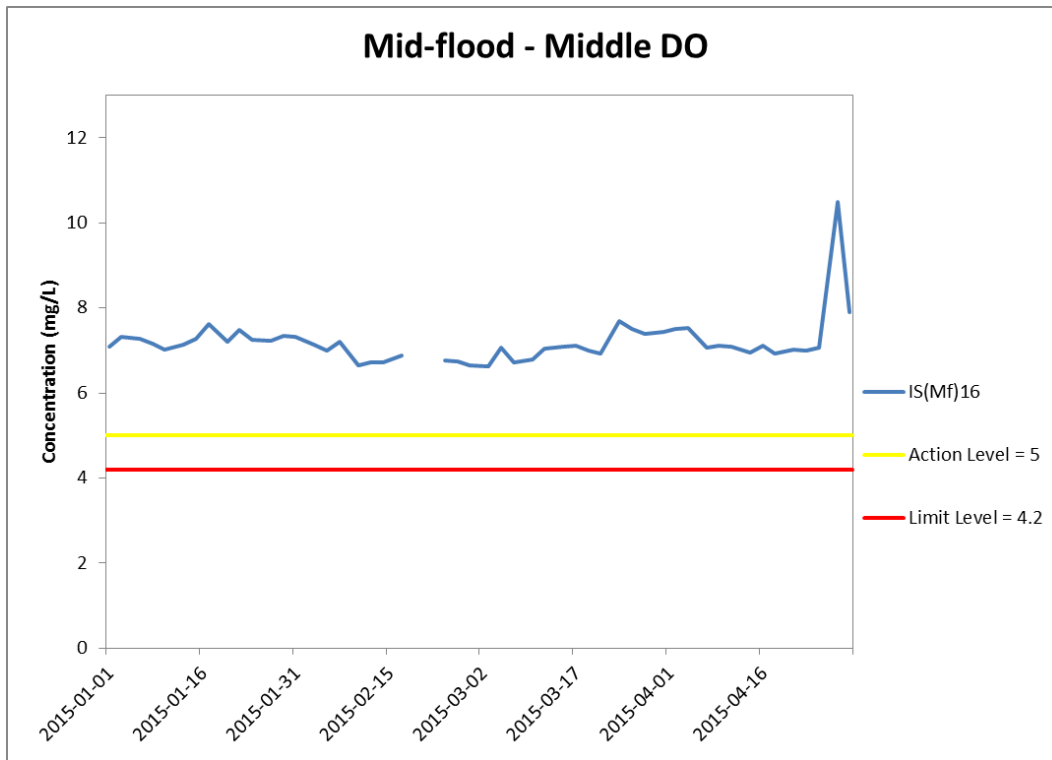
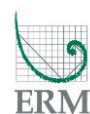


Figure J12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 January and 30 April 2015 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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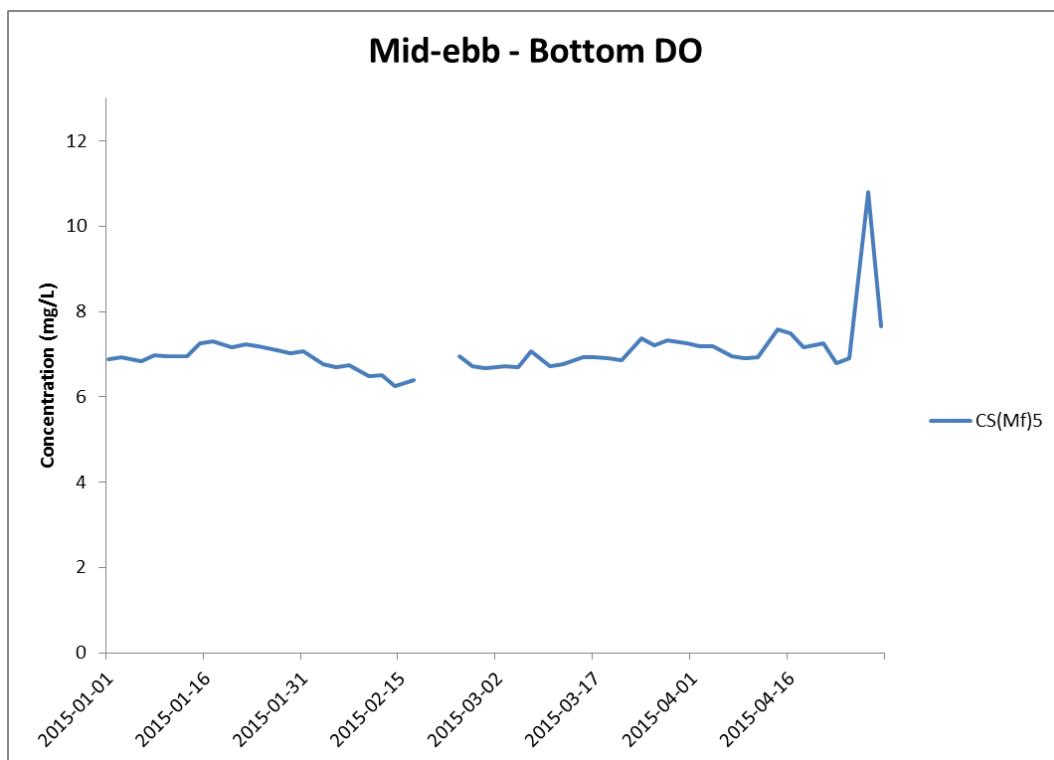
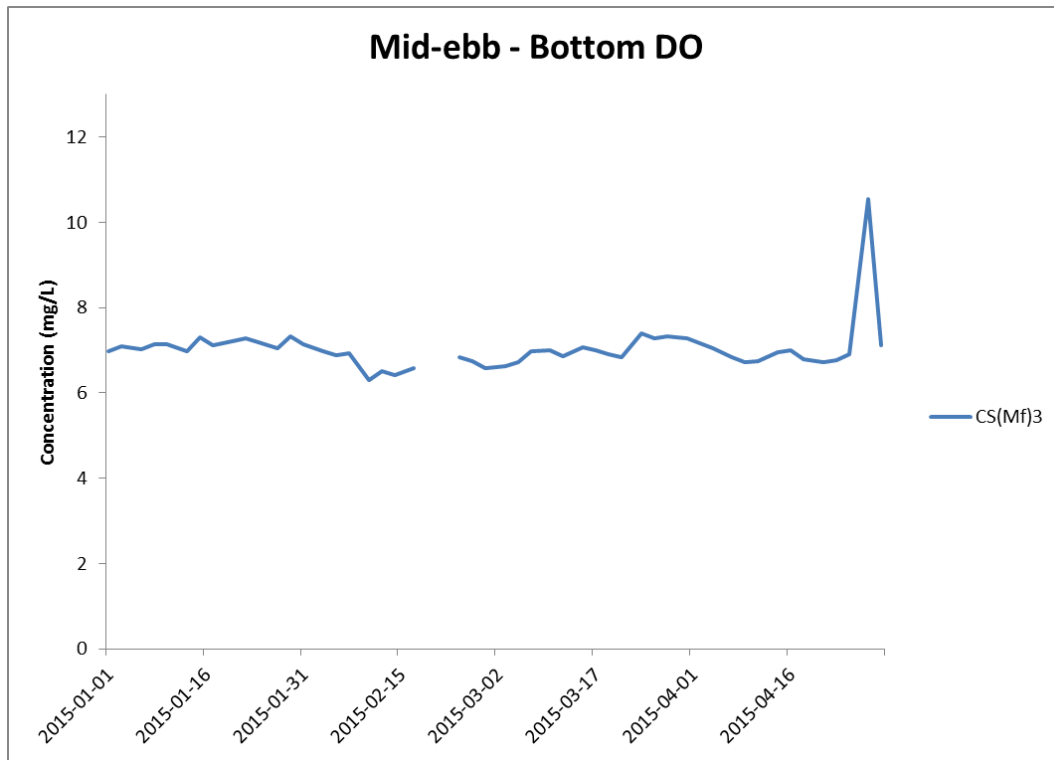


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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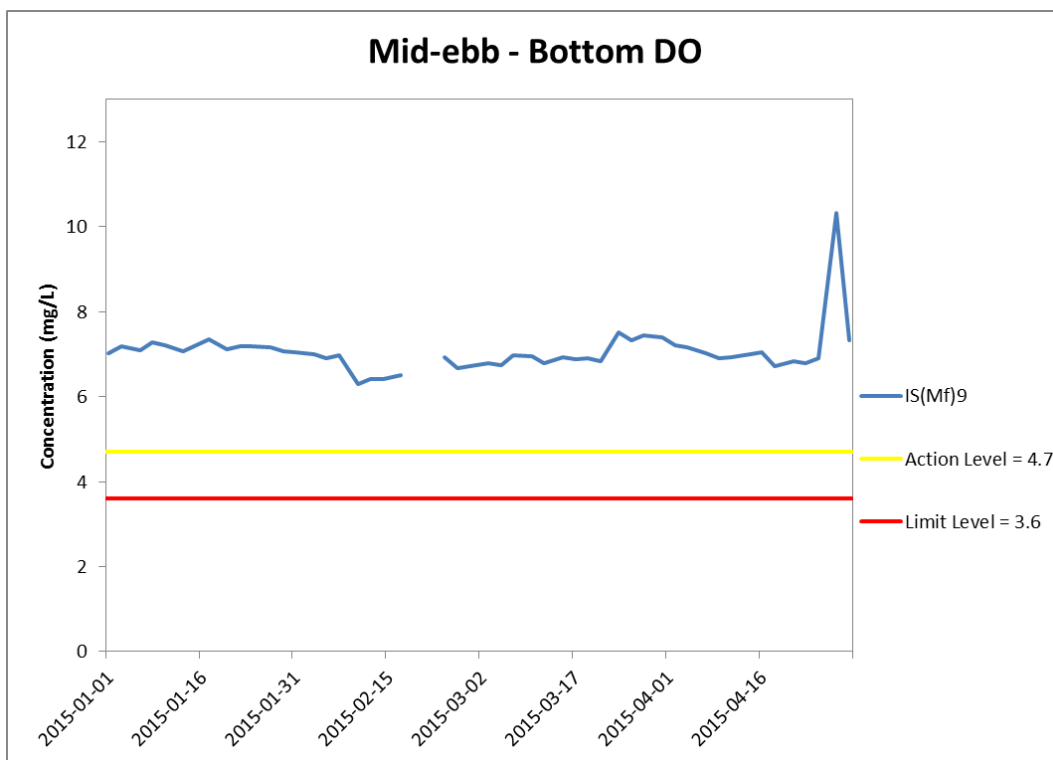
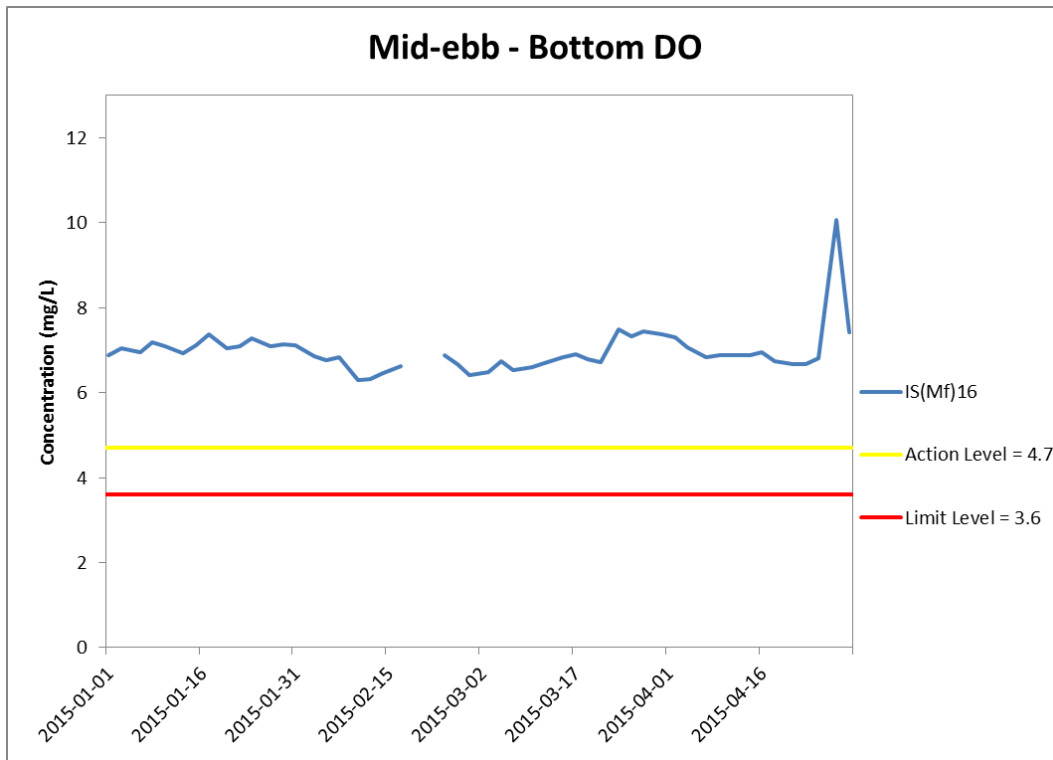


Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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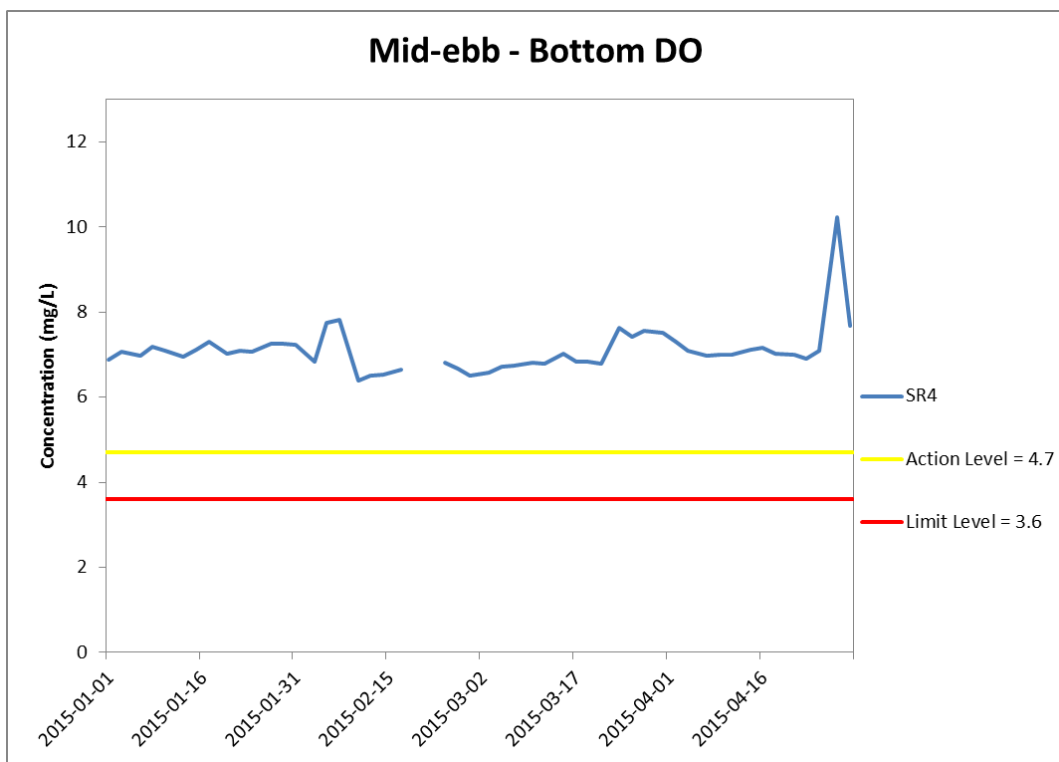
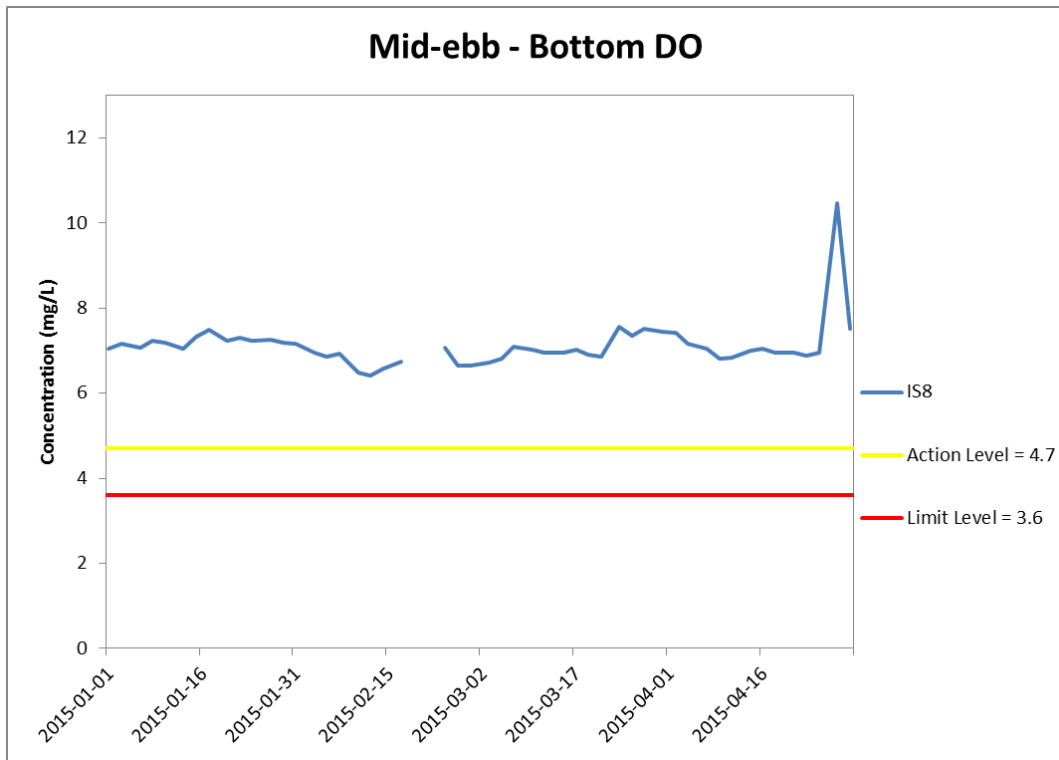


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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Resources
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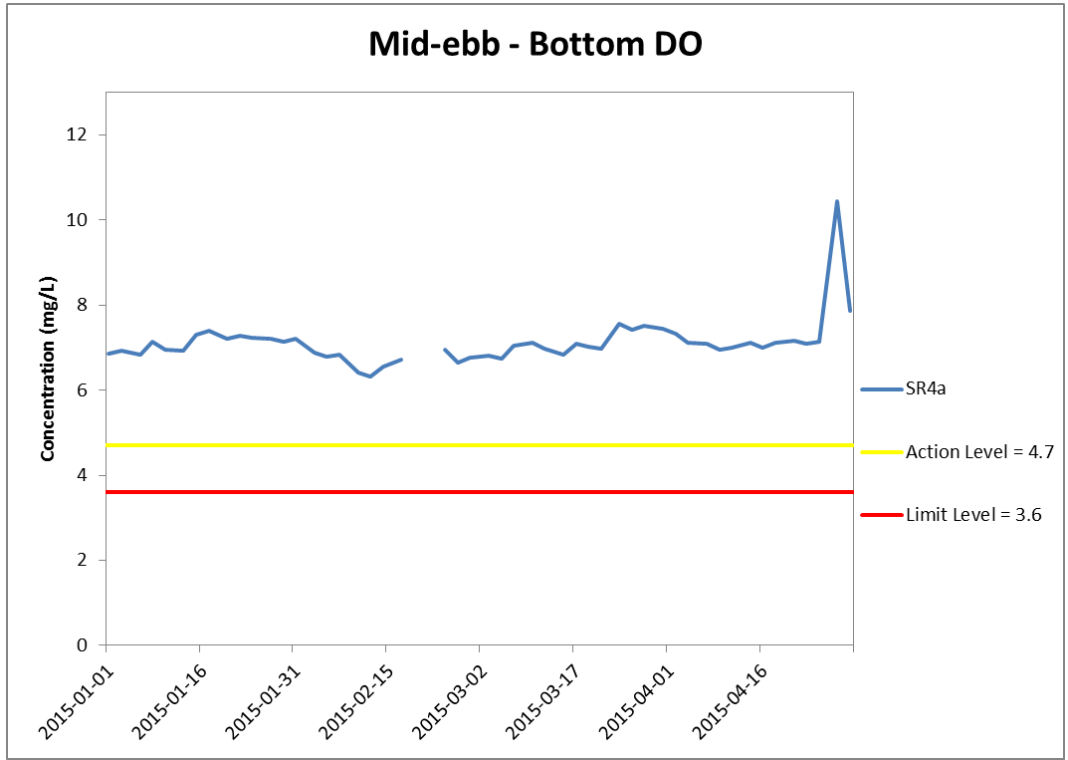


Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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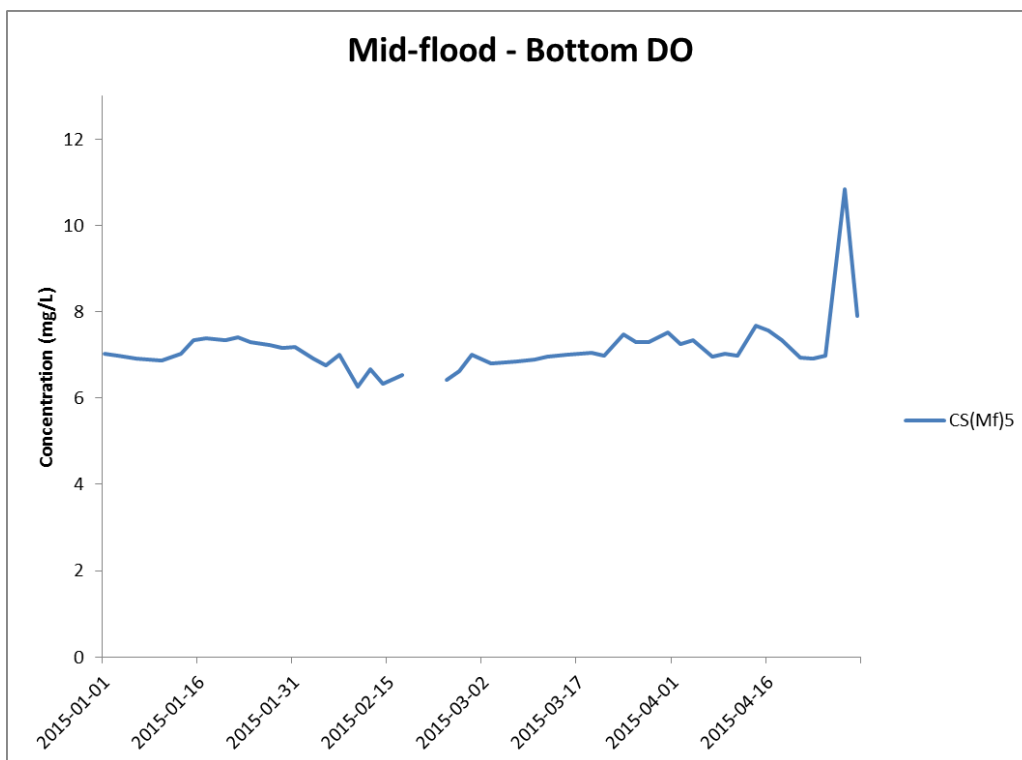
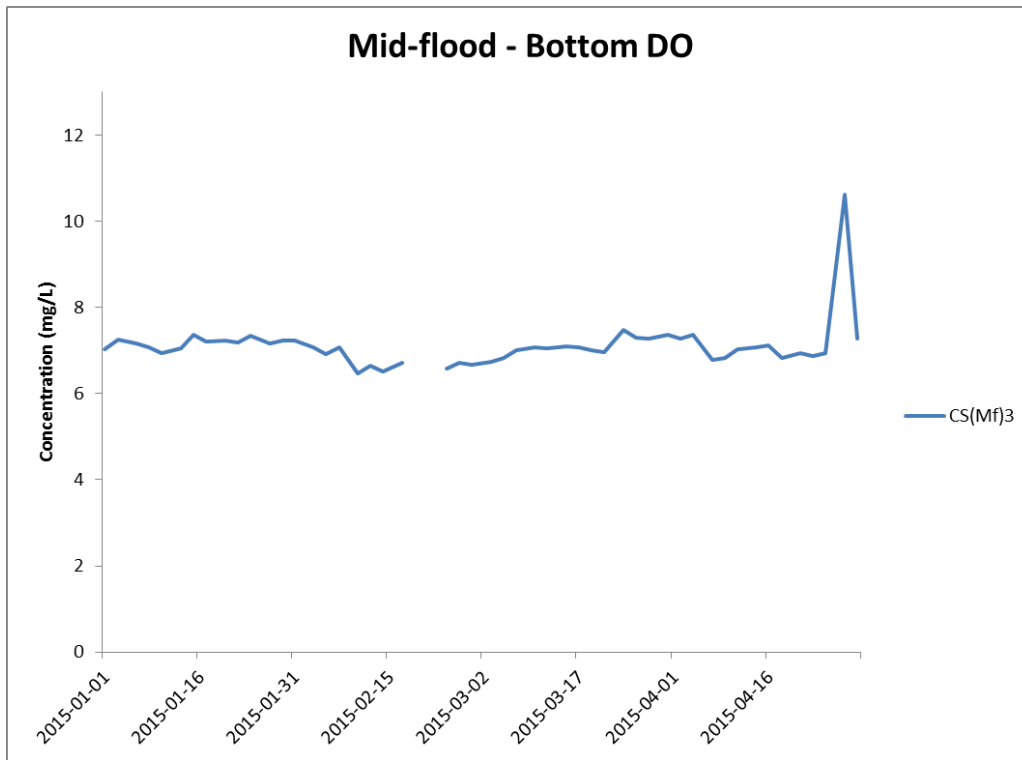


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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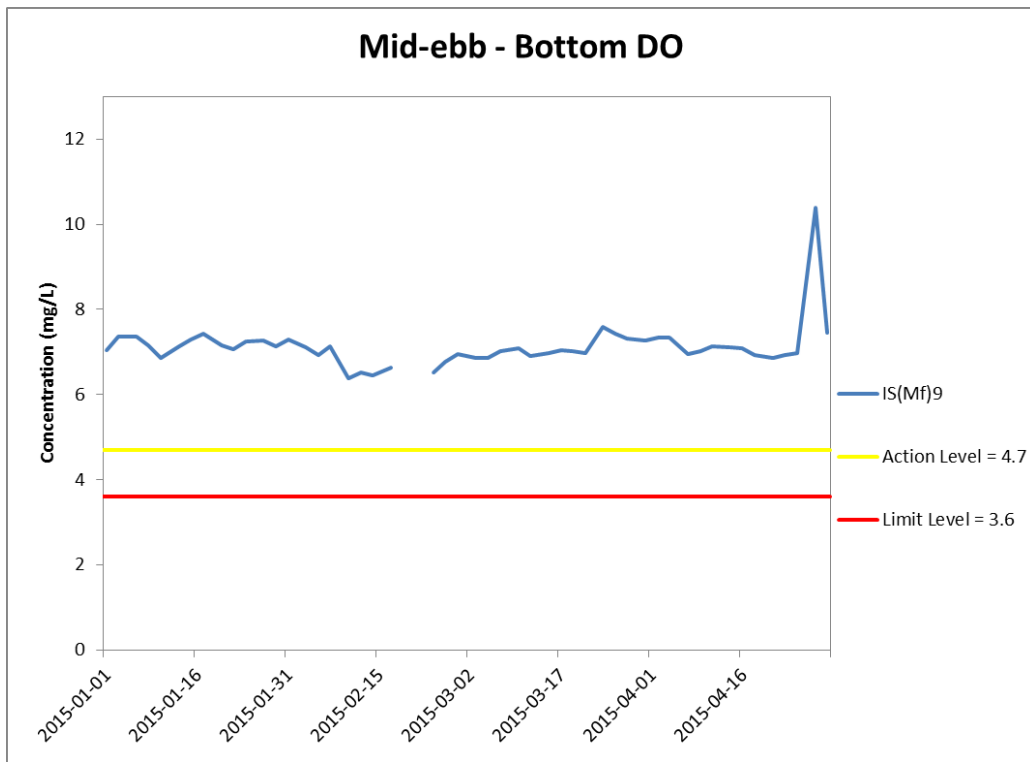
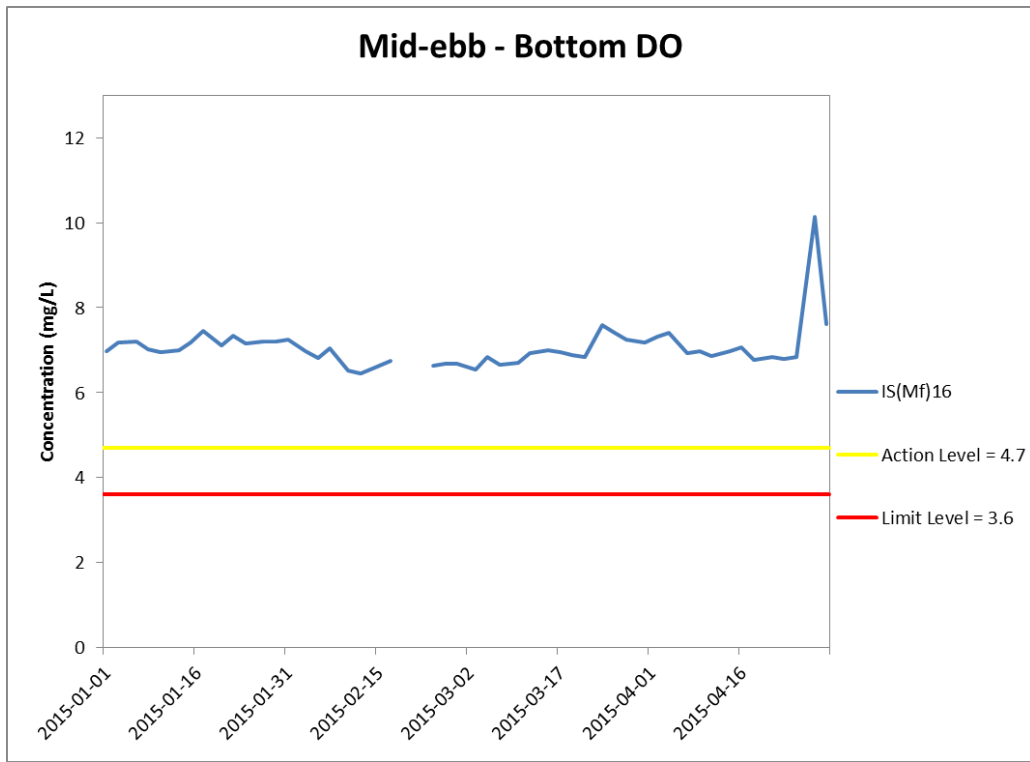


Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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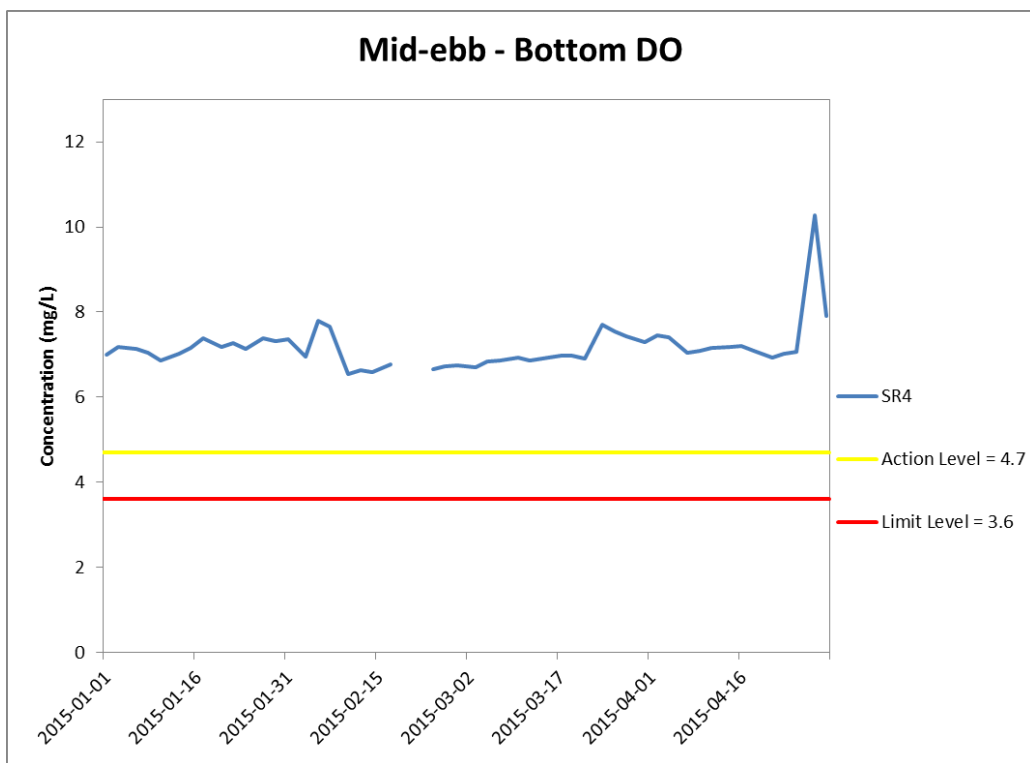
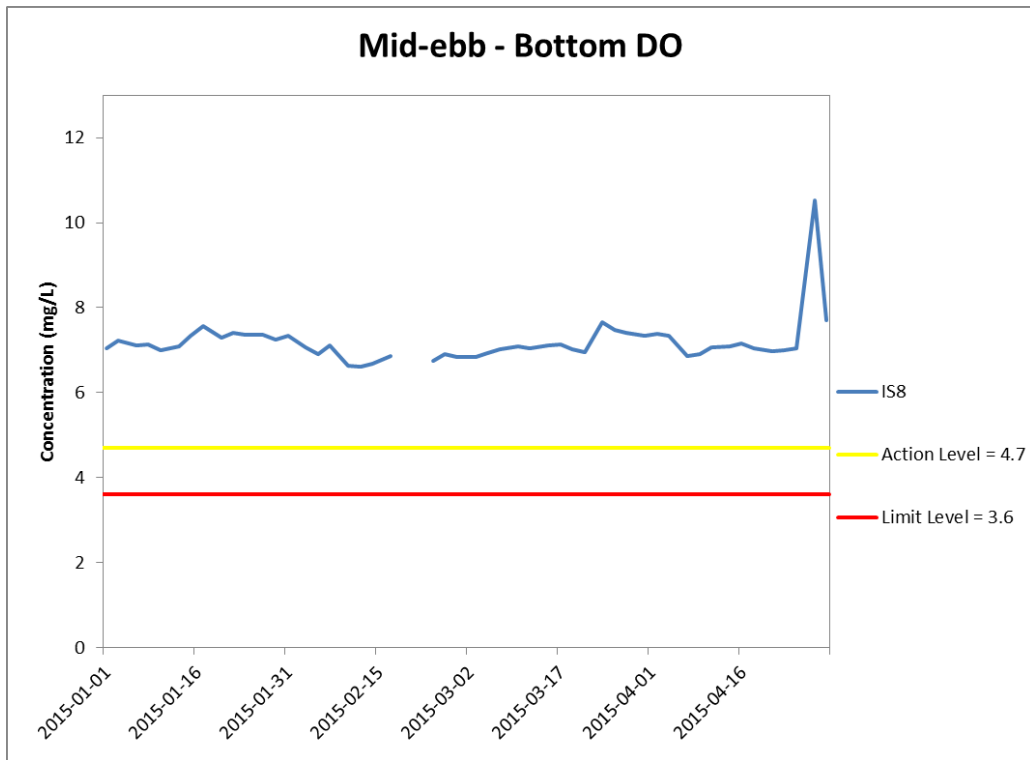


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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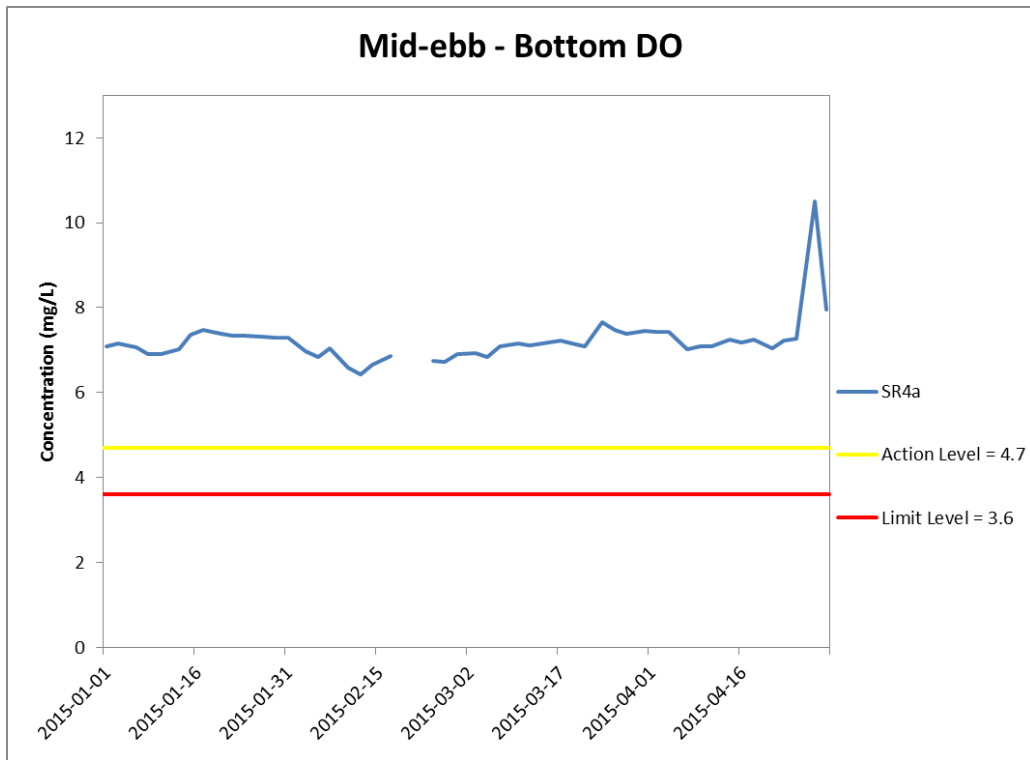


Figure J20 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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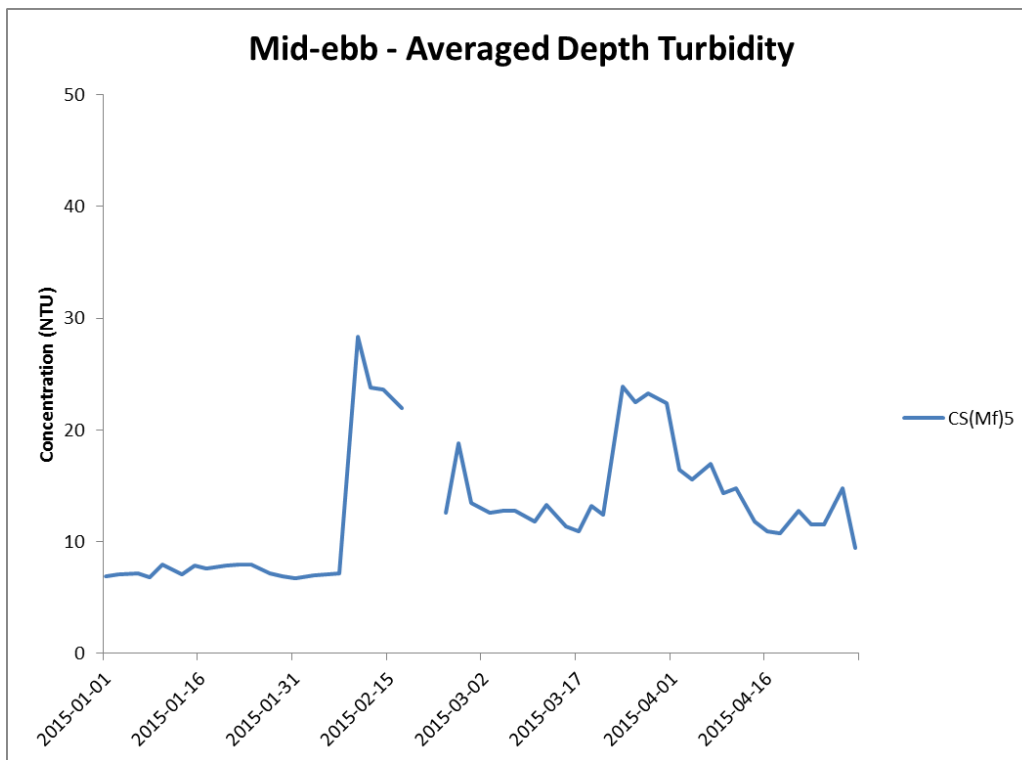
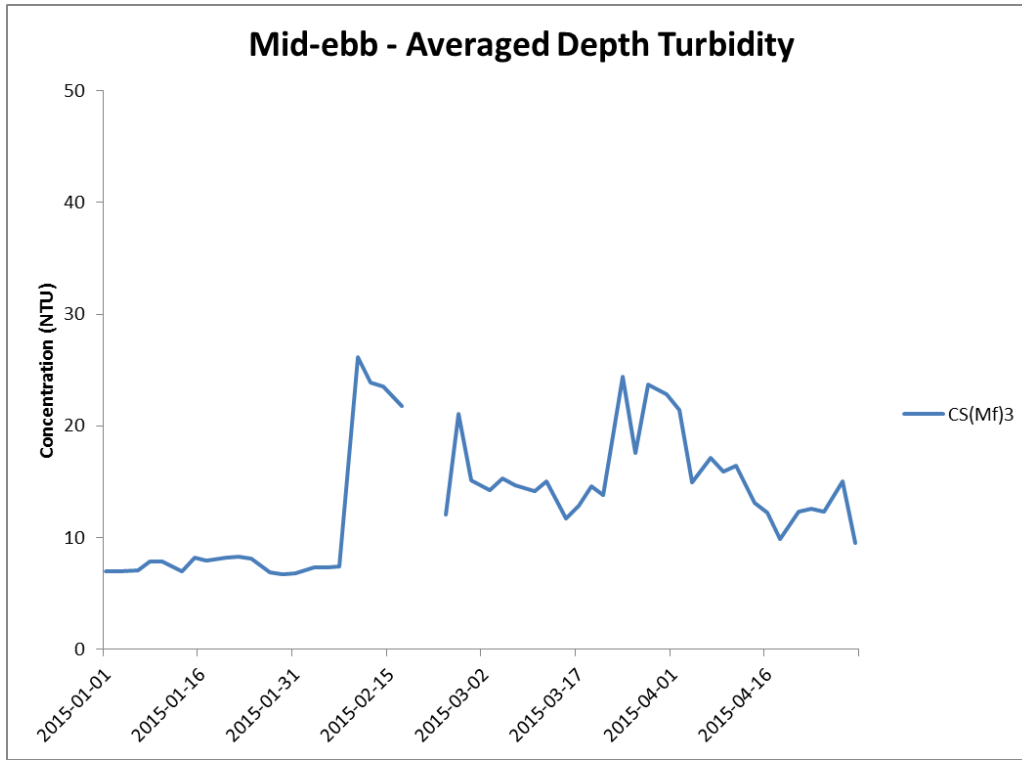


Figure J21 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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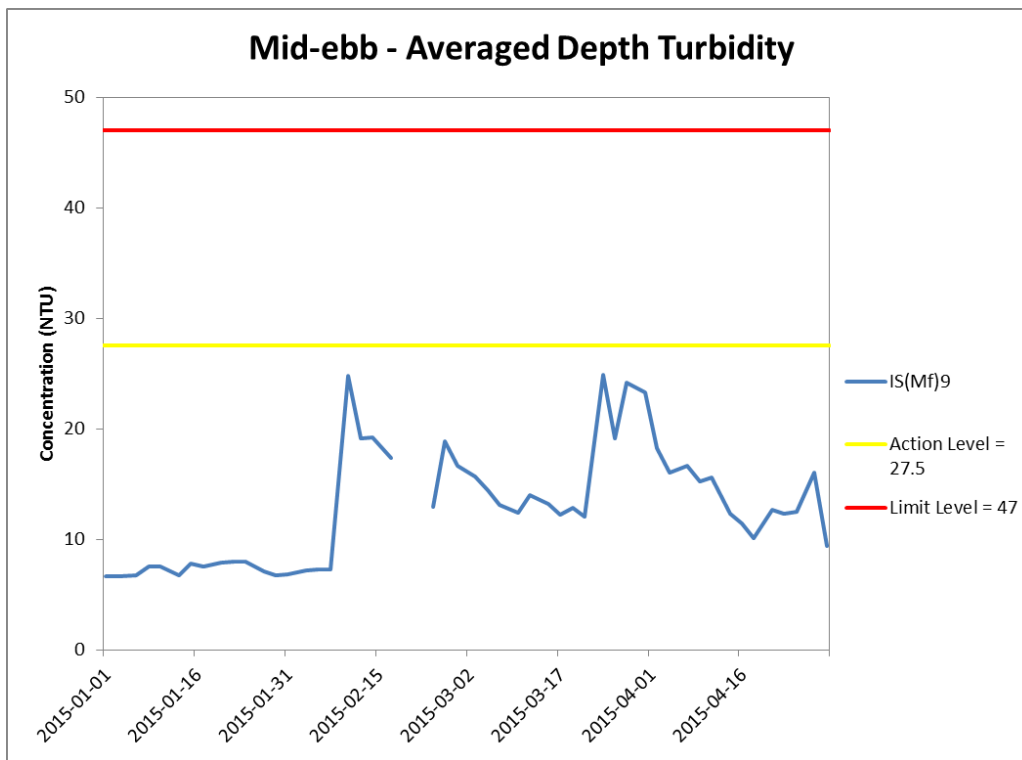
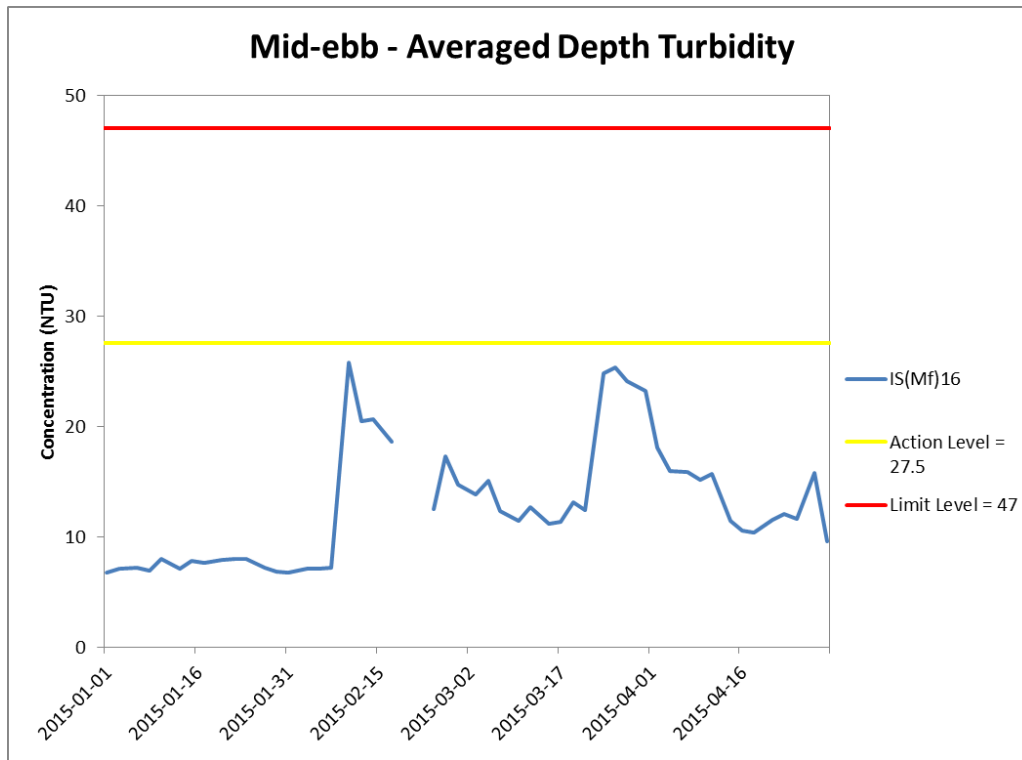


Figure J22 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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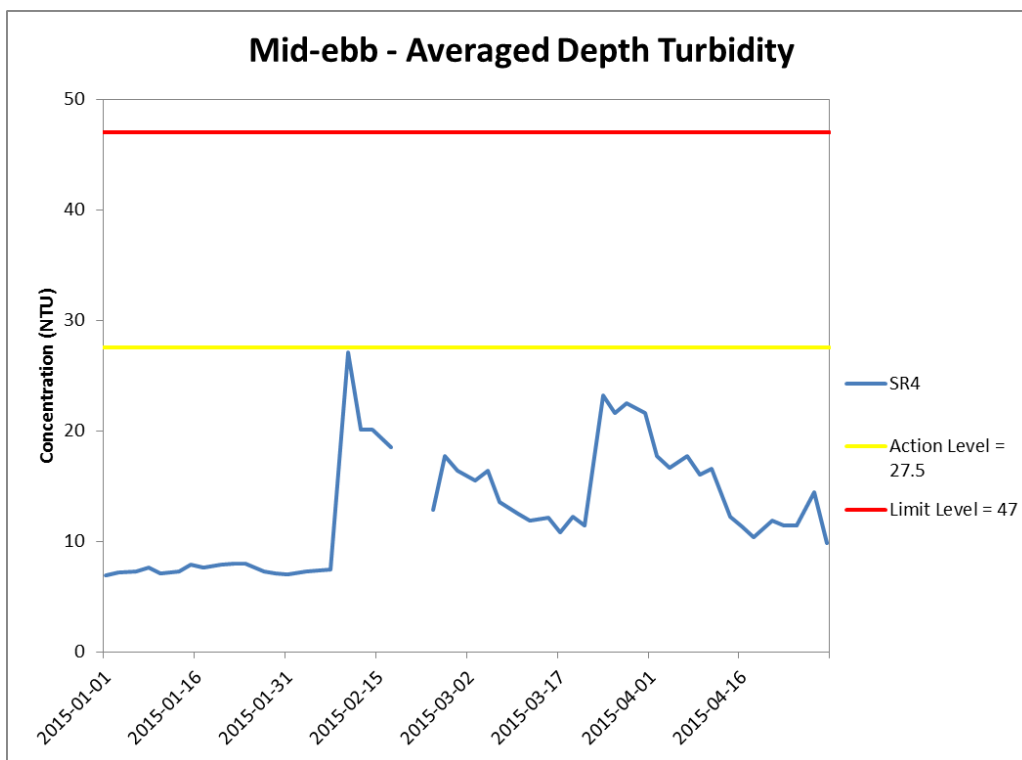
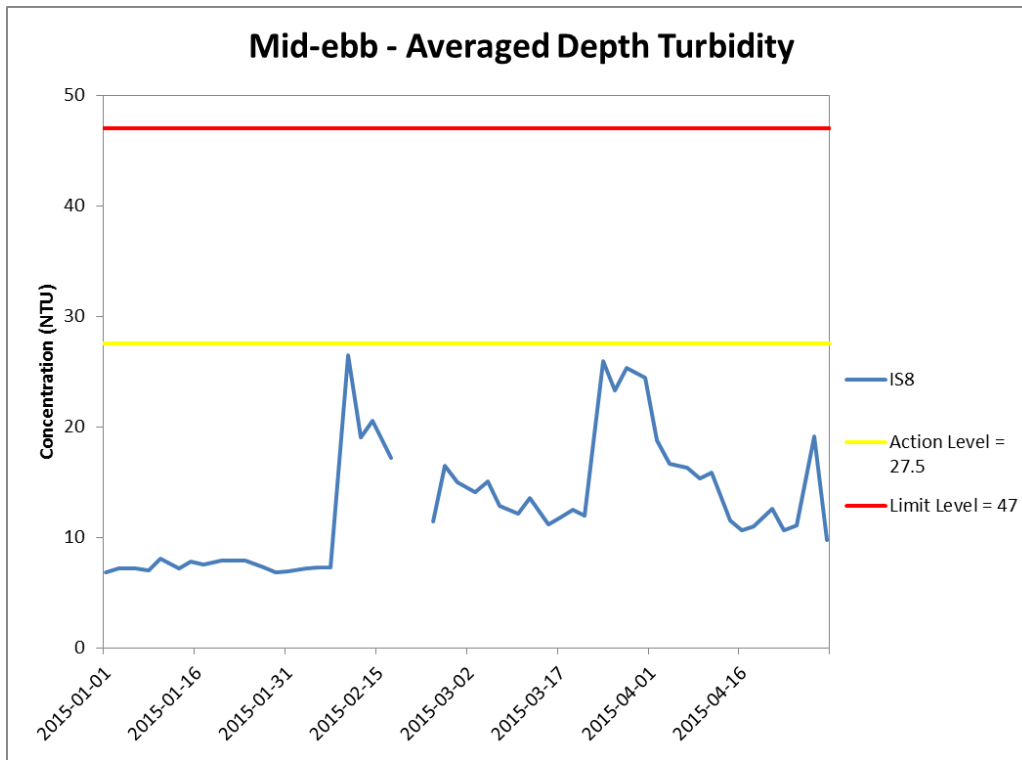


Figure J23 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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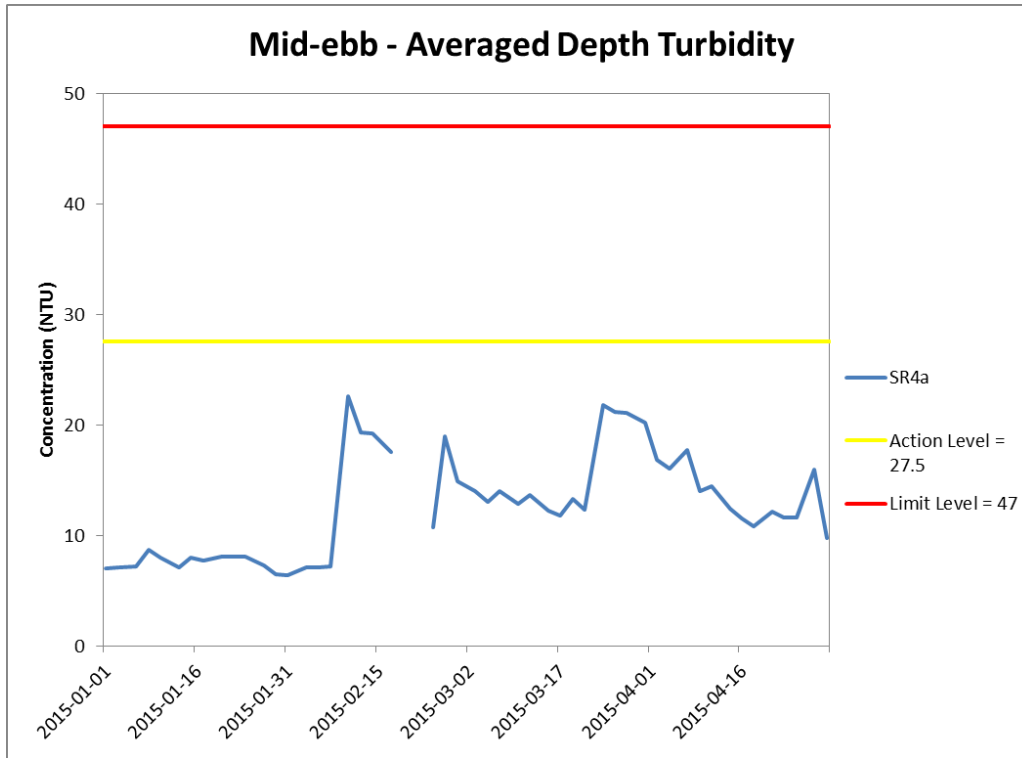


Figure J24 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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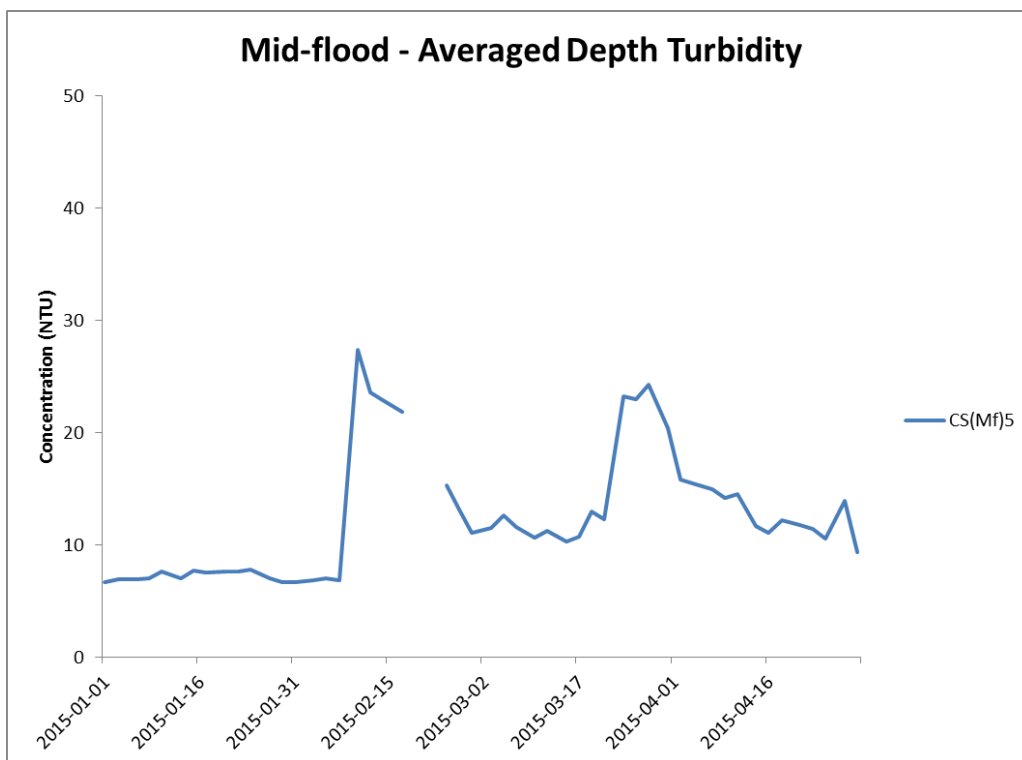
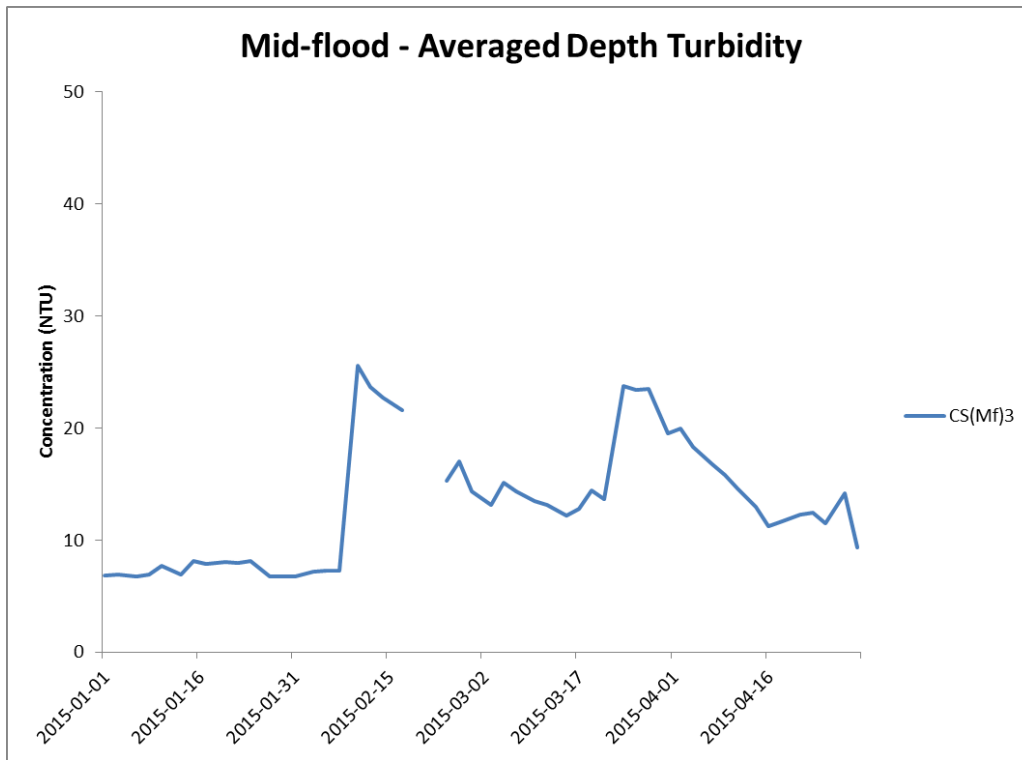


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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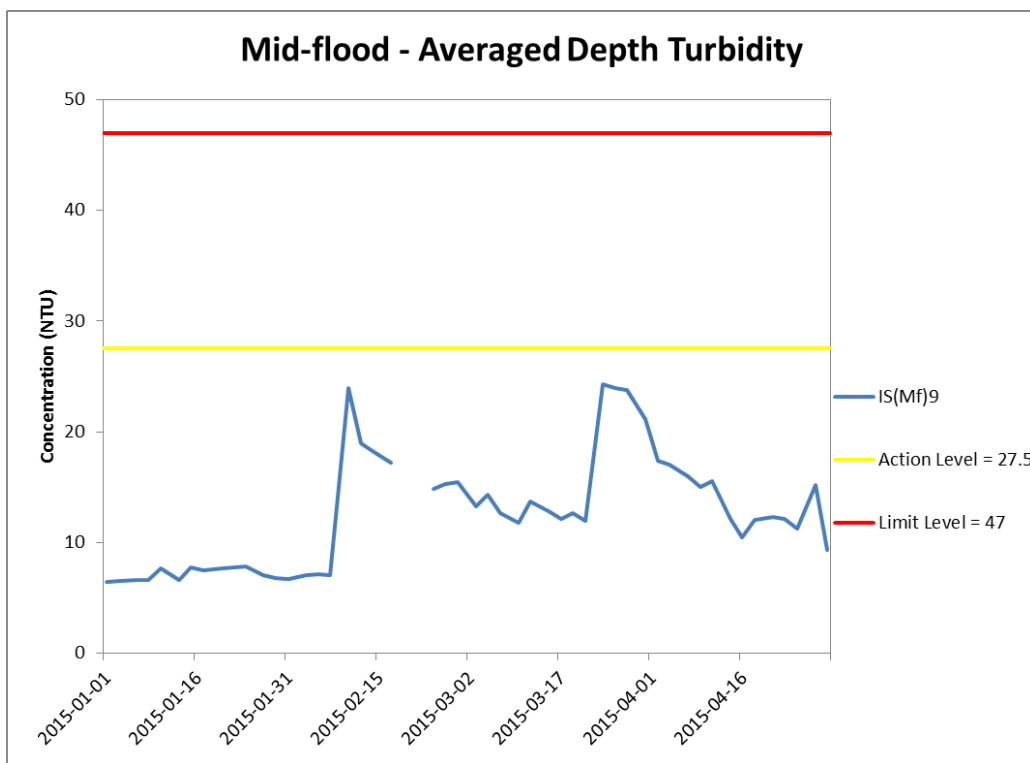
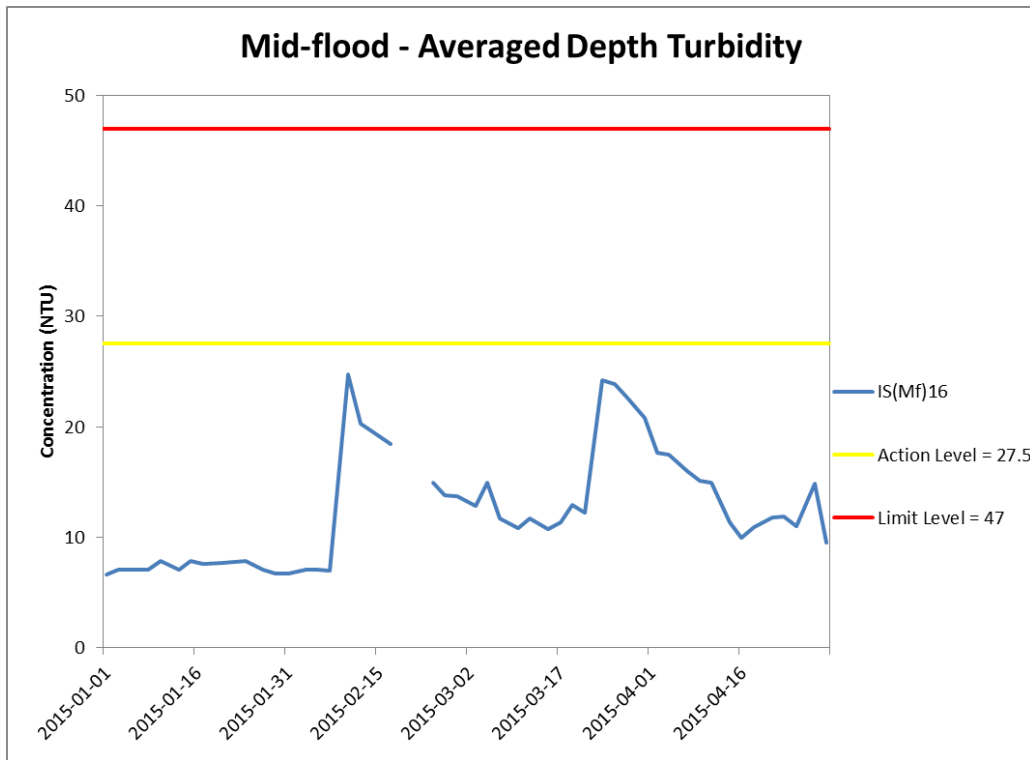


Figure J26 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
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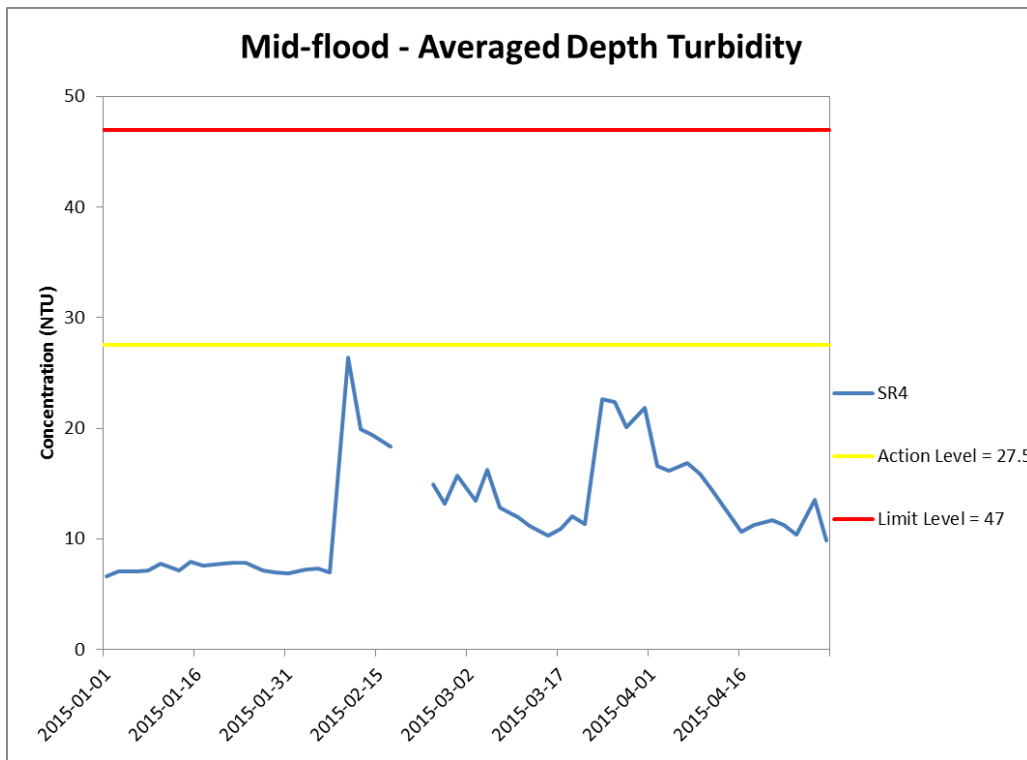
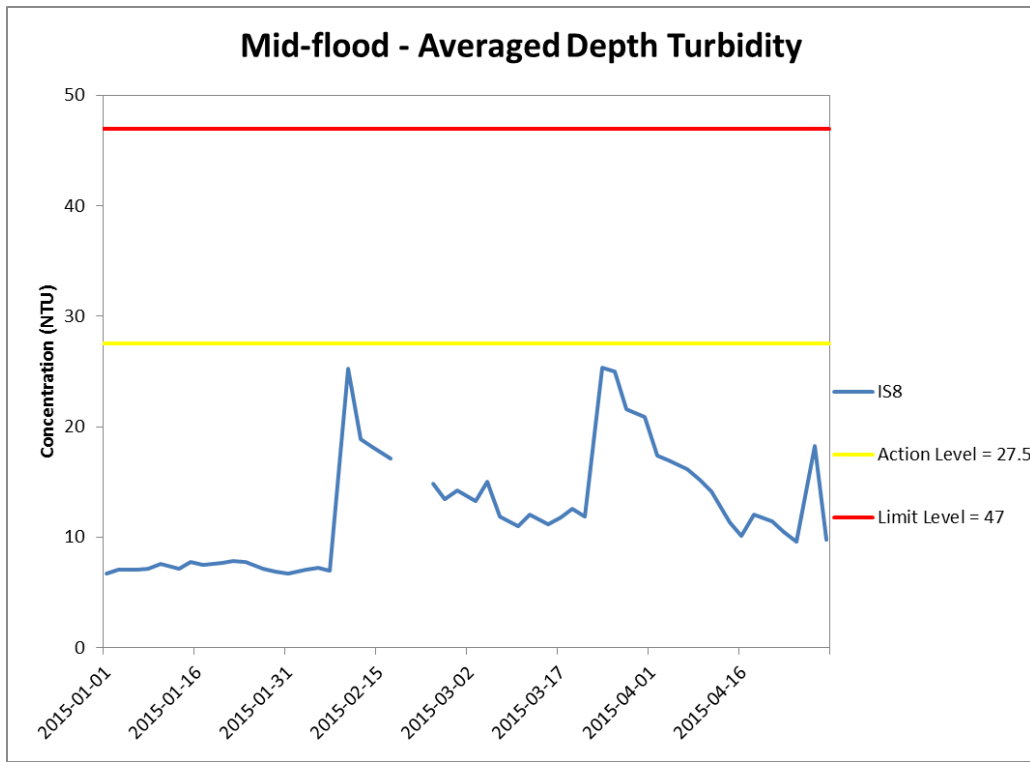


Figure J27 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



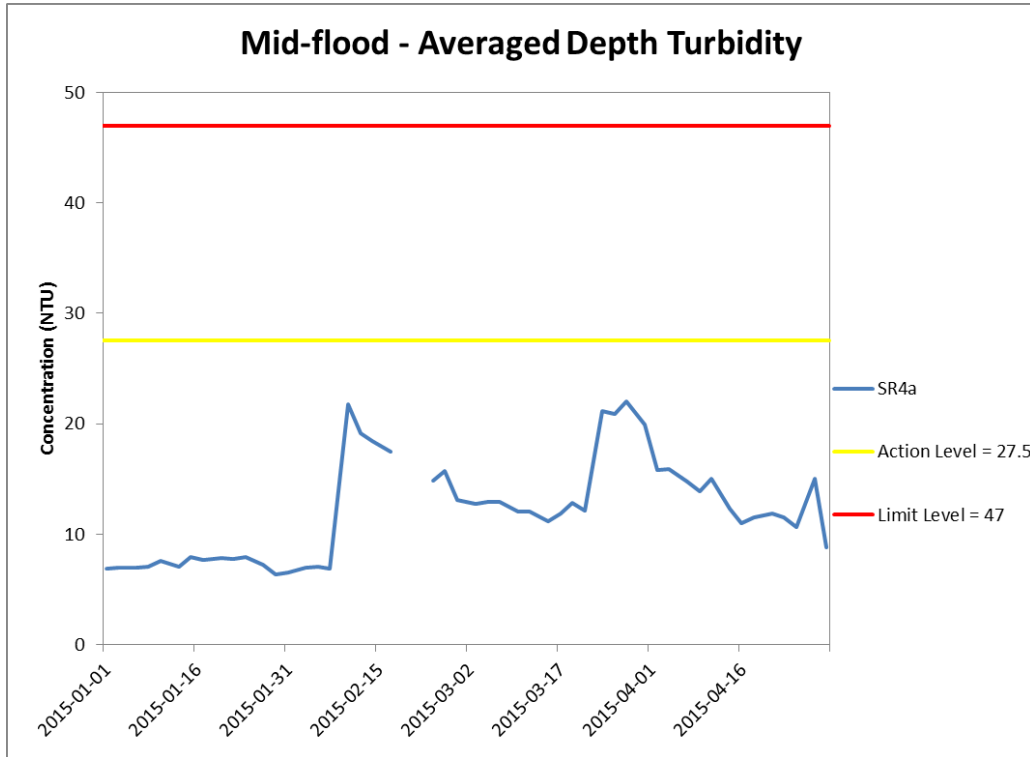


Figure J28 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

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Resources
Management**



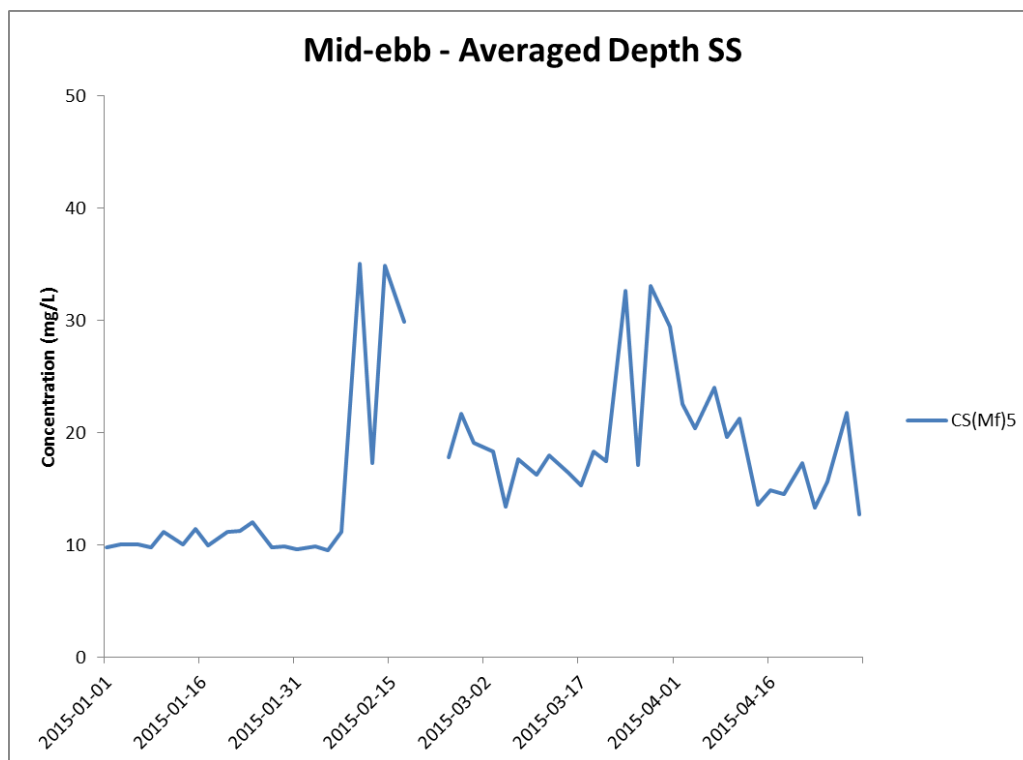
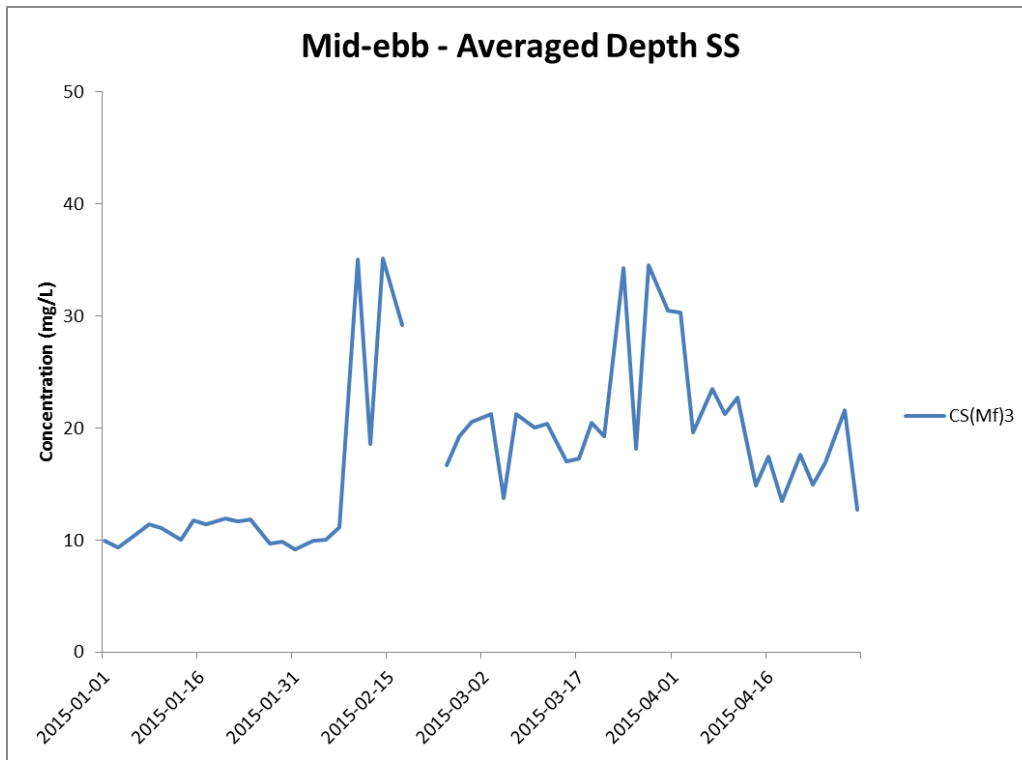


Figure J29 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



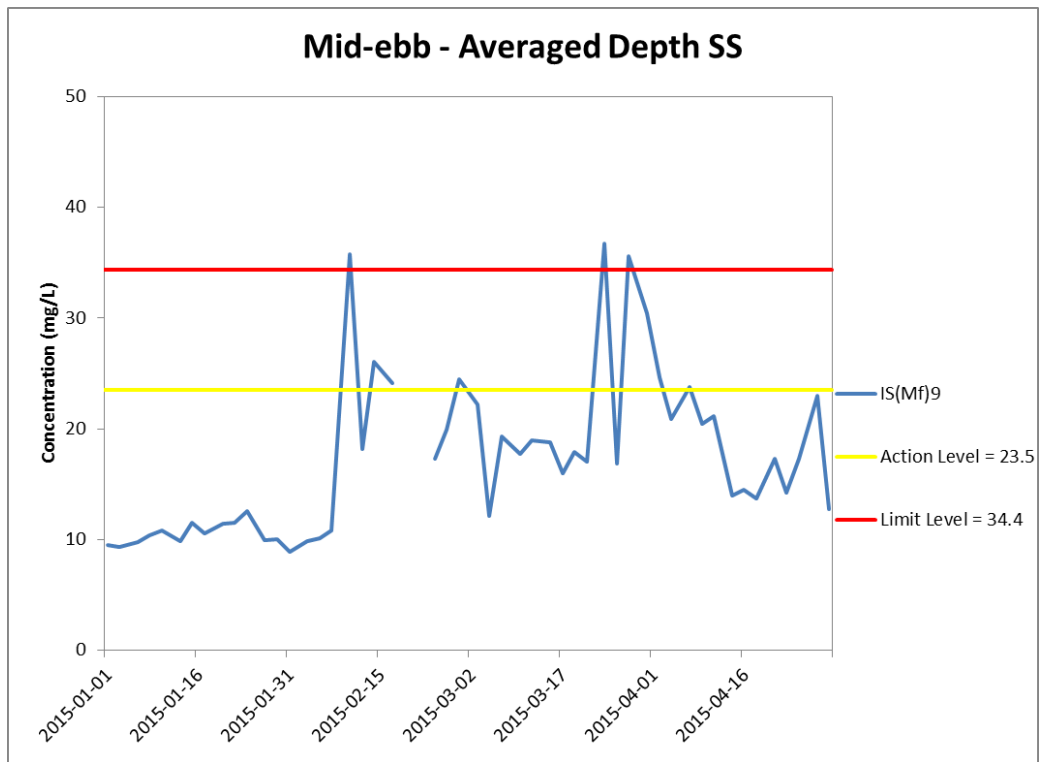
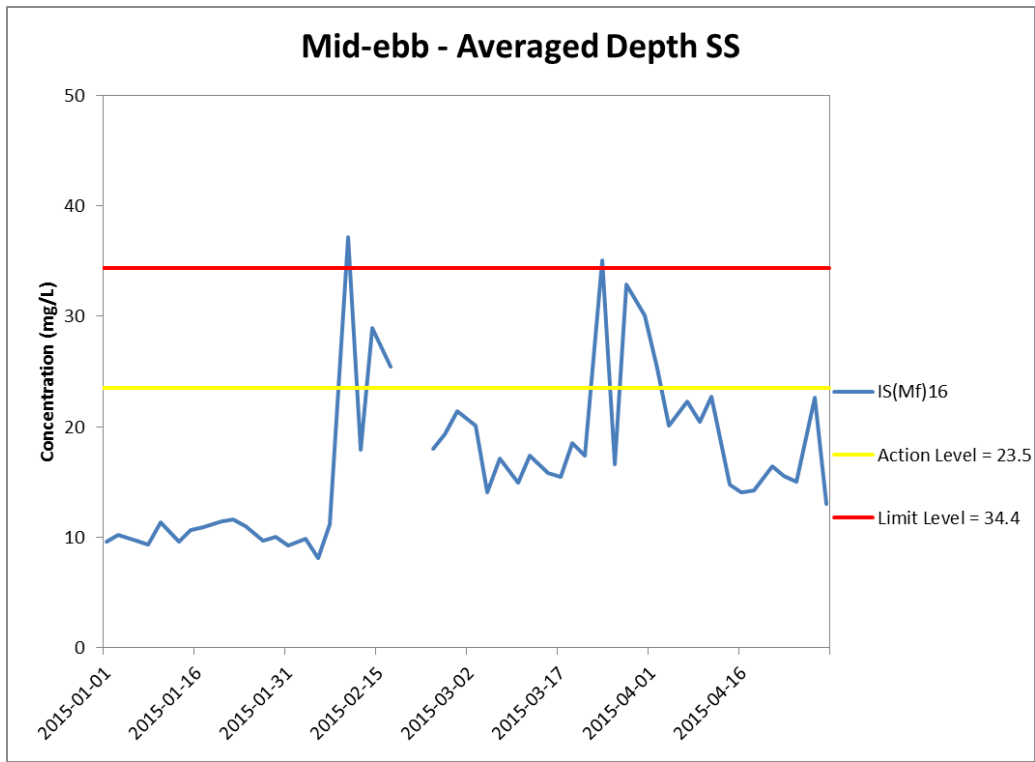


Figure J30 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015. The SS results higher than Action / Limit Levels were not considered as exceedances as the results were not higher than 120% of upstream control station.

**Environmental
Resources
Management**



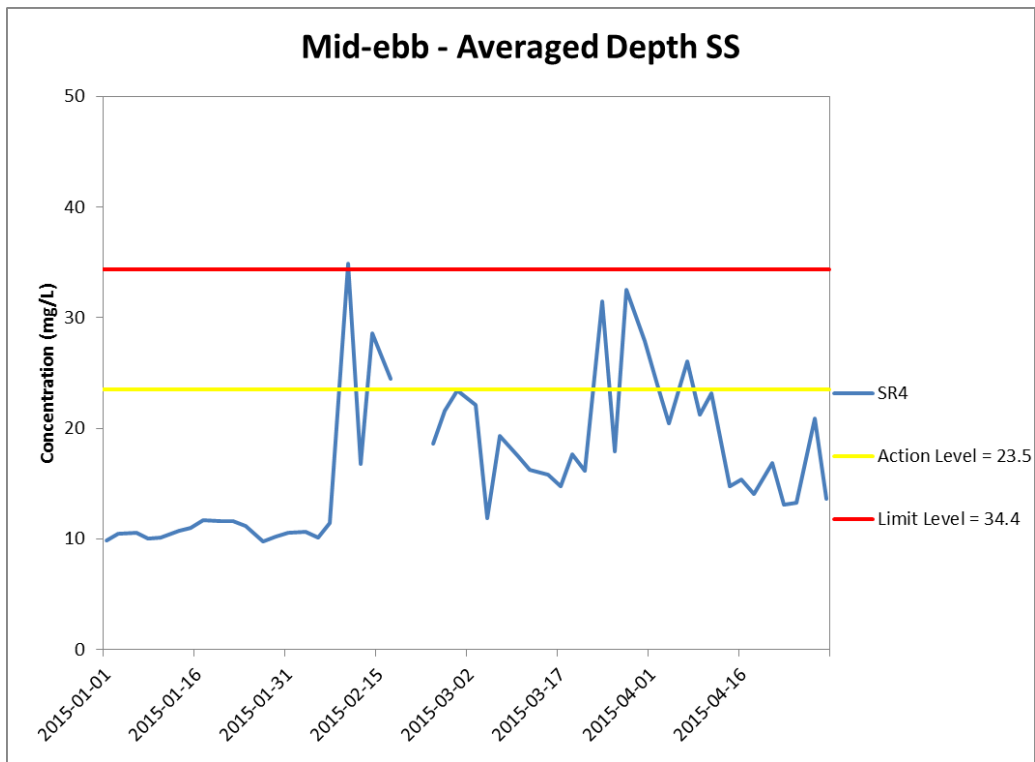
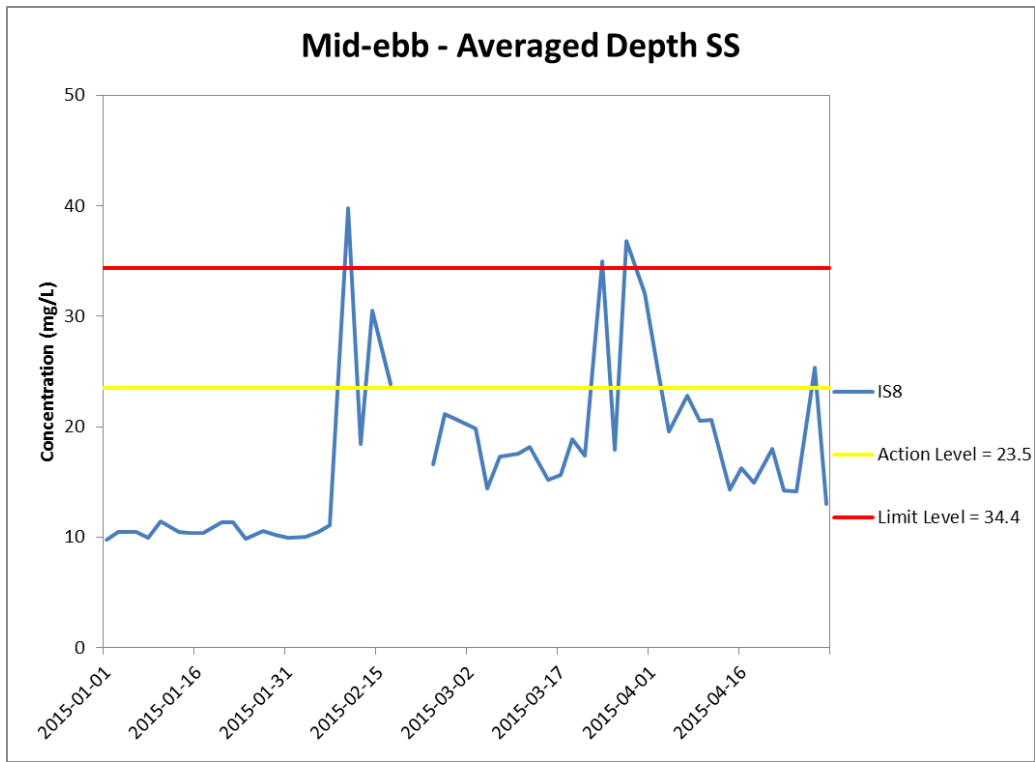


Figure J31 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015. The SS results higher than Action / Limit Levels were not considered as exceedances as the results were not higher than 120% of upstream control station.

**Environmental
Resources
Management**



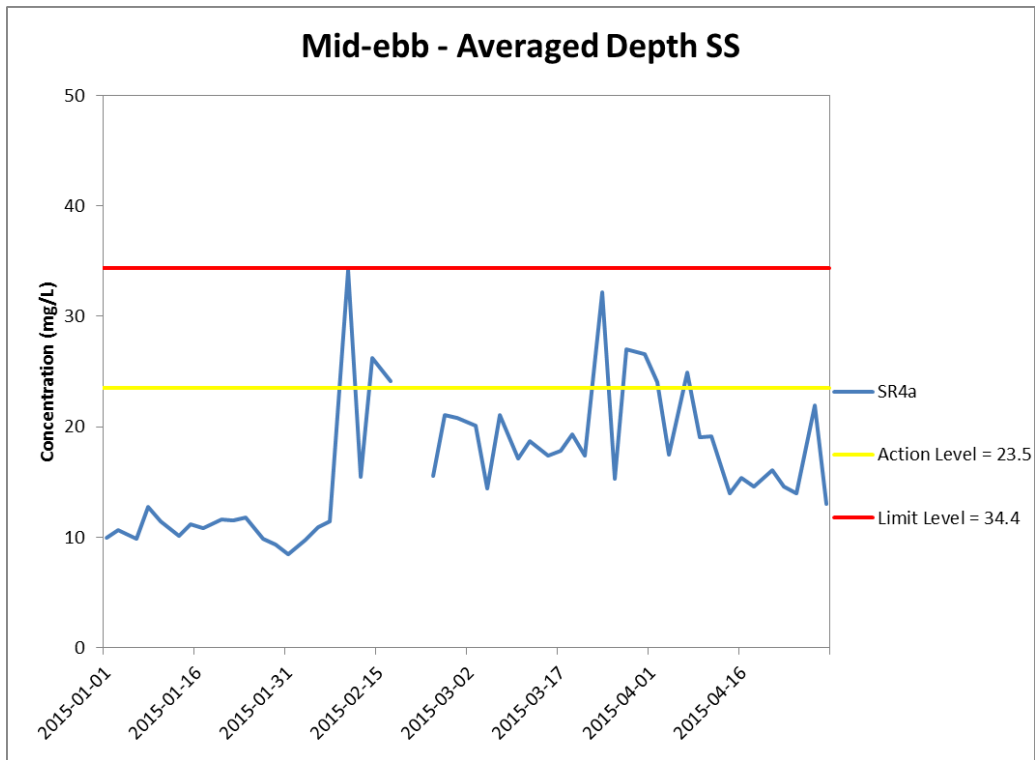


Figure J32 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015. The SS results higher than Action / Limit Levels were not considered as exceedances as the results were not higher than 120% of upstream control station.

**Environmental
Resources
Management**



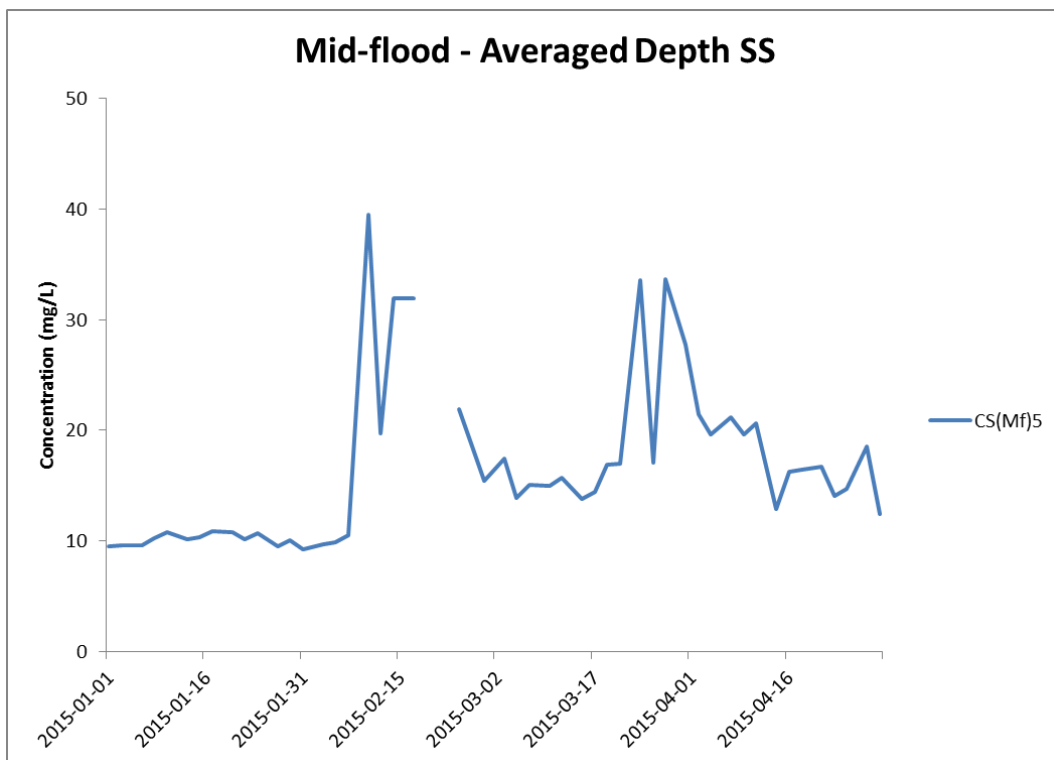
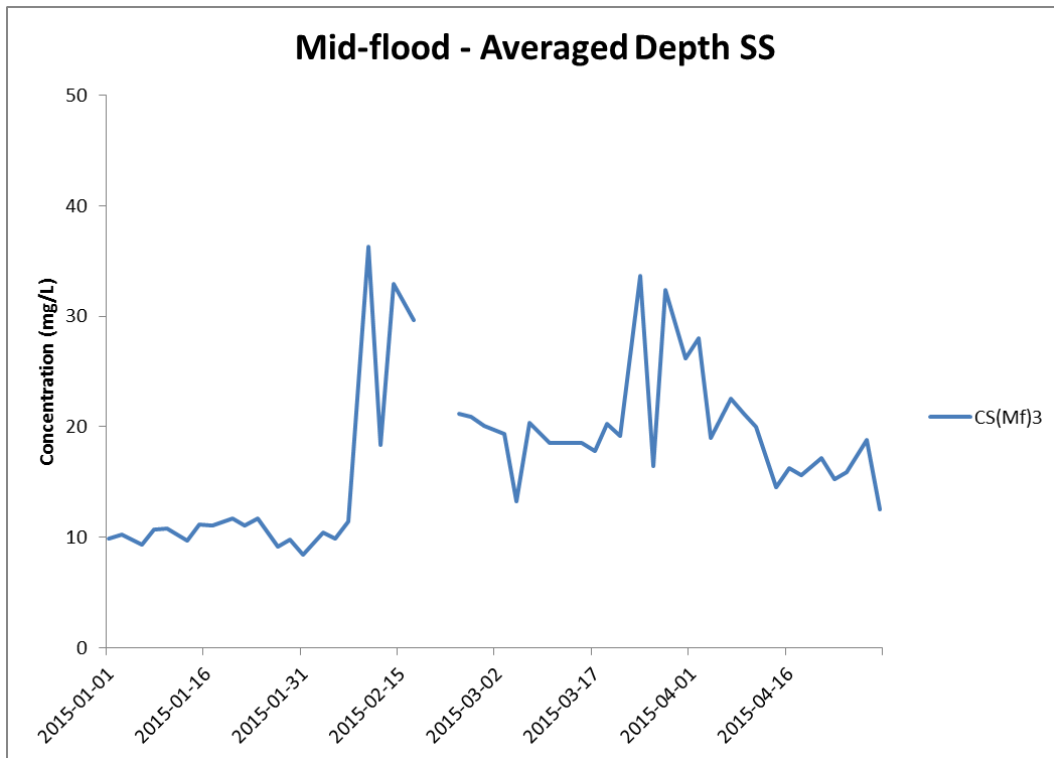


Figure J33 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2015 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstillation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015.

**Environmental
Resources
Management**



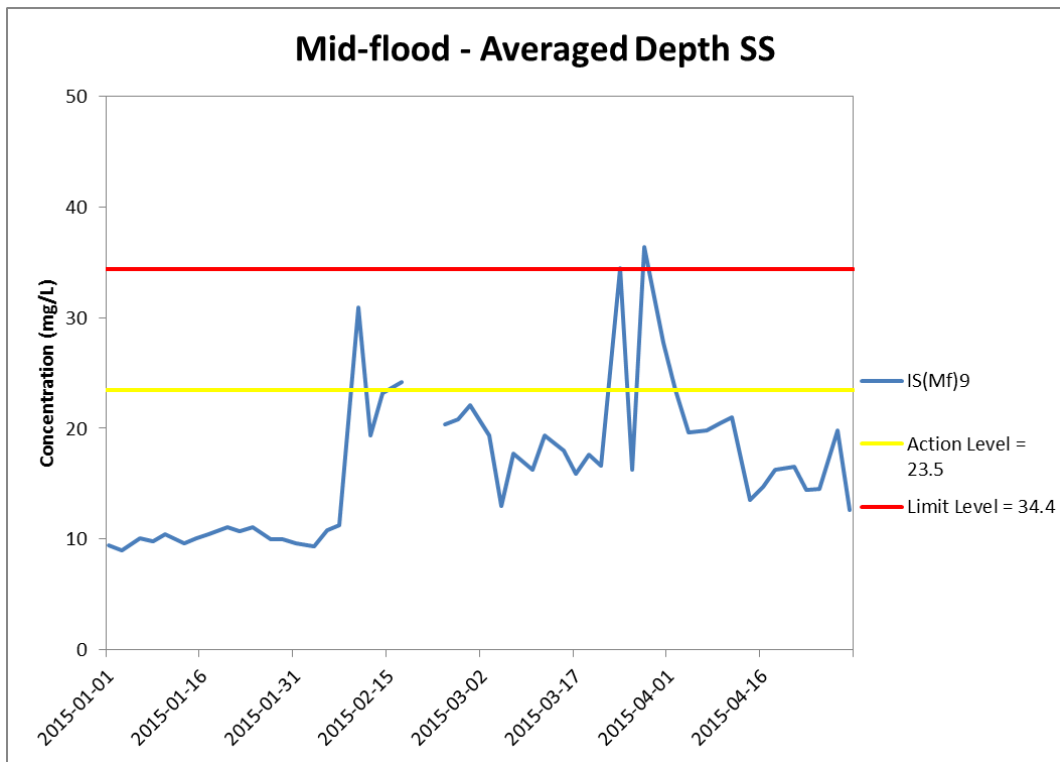
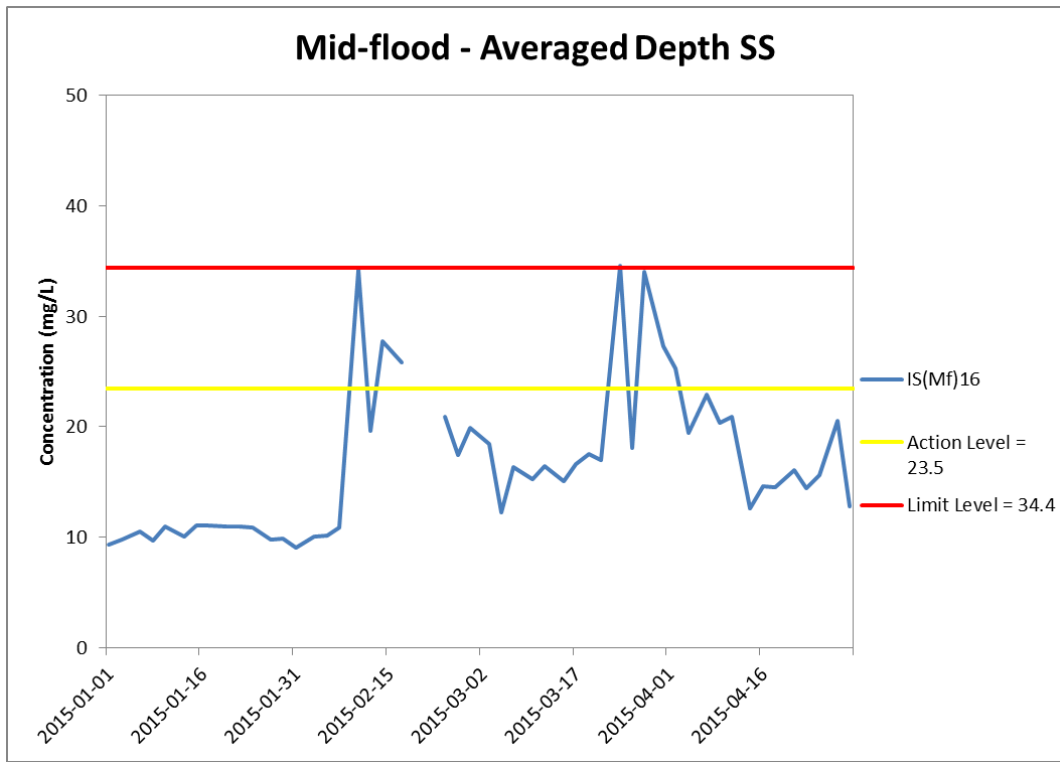


Figure J34 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2015 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015. The SS results higher than Action / Limit Levels were not considered as exceedances as the results were not higher than 120% of upstream control station.

**Environmental
Resources
Management**



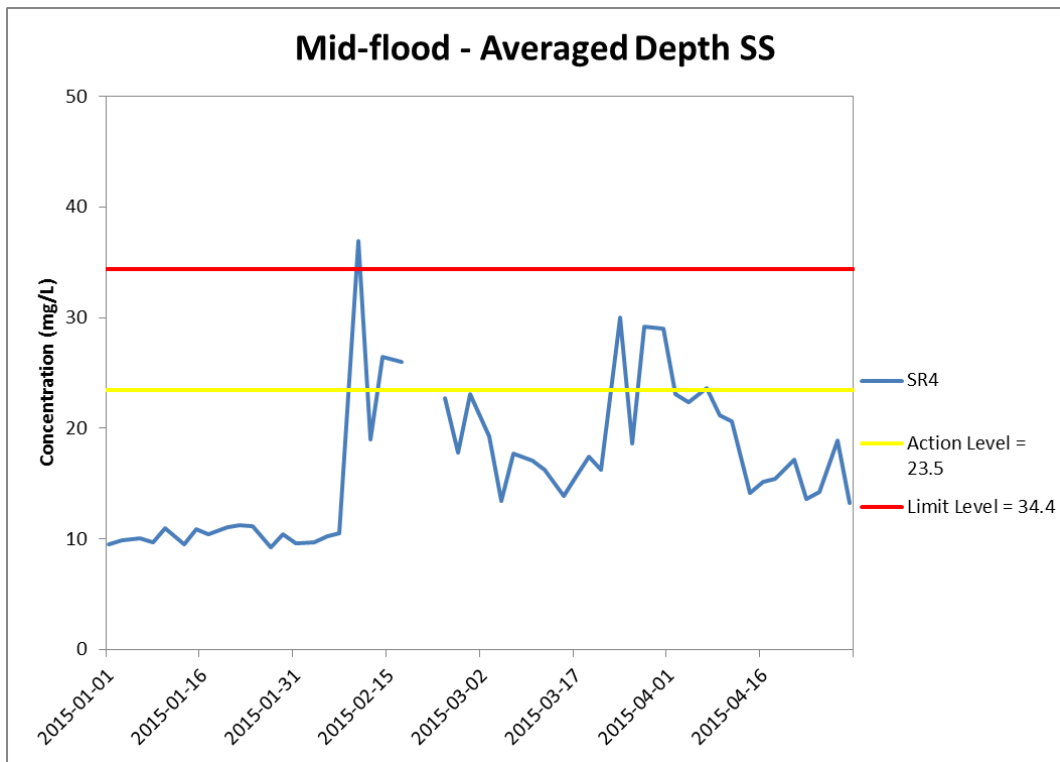
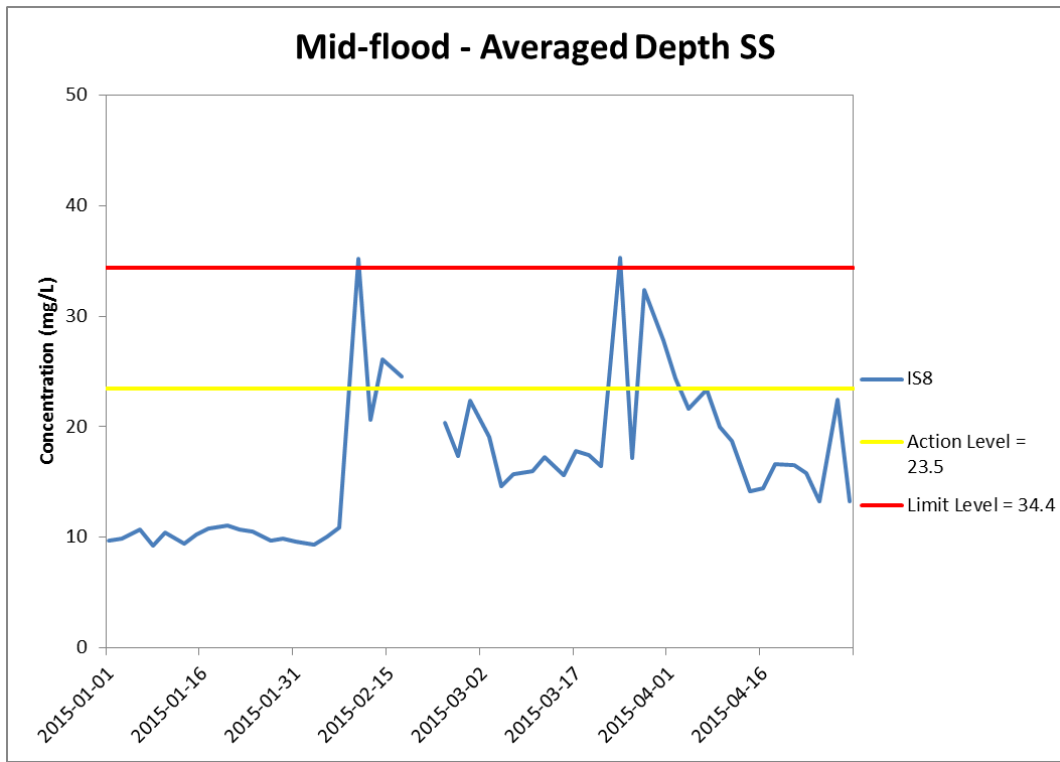


Figure J35 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2015 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015. The SS results higher than Action / Limit Levels were not considered as exceedances as the results were not higher than 120% of upstream control station.

**Environmental
Resources
Management**



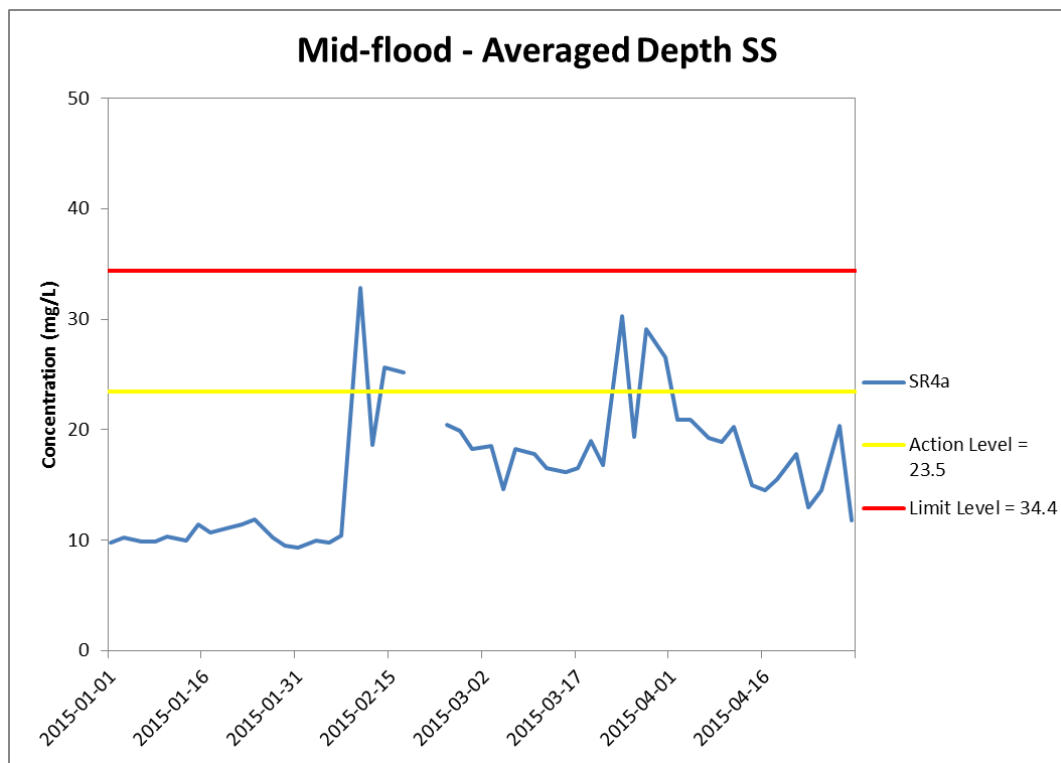


Figure J36 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 January and 30 April 2015 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include Construction and installation of pile caps; Marine piling platform installation & uninstallation; Pier construction; Installation of launching gantry; Marine piling and Installation of pier head segment.) No marine works was undertaken on 19 and 21 February 2015. The SS results higher than Action / Limit Levels were not considered as exceedances as the results were not higher than 120% of upstream control station.

**Environmental
Resources
Management**



Appendix K

Impact Dolphin Monitoring Survey Results

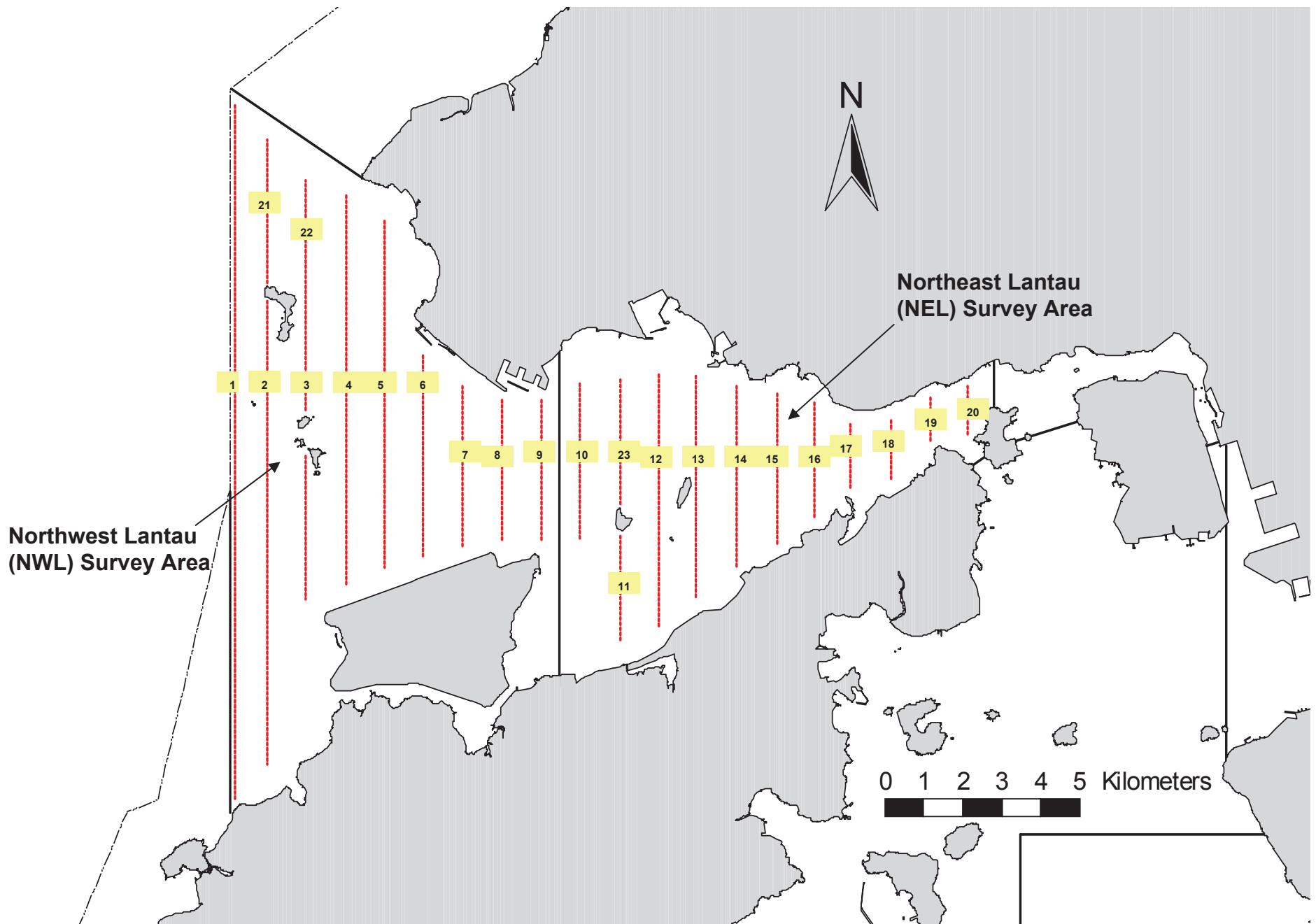


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

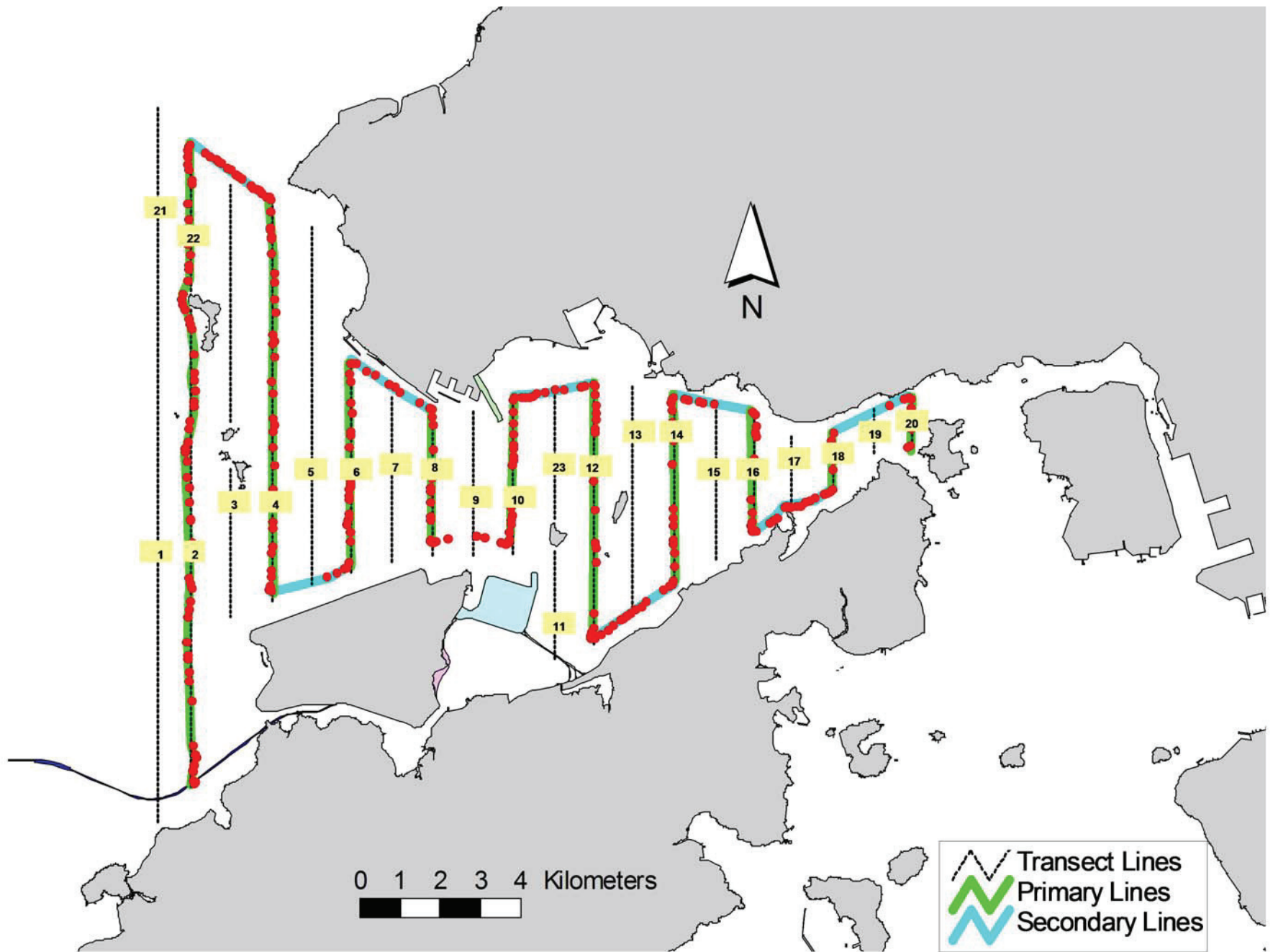


Figure 2. Survey Route on April 8th, 2015 (from HKLR03 project)

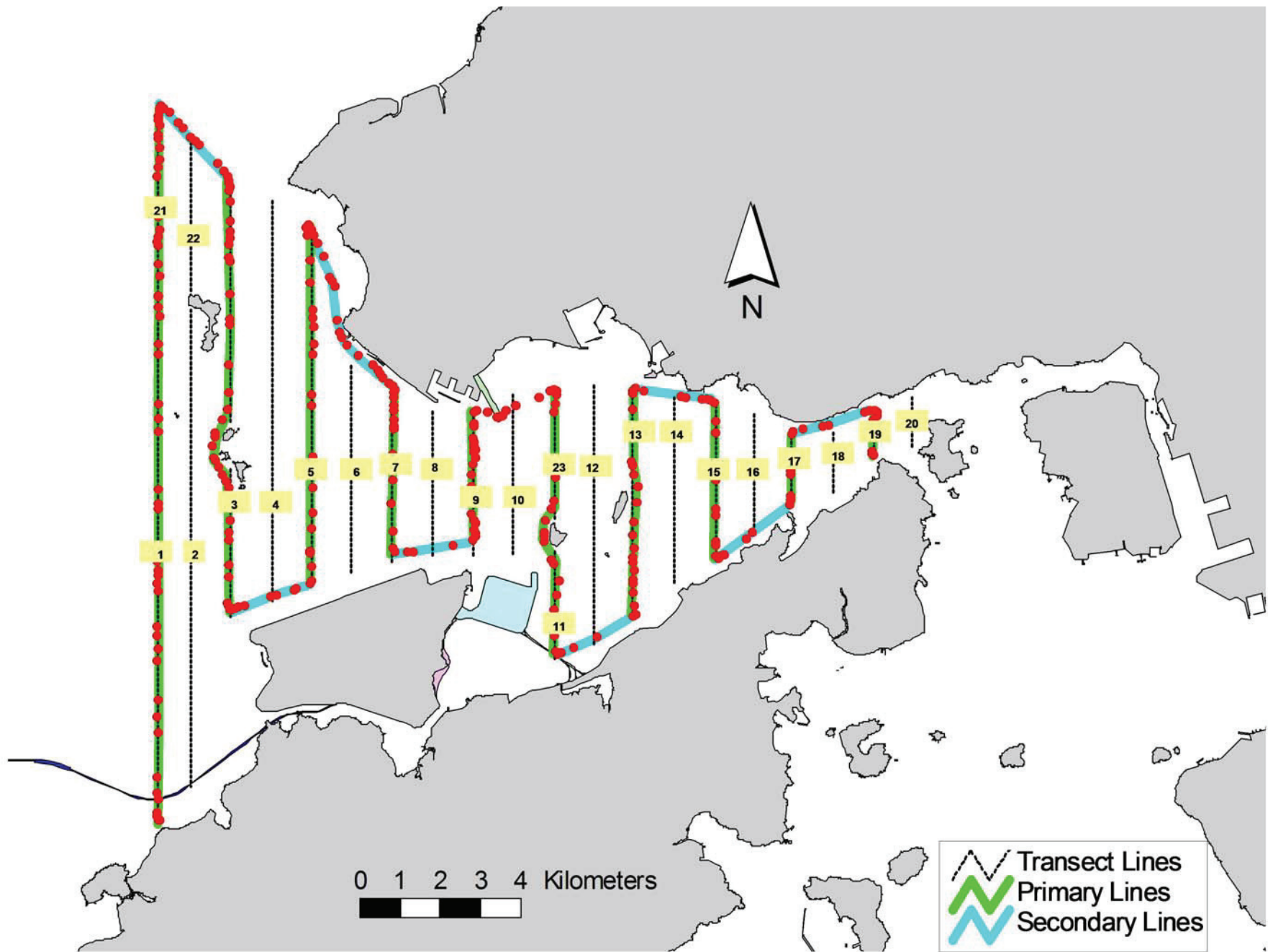


Figure 3. Survey Route on April 10th, 2015 (from HKLR03 project)

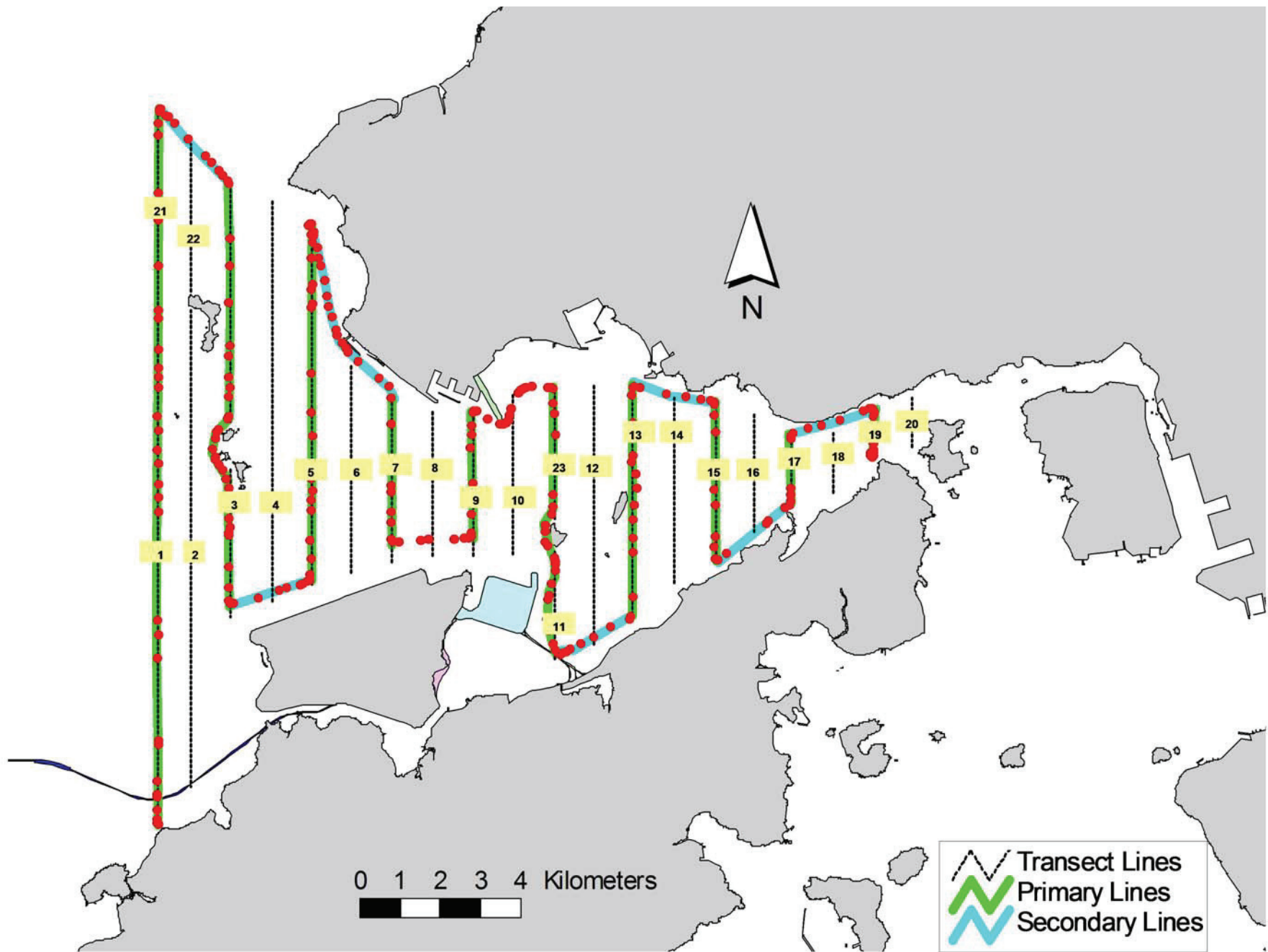


Figure 4. Survey Route on April 17th, 2015 (from HKLR03 project)

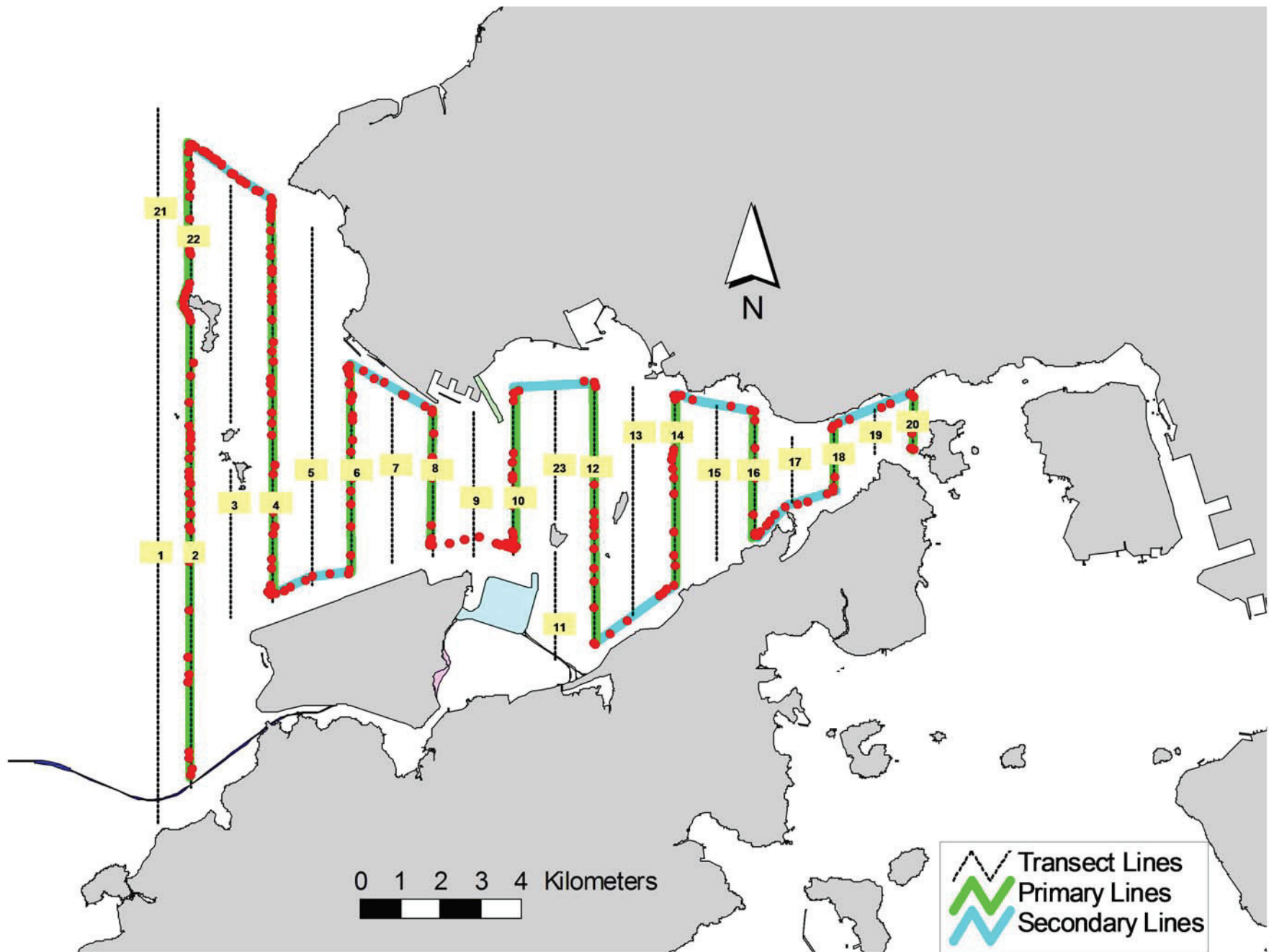


Figure 5. Survey Route on April 22nd, 2015 (from HKLR03 project)

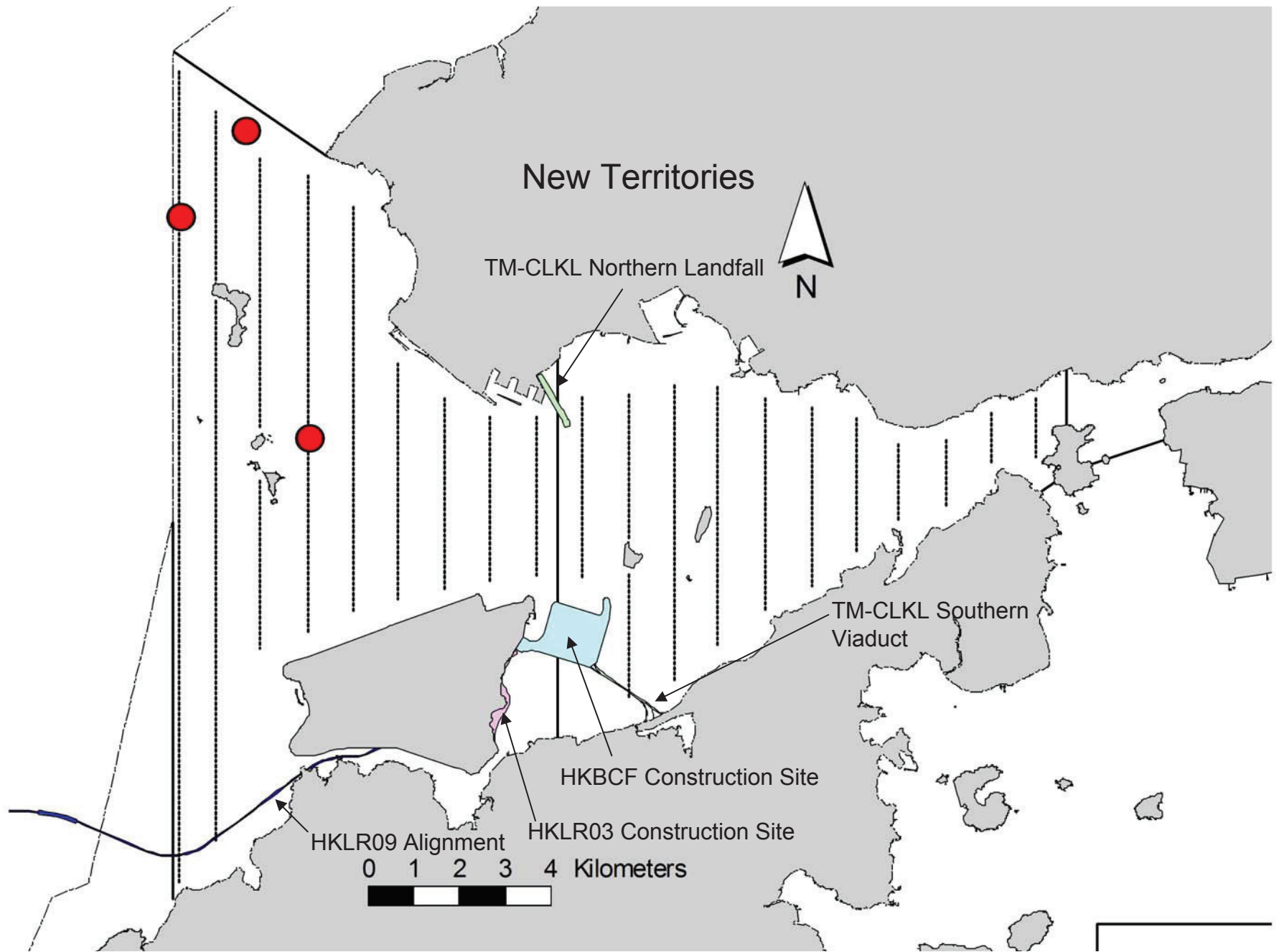


Figure 6. Distribution of Chinese White Dolphin Sightings During April 2015 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (April 2015)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
8-Apr-15	NE LANTAU	2	14.22	SPRING	STANDARD31516	HKLR	P
8-Apr-15	NE LANTAU	3	5.10	SPRING	STANDARD31516	HKLR	P
8-Apr-15	NE LANTAU	1	0.50	SPRING	STANDARD31516	HKLR	S
8-Apr-15	NE LANTAU	2	9.09	SPRING	STANDARD31516	HKLR	S
8-Apr-15	NE LANTAU	3	0.99	SPRING	STANDARD31516	HKLR	S
8-Apr-15	NW LANTAU	2	4.96	SPRING	STANDARD31516	HKLR	P
8-Apr-15	NW LANTAU	3	25.95	SPRING	STANDARD31516	HKLR	P
8-Apr-15	NW LANTAU	4	0.84	SPRING	STANDARD31516	HKLR	P
8-Apr-15	NW LANTAU	2	2.29	SPRING	STANDARD31516	HKLR	S
8-Apr-15	NW LANTAU	3	5.26	SPRING	STANDARD31516	HKLR	S
10-Apr-15	NW LANTAU	2	14.40	SPRING	STANDARD31516	HKLR	P
10-Apr-15	NW LANTAU	3	26.10	SPRING	STANDARD31516	HKLR	P
10-Apr-15	NW LANTAU	2	9.40	SPRING	STANDARD31516	HKLR	S
10-Apr-15	NW LANTAU	3	4.20	SPRING	STANDARD31516	HKLR	S
10-Apr-15	NE LANTAU	2	15.44	SPRING	STANDARD31516	HKLR	P
10-Apr-15	NE LANTAU	3	1.30	SPRING	STANDARD31516	HKLR	P
10-Apr-15	NE LANTAU	2	10.06	SPRING	STANDARD31516	HKLR	S
17-Apr-15	NW LANTAU	2	4.84	SPRING	STANDARD31516	HKLR	P
17-Apr-15	NW LANTAU	3	29.76	SPRING	STANDARD31516	HKLR	P
17-Apr-15	NW LANTAU	4	5.80	SPRING	STANDARD31516	HKLR	P
17-Apr-15	NW LANTAU	2	0.30	SPRING	STANDARD31516	HKLR	S
17-Apr-15	NW LANTAU	3	7.60	SPRING	STANDARD31516	HKLR	S
17-Apr-15	NW LANTAU	4	4.80	SPRING	STANDARD31516	HKLR	S
17-Apr-15	NE LANTAU	2	3.60	SPRING	STANDARD31516	HKLR	P
17-Apr-15	NE LANTAU	3	11.51	SPRING	STANDARD31516	HKLR	P
17-Apr-15	NE LANTAU	4	2.21	SPRING	STANDARD31516	HKLR	P
17-Apr-15	NE LANTAU	2	4.41	SPRING	STANDARD31516	HKLR	S
17-Apr-15	NE LANTAU	3	5.07	SPRING	STANDARD31516	HKLR	S
22-Apr-15	NE LANTAU	2	20.00	SPRING	STANDARD31516	HKLR	P
22-Apr-15	NE LANTAU	2	10.90	SPRING	STANDARD31516	HKLR	S
22-Apr-15	NW LANTAU	1	3.24	SPRING	STANDARD31516	HKLR	P
22-Apr-15	NW LANTAU	2	25.27	SPRING	STANDARD31516	HKLR	P
22-Apr-15	NW LANTAU	3	3.37	SPRING	STANDARD31516	HKLR	P
22-Apr-15	NW LANTAU	2	7.07	SPRING	STANDARD31516	HKLR	S
22-Apr-15	NW LANTAU	3	0.85	SPRING	STANDARD31516	HKLR	S

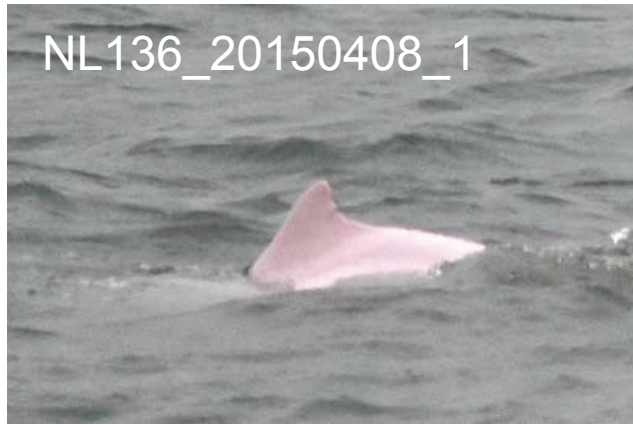
Appendix II. HKLR03 Chinese White Dolphin Sighting Database (April 2015)

(Abberviations: 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
08-Apr-15	1	1309	3	NW LANTAU	3	142	ON	HKLR	823791	807532	SPRING	NONE	P
10-Apr-15	1	1103	2	NW LANTAU	2	ND	OFF	HKLR	828359	804688	SPRING	NONE	
22-Apr-15	1	1432	8	NW LANTAU	2	354	ON	HKLR	830139	806113	SPRING	NONE	S

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in April 2015

ID#	DATE	STG#	AREA
NL104	22/04/15	1	NW LANTAU
NL136	08/04/15	1	NW LANTAU
NL153	22/04/15	1	NW LANTAU
NL202	22/04/15	1	NW LANTAU
NL236	22/04/15	1	NW LANTAU
NL286	22/04/15	1	NW LANTAU
NL307	22/04/15	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in April 2015 (HKLR03)

Appendix L

Event Action Plan

Appendix L1 Event/ Action Plan for Air Quality

EVENT	ET ⁽¹⁾	ACTION		
		IEC ⁽¹⁾	SOR ⁽¹⁾	Contractor
Action Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify the source. 2. Inform the IEC and the SOR. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check the Contractor's working method. 3. Discuss with the ET and the Contractor on possible remedial measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to IEC within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

EVENT	ET ⁽¹⁾	ACTION		
		IEC ⁽¹⁾	SOR ⁽¹⁾	Contractor
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify the source. 2. Inform the SOR and the DEP. 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET. 2. Check Contractor's working method. 3. Discuss with the ET 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures are properly implemented. 	<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. Amend proposal if appropriate
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify the IEC, the SOR, the DEP and the Contractor. 2. Identify the source. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. 7. Assess effectiveness of the Contractor's remedial actions 	<ol style="list-style-type: none"> 1. Discuss amongst the SOR, 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. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. 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.

and keep the IEC, the DEP and
the SOR informed of the results.

8. If the exceedance stops, cease
additional monitoring.

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	<ol style="list-style-type: none"> 1. Repeat in situ measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and SOR; 4. Check monitoring data, all plant, equipment and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor. 	<ol style="list-style-type: none"> 1. Inform the SOR and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SOR and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SOR and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Action level; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; 4. Supervise the implementation of mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with IEC on the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented; 3. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the Supervising Officer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 	<ol style="list-style-type: none"> 1. Inform the SOR and confirm notification of the non-compliance in writing;

Event	ET Leader	IEC	SOR	Contractor
	2. Identify source(s) of impact;		2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;	2. Rectify unacceptable practice;
	3. Inform IEC, contractor, SOR and EPD;	2. Discuss with ET and Contractor on possible remedial actions;		3. Check all plant and equipment and consider changes of working methods;
	4. Check monitoring data, all plant, equipment and Contractor's working methods;	3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly.	3. Request Contractor to review the working methods.	4. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
	5. Discuss mitigation measures with IEC, SOR and Contractor;			
Limit level being exceeded by two or more consecutive sampling days	1. Repeat measurement on next day of exceedance to confirm findings;	1. Check monitoring data submitted by ET and Contractor's working method;	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures;	1. Take immediate action to avoid further exceedance;
	2. Identify source(s) of impact;			2. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR;
	3. Inform IEC, contractor, SOR and EPD;	2. Discuss with ET and Contractor on possible remedial actions;	2. Request Contractor to critically review the working methods;	3. Implement the agreed mitigation measures;
	4. Check monitoring data, all plant, equipment and Contractor's working methods;	3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly;	3. Make agreement on the mitigation measures to be implemented;	4. Resubmit proposals of mitigation measures if problem still not under control;
	5. Discuss mitigation measures with IEC, SOR and Contractor;		4. Ensure mitigation measures are properly implemented;	
	6. Ensure mitigation measures are implemented;	4. Supervise the implementation of mitigation measures.	6. 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.	5. 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.
	7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;			

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
<p><u>Action Level</u></p> <p>With the numerical values presented in <i>Table 5.7 of Baseline Monitoring Report</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 of Baseline Monitoring Report</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</p>	<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
<p><u>Limit Level</u></p> <p>With the numerical values presented in Table 5.7 of <i>Baseline Monitoring Report</i>, 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 of <i>Baseline Monitoring Report</i>), 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</p>	<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, DEP – Director of Environmental Protection

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 2015 (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	Marine Sediment, Cat. H	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	13.578	0.081	0.990	-	12.474	0.115	0.178	0.229	0.258	-	132.170	-	-	0.091	-	
Feb	6.233	0.148	0.461	-	5.759	0.014	0.801	0.110	0.223	0.400	141.020	-	-	0.112	-	
Mar	10.149	0.220	0.473	-	9.600	0.077	0.618	0.073	0.149	-	120.940	-	-	0.203	-	
Apr	9.579	0.363	1.885	-	7.694	-	-	-	-	-	133.630	-	-	0.105	-	
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUB-TOTAL	39.540	0.812	3.808	-	35.526	0.206	1.597	0.412	0.630	0.400	527.760	-	0.000	0.511	-	
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL	39.540	0.812	3.808	-	35.526	0.206	1.597	0.412	0.630	0.400	527.760	-	-	0.511	-	

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.
- 4 - Assumed 5 kg per damaged water-filled barrier.
- 5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

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	7
	Limit	0	1

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 (April 2015)	0	0	0
Total No. received since project commencement	2	0	0