

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

Fourteenth Monthly EM&A Report

09 January 2015

Environmental Resources Management
16/F, Berkshire House
25 Westlands Road
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Contract No. HY/2012/07





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

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Fourteenth Monthly EM&A Report

Document Code: 0215660_14th Monthly EM&A 20150108.doc

Client: Gammon		Project No: 0215660			
Summary: This document presents the Fourteenth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 09 January 2015			
		Approved by: 			
		Mr Craig Reid Partner			
		Certified by: 			
		Mr Jovy Tam ET Leader			
	Fourteenth Monthly EM&A Report	VAR	JT	CAR	09/01/15
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_2617L.14

13 January 2015

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

By Fax (3691 2899) and By Post

Attention: Mr. Daniel Ip

Dear Sir,

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

**Contract No. HY/2012/07
Tuen Mun – Chek Lap Kok Link
Southern Connection Viaduct Section
Monthly EM&A report for December 2014 (EP-354/2009/C)**

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (December 2014) certified by the ET Leader (ERM reference: 0215660_14th Monthly EM&A 20150108.doc dated 9 January 2015) provided to us via email on 12 January 2015.

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

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, 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* and *EP-354/2009/C*, were granted on 28 January 2014 and 10 December 2014, 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 Fourteenth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 December 2014 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Marine Works

- Construction of Pile caps at Viaducts B & E;
- Marine piling platform installation for Viaducts A, B, C, D & E;
- Marine Piling at Viaducts B, C, D & E; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Pre-drilling works at Viaduct A;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- 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	5 sessions at ASR9; 6 sessions at ASR8A
1-hour TSP monitoring	5 sessions at ASR9; 6 sessions at ASR8A
Noise monitoring	5 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 impact water quality monitoring in the reporting month.

Impact Dolphin Monitoring

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

Daily marine mammal exclusion zone monitoring was undertaken during the period of marine works under this Contract. Passive Acoustic Monitoring (PAM) was implemented when the marine 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 December 2014 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

There was no reporting change required in the reporting period.

Upcoming Works for the Next Reporting Period

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

Marine Works

- Construction of Pile caps at Viaducts B & E;
- Marine piling platform installation for Viaducts A, B, C, D & E;
- Marine Piling at Viaducts B, C, D & E; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Pre-drilling works at Viaduct A;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- Utility surveys; 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 January 2015 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

1.1

BACKGROUND

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

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-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* and *EP-354/2009/C*, were granted on 28 January 2014 and 10 December 2014, 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*.

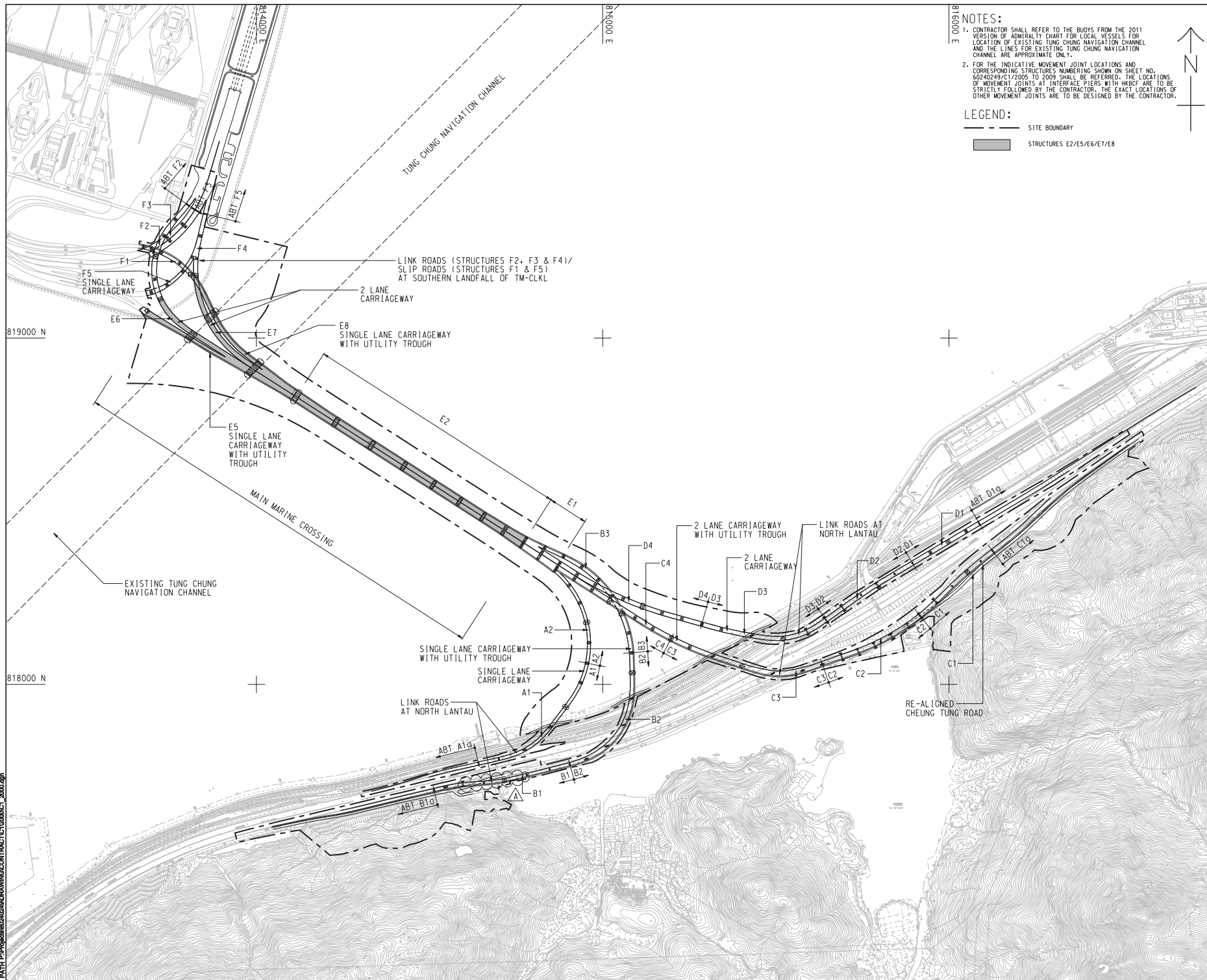


Figure 1.1

General Layout Plan of the Project

Environmental
Resources
Management





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:
 [Dashed line] SITE BOUNDARY
 [Grey shaded area] 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
 港務局大橋及港務工程處
 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	DIMENSION UNIT
A1 : 6000	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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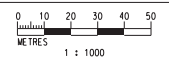


KEY PLAN

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 NL8/97
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
 - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
 - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
 - PROPOSED G.I.-STATIONS :
 - ⊕ PBH01 PROPOSED BOREHOLE
 - ⊕ TP01 PROPOSED TRIAL PIT
 - ⊕ CH01 PROPOSED COREHOLE
 - SS01 SS02 PROPOSED SLOPE STRIPPING

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				

Drawn RL	Date 07/13	Client HONG KONG HIGHWAYS DEPARTMENT 香港路政署 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
Checked DS	Approved DOP	Supervising Officer AECOM
Scale 1:1000 @ A1 / 1:2000 @ A3	Contractor GAMMON	

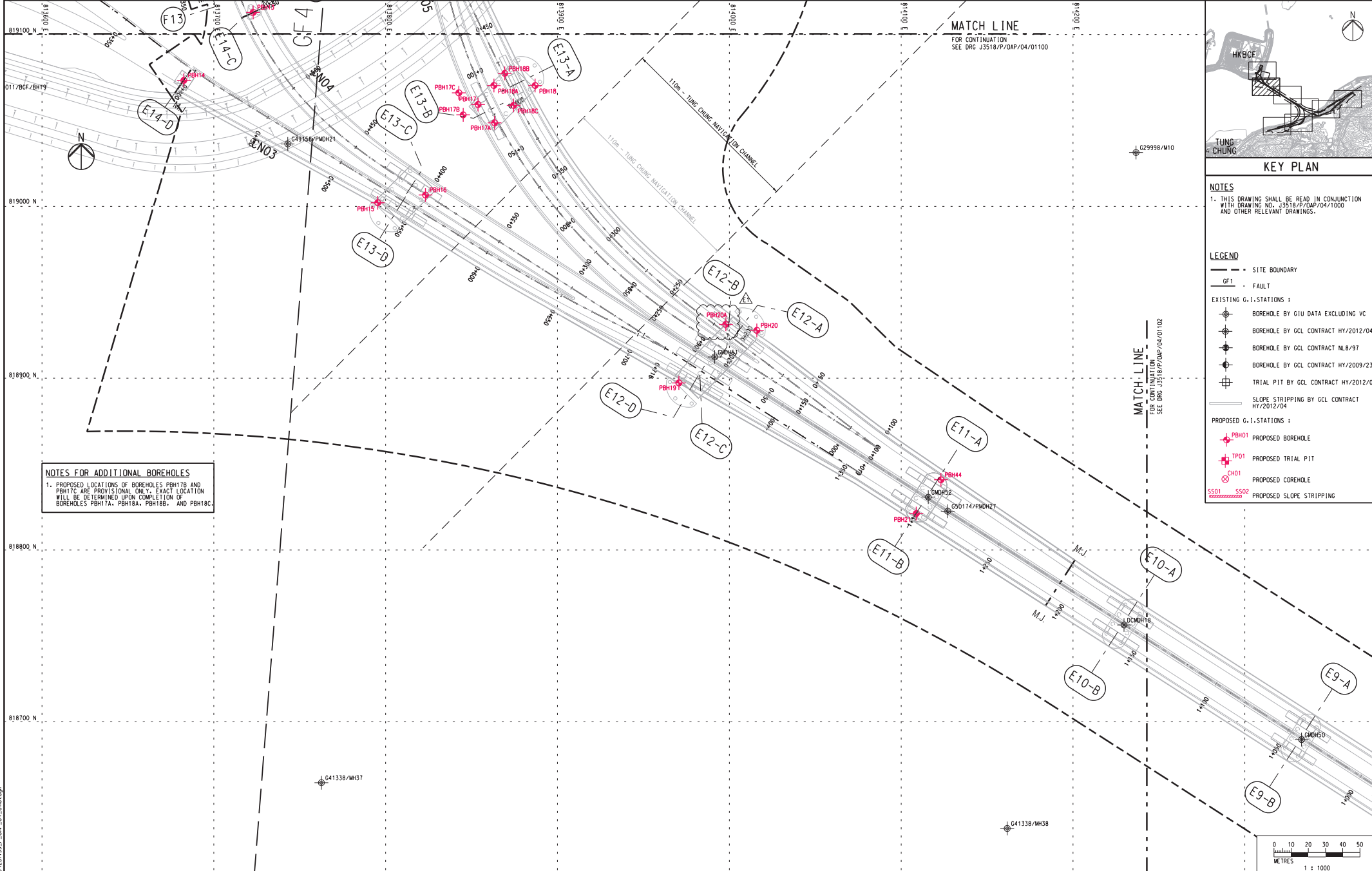
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Contract No. HY/2012/07
Tuen Mun - Chek Lap Kok Link
Southern Connection Viaduct Section

Originator
ARUP

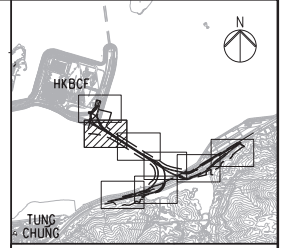
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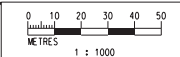
NOTES FOR ADDITIONAL BOREHOLES
 1. PROPOSED LOCATIONS OF BOREHOLES PBH17B AND PBH17C ARE PROVISIONAL ONLY. EXACT LOCATION WILL BE DETERMINED UPON COMPLETION OF BOREHOLES PBH17A, PBH18A, PBH18B, AND PBH18C.



KEY PLAN

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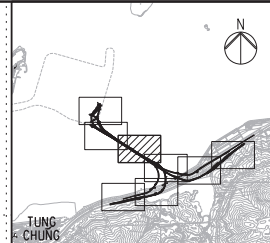
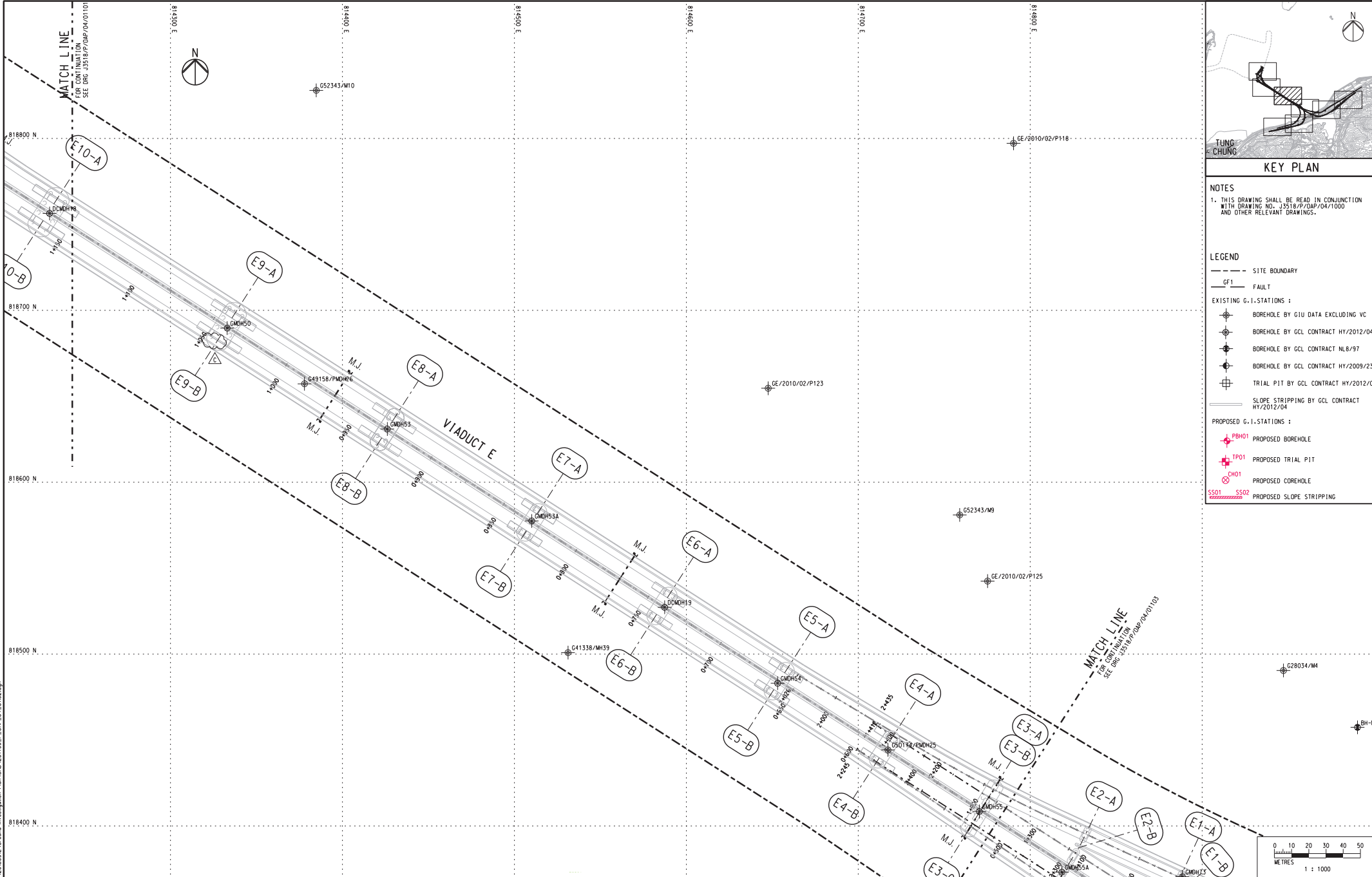
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 - ⊕ TP01 PROPOSED TRIAL PIT
 - ⊕ CH01 PROPOSED COREHOLE
 - ▬ SS01 ▬ SS02 PROPOSED SLOPE STRIPPING



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C	SUBMISSION	RC	09/13									
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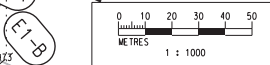
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C	SUBMISSION	RC	09/13				

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1:1000 @ A1 / 1:2000 @ A3

Client

 路政署 HIGHWAYS DEPARTMENT
 香港港大聯合港工程管理局
 Hong Kong Project Management Office

Supervising Officer

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

Contractor

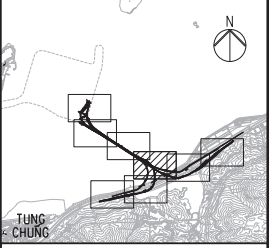
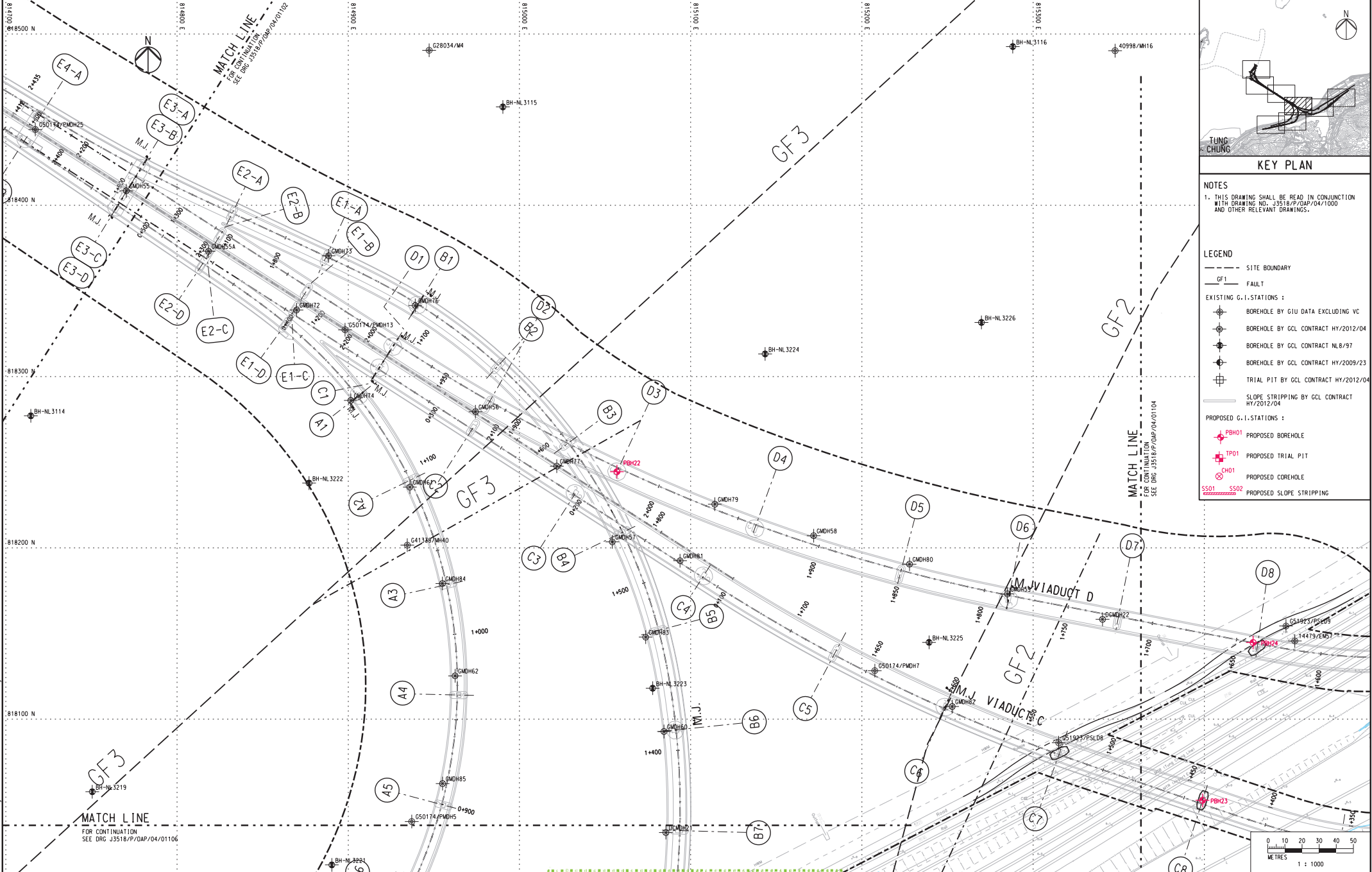
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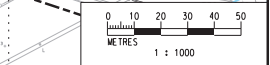
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C	SUBMISSION	RC	09/13				

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DS	DOP

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Client

Supervising Officer

Project Title

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

Contractor

Originator

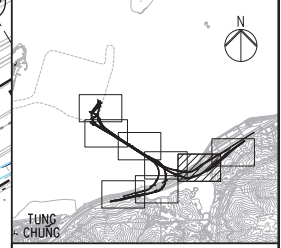
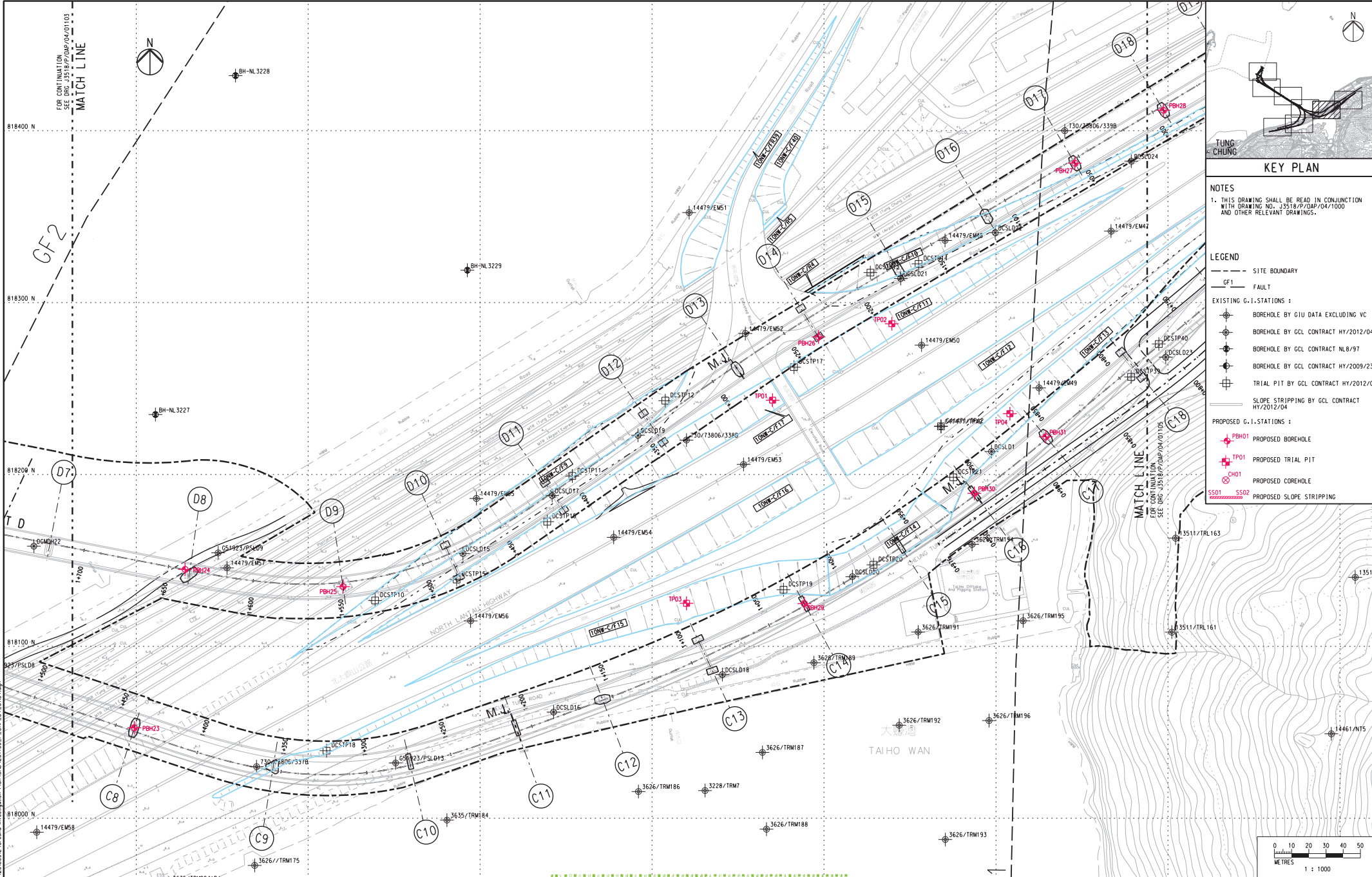
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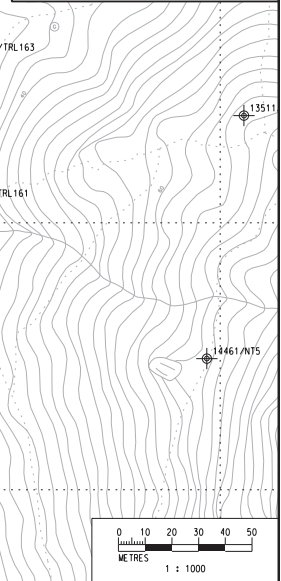
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 - EXISTING G.I. STATIONS :
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 - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
 - ⊕ BOREHOLE BY GCL CONTRACT NL6/97
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
 - ⊕ TRIAL PIT BY GCL CONTRACT HY/2012/04
 - PROPOSED G.I. STATIONS :
 - ⊕ PBH01 PROPOSED BOREHOLE
 - ⊕ TP01 PROPOSED TRIAL PIT
 - ⊕ CH01 PROPOSED COREHOLE
 - SS01 SS02 PROPOSED SLOPE STRIPPING



Printed by : 12/09/2013
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B	SUBMISSION	RC	07/13					Checked	Approved
C	SUBMISSION	RC	09/13					DS	DOP
								Scale	1:1000 @ A1 / 1:2000 @ A3

Client

Supervising Officer

Project Title

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

Contractor

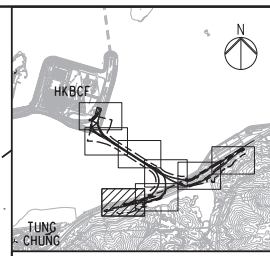
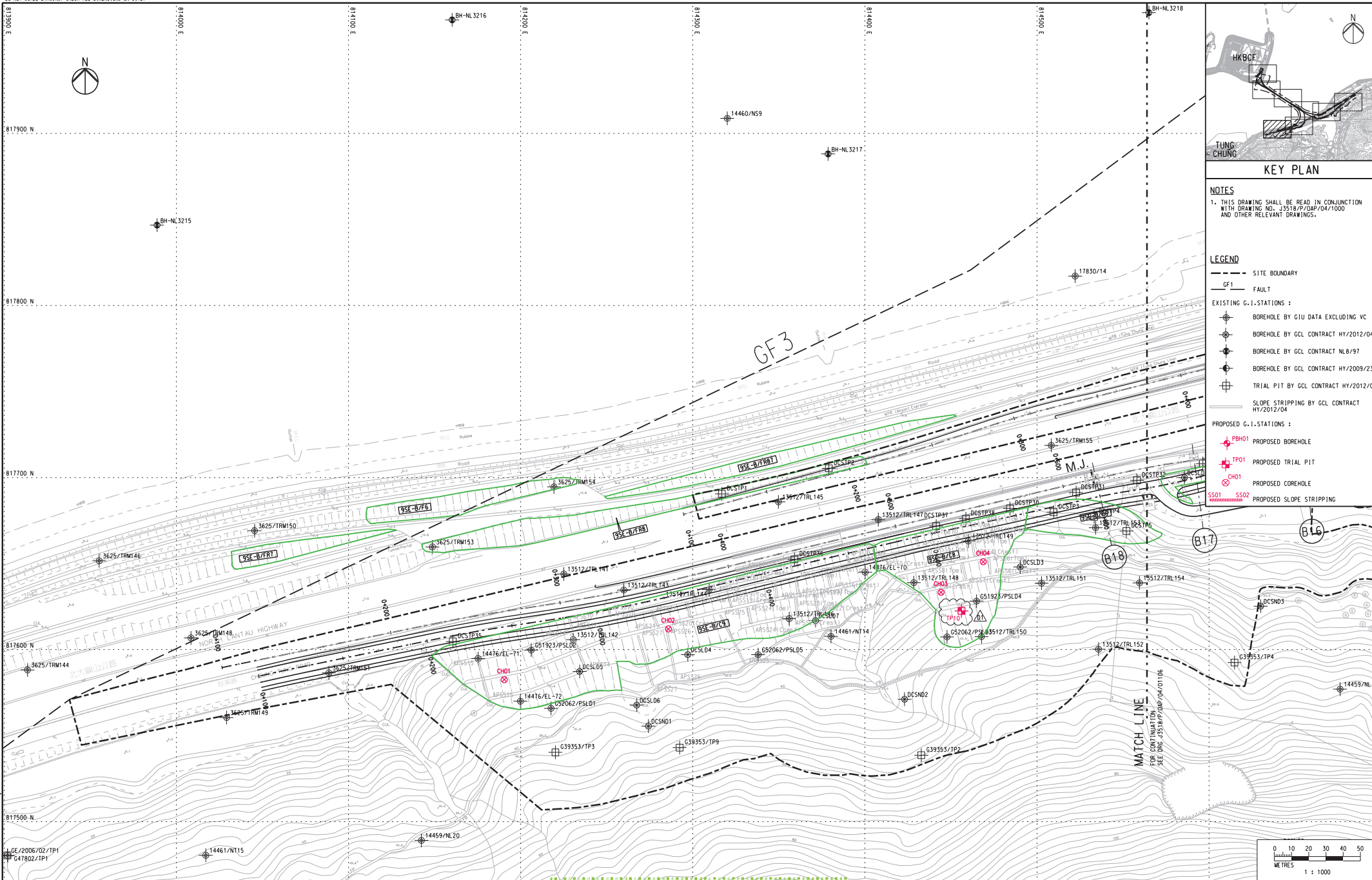
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Drawing title

Figure 1.2f

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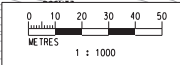
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KEY PLAN

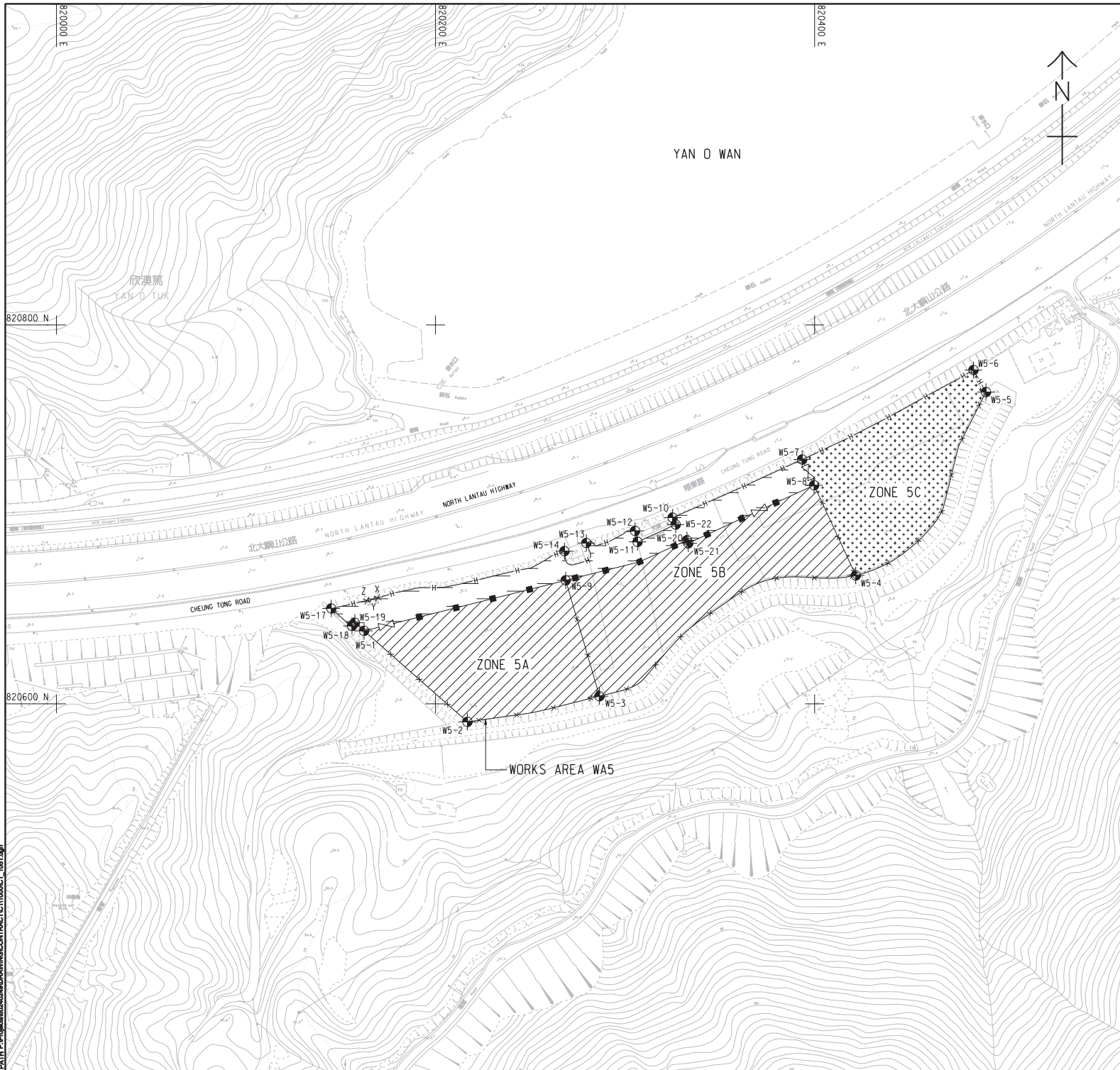
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- LEGEND**
- SITE BOUNDARY
 - GF1 FAULT
 - EXISTING G.I. STATIONS:
 - ⊕ BOREHOLE BY GIU DATA EXCLUDING VC
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2012/04
 - ⊕ BOREHOLE BY GCL CONTRACT NL6/97
 - ⊕ BOREHOLE BY GCL CONTRACT HY/2009/23
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 - SLOPE STRIPPING BY GCL CONTRACT HY/2012/04
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 - ⊕ TP01 PROPOSED TRIAL PIT
 - ⊕ CH01 PROPOSED COREHOLE
 - SS01 SS02 PROPOSED SLOPE STRIPPING




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





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Figure 1.2g	J3518/P/OAP/04/01107	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 ERECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- NO STRUCTURES SHALL BE ERECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
- THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
- THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-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 ERECTED AND MAINTAINED UNDER THIS CONTRACT)
-  CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED BY OTHERS)
-  CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)

SETTING OUT COORDINATES OF 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

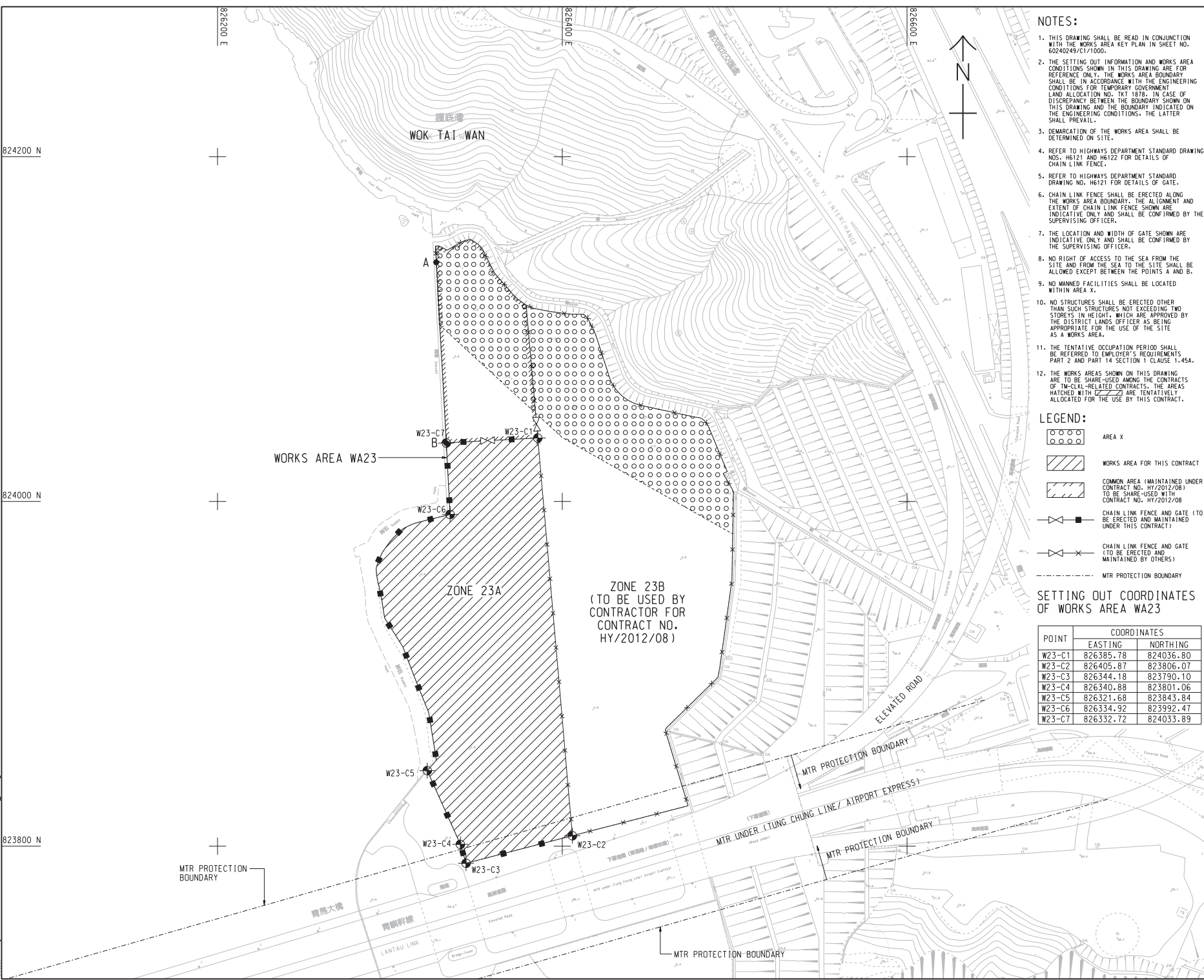
SCALE	DIMENSION UNIT
A1:1000	METRES

KEY PLAN

Figure 1.2h

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Proj File by: LULUS 2013-10-24
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 Project Management Inhibit: Designer: PLOK Checked: SLY Approved: CWN ISO A1 84mm x 61mm



NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/CT1/000.
- 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.
- DEMARICATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
- REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
- CHAIN LINK FENCE SHALL BE ERECTED ALONG THE WORKS AREA BOUNDARY. THE ALIGNMENT AND EXTENT OF CHAIN LINK FENCE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
- NO 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.
- NO MANNED FACILITIES SHALL BE LOCATED WITHIN AREA X.
- NO STRUCTURES SHALL BE ERECTED OTHER THAN SUCH STRUCTURES NOT EXCEEDING TWO STOREYS IN HEIGHT, WHICH ARE APPROVED BY THE DISTRICT LANDS OFFICER AS BEING APPROPRIATE FOR THE USE OF THE SITE AS A WORKS AREA.
- THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
- THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE 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:

- [Symbol: Circle with dot] AREA X
- [Symbol: Diagonal lines] WORKS AREA FOR THIS CONTRACT
- [Symbol: Dotted pattern] COMMON AREA (MAINTAINED UNDER CONTRACT NO. HY/2012/08) TO BE SHARED AMONG CONTRACT NO. HY/2012/08
- [Symbol: Chain link fence] CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
- [Symbol: Chain link fence with gate] CHAIN LINK FENCE AND GATE (TO BE SHARED AND MAINTAINED BY OTHERS)
- [Symbol: Dashed line] 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	826334.92	823992.47
W23-C7	826332.72	824033.89

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 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: AECOM] AECOM

ISSUE/REVISION

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

STATUS
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DIMENSION UNIT
METRES

KEY PLAN
[Symbol: Green box] [Symbol: Yellow box] [Symbol: Red box]

PROJECT NO.
60240249

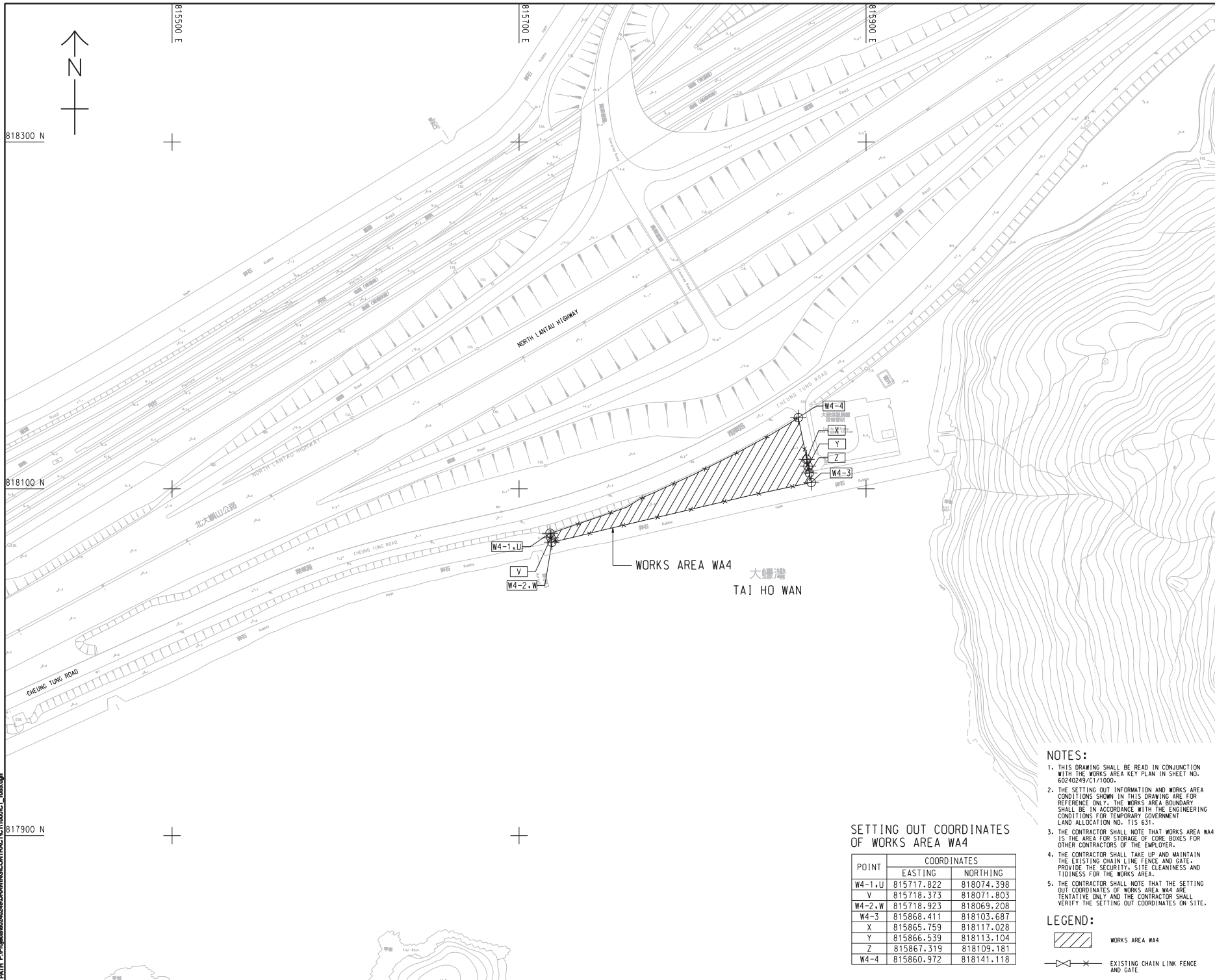
CONTRACT NO.
HY/2012/07

SHEET TITLE
WORKS AREA AND HOARDING PLAN

SHEET NUMBER
60240249/CI1/052

SHEET 2 OF 2

Figure 1.2i



WORKS AREA WA4
 大蠔灣
 TAI HO WAN

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
 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.
 www.aecom.com

SUB-CONSULTANTS
 2/11/2012/116

Figure 1.2j

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
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SCALE
 A1 : 1000

DIMENSION UNIT
 METRES

KEY PLAN

PROJECT NO.
 60240249

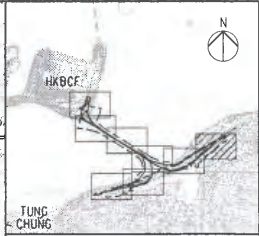
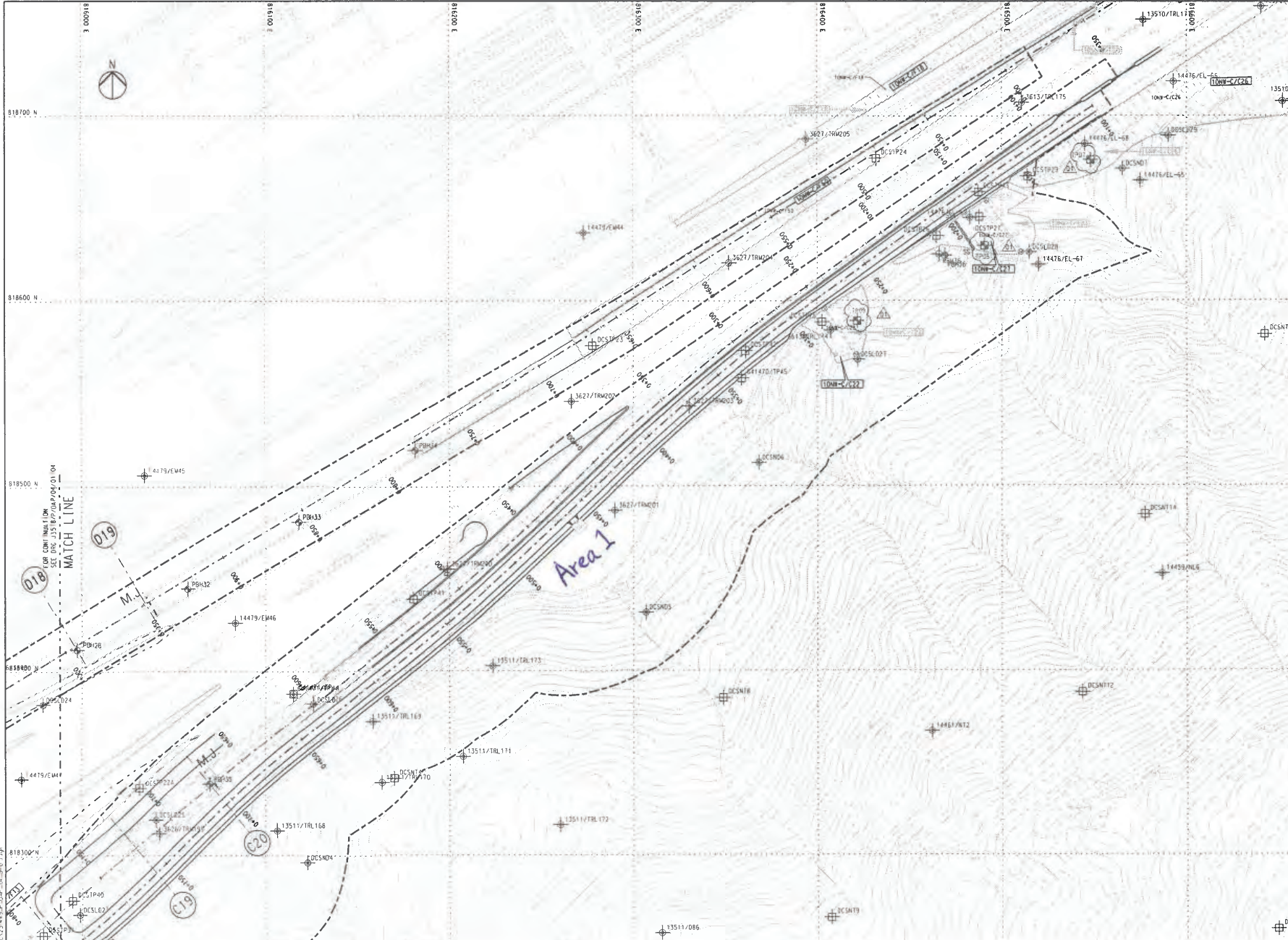
CONTRACT NO.
 HY/2012/07

SHEET TITLE
 WORKS AREA WA4

SHEET NUMBER
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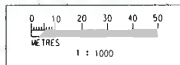
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 - ⊕ T-0 PROPOSED TRIAL PIT
 - ⊕ C-01 PROPOSED COREHOLE
 - ⊕ S502 PROPOSED SLOPE STRIPPING



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 港珠澳大桥香港工程指挥部 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
Checked	Approved	
DS	DOP	
Scale		

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

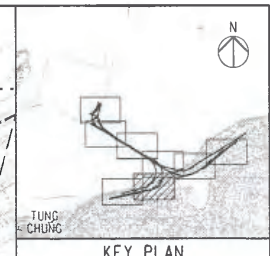
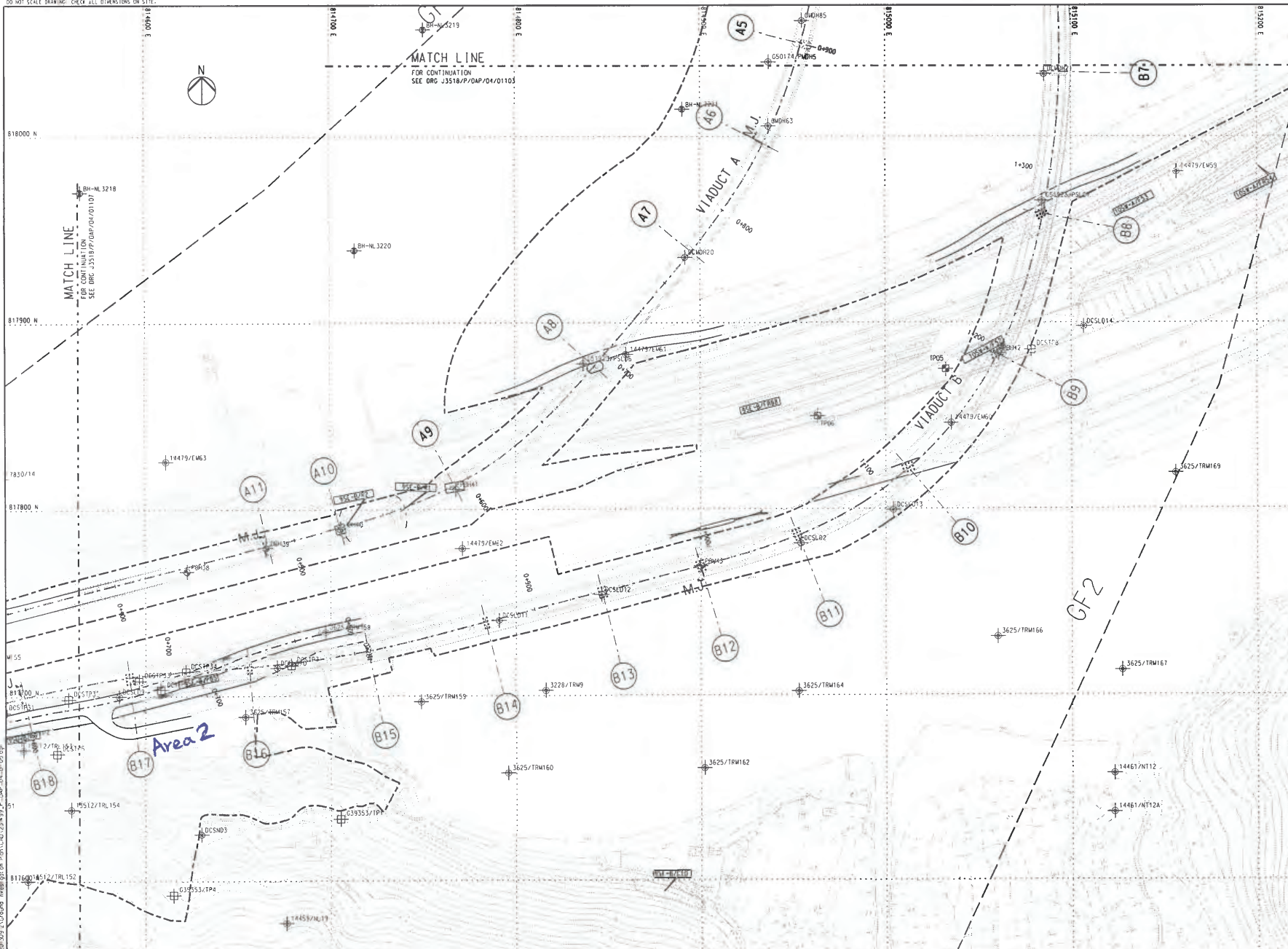
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Supervising Officer AECOM	Contractor Gammon
Originator ARUP	

Drawing title
Figure 1.2k

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

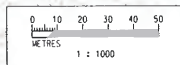
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 - ⊕ PROPOSED TRIAL PIT
 - ⊕ PROPOSED COREHOLE
 - ⊕ PROPOSED SLOPE STRIPPING



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 Date: 07/13

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B	SUBMISSION	RL	07/13				
C	SUBMISSION	RL	07/13				

Drawn	Date	Client
RL	07/13	路政署 HIGHWAYS DEPARTMENT
Checked	Approved	港珠澳大橋香港工程管理有限公司 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
DS	DOP	Supervising Officer
Scale		Contractor
1:1000 @ A1 / 1:2000 @ A3		Originator

			Project Title Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section	Drawing Title Figure 1.2I
			Drawing no. J3518/P/OAP/04/01106	Rev c

1.2 SCOPE OF REPORT

This is the Fourteenth 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 December 2014.

1.3 ORGANIZATION STRUCTURE

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

Table 1.1 *Contact Information of Key Personnel*

Party	Position	Name	Telephone	Fax
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 of Pile caps at Viaducts B & E;
- Marine piling platform installation for Viaducts A, B, C, D & E;
- Marine Piling at Viaducts B, C, D & E; and

- Additional marine ground investigation (GI) and laboratory testing.

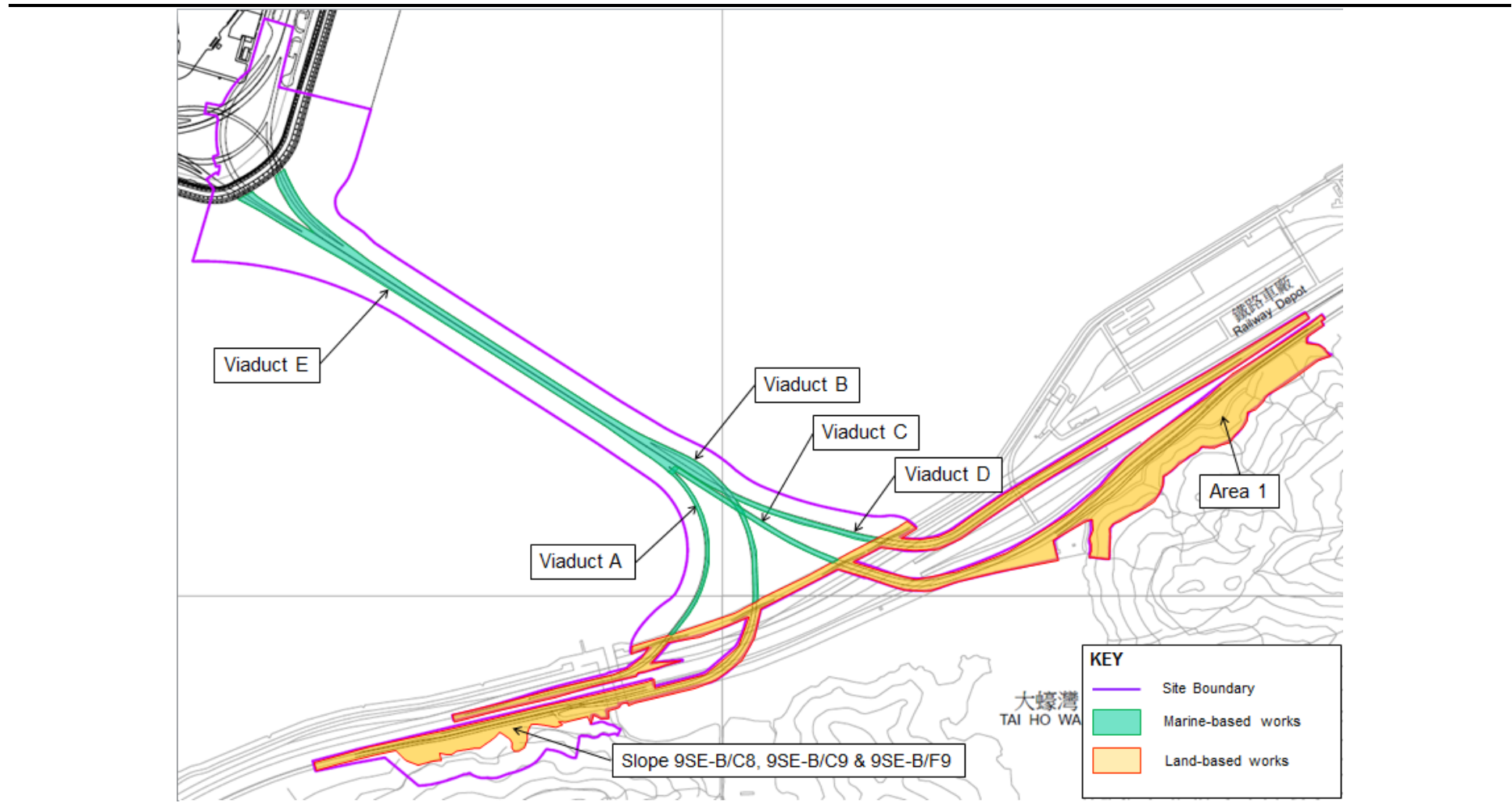
Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Pre-drilling works at Viaduct A;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- 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 are 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

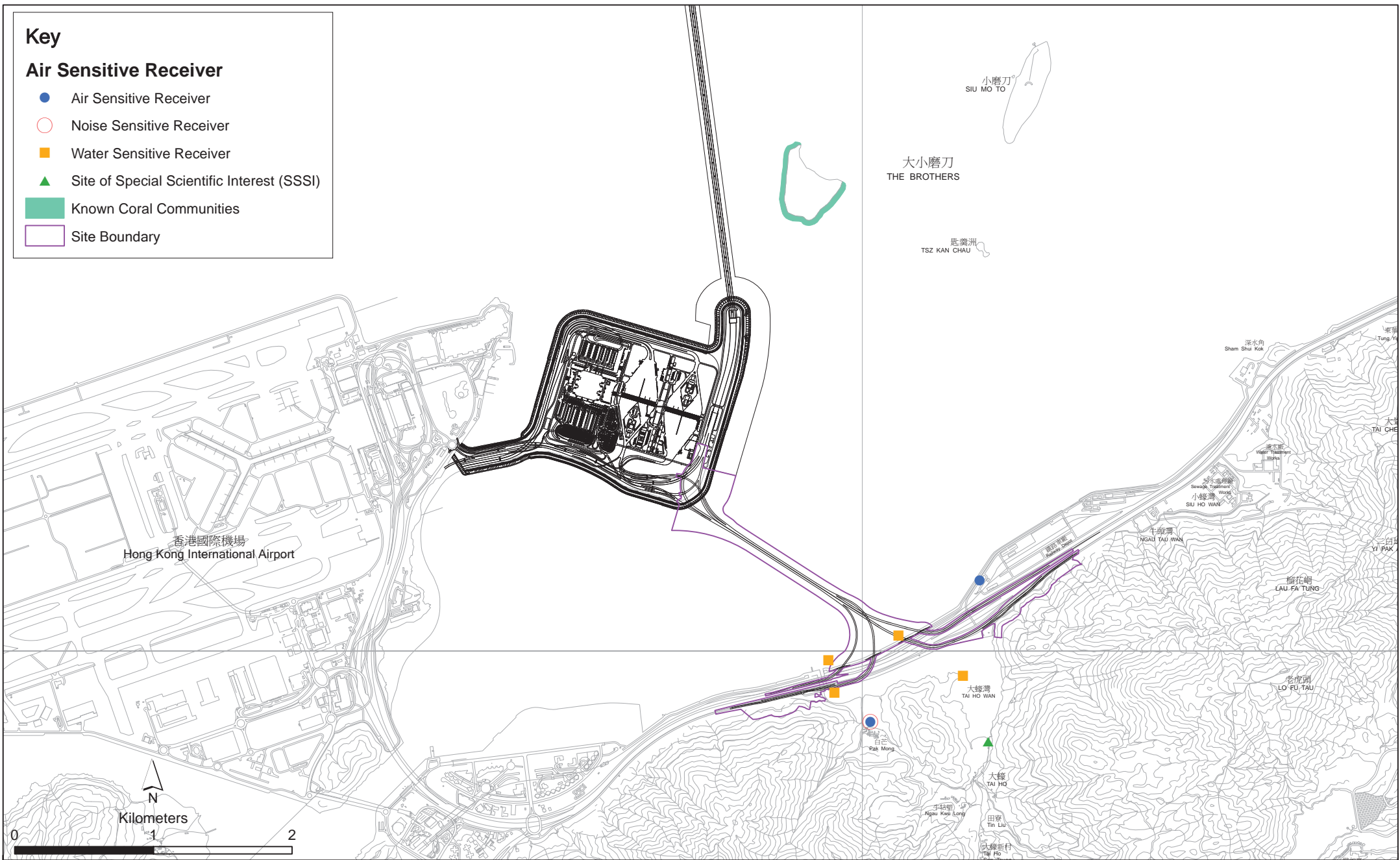


Figure 1.4

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	8, 11, 17, 23 and 29 December 2014
ASR 8A	Area 4	On ground at the works area, Area 4	2, 8, 11, 17, 23 and 29 December 2014

Due to the rejection of access to Pak Mong Village, monitoring results of 1-hour TSP and 24-hour TSP at the ASR 8 and meteorological data was not recorded on 2 December 2014. The *Proposal of Alternative Dust and Noise Monitoring Stations* ⁽¹⁾ was submitted to EPD on 2 December 2014 and granted on 4 December 2014, in which the HVS at ASR 8 was proposed to be relocated to Entrance of MTR Depot and the wind anemometer to be relocated to ASR 8A in accordance with the requirements of the Updated EM&A Manual. Per plan, High Volume Samplers (HVSs) were used for carrying out 1-hour and 24-hour TSP monitoring on 8, 11, 17, 23 and 29 December 2014 at ASR9 (Entrance of MTR Depot) and on 2, 8, 11, 17, 23 and 29 at ASR8A (Area 4). 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*.

⁽¹⁾ The *Proposal of Alternative Dust and Noise Monitoring Stations* with the agreement letter from IEC and SOR was submitted to EPD on 2 December 2014, and subsequently replied with no objection on 4 December 2014.

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 December 2014 is provided in *Appendix F*.

2.1.3 Results and Observations

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

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

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	122	63 - 298	394	500
ASR 9	137	96 - 232	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	75	63 - 99	178	260
ASR 9	98	68 - 133	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*.

Due to the rejection of access to Pak Mong Village, no noise monitoring results at NSR1 was recorded on 2 December 2014. The *Proposal of Alternative Dust and Noise Monitoring Stations* ⁽¹⁾ was submitted to EPD on 2 December 2014 and was granted on 4 December 2014, in which the noise monitoring station was proposed to be relocated to the Pak Mong Village Pavilion in accordance with the requirements of the Updated EM&A Manual. Noise monitoring was performed on 8, 11, 17, 23 and 29 December 2014 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	8, 11, 17, 23, 29 December 2014

Table 2.6 Noise Monitoring Equipment

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

⁽¹⁾ The *Proposal of Alternative Dust and Noise Monitoring Stations* with the agreement letter from IEC and SOR was submitted to EPD on 2 December 2014, and subsequently replied with no objection on 4 December 2014.



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	62	61 – 62	75

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

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

2.3 *WATER QUALITY MONITORING*

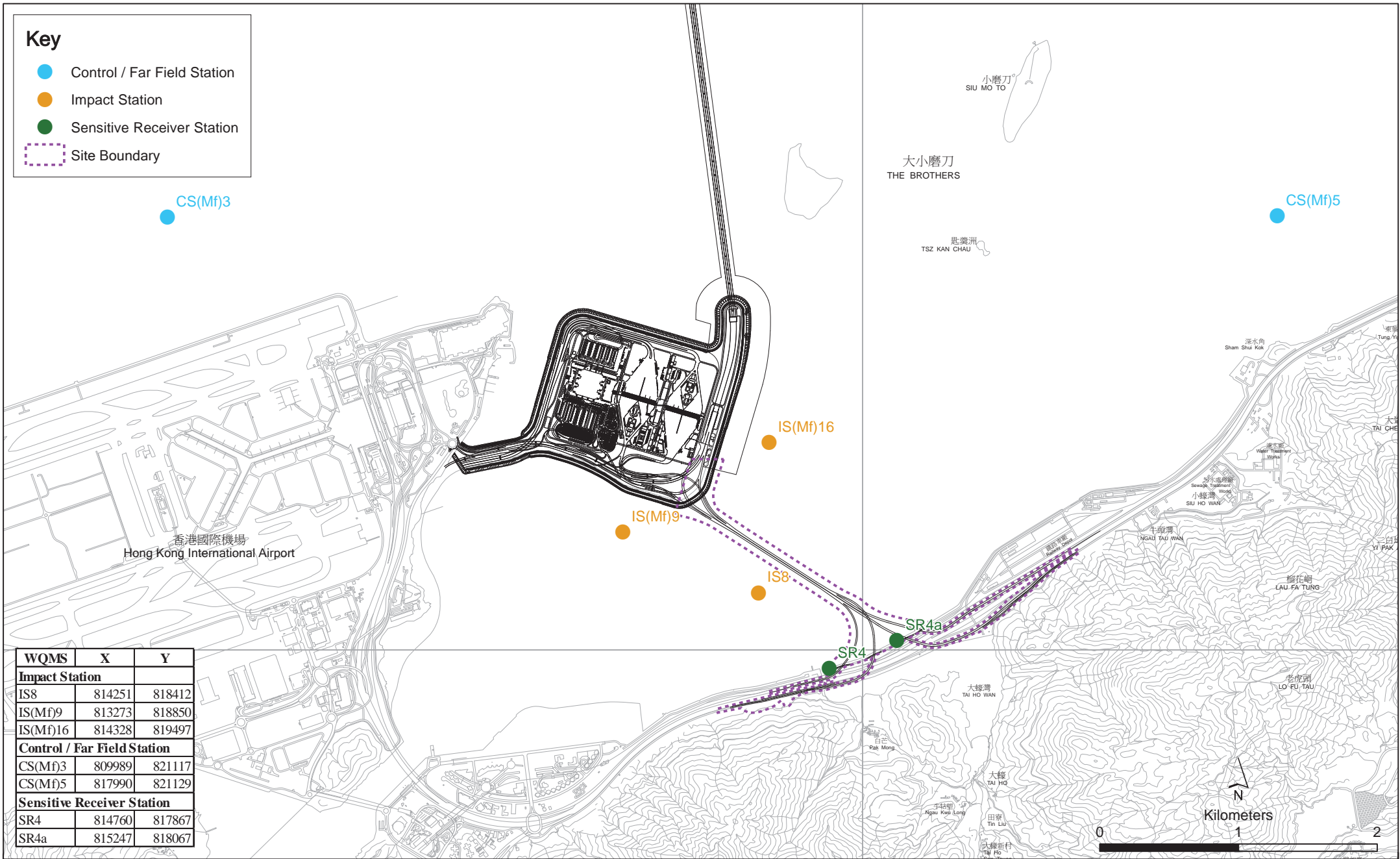
2.3.1 *Monitoring Requirements and Equipment*

Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. Impact water quality monitoring was undertaken three days per week during the construction period in accordance with the Updated EM&A Manual. The Action and Limit 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 December 2014 is provided in *Appendix F*.

2.3.3 *Results and Observations*

A 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*.

No Action and Limit levels exceedances was recorded at all monitoring stations for impact water quality monitoring in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

2.4 *DOLPHIN MONITORING*

2.4.1 *Monitoring Requirements*

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

2.4.2 *Monitoring equipment*

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

Table 2.10 *Dolphin Monitoring Equipment*

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC 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.

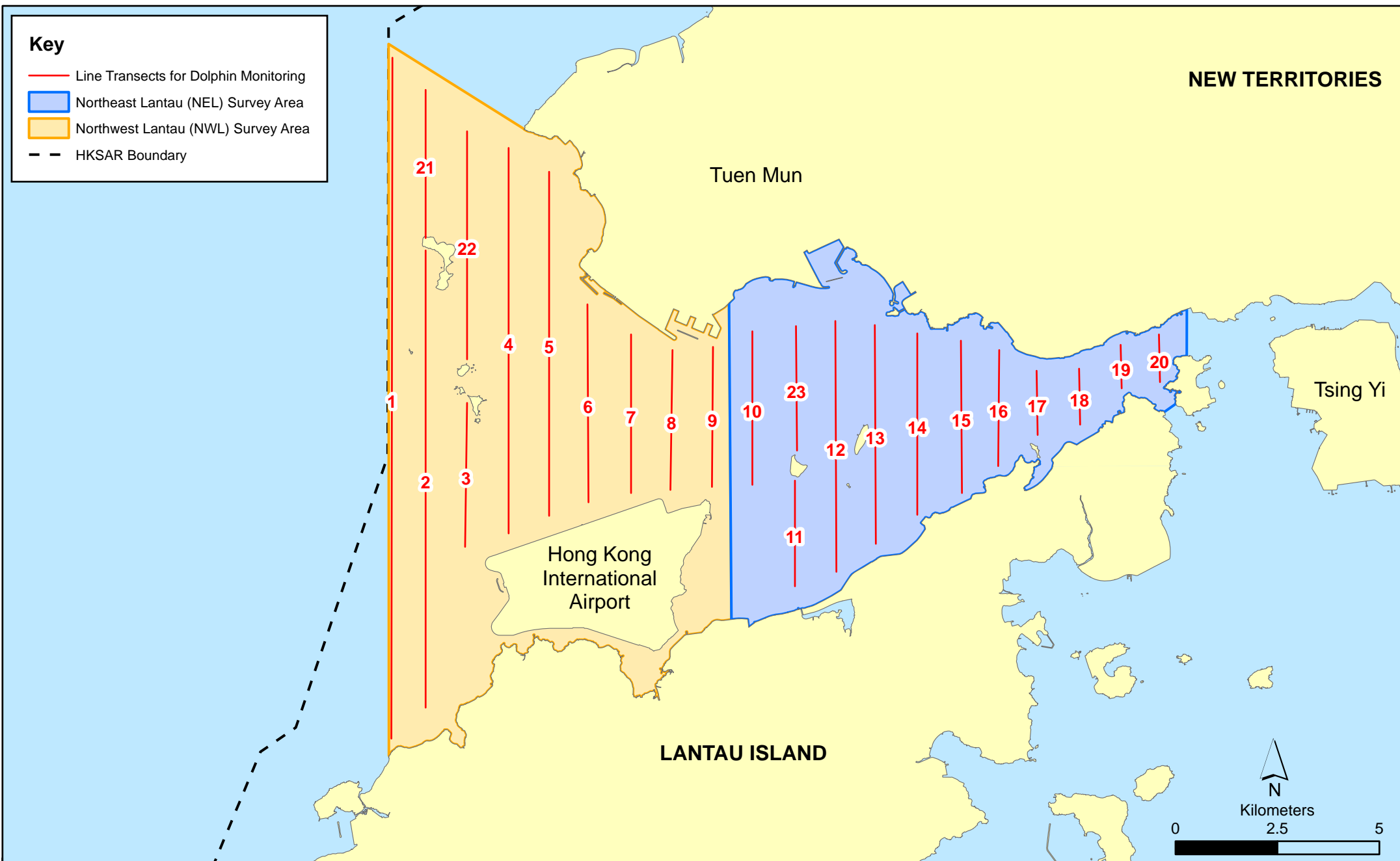


Figure 2.4

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 2, 9, 15 and 23 of December 2014 (*Appendix F*).

2.4.7 *Results and Observations*

A total of 299.10 km of survey effort was collected, with 100% 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 December 2014. Among the two areas, 115.70 km and 183.40 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 217.18 km and 81.92 km respectively. The survey efforts are summarized in *Appendix K*.

A total three (3) groups of five (5) Chinese White Dolphins were sighted during the two sets of monitoring surveys in December 2014 (*Appendix K*). All sightings were made in NWL during the two sets of surveys in December 2014, while no dolphin was sighted at all in NEL in this reporting month. All three (3) sightings were 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 sightings during the reporting month is shown in *Figure 2.5*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in December 2014 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: Dec 2 nd /9 th	0.0	0.0
	Set 2: Dec 15 th /23 rd	0.0	0.0
NWL	Set 1: Dec 2 nd /9 th	2.8	5.6
	Set 2: Dec 15 th /23 rd	1.5	1.4

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

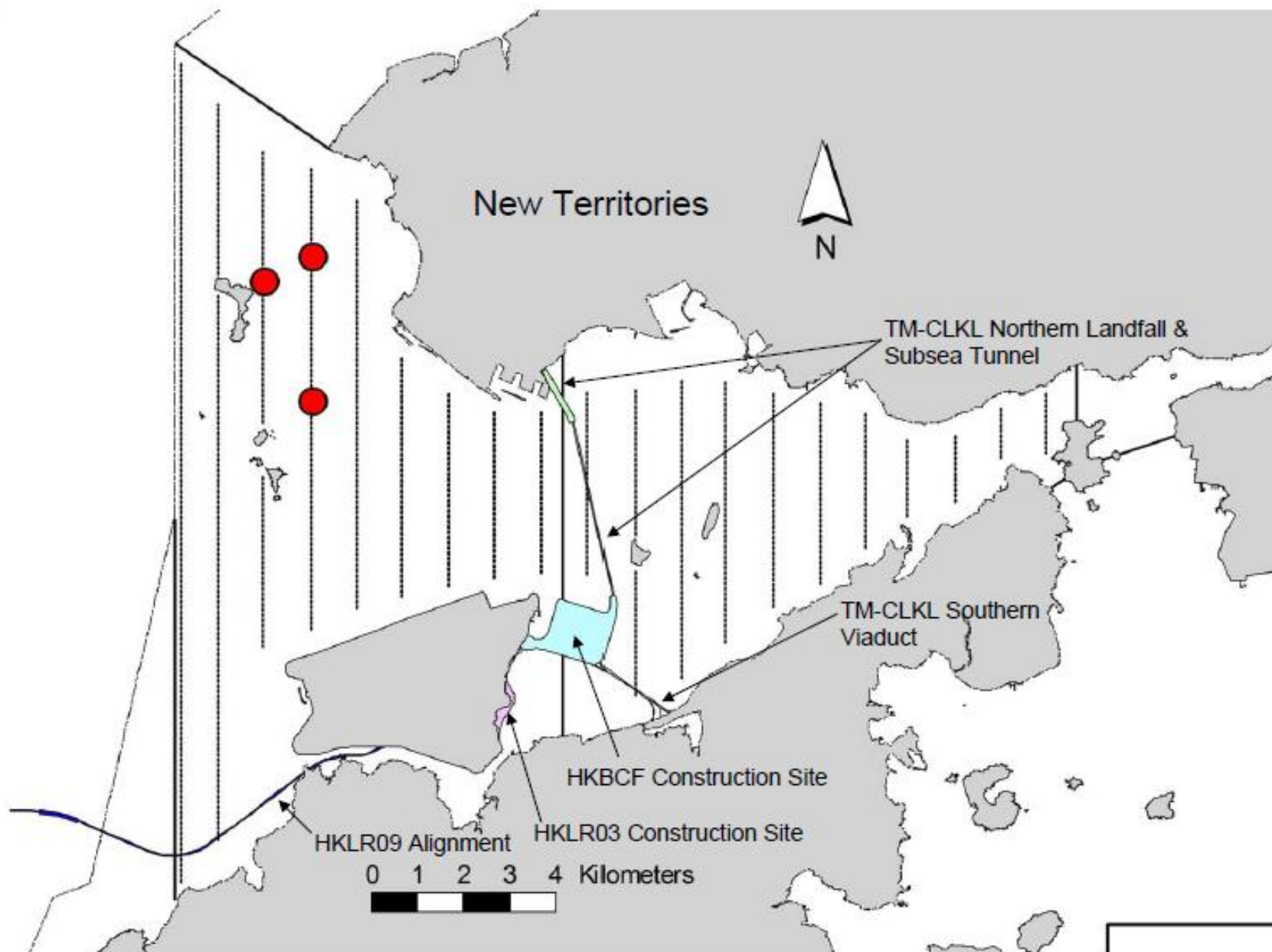


Figure 2.5

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

Date 5/1/2015

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	2.1	1.6	3.5	2.7

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

The average group size of Chinese White Dolphins in December 2014 was 1.67 individuals per group, which was much lower than the ones in previous months of dolphin monitoring. All three (3) dolphin groups were composed of only one to three (1-3) animals during the monitoring period. Detailed results of dolphin monitoring in this reporting month are presented in *Appendix K*.

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 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 December 2014 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 3, 10, 17, 24 and 30 December 2014.

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
3 December 2014	<p>Seafront</p> <ul style="list-style-type: none"> Some chemical containers were not placed in drip tray. Oil stain was found nearby a drip tray for generator. A skip for waste was nearly full. A sediment tank was under maintenance. <p>Pier B7</p> <ul style="list-style-type: none"> Gutter was found not well installed for waste water collection. Oil stain was found nearby a drip tray for generator. <p>Pier E12</p> <ul style="list-style-type: none"> A chemical container was found not placed in drip tray. 	<p>Seafront</p> <ul style="list-style-type: none"> Chemical containers should be placed in drip tray Oil stain should be removed to avoid run-off. The contractor should clean up the waste on site regularly. The contractor should ensure the sedimentation tank is available for site operation. <p>Pier B7</p> <ul style="list-style-type: none"> Gutter should be properly installed for waste water collection. Oil stain should be removed to avoid run-off. <p>Pier E12</p> <ul style="list-style-type: none"> Chemical containers should be placed in drip tray.
10 December 2014	<p>Site Access 9B</p> <ul style="list-style-type: none"> Checking record for wetsep was missing. Grouting material was accumulated at grouting station. The slope under works may generate dust. <p>Viaduct B (land)</p> <ul style="list-style-type: none"> A chemical container was found dripping and not placed in drip tray. Some drip trays for generator were not plugged or plugged properly. Oil stain was found under an excavator. 	<p>Site Access 9B</p> <ul style="list-style-type: none"> Wetsep should be checked regularly and the record should be filled. Grouting material should be cleaned up regularly to avoid runoff. The contractor was reminded to water the slope regularly. <p>Viaduct B (land)</p> <ul style="list-style-type: none"> Drip tray should be provided to the chemical container. Drip tray should be plugged properly. Drip tray was recommended for the excavator.
17 December 2014	<p>Pier D7 (Barge Tung Shun 8)</p> <ul style="list-style-type: none"> A drip tray was not plugged. A chemical container was not placed in drip tray. <p>Pier D4 (Barge Kam Shun)</p> <ul style="list-style-type: none"> A generator was not placed on decoupling pad. A label for coagulant was missing. 	<p>Pier D7 (Barge Tung Shun 8)</p> <ul style="list-style-type: none"> The drip tray should be plugged. The chemical container should be placed in drip tray. <p>Pier D4 (Barge Kam Shun)</p> <ul style="list-style-type: none"> The generator should be placed on decoupling pad. Coagulant container should be labelled properly..
24 December 2014	<p>Pier D13B</p> <ul style="list-style-type: none"> A drip tray for generator was no plugged. <p>Pier C8</p> <ul style="list-style-type: none"> Some chemical containers were not placed in drip tray. <p>Abutment D</p> <ul style="list-style-type: none"> The area was partially dry and unpaved. 	<p>Pier D13B</p> <ul style="list-style-type: none"> The drip tray for generator should be plugged. <p>Pier C8</p> <ul style="list-style-type: none"> Chemical containers should be placed in drip tray. <p>Abutment D</p> <ul style="list-style-type: none"> The contractor was reminded to water the unpaved area 8 times a day.

Inspection Date	Environmental Observations	Recommendations/ Remarks
30 December 2014	<p>Pier E12</p> <ul style="list-style-type: none"> A dumping permit for Category L sediment was not displayed. A generator was placed without decoupling pad. <p>Pier E13</p> <ul style="list-style-type: none"> Stagnant water was accumulated in a drip tray. A generator was placed without acoustic decoupling pad. Excessive soil was accumulated in the gutter. <p>Area 1</p> <ul style="list-style-type: none"> Stagnant water was accumulated in a drip tray. Placement of material stack was too close to natural habitat. 	<p>Pier E12</p> <ul style="list-style-type: none"> The updated permit should be placed at the corresponding platform. Generator on marine platform should be placed on acoustic decoupling pad. <p>Pier E13</p> <ul style="list-style-type: none"> Drip tray should have enough volume to avoid overflowing, so stagnant water should be removed. Generator on marine platform should be placed on acoustic decoupling pad. Gutter should be cleaned up regularly. <p>Area 1</p> <ul style="list-style-type: none"> Drip tray should have enough volume to avoid overflowing, so stagnant water should be removed. The contractor should place the material stacks in the designated area within the existing disturbed land.

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), recyclable materials and marine sediment (Categories L & M). 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)
December 2014	15,987	0	3,020	130,970	147	0	337	275

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/C	10 Dec 2014	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
Billing Account for Disposal	7017735	10 Jul 2013	End of Project	GCL	-
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)
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	Waste disposal in Contract HY/2012/07
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	GW-RS0792-14	31 Jul 2014	24 Dec 2014	GCL	Broad Permit for Works at Seafront & Marine Piers & Pier B9
Construction Noise Permit	GW-RS0700-14	21 Jul 2014	31 Dec 2014	GCL	For loading & unloading on NLH near Viaduct A & B
Dumping Permit/ Loading Permit (Type 1 – Open Sea Disposal)	(4) in EP/MD/14-075	25 Sep 2013	N/A	GCL	-
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 Noise Permit	GW-RW0640-14	28 Aug 2014	27 Feb 2015	GCL	General works at WA5
Marine Dumping Permit	EP/MD/15-066	28 Jul 2014	27 Jan 2015	GCL	For dumping Type I sediment
Construction Noise Permit for night works and works in general holidays	GW-RS0942-14	11 Sep 2014	14 Mar 2015	GCL	For Plant mobilization using tractor
Construction Noise Permit for night works and works in general holidays	GW-RS1032-14	25 Sep 2014	28 Mar 2015	GCL	For Load unload at NLH near Viaduct D

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-RS1129-14	17 Oct 2014	31 Dec 2014	GCL	For Safety Fences at Pier D9
Construction Noise Permit for night works and works in general holidays	GW-RS1130-14	20 Oct 2014	22 Apr 2015	GCL	For Plant mobilization using tractor
Construction Noise Permit for night works and works in general holidays	GW-RS1135-14	17 Oct 2014	15 Dec 2014	GCL	For TTA Case 60-2 Ch.1.3E-3.6E
Construction Noise Permit for night works and works in general holidays	GW-RS1188-14	30 Oct 2014	31 Dec 2014	GCL	For TTA Cases 50 Airport Road-5.3
Construction Noise Permit for night works and works in general holidays	GW-RS1383-14	15 Dec 2014	28 Feb 2015	GCL	TTA Case 060-12 Ch.1.0-4.2
Construction Noise Permit for night works and works in general holidays	GW-RS1386-14	15 Dec 2014	15 Mar 2015	GCL	TTA Case 009 Ch.2.3E-4.2E
Construction Noise Permit for night works and works in general holidays	GW-RS1403-14	15 Dec 2014	28 Feb 2015	GCL	TTA Case 050 Series Airport Rd to NLH Ch.5.3

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.

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

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

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

2.10 *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*.

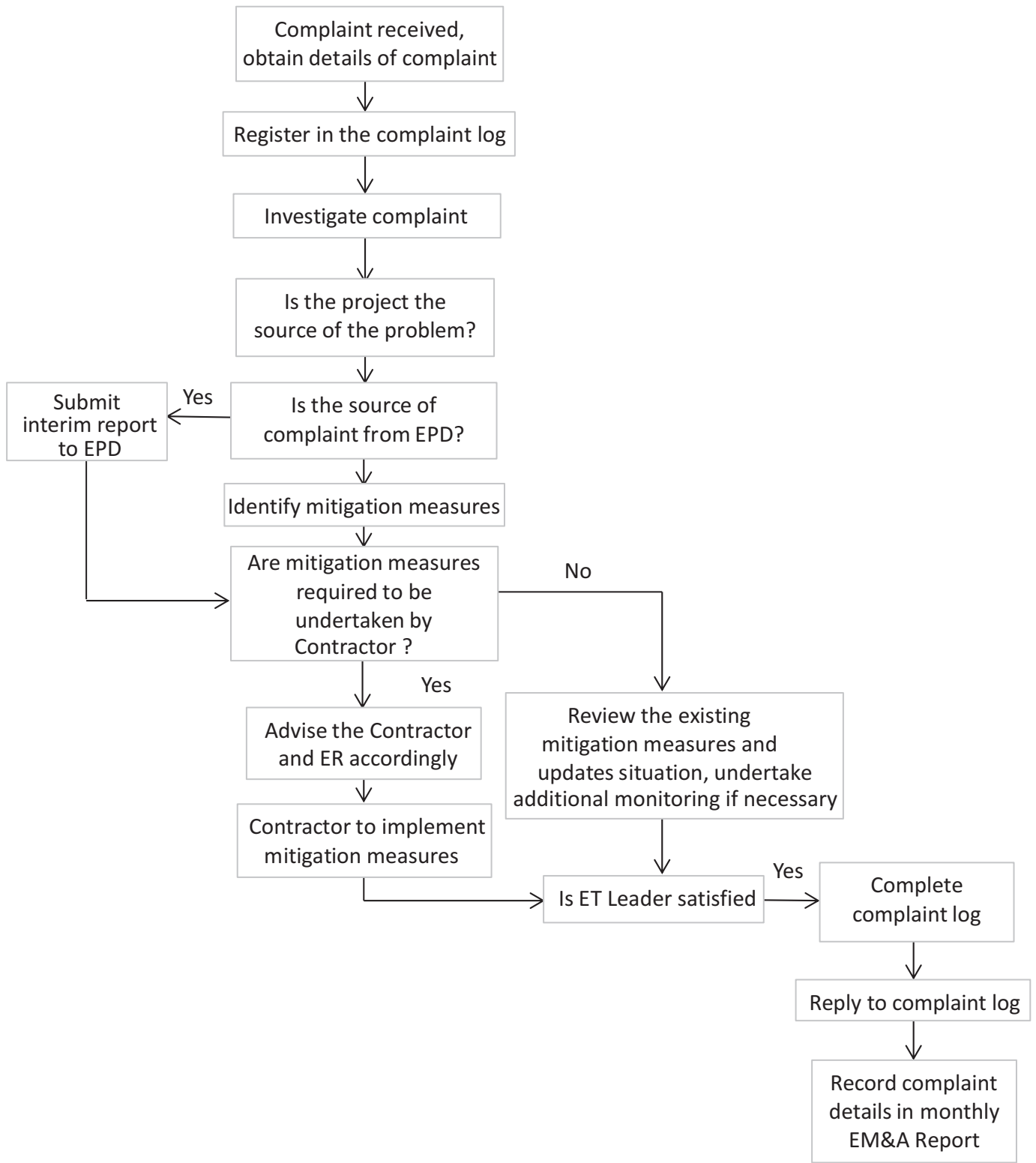


Figure 2.6

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 January 2015 will be:

Marine Works

- Construction of Pile caps at Viaducts B & E;
- Marine piling platform installation for Viaducts A, B, C, D & E;
- Marine Piling at Viaducts B, C, D & E; and
- Additional marine ground investigation (GI) and laboratory testing.

Land-based Works

- Construction of pile cap superstructure of Viaduct B;
- Channel re-construction at Area 1;
- Land Piling at Viaducts B, C & D;
- Pre-drilling works at Viaduct A;
- Construction of pile cap at Viaducts B & D;
- Additional land GI, trial pits & lab testing;
- Utility surveys; 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 January 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 January 2015 are provided in *Appendix F*.

4.1 CONCLUSIONS

This Fourteenth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 December 2014, in accordance with the Updated EM&A Manual and the requirements of the *Environmental Permit (EP-354/2009/C)*.

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

A total three (3) groups of five (5) Chinese White Dolphins were sighted during the two sets of monitoring surveys in December 2014. All sightings were made in NWL during the two sets of surveys in December 2014, while no dolphin was sighted at all in NEL in this month. All three (3) sightings were 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 were noticeable from general observations.

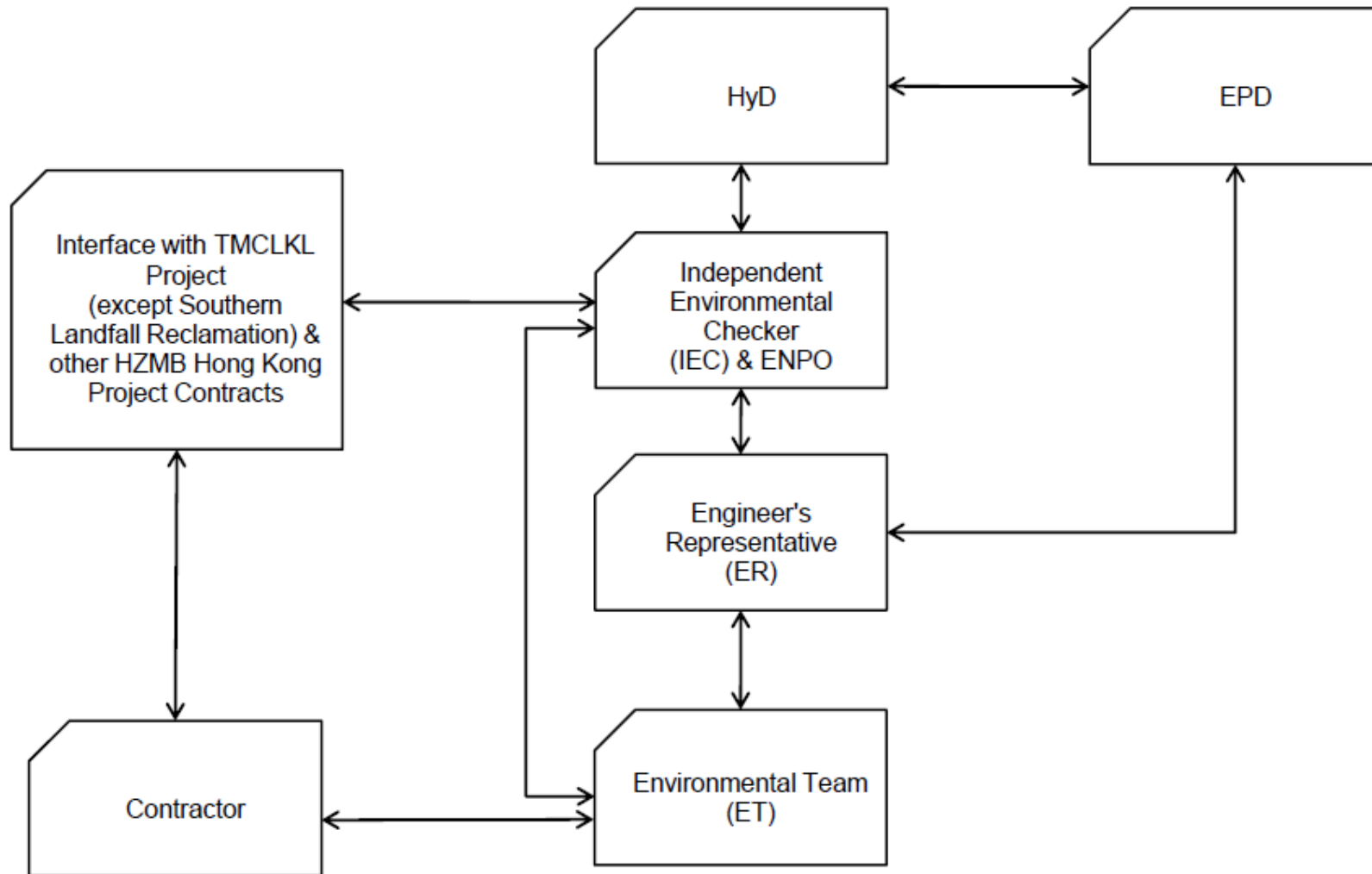
Environmental site inspection was carried out five (5) times in December 2014. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

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	2014							2015														
											December				January			February			March											
												24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16				
HY/2012/07 - TM-CLK Link-SC [DWP rD1] - Status Update 21-12-2014																																
Contract Key Dates																																
Possession Dates / Access Period																																
POS02	Portion A (Commencement of Works+499 days)		0	22-Dec-14*	0%	0		03-Nov-14		-49	0																					
POS03	Portion B (Commencement of Works+619 days)		0	03-Mar-15*	0%	0		03-Mar-15		0	412																					
General Submissions																																
General Requirements																																
Temporary Works Design																																
PR00130	Unloading Jetty at HKBCF - Working Platform design and approval		90	02-Jun-14 A	10%	81	01-Apr-15	13-May-14	16-Aug-14	-186	1																					
Land Works																																
PR00160	Propose/submit/approval of a performance review for piled fnds in accordance w/ ETWB TC		101	26-May-14 A	80.2%	20	16-Jan-15	11-Jan-16	02-Feb-16	310	0																					
Land GI Works																																
PR02200	14No possible Boreholes for Pier E14 & Viaduct F - possible early access ahead of possessic		72	30-Sep-13 A	34.72%	47	24-Feb-15	06-Jul-18	29-Aug-18	1040	1040																					
PR02204	SQR Sampling & Testing and Approval		195	14-Aug-14 A	45.64%	106	06-May-15	05-Aug-14	09-Dec-14	-116	0																					
PR03110	Trial Pits along Cheung Tung Road		20	17-Feb-14 A	85%	3	24-Dec-14	27-Aug-18	29-Aug-18	1087	1087																					
Additional Land GI																																
PR03200	Boreholes PBH25, 29, 30, 31 (Piers D9, C14, C16, C17)		33	11-Jan-14 A	75.76%	8	02-Jan-15	21-Aug-18	29-Aug-18	1082	1082																					
Design Submissions																																
Detailed Design (v17)																																
Ground Investigation																																
ARDD0009	Consultation with GEO		20	13-Aug-13 A	85%	3	24-Dec-14	29-Mar-17	31-Mar-17	592	57																					
ARDD0010	IC/SO Approval of Ground Investigation Interpretative Report - AP03.00		75	13-Aug-13 A	20%	60	13-Mar-15	09-Jan-17	31-Mar-17	535	0																					
ARDD0010-1	IC/SO Approval of Ground Investigation Interpretative Report - AP03.00		0		0%	0	13-Mar-15		31-Mar-17	535	0																					
ARDD0013-1	Additional GI Fieldwork, Lab Testing and Permitting E5-E8		45	16-Jul-13 A	88.89%	5	26-Dec-14	23-Aug-18	29-Aug-18	958	55																					
ARDD0013-2	Additional GI Fieldwork, Lab Testing and Permitting - Other areas		60	16-Jul-13 A	80%	12	06-Jan-15	14-Aug-18	29-Aug-18	951	48																					
ARDD0015-1	E5-E8 Interpretation		15	17-Sep-13 A	86.67%	2	23-Dec-14	28-Aug-18	29-Aug-18	961	961																					
ARDD0015-2	Additional GI Interpretative Report - AP03.00		15	08-Oct-13 A	73.33%	4	25-Dec-14	13-Jul-18	18-Jul-18	929	0																					
ARDD0017-1	Earliest IC certificate for DDA-AP03.00		0		0%	0	05-Feb-15		29-Aug-18	929	26																					
ARDD0017-2	IC/SO Approval of Additional GI Interpretative Report - AP03.00		75	29-Jan-14 A	20%	60	13-Mar-15	07-Jun-18	29-Aug-18	903	0																					
ARDD0017-4	IC/SO Approval of Additional GI Interpretative Report - AP03.00		0		0%	0	13-Mar-15		29-Aug-18	903	903																					
General Submissions																																
ARDD0037-1	Preparation of Seismic Performance Report - AP12.00		20	22-Dec-14	0%	20	16-Jan-15	23-Sep-15	20-Oct-15	197	0																					
ARDD0037-2	IC/SO Approval of Seismic Performance Report - AP12.00		75	19-Jan-15	0%	75	01-May-15	21-Oct-15	02-Feb-16	197	0																					
ARDD0041-2	IC/SO Approval of O&M Facility Provisions AIP - BP11.00		75	23-Jun-14 A	100%	0	01-Dec-14 A																									
ARDD0041-4	IC/SO Approval of O&M Facility Provisions AIP - BP11.00		0		100%	0	01-Dec-14 A																									
ARDD0042-1	Preparation of O&M Facility Provisions DDA - BP11.01		40	19-Sep-14 A	80%	8	31-Dec-14	15-May-15	26-May-15	104	0																					
ARDD0042-2	IC/SO Approval of O&M Facility Provisions DDA - BP11.01		75	01-Jan-15	0%	75	15-Apr-15	27-May-15	08-Sep-15	104	0																					
Viaduct D																																
Viaduct Design																																
ARDD0333-1	Viaduct D - Earliest IC Certificate for Sub & Superstructure DDA - DP14.03		0		0%	0	22-Dec-14		27-Aug-14	-82	0																					
ARDD0333-3	Viaduct D - IC/SO Approval of Sub & Superstructure DDA - DP14.03		75	02-Sep-14 A	60%	30	17-Feb-15	15-Sep-14	24-Oct-14	-82	0																					
ARDD0333-4	Viaduct D - IC/SO Approval of Sub & Superstructure DDA - DP14.03		0		0%	0	17-Feb-15		24-Oct-14	-82	0																					
Information to Contractor																																
ARDD0348	Viaduct D - Final Segment Types and Reinforcement		0		100%	0	04-Dec-14 A																									
ARDD0350	Viaduct D - Final Anchorage and PT Requirements		0		100%	0	04-Dec-14 A																									
ARDD0352	Viaduct D - Final Bearing Schedule		0		100%	0	04-Dec-14 A																									

 Milestone	Project ID: J3518DWP rD1-M19 Layout: J3518-DWP-3MRP Submission - M19 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, no Level of Effort, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 1 of 36 Pages) (Progress as of 21-Dec-14)				Date	Revision	Checked	Approved	DWG. No.: J3518/GCL/PGM/3MRP-M19
						21-Sep-14				
						21-Oct-14				
						21-Nov-14		DB		

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	2014					2015														
											December					January					February					March				
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16			
ARDD0354	Viaduct D - Final Movement Joint (MJ) Schedule	0		100%	0	04-Dec-14 A																								
Associated Construction Milestones																														
ARDD0362	Viaduct D - DDA approval ready for Commencement of Pilecaps	0	18-Feb-15	0%	0		27-Oct-14		-114	0																				
ARDD0363	Viaduct D - Initial Segment Casting on Approval of DDA	0	18-Feb-15	0%	0		27-Oct-14		-114	62																				
Viaduct C																														
Viaduct Design																														
ARDD0381	Viaduct C - Preparation of Substructure DDA - DP13.03	50	04-Aug-14 A	100%	0	20-Dec-14 A																								
ARDD0382	Viaduct C - Preparation of Superstructure DDA - DP13.03	70	04-Aug-14 A	100%	0	20-Dec-14 A																								
ARDD0383	Viaduct C - Submission of Sub & Superstructure DDA - DP13.03	0		100%	0	20-Dec-14 A																								
ARDD0384-1	Viaduct C - Earliest IC Certificate for Sub & Superstructure DDA - DP13.03	0		0%	0	30-Jan-15		09-Mar-15	26	45																				
ARDD0384-3	Viaduct C - IC/SO Approval of Sub & Superstructure DDA - DP13.03	75	22-Dec-14	0%	75	03-Apr-15	25-Nov-14	09-Mar-15	-19	0																				
Information to Contractor																														
ARDD0394	Viaduct C - Final Pilecap Reinforcement	0		100%	0	20-Dec-14 A																								
ARDD0396	Viaduct C - Final Pier Shapes and Reinforcement	0		100%	0	20-Dec-14 A																								
ARDD0397	Viaduct C - Typical Segment Shapes for Moulds	0		100%	0	20-Dec-14 A																								
ARDD0398	Viaduct C - Typical Segment Reinforcement	0		100%	0	20-Dec-14 A																								
ARDD0399	Viaduct C - Final Segment Types and Reinforcement	0		0%	0	22-Jan-15		07-Jan-15	-11	36																				
ARDD0400	Viaduct C - Typical Anchorage and Tendon Types	0		100%	0	20-Dec-14 A																								
ARDD0401	Viaduct C - Final Anchorage and PT Requirements	0		0%	0	22-Dec-14		07-Jan-15	13	60																				
ARDD0402	Viaduct C - Provisional Bearing Schedule	0		100%	0	20-Dec-14 A																								
ARDD0403	Viaduct C - Final Bearing Schedule	0		0%	0	22-Dec-14		05-Sep-14	-75	0																				
ARDD0404	Viaduct C - Provisional Movement Joint (MJ) Schedule	0		100%	0	20-Dec-14 A																								
ARDD0405	Viaduct C - Final Movement Joint (MJ) Schedule	0		0%	0	22-Dec-14		02-Mar-16	313	180																				
Viaduct A																														
Viaduct Design																														
ARDD0425	Viaduct A - IC/SO Approval of Viaduct AIP - DP11.00	68	19-Jul-14 A	100%	0	08-Dec-14 A																								
ARDD0425-1	Viaduct A - IC/SO Approval of Viaduct AIP - DP11.00	0		100%	0	08-Dec-14 A																								
ARDD0430-1	Viaduct A - Earliest IC Certificate for Foundation DDA DP11.01	0		0%	0	22-Dec-14		04-Mar-15	53	45																				
ARDD0430-2	Viaduct A - IC/SO Approval of Foundation DDA - DP11.01	55	04-Oct-14 A	20%	44	19-Feb-15	02-Jan-15	04-Mar-15	9	0																				
ARDD0430-4	Viaduct A - IC/SO Approval of Foundation DDA - DP11.01	0		0%	0	19-Feb-15		04-Mar-15	9	0																				
ARDD0432	Viaduct A - Preparation of Substructure DDA - DP11.03	50	19-Sep-14 A	34%	33	04-Feb-15	17-Nov-14	31-Dec-14	-25	0																				
ARDD0433	Viaduct A - Preparation of Superstructure DDA - DP11.03	70	19-Sep-14 A	35.71%	45	20-Feb-15	18-Aug-14	17-Oct-14	-90	0																				
ARDD0434-2	Viaduct A - Submission of DDA - DP11.03	0		0%	0	20-Feb-15		17-Oct-14	-90	0																				
ARDD0435-3	Viaduct A - IC/SO Approval of DDA DP11.03	75	23-Feb-15	0%	75	05-Jun-15	05-Mar-15	17-Jun-15	8	0																				
Information to Contractor																														
ARDD0443	Viaduct A - Typical Pilecap Reinforcement - Stainless Steel Rebar	0	22-Dec-14	0%	0		01-Jan-15		8	33																				
ARDD0444	Viaduct A - Typical Pilecap Reinforcement - Regular Rebar	0		0%	0	22-Dec-14		31-Dec-14	8	33																				
ARDD0445	Viaduct A - Final Pilecap Reinforcement	0		0%	0	04-Feb-15		31-Dec-14	-25	0																				
ARDD0447	Viaduct A - Final Pier Shapes and Reinforcement	0		0%	0	04-Feb-15		21-May-15	76	10																				
ARDD0448	Viaduct A - Typical Segment Shapes for Moulds	0		0%	0	22-Dec-14		28-May-15	114	0																				
ARDD0449	Viaduct A - Typical Segment Reinforcement	0		0%	0	22-Dec-14		28-May-15	114	45																				
ARDD0450	Viaduct A - Final Segment Types and Reinforcement	0		0%	0	20-Feb-15		09-Jul-15	99	30																				
ARDD0451	Viaduct A - Typical Anchorage and Tendon Types	0		0%	0	20-Feb-15		28-May-15	69	0																				
ARDD0452	Viaduct A - Final Anchorage and PT Requirements	0		0%	0	20-Feb-15		09-Jul-15	99	30																				
ARDD0453	Viaduct A - Provisional Bearing Schedule	0		0%	0	20-Feb-15		17-Oct-14	-90	0																				
ARDD0454	Viaduct A - Final Bearing Schedule	0		0%	0	20-Feb-15		06-Jul-15	96	48																				
ARDD0455	Viaduct A - Provisional Movement Joint (MJ) Schedule	0		0%	0	20-Feb-15		12-Jun-15	80	0																				

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

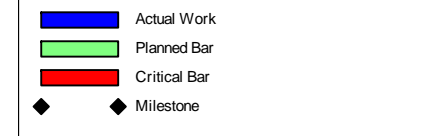
Project ID: J3518DWPd1-M19
 Layout: J3518-DWP-3MRP Submission - M19
 Filter: TASK filters: 3-Month Lookahead, No CC
 Milestones, no Level of Effort, No Level of Effort.

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3-Month Rolling Programme (Page 2 of 36 Pages)
(Progress as of 21-Dec-14)

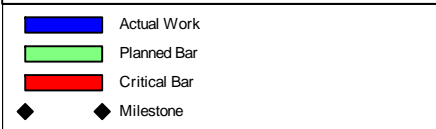
Date	Revision	Checked	Approved
21-Sep-14			
21-Oct-14			
21-Nov-14		DB	
21-Dec-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M19

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	2014					2015												
											December					January					February			March				
												24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16
ARDD0525-6	Viaduct F2, F4 & F5 - IC/SO Approval of Foundation DDA - DP16.13	75	16-Aug-14 A	90.67%	7	30-Dec-14	25-Nov-14	03-Dec-14	-19	0	Gantt bar: blue from 24-Dec to 01-Jan, red from 08-Jan to 22-Jan, milestone on 08-Jan																	
ARDD0525-7	Viaduct F2, F4 & F5 - IC/SO Approval of Foundation DDA - DP16.10	0		0%	0	30-Dec-14		03-Dec-14	-19	0	Milestone on 03-Dec																	
ARDD0525-8	Viaduct F2, F4 & F5 - IC/SO Approval of Foundation DDA - DP16.04	0		0%	0	30-Dec-14		03-Dec-14	-19	0	Milestone on 03-Dec																	
ARDD0526	Viaduct F2, F4 & F5 - Preparation of Substructure DDA - DP16.05	50	15-Aug-14 A	100%	0	24-Nov-14 A					Gantt bar: blue from 15-Aug to 24-Nov																	
ARDD0526-4	Viaduct F2, F4 & F5 - Preparation of Substructure DDA - DP16.11	50	15-Aug-14 A	100%	0	24-Nov-14 A					Gantt bar: blue from 15-Aug to 24-Nov																	
ARDD0526-6	Viaduct F2, F4 & F5 - Preparation of Substructure DDA - DP16.14	50	15-Aug-14 A	100%	0	24-Nov-14 A					Gantt bar: blue from 15-Aug to 24-Nov																	
ARDD0527	Viaduct F2, F4 & F5 - Preparation of Superstructure DDA - DP16.06	70	15-Aug-14 A	100%	0	24-Nov-14 A					Gantt bar: blue from 15-Aug to 24-Nov																	
ARDD0527-4	Viaduct F2, F4 & F5 - Preparation of Superstructure DDA - DP16.12	70	15-Aug-14 A	100%	0	24-Nov-14 A					Gantt bar: blue from 15-Aug to 24-Nov																	
ARDD0527-6	Viaduct F2, F4 & F5 - Preparation of Superstructure DDA - DP16.15	70	15-Aug-14 A	100%	0	24-Nov-14 A					Gantt bar: blue from 15-Aug to 24-Nov																	
ARDD0528-1	Viaduct F2, F4 & F5 - Submission of DDA -DP16.05	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0528-2	Viaduct F2, F4 & F5 - Submission of DDA -DP16.06	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0528-3	Viaduct F2, F4 & F5 - Submission of DDA -DP16.11	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0528-4	Viaduct F2, F4 & F5 - Submission of DDA -DP16.12	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0528-5	Viaduct F2, F4 & F5 - Submission of DDA -DP16.14	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0528-6	Viaduct F2, F4 & F5 - Submission of DDA -DP16.15	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0529-1	Viaduct F2, F4 & F5 - Earliest IC certificate for DDA - DP16.05,06,11,12,14,15	0		0%	0	05-Jan-15		17-Mar-15	51	47	Milestone on 05-Jan																	
ARDD0529-10	Viaduct F2, F4 & F5 - IC/SO Approval of Sub-Structure DDA -DP16.14	75	25-Nov-14 A	20%	60	08-May-15	20-Feb-15	14-May-15	4	0	Gantt bar: blue from 25-Nov to 20-Feb, red from 20-Feb to 14-May																	
ARDD0529-12	Viaduct F2, F4 & F5 - IC/SO Approval of Superstructure DDA -DP16.15	75	25-Nov-14 A	20%	60	08-May-15	20-Feb-15	14-May-15	4	0	Gantt bar: blue from 25-Nov to 20-Feb, red from 20-Feb to 14-May																	
ARDD0529-2	Viaduct F2, F4 & F5 - IC/SO Approval of Substructure DDA - DP16.05	75	25-Nov-14 A	20%	60	08-May-15	20-Feb-15	14-May-15	4	0	Gantt bar: blue from 25-Nov to 20-Feb, red from 20-Feb to 14-May																	
ARDD0529-4	Viaduct F2, F4 & F5 - IC/SO Approval of Superstructure DDA - DP16.06	75	25-Nov-14 A	20%	60	08-May-15	20-Feb-15	14-May-15	4	0	Gantt bar: blue from 25-Nov to 20-Feb, red from 20-Feb to 14-May																	
ARDD0529-6	Viaduct F2, F4 & F5 - IC/SO Approval of Sub-Structure DDA - DP16.11	75	25-Nov-14 A	20%	60	08-May-15	20-Feb-15	14-May-15	4	0	Gantt bar: blue from 25-Nov to 20-Feb, red from 20-Feb to 14-May																	
ARDD0529-8	Viaduct F2, F4 & F5 - IC/SO Approval of Superstructure DDA - DP16.12	75	25-Nov-14 A	20%	60	08-May-15	20-Feb-15	14-May-15	4	0	Gantt bar: blue from 25-Nov to 20-Feb, red from 20-Feb to 14-May																	
Information to Contractor																												
ARDD0536	Viaduct F2, F4 & F5 - Typical Pilecap Reinforcement - Stainless Steel Rebar	0	24-Nov-14 A	100%	0						Milestone on 24-Nov																	
ARDD0537	Viaduct F2, F4 & F5 - Typical Pilecap Reinforcement - Regular Rebar	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0538	Viaduct F2, F4 & F5 - Final Pilecap Reinforcement	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0540	Viaduct F2, F4 & F5 - Final Pier Shapes and Reinforcement	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0541	Viaduct F2, F4 & F5 - Typical Segment Shapes for Moulds	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0542	Viaduct F2, F4 & F5 - Typical Segment Reinforcement	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0543	Viaduct F2, F4 & F5 - Final Segment Types and Reinforcement	0		0%	0	22-Dec-14		19-Feb-15	44	88	Milestone on 22-Dec																	
ARDD0544	Viaduct F2, F4 & F5 - Typical Anchorage and Tendon Types	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0545	Viaduct F2, F4 & F5 - Final Anchorage and PT Requirements	0		0%	0	22-Dec-14		19-Feb-15	44	88	Milestone on 22-Dec																	
ARDD0546	Viaduct F2, F4 & F5 - Provisional Bearing Schedule	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0547	Viaduct F2, F4 & F5 - Final Bearing Schedule	0		0%	0	22-Dec-14		17-Oct-14	-45	45	Milestone on 22-Dec																	
ARDD0548	Viaduct F2, F4 & F5 - Provisional Movement Joint (MJ) Schedule	0		100%	0	24-Nov-14 A					Milestone on 24-Nov																	
ARDD0549	Viaduct F2, F4 & F5 - Final Movement Joint (MJ) Schedule	0		0%	0	22-Dec-14		26-Jun-15	135	60	Milestone on 22-Dec																	
Parapet and Utility Trough																												
ARDD0566	IC/SO Approval of DDA -DP30.01 & DP31.01	75	31-Jul-14 A	50.67%	37	10-Feb-15	02-Oct-14	21-Nov-14	-57	0	Gantt bar: blue from 31-Jul to 02-Oct, red from 02-Oct to 21-Nov																	
ARDD0566-1	IC/SO Approval of DDA -DP30.01 & DP31.01	0		0%	0	10-Feb-15		21-Nov-14	-57	0	Milestone on 21-Nov																	
TCSS Provisions																												
ARDD0573	IC/SO Approval of DDA for TCSS civil provisions - BP10.01	75	29-Sep-14 A	60%	30	30-Jan-15	13-Oct-14	21-Nov-14	-50	0	Gantt bar: blue from 29-Sep to 13-Oct, red from 13-Oct to 21-Nov																	
ARDD0573-1	IC/SO Approval of DDA for TCSS civil provisions - BP10.01	0		0%	0	30-Jan-15		21-Nov-14	-50	0	Milestone on 21-Nov																	
Slopeworks for Viaduct C: 10NW -C/C22, C/C26, C/C27, C/F13, C/F14, C/F15																												
ARDD0587	IC/SO Approval of Slope Combined AIP/DDA -CP13.01	75	20-Nov-13 A	89.33%	8	31-Dec-14	14-Sep-15	23-Sep-15	190	0	Gantt bar: blue from 20-Nov to 14-Sep, green from 14-Sep to 23-Sep																	
ARDD0587-1	IC/SO Approval of Slope Combined AIP/DDA -CP13.01	0		0%	0	31-Dec-14		23-Sep-15	190	0	Milestone on 31-Dec																	
Slopeworks for Viaduct A: 9SE-B/FR8, B/R1, B/R2																												
ARDD0595	IC/SO Approval of Slope Combined AIP/DDA -CP11.01	75	31-Jul-14 A	90.67%	7	30-Dec-14	15-Sep-15	23-Sep-15	191	1	Gantt bar: blue from 31-Jul to 15-Sep, green from 15-Sep to 23-Sep																	

	Project ID: J3518DWPDrD1-M19 Layout: J3518-DWP-3MRP Submission - M19 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, no Level of Effort, No Level of Effort.	<p style="text-align: center;">Tuen Mun - Chek Lap Kok Link - Southern Connection</p> <p style="text-align: center;">3-Month Rolling Programme (Page 4 of 36 Pages)</p> <p style="text-align: center;">(Progress as of 21-Dec-14)</p>	<table border="1"> <thead> <tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr> </thead> <tbody> <tr><td>21-Sep-14</td><td></td><td></td><td></td></tr> <tr><td>21-Oct-14</td><td></td><td></td><td></td></tr> <tr><td>21-Nov-14</td><td></td><td>DB</td><td></td></tr> <tr><td>21-Dec-14</td><td></td><td></td><td></td></tr> </tbody> </table>	Date	Revision	Checked	Approved	21-Sep-14				21-Oct-14				21-Nov-14		DB		21-Dec-14				DWG. No.: <p style="font-size: 1.2em; font-weight: bold;">J3518/GCL/PGM/3MRP-M19</p>
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											December					January					February					March		
												24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16
ARDD0595-1	IC/SO Approval of Slope Combined AIP/DDA -CP11.01	0		0%	0	31-Dec-14		23-Sep-15	190	142																		
Slopeworks for Viaduct D: 10NW -C/R4, C/F9, C/F10, C/F11, C/F17, C/F50																												
ARDD0602	Preparation of Slope Combined AIP/DDA - CP14.01	20	10-Dec-13 A	100%	0	15-Dec-14 A																						
ARDD0603	IC/SO Approval of Slope Combined AIP/DDA -CP14.01	75	16-Dec-14 A	0%	75	03-Apr-15	29-Oct-14	10-Feb-15	-38	0																		
Natural Terrian Hazard Assessment																												
ARDD0613	GEO Approval of NTHM Combined AIP/DDA - CP20.02, CP21.02	75	16-Jul-14 A	90.67%	7	30-Dec-14	12-Mar-15	20-Mar-15	58	0																		
ARDD0613-1	GEO Approval of NTHM Combined AIP/DDA - CP20.02, CP21.02	0		0%	0	30-Dec-14		20-Mar-15	58	0																		
Waterworks, Drainage & Utility Diversions																												
ARDD0629	IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01	75	22-Jul-14 A	90.67%	7	30-Dec-14	16-Oct-14	24-Oct-14	-47	8																		
ARDD0629-1	IC/SO Approval of Waterworks, Drainage & Utility DDA - BP20.01	0		0%	0	09-Jan-15		24-Oct-14	-55	0																		
ARDD0630	Gov't Approval of Submissions for Waterworks, Drainage & Utility Diversions	75	22-Jul-14 A	80%	15	09-Jan-15	06-Oct-14	24-Oct-14	-55	0																		
Viaduct Approach Ramp Retaining Walls																												
Approach Ramp D																												
ARDD0652	Approach D - IC/SO Approval of Approach Ramp D DDA - DP20.01	75	25-Sep-14 A	60%	30	30-Jan-15	31-Dec-14	10-Feb-15	7	0																		
ARDD0652-1	Approach D - IC/SO Approval of Approach Ramp D DDA - DP20.01	0		0%	0	30-Jan-15		10-Feb-15	7	12																		
Approach Ramp C																												
ARDD0658	Approach C - IC/SO Approval of Approach Ramp C DDA -DP20.01	75	03-Oct-14 A	20%	60	13-Mar-15	16-Dec-14	09-Mar-15	-4	0																		
ARDD0658-1	Approach C - IC/SO Approval of Approach Ramp C DDA -DP20.01	0		0%	0	13-Mar-15		09-Mar-15	-4	15																		
Approach Ramp B																												
ARDD0664	Approach B - IC/SO Approval of Approach Ramp B DDA -DP21.01	75	14-Oct-14 A	80%	15	09-Jan-15	06-Oct-14	24-Oct-14	-55	0																		
ARDD0664-1	Approach B - IC/SO Approval of Approach Ramp B DDA -DP21.01	0		0%	0	09-Jan-15		24-Oct-14	-55	136																		
Approach A																												
ARDD0670	Approach A - IC/SO Approval of Approach Ramp A DDA - DP20.01	75	03-Oct-14 A	20%	60	13-Mar-15	26-Mar-15	17-Jun-15	68	0																		
ARDD0670-1	Approach A - IC/SO Approval of Approach Ramp A DDA - DP20.01	0		0%	0	13-Mar-15		17-Jun-15	68	45																		
Approach F																												
ARDD0675	Approach F - Preparation of Approach Ramp F DDA Submission -DP22.01	50	12-Nov-14 A	98%	1	22-Dec-14	09-Oct-14	09-Oct-14	-52	0																		
ARDD0676	Approach F - IC/SO Approval of Approach Ramp F DDA -DP22.01	75	23-Dec-14	0%	75	06-Apr-15	10-Oct-14	22-Jan-15	-52	0																		
Viaduct Pavement																												
ARDD867	Viaduct Pavement - IC/SO Approval of AIP - BP02.00	68	27-Jun-14 A	89.71%	7	30-Dec-14	21-Aug-18	29-Aug-18	956	0																		
ARDD867-1	Viaduct Pavement - IC/SO Approval of AIP - BP02.00	0		0%	0	30-Dec-14		29-Aug-18	956	956																		
ARDD871	Viaduct Pavement - IC/SO Approval of DDA - BP02.01	75	27-Jun-14 A	90.67%	7	30-Dec-14	25-Nov-14	03-Dec-14	-19	0																		
ARDD871-1	Viaduct Pavement - IC/SO Approval of DDA - BP02.01	0		0%	0	30-Dec-14		03-Dec-14	-19	0																		
Signs, Markings and Street Furniture																												
ARDD0688	IC/SO Approval of Signs, Markings & Street Furniture DDA - BP03.01	75	16-Oct-14 A	20%	60	13-Mar-15	13-Feb-15	07-May-15	39	0																		
ARDD0688-1	IC/SO Approval of Signs, Markings & Street Furniture DDA - BP03.01	0		0%	0	13-Mar-15		07-May-15	39	0																		
Landscape																												
ARDD0700	IC/SO Approval of DDA for landscape works - BP22.01	75	15-Oct-14 A	0%	75	03-Apr-15	21-Sep-15	01-Jan-16	195	0																		
Remaining Works																												
ARDD0704	Preparation of Remaining Works AIP - ZP01.00	30	22-Dec-14	0%	30	30-Jan-15	02-May-16	10-Jun-16	355	0																		
ARDD0705	IC/SO Approval of Remaining Works AIP - ZP01.00	40	02-Feb-15	0%	40	27-Mar-15	13-Jun-16	05-Aug-16	355	0																		
Segment Target Geometry And Erection Engineering																												
Viaduct A																												
ARDD0716	Viaduct A - Confirmation of Erection Sequence from Freyssinet	0		0%	0	22-Dec-14		22-Jan-15	24	0																		
ARDD0717	Viaduct A - Erection Sequence Analysis	20	22-Dec-14	0%	20	16-Jan-15	23-Jan-15	19-Feb-15	24	0																		
ARDD0718	Viaduct A - Target Geometry Analysis	20	19-Jan-15	0%	20	13-Feb-15	20-Feb-15	19-Mar-15	24	0																		
ARDD0719	Viaduct A - Segment Geometry Schedules	10	16-Feb-15	0%	10	27-Feb-15	20-Mar-15	02-Apr-15	24	0																		
ARDD0719-1	Viaduct A - Final Erection Geometry (Bridge A2)	0		0%	0	27-Feb-15		02-Apr-15	24	0																		



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											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
Viaduct C																																					
ARDD0722	Viaduct C - Erection Sequence Analysis	20	17-Nov-14 A	75%	5	26-Dec-14	25-Nov-14	01-Dec-14	-19	0	[Actual Work Bar]																										
ARDD0723	Viaduct C - Target Geomtry Analysis	20	29-Dec-14	0%	20	23-Jan-15	02-Dec-14	29-Dec-14	-19	0	[Planned Bar]																										
ARDD0724	Viaduct C - Segment Geometry Schedules	10	26-Jan-15	0%	10	06-Feb-15	30-Dec-14	12-Jan-15	-19	0	[Planned Bar]																										
ARDD0724-1	Viaduct C - Final Erection Geometry (Bridge C4 & C3)	0		0%	0	06-Feb-15		12-Jan-15	-19	0	[Critical Bar]																										
ARDD0724-2	Viaduct C - Final Erection Geometry (Bridge C2 & C1)	0		0%	0	20-Mar-15		09-Mar-15	-9	10	[Critical Bar]																										
Viaduct D																																					
ARDD0727	Viaduct D - Erection Sequence Analysis	20	18-Aug-14 A	100%	0	04-Dec-14 A					[Actual Work Bar]																										
ARDD0728	Viaduct D - Target Geomtry Analysis	20	11-Dec-14 A	30%	14	08-Jan-15	10-Aug-18	29-Aug-18	949	949	[Planned Bar]																										
ARDD0729	Viaduct D - Segment Geometry Schedules	10	11-Dec-14 A	30%	7	30-Dec-14	08-Aug-14	18-Aug-14	-96	0	[Planned Bar]																										
ARDD0729-1	Viaduct D - Final Erection Geometry (Bridge D3)	0		0%	0	30-Dec-14		18-Aug-14	-96	0	[Critical Bar]																										
ARDD0729-2	Viaduct D - Final Erection Geometry (Bridge D2 & D1)	0		0%	0	30-Dec-14		22-Sep-14	-71	55	[Critical Bar]																										
Viaduct E5 and E6																																					
ARDD0734	Viaduct E5 & E6 - Segment Geometry Schedules	10	18-Mar-14 A	20%	8	31-Dec-14	29-May-14	09-Jun-14	-147	0	[Actual Work Bar]																										
ARDD0734-1	Viaduct E5 & E6 - Final Erection Geometry	0		0%	0	31-Dec-14		09-Jun-14	-147	7	[Critical Bar]																										
Viaduct E7 & E8																																					
ARDD0739	Viaduct E7 & E8 - Segment Geometry Schedules	10	18-Mar-14 A	20%	8	31-Dec-14	29-May-14	09-Jun-14	-147	0	[Actual Work Bar]																										
ARDD0739-1	Viaduct E7 & E8 - Final Erection Geometry	0		0%	0	31-Dec-14		09-Jun-14	-147	7	[Critical Bar]																										
Viaduct E1																																					
ARDD0744	Viaduct E1 - Segment Geometry Schedules	10	22-Sep-14 A	80%	2	23-Dec-14	24-Sep-14	25-Sep-14	-63	0	[Actual Work Bar]																										
ARDD0744-1	Viaduct E1 - Final Erection Geometry	0		0%	0	23-Dec-14		25-Sep-14	-63	61	[Critical Bar]																										
Viaduct E2																																					
ARDD0749	Viaduct E2 - Segment Geometry Schedules	10	18-Mar-14 A	20%	8	31-Dec-14	06-May-14	15-May-14	-164	0	[Actual Work Bar]																										
ARDD0749-1	Viaduct E2 - Final Erection Geometry	0		0%	0	31-Dec-14		15-May-14	-164	3	[Critical Bar]																										
Viaduct F																																					
ARDD0751	Viaduct F - Confirmation of Erection Sequence from Freyssinet	0		0%	0	22-Dec-14		20-Oct-14	-44	0	[Critical Bar]																										
ARDD0752	Viaduct F - Erection Sequence Analysis	30	22-Dec-14	0%	30	30-Jan-15	21-Oct-14	01-Dec-14	-44	0	[Planned Bar]																										
ARDD0753	Viaduct F - Target Geometry Analysis	30	02-Feb-15	0%	30	13-Mar-15	02-Dec-14	12-Jan-15	-44	0	[Planned Bar]																										
ARDD0754	Viaduct F - Segment Geometry Schedules	10	16-Mar-15	0%	10	27-Mar-15	13-Jan-15	26-Jan-15	-44	0	[Planned Bar]																										
Reprovisioning Works																																					
CEDD Access Track																																					
ARDD0809	IC/SO Approval of Combined AIP/DDA for CEDD Access Track - BP32.01	75	26-Sep-14 A	20%	60	13-Mar-15	21-Mar-16	10-Jun-16	325	0	[Actual Work Bar]																										
ARDD0817	IC/SO Approval of Combined AIP/DDA for CEDD Access Track - BP32.01	0		0%	0	13-Mar-15		10-Jun-16	325	429	[Critical Bar]																										
Other Design																																					
Marine Permanent Navigation Aids																																					
BMT0135	Preparation of MPNA DDA - BP36.01	46	11-Jun-14 A	19.57%	37	10-Feb-15	26-Feb-15	17-Apr-15	48	0	[Planned Bar]																										
BMT0140	IC/SO Approval of MPNA DDA BP36.01	75	11-Feb-15	0%	75	26-May-15	20-Apr-15	31-Jul-15	48	0	[Planned Bar]																										
Major Procurement																																					
Marine Permanent Navigaion Aids																																					
PR65011	Design & Approvals for Marine Navigation Aids	150	16-Dec-13 A	54.67%	68	26-May-15	11-May-15	31-Jul-15	55	0	[Actual Work Bar]																										
Tower Cranes																																					
PR66011	Procure & Deliver Tower Cranes	325	01-Oct-14 A	53.85%	150	29-Jun-15	03-Oct-14	02-Apr-15	-68	940	[Actual Work Bar]																										
PR66013	Erect & Commission Tower Crane @ E4	24	15-Jan-15	0%	24	11-Feb-15	03-Oct-14	01-Nov-14	-84	22	[Planned Bar]																										
PR66018	Erect & Commission Tower Crane @ E9	24	15-Jan-15	0%	24	11-Feb-15	10-Jun-15	27-Jul-15	102	43	[Planned Bar]																										
PR66019	Erect & Commission Tower Crane @ E10	24	15-Jan-15	0%	24	11-Feb-15	16-Jan-15	12-Feb-15	1	41	[Planned Bar]																										
Equipment Platforms for Tower Cranes																																					
PR66026	Inst.Temp.Eqpt.Platform (piles & deck) @ E4	18	22-Dec-14	0%	18	14-Jan-15	05-Sep-14	30-Sep-14	-84	0	[Planned Bar]																										

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

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											December					January				February			March				April							
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	30	06	13	20	27	04	11	18	25	01
PR66031	Inst.Temp.Eqpt.Platform (piles & deck) @ E9	18	22-Dec-14	0%	18	14-Jan-15	11-May-15	08-Jun-15	102	0																								
PR66032	Inst.Temp.Eqpt.Platform (piles & deck) @ E10	18	22-Dec-14	0%	18	14-Jan-15	23-Dec-14	15-Jan-15	1	0																								
PR66033	Inst.Temp.Eqpt.Platform (piles & deck) @ E11	18	14-Mar-15	0%	18	10-Apr-15	27-Oct-14	15-Nov-14	-113	0																								
Deck Segment Installation Equipment																																		
Launching Gantry 1																																		
PR67040	Launching Gantry Design	95	05-Feb-14 A	97.89%	2	23-Dec-14	12-Nov-14	13-Nov-14	-34	23																								
PR67041	Launching Gantry 1 Fabrication	95	15-May-14 A	97.89%	2	23-Dec-14	28-Aug-18	29-Aug-18	1088	1088																								
PR67042	Launching Gantry 1 Delivery	20	28-Aug-14 A	50%	10	05-Jan-15	18-Aug-18	29-Aug-18	1080	1080																								
Launching Gantry 2																																		
PR67043	Launching Gantry 2 Fabrication	105	16-Jun-14 A	30.48%	73	23-Mar-15	16-Oct-14	12-Jan-15	-57	0																								
Lifting Frames																																		
Lifting Frames 1 & 2																																		
PR68011	Lifting Frame 1&2 Design	70	02-Jun-14 A	60%	28	26-Jan-15	05-Sep-14	10-Oct-14	-89	2																								
PR68012	Lifting Frame 1&2 Approval	60	22-Dec-14	0%	60	07-Mar-15	05-Sep-14	17-Nov-14	-89	6																								
PR68013	Lifting Frame 1&2 Fabrication	140	29-Sep-14 A	10%	126	30-May-15	29-Aug-14	29-Jan-15	-95	0																								
Lifting Frames 3 & 4																																		
PR68015	Lifting Frame 3&4 Design	70	02-Jun-14 A	60%	28	26-Jan-15	06-Nov-14	08-Dec-14	-39	2																								
PR68016	Lifting Frame 3&4 Approval	60	22-Dec-14	0%	60	07-Mar-15	29-Nov-14	10-Feb-15	-19	20																								
PR68017	Lifting Frame 3&4 Fabrication	140	22-Dec-14	0%	140	16-Jun-15	06-Nov-14	29-Apr-15	-39	0																								
Lifting Frames 5 & 6																																		
PR68019	Lifting Frame 5&6 Design	70	22-Dec-14	0%	70	19-Mar-15	08-Nov-14	31-Jan-15	-37	0																								
PR68020	Lifting Frame 5&6 Approval	60	09-Mar-15	0%	60	22-May-15	13-Feb-15	02-May-15	-17	20																								
PR68021	Lifting Frame 5&6 Fabrication	140	09-Mar-15	0%	140	27-Aug-15	21-Jan-15	15-Jul-15	-37	0																								
Unloading Frames																																		
Type 1																																		
PR69100	Unloading Frame Type 1 Design	50	05-May-14 A	40%	30	28-Jan-15	10-Oct-14	13-Nov-14	-62	17																								
PR69110	Unloading Frame Type 1 Fabrication	95	22-Dec-14	0%	95	22-Apr-15	10-Oct-14	31-Jan-15	-62	0																								
Type 2																																		
PR69170	Unloading Frame Type 2 Design	50	05-May-14 A	40%	30	28-Jan-15	18-May-15	23-Jun-15	115	17																								
PR69180	Unloading Frame Type 2 Fabrication	95	22-Dec-14	0%	95	22-Apr-15	18-May-15	08-Sep-15	115	0																								
Type 4																																		
PR69250	Unloading Frame Type 4 Design	50	05-May-14 A	40%	30	28-Jan-15	29-Oct-14	02-Dec-14	-46	17																								
PR69260	Unloading Frame Type 4 (BCF) Fabrication	95	22-Dec-14	0%	95	22-Apr-15	29-Oct-14	23-Feb-15	-46	0																								
Deck Segments & Precast Pile Cap Shells																																		
Preliminaries																																		
MBBE0018	Precast Segment Mould Design (Viaduct E5, E6, E7 & E8)	42	15-Oct-13 A	59.52%	17	13-Jan-15	19-Jun-14	09-Jul-14	-155	0																								
MBBE0020	Precast Segment Mould Fabrication & Assembly (Viaduct E5, E6, E7 & E8)	52	14-Jan-15	0%	52	18-Mar-15	10-Jul-14	08-Sep-14	-155	18																								
MBBE0024	Precast Segment Mould Design (Viaduct E2)	42	15-Oct-13 A	59.52%	17	13-Jan-15	26-May-14	14-Jun-14	-175	0																								
MBBE0026	Precast Segment Mould Fabrication & Assembly (Viaduct E2)	52	14-Jan-15	0%	52	18-Mar-15	16-Jun-14	15-Aug-14	-175	13																								
MBBE0030	Precast Segment Mould Design (Viaduct E1)	42	30-Jul-14 A	0%	42	11-Feb-15	09-Jul-14	26-Aug-14	-139	0																								
MBBE0032	Precast Segment Mould Fabrication & Assembly (Viaduct E1)	52	12-Feb-15	0%	52	21-Apr-15	27-Aug-14	29-Oct-14	-139	0																								
MBBE0036	Precast Segment Mould Design (Viaduct D)	42	22-Dec-14	0%	42	11-Feb-15	07-Jul-14	23-Aug-14	-141	0																								
MBBE0038	Precast Segment Mould Fabrication & Assembly (Viaduct D)	52	12-Feb-15	0%	52	21-Apr-15	25-Aug-14	27-Oct-14	-141	0																								
MBBE0042	Precast Segment Mould Design (Viaduct C)	42	22-Dec-14	0%	42	11-Feb-15	06-Dec-14	27-Jan-15	-13	0																								
MBBE0044	Precast Segment Mould Fabrication & Assembly (Viaduct C)	52	12-Feb-15	0%	52	21-Apr-15	28-Jan-15	01-Apr-15	-13	37																								
MBBE0048	Precast Segment Mould Design (Viaduct A)	42	22-Dec-14	0%	42	11-Feb-15	23-Jul-15	09-Sep-15	169	0																								
MBBE0050	Precast Segment Mould Fabrication & Erection (Viaduct A)	52	12-Feb-15	0%	52	21-Apr-15	10-Sep-15	12-Nov-15	169	89																								

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											December						January						February						March						
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16								
PPBRE4	Design check by ICE - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	06-Jun-14 A	16.67%	20	16-Jan-15	07-Aug-18	29-Aug-18	1070	1070	[Gantt Bar]																								
PPBRE5	SO review & comment on design submission - Viaduct E (E1, E2, E5, E6, E7 & E8)	36	10-Oct-14 A	5.56%	34	02-Feb-15	07-Jul-18	15-Aug-18	1044	0	[Gantt Bar]																								
PPBRE6	Bearing Design Amendment & re-issue - Viaduct E (E1, E2, E5, E6, E7 & E8)	12	03-Feb-15	0%	12	16-Feb-15	16-Aug-18	29-Aug-18	1044	0	[Gantt Bar]																								
PPBRE7	Manufacture of Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	54	02-Jun-14 A	5.56%	51	25-Feb-15	30-Jun-18	29-Aug-18	1039	1039	[Gantt Bar]																								
PPBRE8	Testing Bearing - Viaduct E (E1, E2, E5, E6, E7 & E8)	24	30-Jun-14 A	4.17%	23	16-Feb-15	03-Aug-18	29-Aug-18	1044	1044	[Gantt Bar]																								
PPBRE9	Bearing Delivery - Viaduct E (E1, E2, E5, E6, E7 & E8)	48	18-Oct-14 A	4.17%	46	16-Feb-15	04-Dec-14	29-Jan-15	-15	0	[Gantt Bar]																								
Bridge E1																																			
PP7360	Site preparation Bearings for Viaduct E1	18	17-Feb-15	0%	18	12-Mar-15	30-Jan-15	23-Feb-15	-15	0	[Gantt Bar]																								
Bridge E2																																			
PP7290	Site preparation Bearings for Viaduct E2	18	13-Mar-15	0%	18	08-Apr-15	24-Feb-15	16-Mar-15	-15	0	[Gantt Bar]																								
Viaduct F																																			
PPBRF1	Preliminary Design of Bearings - Viaduct F	70	23-Feb-15	0%	70	20-May-15	20-Oct-14	12-Jan-15	-102	0	[Gantt Bar]																								
Movement Joints																																			
PPMJ01	Design & Submission of MJ	138	08-Feb-14 A	52.9%	65	13-Mar-15	09-Apr-15	26-Jun-15	83	0	[Gantt Bar]																								
PPMJ02-1	MJ Design Approval	96	26-May-14 A	39.58%	58	05-Mar-15	17-Apr-15	26-Jun-15	90	7	[Gantt Bar]																								
PPMJ02-2	Manufacture & delivery of MJ	188	14-Mar-15	0%	188	31-Oct-15	27-Jun-15	12-Feb-16	83	0	[Gantt Bar]																								
Other Sub-Contract Procurement																																			
Pavement																																			
PP7760-2	Procure Pavement Viaduct Sub-Contractor	36	31-Dec-14	0%	36	11-Feb-15	02-Oct-15	13-Nov-15	222	0	[Gantt Bar]																								
PP7760-4	Pavement Viaduct Sub-Contractor - Materials approvals & MS	90	12-Feb-15	0%	90	06-Jun-15	14-Nov-15	04-Mar-16	222	335	[Gantt Bar]																								
Structural Health Monitoring System (SHMS)																																			
PP7774	SHMS - So approval of Preliminary System Proposal	30	29-Jul-14 A	90%	3	24-Dec-14	27-Aug-18	29-Aug-18	1087	1087	[Gantt Bar]																								
PP7776	SHMS - Prepare & Submit Final System Proposal	48	29-Jul-14 A	100%	0	15-Dec-14 A					[Gantt Bar]																								
PP7778	SHMS - So approval of Final System Proposal	30	16-Dec-14 A	0%	30	28-Jan-15	14-Jun-14	19-Jul-14	-159	0	[Gantt Bar]																								
PP7780	SHMS - Prepare Civil Work Provision	90	22-Dec-14	0%	90	16-Apr-15	14-May-14	28-Aug-14	-185	0	[Gantt Bar]																								
PP7782	SHMS - Submit Precast Pile Cap Shell SHMS details for E5-E6-E7-E8	0	22-Jan-15	0%	0		25-Jun-14		-174	0	[Milestone]																								
PP7786	SHMS - Submit Segment SHMS details for E5-E6-E7-E8	0	12-Feb-15	0%	0		18-Jul-14		-173	0	[Milestone]																								
PP7788	SHMS - FAT & Delivery for Bridge E5-E6-E7-E8 equipment	54	29-Jan-15	0%	54	09-Apr-15	21-Jul-14	22-Sep-14	-159	18	[Gantt Bar]																								
Site Preparation / Mobilisations																																			
Temp Traffic Mgt Submission & Approval																																			
TTM00550	Earliest Implementation of TTM after TMLG Meeting No. 15	0	01-Dec-14 A	100%	0						[Milestone]																								
TTM00560	Send TTMs to SO & Govt Depts for TMLG Meeting No. 16	0		100%	0	01-Dec-14 A					[Milestone]																								
TTM00570	TMLG Meeting No. 16	0		100%	0	09-Dec-14 A					[Milestone]																								
TTM00580	Earliest Implementation of TTM after TMLG Meeting No. 16	0	20-Dec-14 A	100%	0						[Milestone]																								
TTM00590	Send TTMs to SO & Govt Depts for TMLG Meeting No. 17	0		0%	0	23-Dec-14		24-Feb-15	45	2	[Gantt Bar]																								
TTM00600	TMLG Meeting No. 17	0		0%	0	08-Jan-15*		10-Mar-15	43	0	[Gantt Bar]																								
TTM00610	Earliest Implementation of TTM after TMLG Meeting No. 17	0	23-Jan-15	0%	0		22-Sep-15		172	20	[Gantt Bar]																								
TTM00620	Send TTMs to SO & Govt Depts for TMLG Meeting No. 18	0		0%	0	22-Jan-15		24-Mar-15	43	0	[Gantt Bar]																								
TTM00630	TMLG Meeting No. 18	0		0%	0	05-Feb-15*		07-Apr-15	43	0	[Gantt Bar]																								
TTM00640	Earliest Implementation of TTM after TMLG Meeting No. 18	0	20-Feb-15	0%	0		22-Sep-15		152	20	[Gantt Bar]																								
TTM00650	Send TTMs to SO & Govt Depts for TMLG Meeting No. 19	0		0%	0	19-Feb-15		21-Apr-15	43	0	[Gantt Bar]																								
TTM00660	TMLG Meeting No. 19	0		0%	0	05-Mar-15*		05-May-15	43	0	[Gantt Bar]																								
TTM00670	Earliest Implementation of TTM after TMLG Meeting No. 19	0	20-Mar-15	0%	0		22-Sep-15		132	20	[Gantt Bar]																								
TTM00680	Send TTMs to SO & Govt Depts for TMLG Meeting No. 20	0		0%	0	19-Mar-15		19-May-15	43	0	[Gantt Bar]																								
Tree Felling / Transplant																																			
Approved Trees in Contract																																			
TR00140	SO Approval of Base Tree Survey Report	30	14-Oct-13 A	90%	3	24-Dec-14	27-Aug-18	29-Aug-18	960	960	[Gantt Bar]																								

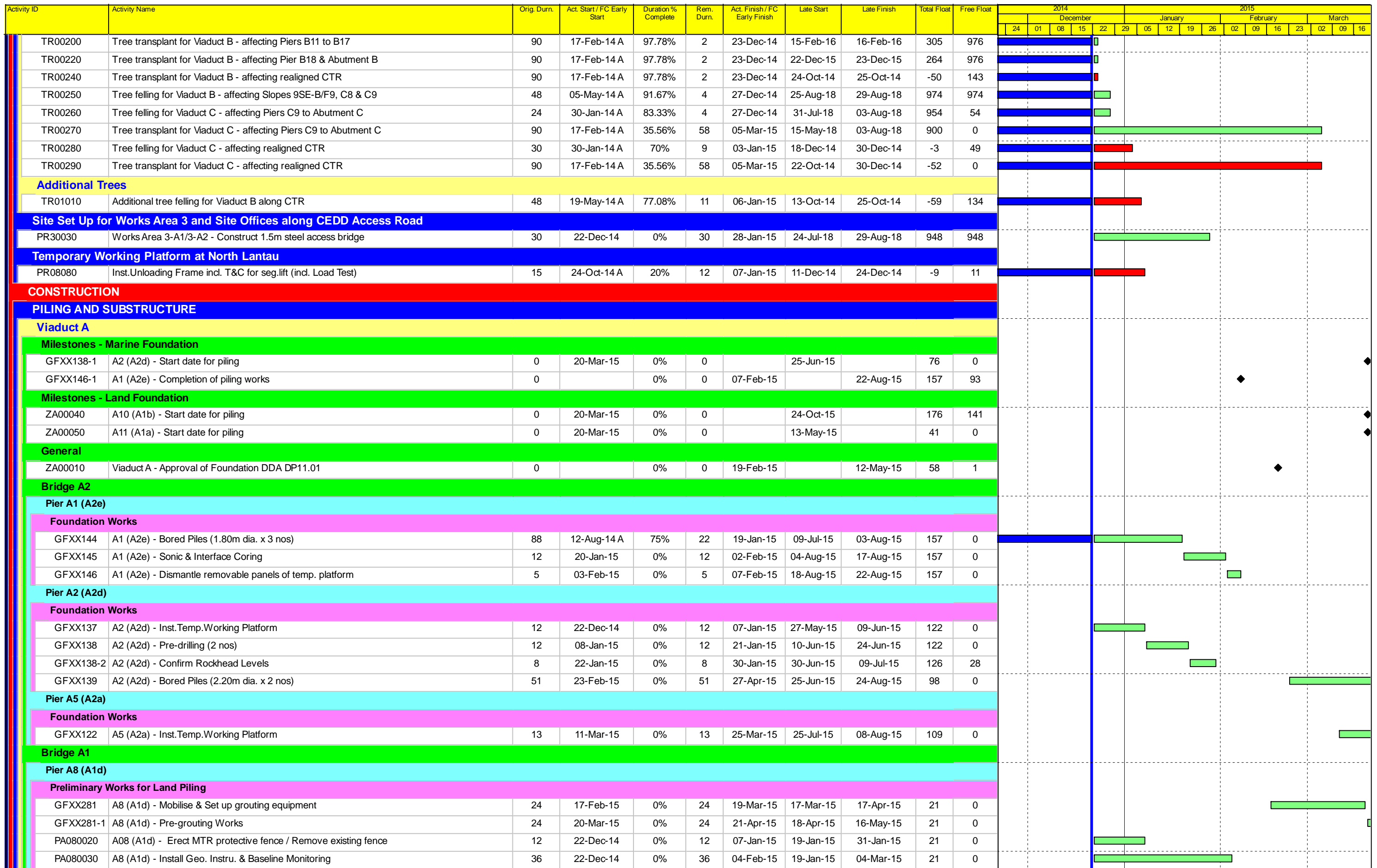
■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

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											December				January			February			March																												
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16																						
PA080040	A08 (A1d) - Set up piling platform	10	05-Feb-15	0%	10	16-Feb-15	05-Mar-15	16-Mar-15	21	0																																							
Pier A9 (A1c)																																																	
Preliminary Works for Land Piling																																																	
PA090010	A9 (A1c) - Implement TTMS along north side of NLH E/B	2	22-Dec-14	0%	2	23-Dec-14	14-Mar-15	16-Mar-15	65	0																																							
PA090020	A9 (A1c) - Erect boundary fence, site clearance & set up site ingress	4	24-Dec-14	0%	4	30-Dec-14	17-Mar-15	20-Mar-15	65	6																																							
PA090030	A9 (A1c) - Erect MTR protective fence	12	08-Jan-15	0%	12	21-Jan-15	21-Mar-15	10-Apr-15	59	0																																							
PA090040	A9 (A1c) - Install Geo. Instru. & Baseline Monitoring	36	08-Jan-15	0%	36	18-Feb-15	21-Mar-15	07-May-15	59	0																																							
PA090050	A9 (A1c) - Set up piling platform	24	23-Feb-15	0%	24	21-Mar-15	08-May-15	17-Jun-15	52	0																																							
Socketted H-Pile installation																																																	
GFXX292	A9 (A1c) - Predrilling	16	15-Dec-14 A	43.75%	9	03-Jan-15	02-Sep-15	11-Sep-15	204	0																																							
GFXX292-1	A9 (A1c) - Confirm Rockhead Levels	8	05-Jan-15	0%	8	13-Jan-15	12-Sep-15	21-Sep-15	204	181																																							
Pier A10 (A1b)																																																	
Preliminary Works for Land Piling																																																	
PA100010	A10 (A1b) - Implement TTMS along north side of NLH E/B	2	22-Dec-14	0%	2	23-Dec-14	01-Apr-15	08-Apr-15	80	0																																							
PA100020	A10 (A1b) - Install Water filled barriers & set up site ingress	4	13-Jan-15	0%	4	16-Jan-15	29-Apr-15	06-May-15	80	0																																							
PA100030	A10 (A1b) - Erect MTR protective fence	12	22-Jan-15	0%	12	04-Feb-15	20-May-15	10-Jun-15	85	0																																							
PA100040	A10 (A1b) - Install Geo. Instru. & Baseline Monitoring	36	17-Jan-15	0%	36	03-Mar-15	07-May-15	18-Jun-15	86	16																																							
Socketted H-Pile installation																																																	
GFXX286-1	A10 (A1b) - Predrilling	15	05-Dec-14 A	100%	0	11-Dec-14 A																																											
GFXX286-3	A10 (A1b) - Confirm Rockhead Levels	8	22-Dec-14	0%	8	02-Jan-15	14-Oct-15	23-Oct-15	238	1																																							
GFXX288	A10 (A1b) - Install SH Pile (8 no.)	149	05-Jan-15	0%	149	09-Jul-15	24-Oct-15	26-Apr-16	237	0																																							
Pier A11 (A1a) & Abutment A																																																	
Preliminary Works for Land Piling																																																	
PA110010	A11 (A1a) to Abutment A - Implement TTMS along north side of NLH E/B	2	22-Dec-14	0%	2	23-Dec-14	01-Apr-15	08-Apr-15	80	0																																							
PA110020	A11 (A1a) to Approach Ramp A - Erect boundary fence / water filled barrier & set up site ingr	14	24-Dec-14	0%	14	12-Jan-15	10-Apr-15	28-Apr-15	80	0																																							
PA110030	A11 (A1a) - Erect MTR protective fence	12	05-Feb-15	0%	12	18-Feb-15	10-Jun-15	03-Jul-15	85	0																																							
PA110040	A11 (A1a) - Install Geo. Instru. & Baseline Monitoring	36	05-Feb-15	0%	36	21-Mar-15	11-Jun-15	24-Jul-15	99	28																																							
Socketted H-Pile installation																																																	
GFXX286-2	A11 (A1a) - Predrilling	15	01-Dec-14 A	100%	0	04-Dec-14 A																																											
GFXX286-4	A11 (A1a) - Confirm Rockhead Levels	8	22-Dec-14	0%	8	02-Jan-15	04-May-15	12-May-15	103	40																																							
GFXX287	A11 (A1a) - Install SH Pile (6 no.)	149	23-Feb-15	0%	149	24-Aug-15	13-May-15	09-Nov-15	63	0																																							
Viaduct B																																																	
Milestones - Land Foundation																																																	
ZB00141	B10 (B2c) - Completion of piling works	0		100%	0	08-Dec-14 A																																											
Bridge B3																																																	
Pier B1 (B3f)																																																	
Pier Works																																																	
SB3F0310	B1 (B3f) - Type 4B-MJ Pier Head Rebarwork	5	26-Nov-14 A	80%	1	22-Dec-14	29-Aug-18	29-Aug-18	946	946																																							
SB3F0320	B1 (B3f) - Type 4B-MJ Pier Head Formwork & Prep for Concreting	7	14-Nov-14 A	100%	0	25-Nov-14 A																																											
SB3F0330	B1 (B3f) - Type 4B-MJ Pier Head Concreting	1	22-Dec-14	0%	1	22-Dec-14	22-Oct-14	22-Oct-14	-52	0																																							
SB3F0340	B1 (B3f) - Type 4B-MJ Pier Head Curing/Striking of Forms/Remove Scaffolding	6	23-Dec-14	0%	6	31-Dec-14	23-Oct-14	29-Oct-14	-52	0																																							
Pier Head Segments																																																	
SB3F0370	B1 (B3f) - Pier Head Segment - Temporary Platform	6	02-Jan-15	0%	6	08-Jan-15	30-Oct-14	05-Nov-14	-52	0																																							
SB3F0371	B1 (B3f) - Pier Head Segment Bearings	4	09-Jan-15	0%	4	13-Jan-15	06-Nov-14	10-Nov-14	-52	0																																							
SB3F0372	B1 (B3f) - Pier Head Segment Lift & Temp Support (2 seg)	4	14-Jan-15	0%	4	17-Jan-15	11-Nov-14	14-Nov-14	-52	0																																							
Pier B2 (B3e)																																																	
Pier Works																																																	

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DWG. No.:
J3518/GCL/PGM/3MRP-M19

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	2014						2015								
											December						January			February			March		
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02
SB3E0310	B2 (B3e) - Type 4B Pier Head Rebarwork	5	15-Nov-14 A	100%	0	06-Dec-14 A																			
SB3E0330	B2 (B3e) - Type 4B Pier Head Concreting	1	09-Dec-14 A	100%	0	09-Dec-14 A																			
SB3E0340	B2 (B3e) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	10-Dec-14 A	0%	6	30-Dec-14	11-Oct-14	18-Oct-14	-60	0															
Pier Head Segments																									
SB3E0370	B2 (B3e) - Pier Head Segment - Temporary Platform	6	31-Dec-14	0%	6	07-Jan-15	20-Oct-14	25-Oct-14	-60	0															
SB3E0372	B2 (B3e) - Pier Head Segment Lift & Fix (1 seg)	2	08-Jan-15	0%	2	09-Jan-15	27-Oct-14	28-Oct-14	-60	0															
SB3E0374	B2 (B3e) - Pier Head Segment Diaphragm - Rebar	12	10-Jan-15	0%	12	23-Jan-15	29-Oct-14	11-Nov-14	-60	0															
SB3E0376	B2 (B3e) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	24-Jan-15	0%	8	02-Feb-15	12-Nov-14	21-Nov-14	-59	0															
SB3E0378	B2 (B3e) - Pier Head Segment Diaphragm - Concreting	2	03-Feb-15	0%	2	04-Feb-15	22-Nov-14	24-Nov-14	-59	0															
SB3E0380	B2 (B3e) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	05-Feb-15	0%	6	11-Feb-15	25-Nov-14	01-Dec-14	-59	0															
Pier B3 (B3d)																									
Pile Cap Works																									
SB3D0100	B3 (B3d) - Marine Pile Cap M1 - Weld Fin plates/Plug Rebar & Concrete	9	13-Nov-14 A	100%	0	22-Nov-14 A																			
SB3D0120	B3 (B3d) - Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame	2	24-Nov-14 A	100%	0	26-Nov-14 A																			
SB3D0130	B3 (B3d) - Marine Pile Cap M1 - Pile cut down	8	27-Nov-14 A	100%	0	12-Dec-14 A																			
SB3D0140	B3 (B3d) - Marine Pile Cap M1 - Rebar fixing, inst.inserts etc	12	15-Dec-14 A	91.67%	1	22-Dec-14	23-Oct-14	23-Oct-14	-51	0															
SB3D0150	B3 (B3d) - Marine Pile Cap M1 - Concreting	1	23-Dec-14	0%	1	23-Dec-14	24-Oct-14	24-Oct-14	-51	0															
SB3D0160	B3 (B3d) - Marine Pile Cap M1 - Curing incl. CJ Preparation	6	24-Dec-14	0%	6	02-Jan-15	25-Oct-14	31-Oct-14	-51	0															
Pier Works																									
SB3D0170	B3 (B3d) - Type 4B Pier Temp. Support Platform	6	24-Dec-14	0%	6	02-Jan-15	25-Oct-14	31-Oct-14	-51	0															
SB3D0172	B3 (B3d) - Type 4B Pier Scaffolding (1st Lift)	4	03-Jan-15	0%	4	07-Jan-15	01-Nov-14	05-Nov-14	-51	0															
SB3D0180	B3 (B3d) - Type 4B Pier Rebarwork (1st Lift)	4	08-Jan-15	0%	4	12-Jan-15	06-Nov-14	10-Nov-14	-51	0															
SB3D0190	B3 (B3d) - Type 4B Pier Formwork & Prep for Concreting (1st Lift)	4	13-Jan-15	0%	4	16-Jan-15	11-Nov-14	14-Nov-14	-51	0															
SB3D0200	B3 (B3d) - Type 4B Pier Concreting (1st Lift)	1	17-Jan-15	0%	1	17-Jan-15	15-Nov-14	15-Nov-14	-51	0															
SB3D0202	B3 (B3d) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	19-Jan-15	0%	2	20-Jan-15	17-Nov-14	18-Nov-14	-51	0															
SB3D0300	B3 (B3d) - Type 4B Pier Head Scaffolding	4	21-Jan-15	0%	4	24-Jan-15	19-Nov-14	22-Nov-14	-51	0															
SB3D0310	B3 (B3d) - Type 4B Pier Head Rebarwork	5	26-Jan-15	0%	5	30-Jan-15	24-Nov-14	28-Nov-14	-51	0															
SB3D0320	B3 (B3d) - Type 4B Pier Head Formwork & Prep for Concreting	7	31-Jan-15	0%	7	07-Feb-15	29-Nov-14	06-Dec-14	-51	0															
SB3D0330	B3 (B3d) - Type 4B Pier Head Concreting	1	09-Feb-15	0%	1	09-Feb-15	08-Dec-14	08-Dec-14	-51	0															
SB3D0340	B3 (B3d) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	10-Feb-15	0%	6	16-Feb-15	09-Dec-14	15-Dec-14	-51	0															
Pier Head Segments																									
SB3D0370	B3 (B3d) - Pier Head Segment - Temporary Platform	6	17-Feb-15	0%	6	26-Feb-15	16-Dec-14	22-Dec-14	-51	0															
SB3D0372	B3 (B3d) - Pier Head Segment Lift & Fix (1 seg)	2	27-Feb-15	0%	2	28-Feb-15	23-Dec-14	24-Dec-14	-51	0															
SB3D0374	B3 (B3d) - Pier Head Segment Diaphragm - Rebar	12	02-Mar-15	0%	12	14-Mar-15	27-Dec-14	12-Jan-15	-50	0															
SB3D0376	B3 (B3d) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	16-Mar-15	0%	8	24-Mar-15	13-Jan-15	21-Jan-15	-50	0															
Pier B4 (B3c)																									
Pile Cap Works																									
SB3C0160	B4 (B3c) - Marine Pile Cap M1 - Curing incl. CJ Preparation	6	20-Nov-14 A	100%	0	26-Nov-14 A																			
Pier Works																									
SB3C0170	B4 (B3c) - Type 4B Pier Temp. Support Platform	6	24-Nov-14 A	100%	0	01-Dec-14 A																			
SB3C0172	B4 (B3c) - Type 4B Pier Scaffolding (1st Lift)	4	01-Dec-14 A	100%	0	01-Dec-14 A																			
SB3C0180	B4 (B3c) - Type 4B Pier Rebarwork (1st Lift)	4	01-Dec-14 A	100%	0	04-Dec-14 A																			
SB3C0190	B4 (B3c) - Type 4B Pier Formwork & Prep for Concreting (1st Lift)	4	03-Dec-14 A	100%	0	05-Dec-14 A																			
SB3C0200	B4 (B3c) - Type 4B Pier Concreting (1st Lift)	1	06-Dec-14 A	100%	0	06-Dec-14 A																			
SB3C0202	B4 (B3c) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	07-Dec-14 A	100%	0	19-Dec-14 A																			
SB3C0300	B4 (B3c) - Type 4B Pier Head Scaffolding	4	22-Dec-14	0%	4	27-Dec-14	19-Nov-14	22-Nov-14	-28	0															
SB3C0310	B4 (B3c) - Type 4B Pier Head Rebarwork	5	29-Dec-14	0%	5	03-Jan-15	24-Nov-14	28-Nov-14	-28	0															

Legend:
 Actual Work
 Planned Bar
 Critical Bar
 Milestone

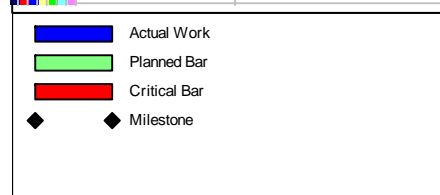
Project ID: J3518DWPd1-M19
 Layout: J3518-DWP-3MRP Submission - M19
 Filter: TASK filters: 3-Month Lookahead, No CC
 Milestones, no Level of Effort, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 13 of 36 Pages)
(Progress as of 21-Dec-14)

Date	Revision	Checked	Approved
21-Sep-14			
21-Oct-14			
21-Nov-14		DB	
21-Dec-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M19

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	2014					2015																					
											December					January					February					March											
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
SB3C0320	B4 (B3c) - Type 4B Pier Head Formwork & Prep for Concreting	7	05-Jan-15	0%	7	12-Jan-15	29-Nov-14	06-Dec-14	-28	0																											
SB3C0330	B4 (B3c) - Type 4B Pier Head Concreting	1	13-Jan-15	0%	1	13-Jan-15	08-Dec-14	08-Dec-14	-28	0																											
SB3C0340	B4 (B3c) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	14-Jan-15	0%	6	20-Jan-15	09-Dec-14	15-Dec-14	-28	0																											
Pier Head Segments																																					
SB3C0370	B4 (B3c) - Pier Head Segment - Temporary Platform	6	21-Jan-15	0%	6	27-Jan-15	16-Dec-14	23-Dec-14	-27	0																											
SB3C0372	B4 (B3c) - Pier Head Segment Lift & Fix (1 seg)	2	28-Jan-15	0%	2	29-Jan-15	24-Dec-14	27-Dec-14	-27	0																											
SB3C0374	B4 (B3c) - Pier Head Segment Diaphragm - Rebar	12	30-Jan-15	0%	12	12-Feb-15	29-Dec-14	12-Jan-15	-27	0																											
SB3C0376	B4 (B3c) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	13-Feb-15	0%	8	25-Feb-15	13-Jan-15	21-Jan-15	-27	0																											
SB3C0378	B4 (B3c) - Pier Head Segment Diaphragm - Concreting	2	26-Feb-15	0%	2	27-Feb-15	22-Jan-15	23-Jan-15	-27	0																											
SB3C0380	B4 (B3c) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	28-Feb-15	0%	6	06-Mar-15	24-Jan-15	30-Jan-15	-27	0																											
Pier B5 (B3b)																																					
Pile Cap Works																																					
SB3B0140	B5 (B3b) - Marine Pile Cap M1 - Rebar fixing, inst.inserts etc	12	17-Nov-14 A	100%	0	26-Nov-14 A																															
SB3B0150	B5 (B3b) - Marine Pile Cap M1 - Concreting	1	27-Nov-14 A	100%	0	27-Nov-14 A																															
SB3B0160	B5 (B3b) - Marine Pile Cap M1 - Curing incl. CJ Preparation	6	28-Nov-14 A	100%	0	05-Dec-14 A																															
Pier Works																																					
SB3B0170	B5 (B3b) - Type 4B Pier Temp. Support Platform	7	08-Dec-14 A	100%	0	13-Dec-14 A																															
SB3B0172	B5 (B3b) - Type 4B Pier Scaffolding (1st Lift)	4	15-Dec-14 A	100%	0	17-Dec-14 A																															
SB3B0180	B5 (B3b) - Type 4B Pier Rebarwork (1st Lift)	4	18-Dec-14 A	0%	4	27-Dec-14	06-Nov-14	10-Nov-14	-39	0																											
SB3B0190	B5 (B3b) - Type 4B Pier Formwork & Prep for Concreting (1st Lift)	4	29-Dec-14	0%	4	02-Jan-15	11-Nov-14	14-Nov-14	-39	0																											
SB3B0200	B5 (B3b) - Type 4B Pier Concreting (1st Lift)	1	03-Jan-15	0%	1	03-Jan-15	15-Nov-14	15-Nov-14	-39	0																											
SB3B0202	B5 (B3b) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	05-Jan-15	0%	2	06-Jan-15	17-Nov-14	18-Nov-14	-39	0																											
SB3B0300	B5 (B3b) - Type 4B Pier Head Scaffolding	4	07-Jan-15	0%	4	10-Jan-15	19-Nov-14	22-Nov-14	-39	0																											
SB3B0310	B5 (B3b) - Type 4B Pier Head Rebarwork	5	12-Jan-15	0%	5	16-Jan-15	24-Nov-14	28-Nov-14	-39	0																											
SB3B0320	B5 (B3b) - Type 4B Pier Head Formwork & Prep for Concreting	7	17-Jan-15	0%	7	24-Jan-15	29-Nov-14	08-Dec-14	-38	0																											
SB3B0330	B5 (B3b) - Type 4B Pier Head Concreting	1	26-Jan-15	0%	1	26-Jan-15	09-Dec-14	09-Dec-14	-38	0																											
SB3B0340	B5 (B3b) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	27-Jan-15	0%	6	02-Feb-15	10-Dec-14	16-Dec-14	-38	0																											
Pier Head Segments																																					
SB3B0370	B5 (B3b) - Pier Head Segment - Temporary Platform	6	03-Feb-15	0%	6	09-Feb-15	17-Dec-14	23-Dec-14	-38	0																											
SB3B0372	B5 (B3b) - Pier Head Segment Lift & Fix (1 seg)	2	10-Feb-15	0%	2	11-Feb-15	24-Dec-14	27-Dec-14	-38	0																											
SB3B0374	B5 (B3b) - Pier Head Segment Diaphragm - Rebar	12	12-Feb-15	0%	12	28-Feb-15	29-Dec-14	12-Jan-15	-38	0																											
SB3B0376	B5 (B3b) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	02-Mar-15	0%	8	10-Mar-15	13-Jan-15	21-Jan-15	-38	0																											
SB3B0378	B5 (B3b) - Pier Head Segment Diaphragm - Concreting	2	11-Mar-15	0%	2	12-Mar-15	22-Jan-15	23-Jan-15	-38	0																											
SB3B0380	B5 (B3b) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	13-Mar-15	0%	6	19-Mar-15	24-Jan-15	30-Jan-15	-38	0																											
Pier B6 (B3a)																																					
Pile Cap Works																																					
SB3A0130	B6 (B3a) - Marine Pile Cap M2 - Rebar fixing, inst.inserts etc	12	19-Nov-14 A	100%	0	01-Dec-14 A																															
SB3A0140	B6 (B3a) - Marine Pile Cap M2 - Concreting	1	04-Dec-14 A	100%	0	04-Dec-14 A																															
SB3A0164	B6 (B3a) - Marine Pile Cap M2 - Curing incl. CJ preparation	6	05-Dec-14 A	100%	0	12-Dec-14 A																															
Pier Works																																					
SB3A0170	B6 (B3a) - Type 4B-MJ Pier Temp. Support Platform	6	12-Dec-14 A	100%	0	17-Dec-14 A																															
SB3A0172	B6 (B3a) - Type 4B-MJ Pier Scaffolding (1st Lift)	4	18-Dec-14 A	0%	4	27-Dec-14	14-Nov-14	18-Nov-14	-32	47																											
SB3A0180	B6 (B3a) - Type 4B-MJ Pier Rebarwork (1st Lift)	4	26-Feb-15	0%	4	02-Mar-15	19-Nov-14	22-Nov-14	-79	1																											
SB3A0190	B6 (B3a) - Type 4B-MJ Pier Formwork & Prep for Concreting (1st Lift)	4	04-Mar-15	0%	4	07-Mar-15	24-Nov-14	28-Nov-14	-79	0																											
SB3A0200	B6 (B3a) - Type 4B-MJ Pier Concreting (1st Lift)	1	09-Mar-15	0%	1	09-Mar-15	29-Nov-14	29-Nov-14	-79	0																											
SB3A0202	B6 (B3a) - Type 4B-MJ Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	10-Mar-15	0%	2	11-Mar-15	01-Dec-14	02-Dec-14	-79	0																											
SB3A0210	B6 (B3a) - Type 4B-MJ Pier Scaffolding (2nd Lift)	4	12-Mar-15	0%	4	16-Mar-15	03-Dec-14	06-Dec-14	-79	0																											

	Project ID: J3518DWPd1-M19 Layout: J3518-DWP-3MRP Submission - M19 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, no Level of Effort, No Level of Effort.	<p align="center">Tuen Mun - Chek Lap Kok Link - Southern Connection</p> <p align="center">3-Month Rolling Programme (Page 14 of 36 Pages)</p> <p align="center">(Progress as of 21-Dec-14)</p>	<table border="1"> <tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr> <tr><td>21-Sep-14</td><td></td><td></td><td></td></tr> <tr><td>21-Oct-14</td><td></td><td></td><td></td></tr> <tr><td>21-Nov-14</td><td></td><td>DB</td><td></td></tr> <tr><td>21-Dec-14</td><td></td><td></td><td></td></tr> </table>	Date	Revision	Checked	Approved	21-Sep-14				21-Oct-14				21-Nov-14		DB		21-Dec-14				DWG. No.: <p align="center">J3518/GCL/PGM/3MRP-M19</p>
Date	Revision	Checked	Approved																					
21-Sep-14																								
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21-Nov-14		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	2014					2015															
											December					January			February		March										
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16				
SB3A0220	B6 (B3a) - Type 4B-MJ Pier Rebarwork (2nd Lift)	4	17-Mar-15	0%	4	20-Mar-15	08-Dec-14	11-Dec-14	-79	0																					
Bridge B2																															
Pier B7 (B2f)																															
Pile Cap Works																															
SB2F0130	B7 (B2f) - Marine Pile Cap M1 - Pile cut down	6	01-Nov-14 A	100%	0	27-Nov-14 A																									
SB2F0140	B7 (B2f) - Marine Pile Cap M1 - Rebar fixing, inst.inserts etc	10	01-Dec-14 A	100%	0	09-Dec-14 A																									
SB2F0150	B7 (B2f) - Marine Pile Cap M1 - Concreting	1	10-Dec-14 A	100%	0	10-Dec-14 A																									
SB2F0160	B7 (B2f) - Marine Pile Cap M1 - Curing incl. CJ Preparation	6	11-Dec-14 A	83.33%	1	22-Dec-14	25-Oct-14	25-Oct-14	-49	5																					
Pier Works																															
SB2F0170	B7 (B2f) - Type 4B Pier Temp. Support Platform	6	22-Dec-14	0%	6	30-Dec-14	25-Oct-14	31-Oct-14	-49	0																					
SB2F0172	B7 (B2f) - Type 4B Pier Scaffolding (1st Lift)	4	31-Dec-14	0%	4	05-Jan-15	01-Nov-14	05-Nov-14	-49	0																					
SB2F0180	B7 (B2f) - Type 4B Pier Rebarwork (1st Lift)	4	06-Jan-15	0%	4	09-Jan-15	06-Nov-14	10-Nov-14	-49	0																					
SB2F0190	B7 (B2f) - Type 4B Pier Formwork & Prep for Concreting (1st Lift)	4	10-Jan-15	0%	4	14-Jan-15	11-Nov-14	14-Nov-14	-49	0																					
SB2F0200	B7 (B2f) - Type 4B Pier Concreting (1st Lift)	1	15-Jan-15	0%	1	15-Jan-15	15-Nov-14	15-Nov-14	-49	0																					
SB2F0202	B7 (B2f) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	16-Jan-15	0%	2	17-Jan-15	17-Nov-14	18-Nov-14	-49	0																					
SB2F0210	B7 (B2f) - Type 4B Pier Scaffolding (2nd Lift)	4	19-Jan-15	0%	4	22-Jan-15	19-Nov-14	22-Nov-14	-49	0																					
SB2F0220	B7 (B2f) - Type 4B Pier Rebarwork (2nd Lift)	4	23-Jan-15	0%	4	27-Jan-15	24-Nov-14	27-Nov-14	-49	0																					
SB2F0230	B7 (B2f) - Type 4B Pier Formwork & Prep for Concreting (2nd Lift)	4	28-Jan-15	0%	4	31-Jan-15	28-Nov-14	02-Dec-14	-49	0																					
SB2F0240	B7 (B2f) - Type 4B Pier Concreting (2nd Lift)	1	02-Feb-15	0%	1	02-Feb-15	03-Dec-14	03-Dec-14	-49	0																					
SB2F0242	B7 (B2f) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	03-Feb-15	0%	2	04-Feb-15	04-Dec-14	05-Dec-14	-49	0																					
SB2F0300	B7 (B2f) - Type 4B Pier Head Scaffolding	4	05-Feb-15	0%	4	09-Feb-15	06-Dec-14	10-Dec-14	-49	0																					
SB2F0310	B7 (B2f) - Type 4B Pier Head Rebarwork	5	10-Feb-15	0%	5	14-Feb-15	11-Dec-14	16-Dec-14	-49	0																					
SB2F0320	B7 (B2f) - Type 4B Pier Head Formwork & Prep for Concreting	7	16-Feb-15	0%	7	26-Feb-15	17-Dec-14	24-Dec-14	-49	0																					
SB2F0330	B7 (B2f) - Type 4B Pier Head Concreting	1	27-Feb-15	0%	1	27-Feb-15	27-Dec-14	27-Dec-14	-49	0																					
SB2F0340	B7 (B2f) - Type 4B Pier Head Curing/Striking of Forms/Remove Scaffolding	6	28-Feb-15	0%	6	06-Mar-15	29-Dec-14	05-Jan-15	-49	0																					
Pier Head Segments																															
SB2F0370	B7 (B2f) - Pier Head Segment - Temporary Platform	6	07-Mar-15	0%	6	13-Mar-15	06-Jan-15	12-Jan-15	-49	0																					
SB2F0372	B7 (B2f) - Pier Head Segment Lift & Fix (1 seg)	2	14-Mar-15	0%	2	16-Mar-15	13-Jan-15	14-Jan-15	-49	0																					
SB2F0374	B7 (B2f) - Pier Head Segment Diaphragm - Rebar	12	17-Mar-15	0%	12	30-Mar-15	15-Jan-15	28-Jan-15	-49	0																					
Pier B8 (B2e)																															
Pile Cap Works																															
SB2E0092	B8 (B2e) - Pile Breakdown to cut-off etc.	4	20-Nov-14 A	100%	0	03-Dec-14 A																									
SB2E0110	B8 (B2e) - Pile cap Formwork	3	22-Nov-14 A	100%	0	25-Nov-14 A																									
SB2E0120	B8 (B2e) - Pile cap Rebarwork	4	05-Dec-14 A	100%	0	11-Dec-14 A																									
SB2E0122	B8 (B2e) - Pile cap Kicker Formwork	2	22-Dec-14	0%	2	23-Dec-14	28-Aug-18	29-Aug-18	976	976																					
SB2E0130	B8 (B2e) - Pile cap Concreting	1	12-Dec-14 A	100%	0	12-Dec-14 A																									
SB2E0140	B8 (B2e) - Pile cap Curing & Striking of Forms incl. CJ prep	6	13-Dec-14 A	0%	6	30-Dec-14	29-Dec-14	05-Jan-15	4	53																					
Pier Works																															
SB2E0150	B8 (B2e) - Type 5B Pier Scaffolding (1st Lift)	4	16-Dec-14 A	100%	0	20-Dec-14 A																									
SB2E0160	B8 (B2e) - Type 5B Pier Rebarwork (1st Lift)	4	22-Dec-14	0%	4	27-Dec-14	21-Nov-14	25-Nov-14	-26	0																					
SB2E0170	B8 (B2e) - Type 5B Pier Formwork & Prep for Concreting (1st Lift)	4	29-Dec-14	0%	4	02-Jan-15	26-Nov-14	01-Dec-14	-25	0																					
SB2E0180	B8 (B2e) - Type 5B Pier Concreting (1st Lift)	1	03-Jan-15	0%	1	03-Jan-15	02-Dec-14	02-Dec-14	-25	0																					
SB2E0182	B8 (B2e) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	05-Jan-15	0%	2	06-Jan-15	03-Dec-14	04-Dec-14	-25	0																					
SB2E0190	B8 (B2e) - Type 5B Pier Scaffolding (2nd Lift)	4	07-Jan-15	0%	4	10-Jan-15	05-Dec-14	09-Dec-14	-25	0																					
SB2E0200	B8 (B2e) - Type 5B Pier Rebarwork (2nd Lift)	4	12-Jan-15	0%	4	15-Jan-15	10-Dec-14	13-Dec-14	-25	0																					
SB2E0210	B8 (B2e) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift)	4	16-Jan-15	0%	4	20-Jan-15	15-Dec-14	18-Dec-14	-25	0																					
SB2E0220	B8 (B2e) - Type 5B Pier Concreting (2nd Lift)	1	21-Jan-15	0%	1	21-Jan-15	19-Dec-14	19-Dec-14	-25	0																					

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWP-rD1-M19
Layout: J3518-DWP-3MRP Submission - M19
Filter: TASK filters: 3-Month Lookahead, No CC Milestones, no Level of Effort, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 15 of 36 Pages)
(Progress as of 21-Dec-14)

Date	Revision	Checked	Approved
21-Sep-14			
21-Oct-14			
21-Nov-14		DB	
21-Dec-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M19

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	2014					2015																							
											December					January					February					March													
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16												
SB2E0222	B8 (B2e) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	22-Jan-15	0%	2	23-Jan-15	20-Dec-14	22-Dec-14	-25	0																													
SB2E0230	B8 (B2e) - Type 5B Pier Head Scaffolding	4	24-Jan-15	0%	4	28-Jan-15	23-Dec-14	29-Dec-14	-25	0																													
SB2E0240	B8 (B2e) - Type 5B Pier Head Rebarwork	4	29-Jan-15	0%	4	02-Feb-15	30-Dec-14	03-Jan-15	-25	0																													
SB2E0250	B8 (B2e) - Type 5B Pier Head Formwork & Prep for Concreting	4	03-Feb-15	0%	4	06-Feb-15	05-Jan-15	08-Jan-15	-25	0																													
SB2E0260	B8 (B2e) - Type 5B Pier Head Concreting	1	07-Feb-15	0%	1	07-Feb-15	09-Jan-15	09-Jan-15	-25	0																													
SB2E0270	B8 (B2e) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	09-Feb-15	0%	6	14-Feb-15	10-Jan-15	16-Jan-15	-25	0																													
SB2E0280	B8 (B2e) - Type 5B Pier Backfilling Works	4	12-Feb-15	0%	4	16-Feb-15	14-Jan-15	17-Jan-15	-25	0																													
Pier Head Segments																																							
SB2E0370	B8 (B2e) - Pier Head Segment - Temporary Platform	6	17-Feb-15	0%	6	26-Feb-15	19-Jan-15	24-Jan-15	-25	0																													
SB2E0372	B8 (B2e) - Pier Head Segment Lift & Fix (1 seg)	2	27-Feb-15	0%	2	28-Feb-15	26-Jan-15	27-Jan-15	-25	0																													
SB2E0374	B8 (B2e) - Pier Head Segment Diaphragm - Rebar	12	02-Mar-15	0%	12	14-Mar-15	28-Jan-15	10-Feb-15	-25	0																													
SB2E0376	B8 (B2e) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	16-Mar-15	0%	8	24-Mar-15	11-Feb-15	23-Feb-15	-25	0																													
Pier B9 (B2d)																																							
Pile Cap Works																																							
SB2D0110	B9 (B2d) - Pile cap Formwork	3	06-Dec-14 A	100%	0	09-Dec-14 A																																	
SB2D0120	B9 (B2d) - Pile cap Rebarwork	4	10-Dec-14 A	100%	0	18-Dec-14 A																																	
SB2D0122	B9 (B2d) - Pile cap Kicker Formwork	2	22-Dec-14	0%	2	23-Dec-14	28-Aug-18	29-Aug-18	976	976																													
SB2D0130	B9 (B2d) - Pile cap Concreting	1	19-Dec-14 A	100%	0	19-Dec-14 A																																	
SB2D0140	B9 (B2d) - Pile cap Curing & Striking of Forms incl. CJ prep	6	20-Dec-14 A	0%	6	30-Dec-14	02-Dec-14	08-Dec-14	-17	0																													
Pier Works																																							
SB2D0150	B9 (B2d) - Type 5B Pier Scaffolding (1st Lift)	4	31-Dec-14	0%	4	05-Jan-15	09-Dec-14	13-Dec-14	-16	0																													
SB2D0160	B9 (B2d) - Type 5B Pier Rebarwork (1st Lift)	4	06-Jan-15	0%	4	09-Jan-15	15-Dec-14	18-Dec-14	-16	0																													
SB2D0170	B9 (B2d) - Type 5B Pier Formwork & Prep for Concreting (1st Lift)	4	10-Jan-15	0%	4	14-Jan-15	19-Dec-14	23-Dec-14	-16	0																													
SB2D0180	B9 (B2d) - Type 5B Pier Concreting (1st Lift)	1	15-Jan-15	0%	1	15-Jan-15	24-Dec-14	24-Dec-14	-16	0																													
SB2D0182	B9 (B2d) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	16-Jan-15	0%	2	17-Jan-15	27-Dec-14	29-Dec-14	-16	0																													
SB2D0190	B9 (B2d) - Type 5B Pier Scaffolding (2nd Lift)	4	19-Jan-15	0%	4	22-Jan-15	30-Dec-14	03-Jan-15	-16	0																													
SB2D0200	B9 (B2d) - Type 5B Pier Rebarwork (2nd Lift)	4	23-Jan-15	0%	4	27-Jan-15	05-Jan-15	08-Jan-15	-16	0																													
SB2D0210	B9 (B2d) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift)	4	28-Jan-15	0%	4	31-Jan-15	09-Jan-15	13-Jan-15	-16	0																													
SB2D0220	B9 (B2d) - Type 5B Pier Concreting (2nd Lift)	1	02-Feb-15	0%	1	02-Feb-15	14-Jan-15	14-Jan-15	-16	0																													
SB2D0222	B9 (B2d) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	03-Feb-15	0%	2	04-Feb-15	15-Jan-15	17-Jan-15	-15	0																													
SB2D0230	B9 (B2d) - Type 5B Pier Head Scaffolding	4	05-Feb-15	0%	4	09-Feb-15	19-Jan-15	22-Jan-15	-15	0																													
SB2D0240	B9 (B2d) - Type 5B Pier Head Rebarwork	4	10-Feb-15	0%	4	13-Feb-15	23-Jan-15	27-Jan-15	-15	0																													
SB2D0250	B9 (B2d) - Type 5B Pier Head Formwork & Prep for Concreting	4	14-Feb-15	0%	4	18-Feb-15	28-Jan-15	31-Jan-15	-15	0																													
SB2D0260	B9 (B2d) - Type 5B Pier Head Concreting	1	23-Feb-15	0%	1	23-Feb-15	02-Feb-15	02-Feb-15	-15	0																													
SB2D0270	B9 (B2d) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	24-Feb-15	0%	6	02-Mar-15	03-Feb-15	09-Feb-15	-15	0																													
SB2D0280	B9 (B2d) - Type 5B Pier Backfilling Works	4	27-Feb-15	0%	4	03-Mar-15	06-Feb-15	10-Feb-15	-15	0																													
Pier Head Segments																																							
SB2D0370	B9 (B2d) - Pier Head Segment - Temporary Platform	6	04-Mar-15	0%	6	10-Mar-15	11-Feb-15	17-Feb-15	-15	0																													
SB2D0372	B9 (B2d) - Pier Head Segment Lift & Fix (1 seg)	2	11-Mar-15	0%	2	12-Mar-15	18-Feb-15	23-Feb-15	-15	0																													
SB2D0374	B9 (B2d) - Pier Head Segment Diaphragm - Rebar	12	13-Mar-15	0%	12	26-Mar-15	24-Feb-15	09-Mar-15	-15	0																													
Pier B10 (B2c)																																							
Socketted H-Pile Installation																																							
GFXX341	B10 (B2c) - Install SH Pile (14 nr)	36	20-Oct-14 A	100%	0	08-Dec-14 A																																	
Pile Cap Works																																							
SB2C0090	B10 (B2c) - Pile cap Excavation / ELS	24	27-Nov-14 A	100%	0	05-Dec-14 A																																	
SB2C0092	B10 (B2c) - Pile Breakdown to cut-off etc.	4	22-Dec-14	0%	4	27-Dec-14	04-Dec-14	08-Dec-14	-15	0																													
SB2C0100	B10 (B2c) - Pile cap Blinding	1	29-Dec-14	0%	1	29-Dec-14	09-Dec-14	09-Dec-14	-15	0																													

<p> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone </p>	<p>Project ID: J3518DWPd1-M19 Layout: J3518-DWP-3MRP Submission - M19 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, no Level of Effort, No Level of Effort.</p>	<p>Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 16 of 36 Pages) (Progress as of 21-Dec-14)</p>	<table border="1"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td>21-Sep-14</td> <td></td> <td></td> <td></td> </tr> <tr> <td>21-Oct-14</td> <td></td> <td></td> <td></td> </tr> <tr> <td>21-Nov-14</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>21-Dec-14</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Revision	Checked	Approved	21-Sep-14				21-Oct-14				21-Nov-14		DB		21-Dec-14				<p>DWG. No.: J3518/GCL/PGM/3MRP-M19</p>
Date	Revision	Checked	Approved																					
21-Sep-14																								
21-Oct-14																								
21-Nov-14		DB																						
21-Dec-14																								

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	2014												2015														
											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
SB2C0110	B10 (B2c) - Pile cap Formwork	3	30-Dec-14	0%	3	02-Jan-15	10-Dec-14	12-Dec-14	-15	0	[Gantt bars for SB2C0110: Dec 30, 2014]												[Gantt bars for SB2C0110: Jan 02, 2015]														
SB2C0120	B10 (B2c) - Pile cap Rebarwork	4	03-Jan-15	0%	4	07-Jan-15	13-Dec-14	17-Dec-14	-15	0	[Gantt bars for SB2C0120: Jan 07, 2015]												[Gantt bars for SB2C0120: Dec 13, 2014]														
SB2C0122	B10 (B2c) - Pile cap Kicker Formwork	2	08-Jan-15	0%	2	09-Jan-15	18-Dec-14	20-Dec-14	-14	0	[Gantt bars for SB2C0122: Jan 09, 2015]												[Gantt bars for SB2C0122: Dec 18, 2014]														
SB2C0130	B10 (B2c) - Pile cap Concreting	1	10-Jan-15	0%	1	10-Jan-15	22-Dec-14	22-Dec-14	-14	0	[Gantt bars for SB2C0130: Jan 10, 2015]												[Gantt bars for SB2C0130: Dec 22, 2014]														
SB2C0140	B10 (B2c) - Pile cap Curing & Striking of Forms incl. CJ prep	6	12-Jan-15	0%	6	17-Jan-15	23-Dec-14	02-Jan-15	-13	0	[Gantt bars for SB2C0140: Jan 17, 2015]												[Gantt bars for SB2C0140: Dec 23, 2014]														
Pier Works																																					
SB2C0150	B10 (B2c) - Type 5B Pier Scaffolding (1st Lift)	4	19-Jan-15	0%	4	22-Jan-15	03-Jan-15	07-Jan-15	-13	0	[Gantt bars for SB2C0150: Jan 19, 2015]												[Gantt bars for SB2C0150: Jan 03, 2015]														
SB2C0160	B10 (B2c) - Type 5B Pier Rebarwork (1st Lift)	4	23-Jan-15	0%	4	27-Jan-15	08-Jan-15	12-Jan-15	-13	0	[Gantt bars for SB2C0160: Jan 23, 2015]												[Gantt bars for SB2C0160: Jan 08, 2015]														
SB2C0170	B10 (B2c) - Type 5B Pier Formwork & Prep for Concreting (1st Lift)	4	28-Jan-15	0%	4	31-Jan-15	13-Jan-15	16-Jan-15	-13	0	[Gantt bars for SB2C0170: Jan 28, 2015]												[Gantt bars for SB2C0170: Jan 13, 2015]														
SB2C0180	B10 (B2c) - Type 5B Pier Concreting (1st Lift)	1	02-Feb-15	0%	1	02-Feb-15	17-Jan-15	17-Jan-15	-13	0	[Gantt bars for SB2C0180: Feb 02, 2015]												[Gantt bars for SB2C0180: Jan 17, 2015]														
SB2C0182	B10 (B2c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	03-Feb-15	0%	2	04-Feb-15	19-Jan-15	20-Jan-15	-13	0	[Gantt bars for SB2C0182: Feb 03, 2015]												[Gantt bars for SB2C0182: Jan 19, 2015]														
SB2C0190	B10 (B2c) - Type 5B Pier Scaffolding (2nd Lift)	4	05-Feb-15	0%	4	09-Feb-15	21-Jan-15	24-Jan-15	-13	0	[Gantt bars for SB2C0190: Feb 05, 2015]												[Gantt bars for SB2C0190: Jan 21, 2015]														
SB2C0200	B10 (B2c) - Type 5B Pier Rebarwork (2nd Lift)	4	10-Feb-15	0%	4	13-Feb-15	26-Jan-15	29-Jan-15	-13	0	[Gantt bars for SB2C0200: Feb 10, 2015]												[Gantt bars for SB2C0200: Jan 26, 2015]														
SB2C0210	B10 (B2c) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift)	4	14-Feb-15	0%	4	18-Feb-15	30-Jan-15	03-Feb-15	-13	0	[Gantt bars for SB2C0210: Feb 14, 2015]												[Gantt bars for SB2C0210: Jan 30, 2015]														
SB2C0220	B10 (B2c) - Type 5B Pier Concreting (2nd Lift)	1	23-Feb-15	0%	1	23-Feb-15	04-Feb-15	04-Feb-15	-13	0	[Gantt bars for SB2C0220: Feb 23, 2015]												[Gantt bars for SB2C0220: Feb 04, 2015]														
SB2C0222	B10 (B2c) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	24-Feb-15	0%	2	25-Feb-15	05-Feb-15	06-Feb-15	-13	0	[Gantt bars for SB2C0222: Feb 24, 2015]												[Gantt bars for SB2C0222: Feb 05, 2015]														
SB2C0230	B10 (B2c) - Type 5B Pier Head Scaffolding	4	26-Feb-15	0%	4	02-Mar-15	07-Feb-15	11-Feb-15	-13	0	[Gantt bars for SB2C0230: Feb 26, 2015]												[Gantt bars for SB2C0230: Feb 07, 2015]														
SB2C0240	B10 (B2c) - Type 5B Pier Head Rebarwork	4	03-Mar-15	0%	4	06-Mar-15	12-Feb-15	16-Feb-15	-13	0	[Gantt bars for SB2C0240: Mar 03, 2015]												[Gantt bars for SB2C0240: Feb 12, 2015]														
SB2C0250	B10 (B2c) - Type 5B Pier Head Formwork & Prep for Concreting	4	07-Mar-15	0%	4	11-Mar-15	17-Feb-15	24-Feb-15	-13	0	[Gantt bars for SB2C0250: Mar 07, 2015]												[Gantt bars for SB2C0250: Feb 17, 2015]														
SB2C0260	B10 (B2c) - Type 5B Pier Head Concreting	1	12-Mar-15	0%	1	12-Mar-15	25-Feb-15	25-Feb-15	-13	0	[Gantt bars for SB2C0260: Mar 12, 2015]												[Gantt bars for SB2C0260: Feb 25, 2015]														
SB2C0270	B10 (B2c) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	13-Mar-15	0%	6	19-Mar-15	26-Feb-15	04-Mar-15	-13	0	[Gantt bars for SB2C0270: Mar 13, 2015]												[Gantt bars for SB2C0270: Feb 26, 2015]														
SB2C0280	B10 (B2c) - Type 5B Pier Backfilling Works	4	17-Mar-15	0%	4	20-Mar-15	02-Mar-15	05-Mar-15	-13	0	[Gantt bars for SB2C0280: Mar 17, 2015]												[Gantt bars for SB2C0280: Mar 02, 2015]														
Pier B11 (B2b)																																					
Pile Cap Works																																					
SB2B0122	B11 (B2b) - Pile cap Kicker Formwork	2	22-Dec-14	0%	2	23-Dec-14	28-Aug-18	29-Aug-18	976	976	[Gantt bars for SB2B0122: Dec 22, 2014]												[Gantt bars for SB2B0122: Dec 23, 2014]														
SB2B0130	B11 (B2b) - Pile cap Concreting	1	21-Nov-14 A	100%	0	21-Nov-14 A					[Gantt bars for SB2B0130: Nov 21, 2014]												[Gantt bars for SB2B0130: Nov 21, 2014]														
SB2B0140	B11 (B2b) - Pile cap Curing & Striking of Forms incl. CJ prep	6	22-Nov-14 A	100%	0	29-Nov-14 A					[Gantt bars for SB2B0140: Nov 22, 2014]												[Gantt bars for SB2B0140: Nov 29, 2014]														
Pier Works																																					
SB2B0150	B11 (B2b) - Type 5B-B Pier Scaffolding (1st Lift)	4	28-Nov-14 A	100%	0	01-Dec-14 A					[Gantt bars for SB2B0150: Nov 28, 2014]												[Gantt bars for SB2B0150: Dec 01, 2014]														
SB2B0160	B11 (B2b) - Type 5B-B Pier Rebarwork (1st Lift)	4	01-Dec-14 A	100%	0	04-Dec-14 A					[Gantt bars for SB2B0160: Dec 01, 2014]												[Gantt bars for SB2B0160: Dec 04, 2014]														
SB2B0170	B11 (B2b) - Type 5B-B Pier Formwork & Prep for Concreting (1st Lift)	4	03-Dec-14 A	100%	0	05-Dec-14 A					[Gantt bars for SB2B0170: Dec 03, 2014]												[Gantt bars for SB2B0170: Dec 05, 2014]														
SB2B0180	B11 (B2b) - Type 5B-B Pier Concreting (1st Lift)	1	06-Dec-14 A	100%	0	06-Dec-14 A					[Gantt bars for SB2B0180: Dec 06, 2014]												[Gantt bars for SB2B0180: Dec 06, 2014]														
SB2B0182	B11 (B2b) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	08-Dec-14 A	0%	2	23-Dec-14	28-Feb-15	02-Mar-15	53	0	[Gantt bars for SB2B0182: Dec 08, 2014]												[Gantt bars for SB2B0182: Dec 23, 2014]														
SB2B0190	B11 (B2b) - Type 5B-B Pier Scaffolding (2nd Lift)	4	24-Dec-14	0%	4	30-Dec-14	03-Mar-15	07-Mar-15	54	0	[Gantt bars for SB2B0190: Dec 24, 2014]												[Gantt bars for SB2B0190: Dec 30, 2014]														
SB2B0200	B11 (B2b) - Type 5B-B Pier Rebarwork (2nd Lift)	4	31-Dec-14	0%	4	05-Jan-15	09-Mar-15	12-Mar-15	54	0	[Gantt bars for SB2B0200: Dec 31, 2014]												[Gantt bars for SB2B0200: Jan 05, 2015]														
SB2B0210	B11 (B2b) - Type 5B-B Pier Formwork & Prep for Concreting (2nd Lift)	4	06-Jan-15	0%	4	09-Jan-15	13-Mar-15	17-Mar-15	54	0	[Gantt bars for SB2B0210: Jan 06, 2015]												[Gantt bars for SB2B0210: Jan 09, 2015]														
SB2B0220	B11 (B2b) - Type 5B-B Pier Concreting (2nd Lift)	1	10-Jan-15	0%	1	10-Jan-15	18-Mar-15	18-Mar-15	54	0	[Gantt bars for SB2B0220: Jan 10, 2015]												[Gantt bars for SB2B0220: Jan 18, 2015]														
SB2B0222	B11 (B2b) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	12-Jan-15	0%	2	13-Jan-15	19-Mar-15	20-Mar-15	54	0	[Gantt bars for SB2B0222: Jan 12, 2015]												[Gantt bars for SB2B0222: Jan 13, 2015]														
SB2B0230	B11 (B2b) - Type 5B-B Pier Head Scaffolding	4	14-Jan-15	0%	4	17-Jan-15	21-Mar-15	25-Mar-15	54	0	[Gantt bars for SB2B0230: Jan 14, 2015]												[Gantt bars for SB2B0230: Jan 17, 2015]														
SB2B0240	B11 (B2b) - Type 5B-B Pier Head Rebarwork	4	19-Jan-15	0%	4	22-Jan-15	26-Mar-15	30-Mar-15	54	0	[Gantt bars for SB2B0240: Jan 19, 2015]												[Gantt bars for SB2B0240: Jan 22, 2015]														
SB2B0250	B11 (B2b) - Type 5B-B Pier Head Formwork & Prep for Concreting	4	23-Jan-15	0%	4	27-Jan-15	31-Mar-15	10-Apr-15	54	0	[Gantt bars for SB2B0250: Jan 23, 2015]												[Gantt bars for SB2B0250: Jan 27, 2015]														
SB2B0260	B11 (B2b) - Type 5B-B Pier Head Concreting	1	28-Jan-15	0%	1	28-Jan-15	11-Apr-15	11-Apr-15	54	0	[Gantt bars for SB2B0260: Jan 28, 2015]												[Gantt bars for SB2B0260: Jan 28, 2015]														
SB2B0270	B11 (B2b) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	29-Jan-15	0%	6	04-Feb-15	13-Apr-15	21-Apr-15	55	0	[Gantt bars for SB2B0270: Jan 29, 2015]												[Gantt bars for SB2B0270: Jan 29, 2015]														
SB2B0280	B11 (B2b) - Type 5B-B Pier Backfilling Works	4	02-Feb-15	0%	4	05-Feb-15	18-Apr-15	22-Apr-15	55	0	[Gantt bars for SB2B0280: Feb 02, 2015]												[Gantt bars for SB2B0280: Feb 05, 2015]														
Pier Head Segments																																					
SB2B0370	B11 (B2b) - Pier Head Segment - Temporary Platform	6	06-Feb-15	0%	6	12-Feb-15	24-Apr-15	02-May-15	55	0	[Gantt bars for SB2B0370: Feb 06, 2015]												[Gantt bars for SB2B0370: Feb 12, 2015]														
SB2B0371	B11 (B2b) - Pier Head Segment Bearings	4	13-Feb-15	0%	4	17-Feb-15	04-May-15	09-May-15	55	0	[Gantt bars for SB2B0371: Feb 13, 2015]												[Gantt bars for SB2B0371: Feb 17, 2015]														

█ Actual Work
█ Planned Bar
█ Critical Bar
◆ Milestone

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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	2014												2015											
											December						January						February						March					
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16							
SB2B0372	B11 (B2b) - Pier Head Segment Lift & Temp. Support (1 seg)	4	18-Feb-15	0%	4	25-Feb-15	11-May-15	15-May-15	55	0																								
Pier B12 (B2a)																																		
Pile Cap Works																																		
SB2A0122	B12 (B2a) - Pile cap Kicker Formwork	2	22-Dec-14	0%	2	23-Dec-14	28-Aug-18	29-Aug-18	976	976																								
Pier Works																																		
SB2A0150	B12 (B2a) - Type 5B-MJ Pier Scaffolding (1st Lift)	4	24-Nov-14 A	100%	0	25-Nov-14 A																												
SB2A0160	B12 (B2a) - Type 5B-MJ Pier Rebarwork (1st Lift)	4	25-Nov-14 A	100%	0	28-Nov-14 A																												
SB2A0170	B12 (B2a) - Type 5B-MJ Pier Formwork & Prep for Concreting (1st Lift)	4	27-Nov-14 A	100%	0	01-Dec-14 A																												
SB2A0180	B12 (B2a) - Type 5B-MJ Pier Concreting (1st Lift)	1	02-Dec-14 A	100%	0	02-Dec-14 A																												
SB2A0182	B12 (B2a) - Type 5B-MJ Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	03-Dec-14 A	100%	0	05-Dec-14 A																												
SB2A0190	B12 (B2a) - Type 5B-MJ Pier Scaffolding (2nd Lift)	5	05-Dec-14 A	100%	0	10-Dec-14 A																												
SB2A0200	B12 (B2a) - Type 5B-MJ Pier Rebarwork (2nd Lift)	4	10-Dec-14 A	0%	4	27-Dec-14	11-Mar-15	14-Mar-15	62	0																								
SB2A0210	B12 (B2a) - Type 5B-MJ Pier Formwork & Prep for Concreting (2nd Lift)	4	29-Dec-14	0%	4	02-Jan-15	16-Mar-15	19-Mar-15	62	0																								
SB2A0220	B12 (B2a) - Type 5B-MJ Pier Concreting (2nd Lift)	1	03-Jan-15	0%	1	03-Jan-15	20-Mar-15	20-Mar-15	62	0																								
SB2A0222	B12 (B2a) - Type 5B-MJ Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	05-Jan-15	0%	2	06-Jan-15	21-Mar-15	23-Mar-15	62	90																								
Bridge B1																																		
Pier B13 (B1g)																																		
Pile Cap Works																																		
SB1G0090	B13 (B1g) - Utility diversion & Cut slope	36	17-Sep-14 A	100%	0	01-Dec-14 A																												
SB1G0091	B13 (B1g) - Pile cap Excavation / ELS (incl. sheet piling)	24	04-Nov-14 A	100%	0	01-Dec-14 A																												
SB1G0092	B13 (B1g) - Pile Breakdown to cut-off etc.	4	02-Dec-14 A	100%	0	09-Dec-14 A																												
SB1G0100	B13 (B1g) - Pile cap Blinding	1	05-Dec-14 A	100%	0	05-Dec-14 A																												
SB1G0110	B13 (B1g) - Pile cap Formwork	3	15-Dec-14 A	0%	3	24-Dec-14	27-Aug-18	29-Aug-18	975	975																								
SB1G0120	B13 (B1g) - Pile cap Rebarwork	4	10-Dec-14 A	0%	4	27-Dec-14	06-Feb-15	10-Feb-15	37	0																								
SB1G0122	B13 (B1g) - Pile cap Kicker Formwork	2	29-Dec-14	0%	2	30-Dec-14	11-Feb-15	12-Feb-15	37	0																								
SB1G0130	B13 (B1g) - Pile cap Concreting	1	31-Dec-14	0%	1	31-Dec-14	13-Feb-15	13-Feb-15	37	0																								
SB1G0140	B13 (B1g) - Pile cap Curing & Striking of Forms incl. CJ prep	6	02-Jan-15	0%	6	08-Jan-15	14-Feb-15	24-Feb-15	37	0																								
Pier Works																																		
SB1G0150	B13 (B1g) - Type 5B-B Pier Scaffolding (1st Lift)	4	09-Jan-15	0%	4	13-Jan-15	25-Feb-15	02-Mar-15	38	0																								
SB1G0160	B13 (B1g) - Type 5B-B Pier Rebarwork (1st Lift)	4	14-Jan-15	0%	4	17-Jan-15	03-Mar-15	06-Mar-15	38	0																								
SB1G0170	B13 (B1g) - Type 5B-B Pier Formwork & Prep for Concreting (1st Lift)	4	19-Jan-15	0%	4	22-Jan-15	07-Mar-15	11-Mar-15	38	0																								
SB1G0180	B13 (B1g) - Type 5B-B Pier Concreting (1st Lift)	1	23-Jan-15	0%	1	23-Jan-15	12-Mar-15	12-Mar-15	38	0																								
SB1G0182	B13 (B1g) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	24-Jan-15	0%	2	26-Jan-15	13-Mar-15	14-Mar-15	38	0																								
SB1G0190	B13 (B1g) - Type 5B-B Pier Scaffolding (2nd Lift)	4	27-Jan-15	0%	4	30-Jan-15	16-Mar-15	19-Mar-15	38	0																								
SB1G0200	B13 (B1g) - Type 5B-B Pier Rebarwork (2nd Lift)	4	31-Jan-15	0%	4	04-Feb-15	20-Mar-15	24-Mar-15	38	0																								
SB1G0210	B13 (B1g) - Type 5B-B Pier Formwork & Prep for Concreting (2nd Lift)	4	05-Feb-15	0%	4	09-Feb-15	25-Mar-15	28-Mar-15	38	0																								
SB1G0220	B13 (B1g) - Type 5B-B Pier Concreting (2nd Lift)	1	10-Feb-15	0%	1	10-Feb-15	30-Mar-15	30-Mar-15	38	0																								
SB1G0222	B13 (B1g) - Type 5B-B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	11-Feb-15	0%	2	12-Feb-15	31-Mar-15	01-Apr-15	38	0																								
SB1G0230	B13 (B1g) - Type 5B-B Pier Head Scaffolding	4	13-Feb-15	0%	4	17-Feb-15	08-Apr-15	13-Apr-15	38	0																								
SB1G0240	B13 (B1g) - Type 5B-B Pier Head Rebarwork	4	18-Feb-15	0%	4	25-Feb-15	14-Apr-15	18-Apr-15	38	0																								
SB1G0250	B13 (B1g) - Type 5B-B Pier Head Formwork & Prep for Concreting	4	26-Feb-15	0%	4	02-Mar-15	20-Apr-15	24-Apr-15	38	0																								
SB1G0260	B13 (B1g) - Type 5B-B Pier Head Concreting	1	03-Mar-15	0%	1	03-Mar-15	25-Apr-15	25-Apr-15	38	0																								
SB1G0270	B13 (B1g) - Type 5B-B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	04-Mar-15	0%	6	10-Mar-15	27-Apr-15	06-May-15	38	0																								
SB1G0280	B13 (B1g) - Type 5B-B Pier Backfilling Works	4	11-Mar-15	0%	4	14-Mar-15	08-May-15	12-May-15	38	54																								
Pier B14 (B1f)																																		
Pile Cap Works																																		
SB1F0090	B14 (B1f) - Utility diversion & Cut slope	36	22-Nov-14 A	55.56%	16	12-Jan-15	10-Aug-18	29-Aug-18	962	962																								

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

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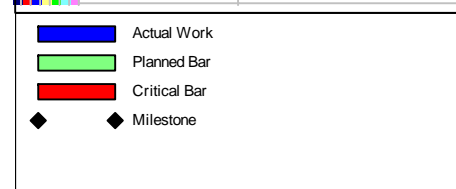
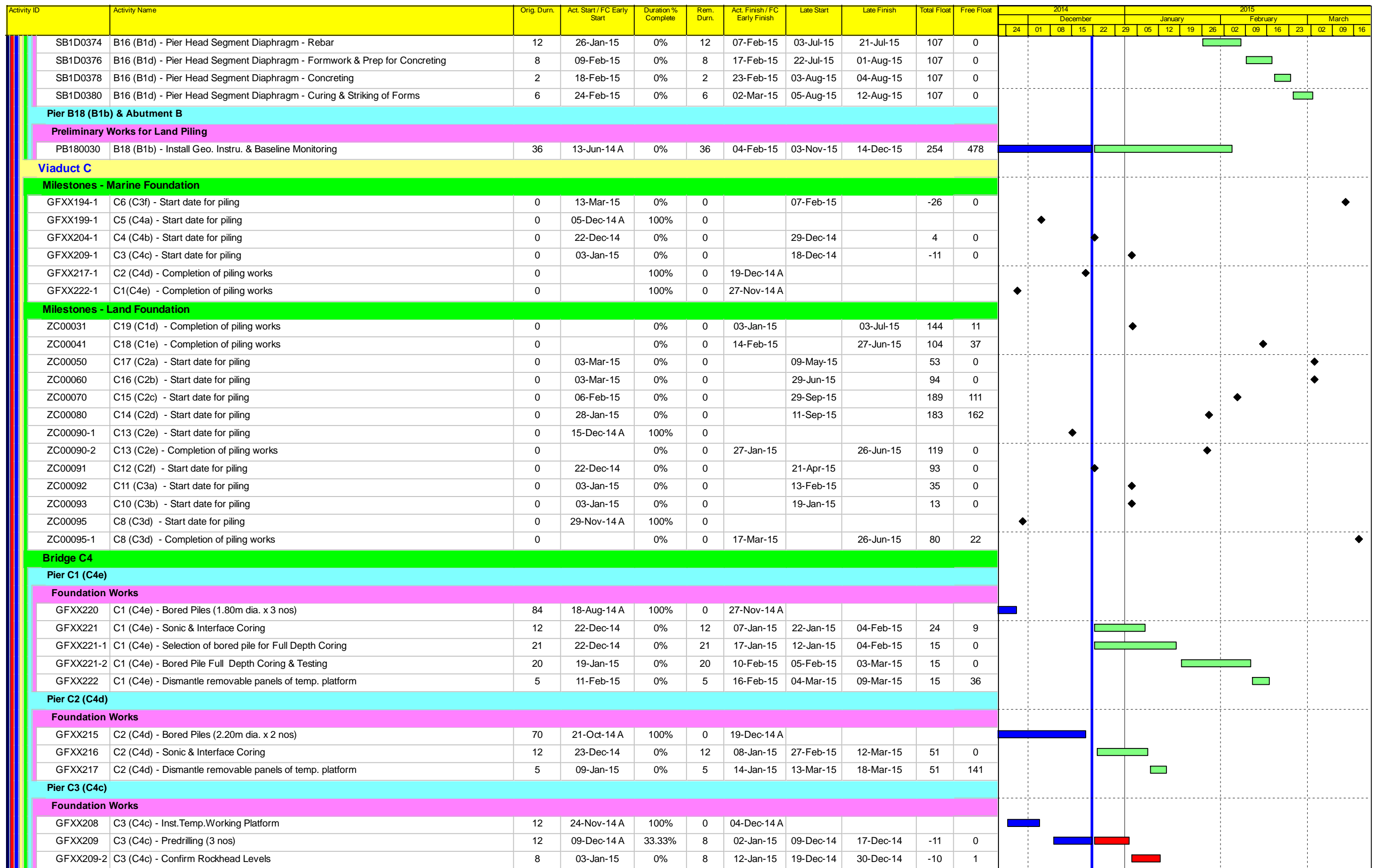
Activity ID	Activity Name	Orig. Durn.	Act. Start / FC Early Start	Duration % Complete	Rem. Durn.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	2014												2015												
											December						January						February						March						
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16								
SB1F0091	B14 (B1f) - Pile cap Excavation / ELS (incl. sheet piling)	24	02-Dec-14 A	58.33%	10	05-Jan-15	01-Dec-14	11-Dec-14	-18	0																									
SB1F0092	B14 (B1f) - Pile Breakdown to cut-off etc.	4	06-Jan-15	0%	4	09-Jan-15	12-Dec-14	16-Dec-14	-18	0																									
SB1F0100	B14 (B1f) - Pile cap Blinding	1	10-Jan-15	0%	1	10-Jan-15	17-Dec-14	17-Dec-14	-18	0																									
SB1F0110	B14 (B1f) - Pile cap Formwork	3	12-Jan-15	0%	3	14-Jan-15	18-Dec-14	20-Dec-14	-18	0																									
SB1F0120	B14 (B1f) - Pile cap Rebarwork	4	15-Jan-15	0%	4	19-Jan-15	22-Dec-14	27-Dec-14	-18	0																									
SB1F0122	B14 (B1f) - Pile cap Kicker Formwork	2	20-Jan-15	0%	2	21-Jan-15	29-Dec-14	30-Dec-14	-18	0																									
SB1F0130	B14 (B1f) - Pile cap Concreting	1	22-Jan-15	0%	1	22-Jan-15	31-Dec-14	31-Dec-14	-18	0																									
SB1F0140	B14 (B1f) - Pile cap Curing & Striking of Forms incl. CJ prep	6	23-Jan-15	0%	6	29-Jan-15	02-Jan-15	08-Jan-15	-18	0																									
Pier Works																																			
SB1F0150	B14 (B1f) - Type 5B Pier Scaffolding (1st Lift)	4	30-Jan-15	0%	4	03-Feb-15	09-Jan-15	13-Jan-15	-18	0																									
SB1F0160	B14 (B1f) - Type 5B Pier Rebarwork (1st Lift)	4	04-Feb-15	0%	4	07-Feb-15	14-Jan-15	17-Jan-15	-18	0																									
SB1F0170	B14 (B1f) - Type 5B Pier Formwork & Prep for Concreting (1st Lift)	4	09-Feb-15	0%	4	12-Feb-15	19-Jan-15	22-Jan-15	-18	0																									
SB1F0180	B14 (B1f) - Type 5B Pier Concreting (1st Lift)	1	13-Feb-15	0%	1	13-Feb-15	23-Jan-15	23-Jan-15	-18	0																									
SB1F0182	B14 (B1f) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	14-Feb-15	0%	2	16-Feb-15	24-Jan-15	26-Jan-15	-18	0																									
SB1F0190	B14 (B1f) - Type 5B Pier Scaffolding (2nd Lift)	4	17-Feb-15	0%	4	24-Feb-15	27-Jan-15	31-Jan-15	-17	0																									
SB1F0200	B14 (B1f) - Type 5B Pier Rebarwork (2nd Lift)	4	25-Feb-15	0%	4	28-Feb-15	02-Feb-15	05-Feb-15	-17	0																									
SB1F0210	B14 (B1f) - Type 5B Pier Formwork & Prep for Concreting (2nd Lift)	4	02-Mar-15	0%	4	05-Mar-15	06-Feb-15	10-Feb-15	-17	0																									
SB1F0220	B14 (B1f) - Type 5B Pier Concreting (2nd Lift)	1	06-Mar-15	0%	1	06-Mar-15	11-Feb-15	11-Feb-15	-17	0																									
SB1F0222	B14 (B1f) - Type 5B Pier Curing & Striking of Forms incl. CJ prep (2nd Lift)	2	07-Mar-15	0%	2	09-Mar-15	12-Feb-15	13-Feb-15	-17	0																									
SB1F0230	B14 (B1f) - Type 5B Pier Head Scaffolding	4	10-Mar-15	0%	4	13-Mar-15	14-Feb-15	18-Feb-15	-17	0																									
SB1F0240	B14 (B1f) - Type 5B Pier Head Rebarwork	4	14-Mar-15	0%	4	18-Mar-15	23-Feb-15	26-Feb-15	-17	0																									
SB1F0250	B14 (B1f) - Type 5B Pier Head Formwork & Prep for Concreting	4	19-Mar-15	0%	4	23-Mar-15	27-Feb-15	03-Mar-15	-17	0																									
Pier B15 (B1e)																																			
Pier Works																																			
SB1E0230	B15 (B1e) - Type 5B Pier Head Scaffolding	4	22-Dec-14	0%	4	27-Dec-14	13-Apr-15	17-Apr-15	84	0																									
SB1E0240	B15 (B1e) - Type 5B Pier Head Rebarwork	4	29-Dec-14	0%	4	02-Jan-15	18-Apr-15	22-Apr-15	84	0																									
SB1E0250	B15 (B1e) - Type 5B Pier Head Formwork & Prep for Concreting	4	03-Jan-15	0%	4	07-Jan-15	24-Apr-15	28-Apr-15	84	0																									
SB1E0260	B15 (B1e) - Type 5B Pier Head Concreting	1	08-Jan-15	0%	1	08-Jan-15	29-Apr-15	29-Apr-15	84	0																									
SB1E0270	B15 (B1e) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	09-Jan-15	0%	6	15-Jan-15	02-May-15	11-May-15	84	0																									
SB1E0280	B15 (B1e) - Type 5B Pier Backfilling Works	4	16-Jan-15	0%	4	20-Jan-15	12-May-15	16-May-15	84	0																									
Pier Head Segments																																			
SB1E0370	B15 (B1e) - Pier Head Segment - Temporary Platform	6	21-Jan-15	0%	6	27-Jan-15	18-May-15	27-May-15	85	0																									
SB1E0372	B15 (B1e) - Pier Head Segment Lift & Fix (1 seg)	2	28-Jan-15	0%	2	29-Jan-15	29-May-15	30-May-15	85	0																									
SB1E0374	B15 (B1e) - Pier Head Segment Diaphragm - Rebar	12	30-Jan-15	0%	12	12-Feb-15	01-Jun-15	25-Jun-15	85	0																									
SB1E0376	B15 (B1e) - Pier Head Segment Diaphragm - Formwork & Prep for Concreting	8	13-Feb-15	0%	8	25-Feb-15	26-Jun-15	07-Jul-15	85	0																									
SB1E0378	B15 (B1e) - Pier Head Segment Diaphragm - Concreting	2	26-Feb-15	0%	2	27-Feb-15	08-Jul-15	10-Jul-15	85	0																									
SB1E0380	B15 (B1e) - Pier Head Segment Diaphragm - Curing & Striking of Forms	6	28-Feb-15	0%	6	06-Mar-15	11-Jul-15	20-Jul-15	86	0																									
Pier B16 (B1d)																																			
Pier Works																																			
SB1D0200	B16 (B1d) - Type 5B Pier Head Rebarwork	4	22-Dec-14	0%	4	27-Dec-14	13-May-15	19-May-15	104	0																									
SB1D0210	B16 (B1d) - Type 5B Pier Head Formwork & Prep for Concreting	4	29-Dec-14	0%	4	02-Jan-15	19-May-15	26-May-15	104	0																									
SB1D0220	B16 (B1d) - Type 5B Pier Head Concreting	1	03-Jan-15	0%	1	03-Jan-15	26-May-15	27-May-15	104	0																									
SB1D0270	B16 (B1d) - Type 5B Pier Head Curing & Striking of Forms & Remove Scaffolding	6	05-Jan-15	0%	6	10-Jan-15	27-May-15	10-Jun-15	105	0																									
SB1D0280	B16 (B1d) - Type 5B Pier Backfilling Works	4	12-Jan-15	0%	4	15-Jan-15	10-Jun-15	19-Jun-15	105	0																									
Pier Head Segments																																			
SB1D0370	B16 (B1d) - Pier Head Segment - Temporary Platform	6	16-Jan-15	0%	6	22-Jan-15	19-Jun-15	29-Jun-15	105	0																									
SB1D0372	B16 (B1d) - Pier Head Segment Lift & Fix (1 seg)	2	23-Jan-15	0%	2	24-Jan-15	29-Jun-15	03-Jul-15	105	0																									

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21-Dec-14			

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21-Nov-14		DB	
21-Dec-14			

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J3518/GCL/PGM/3MRP-M19

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	2014												2015														
											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
GFXX414-6	C11 (C3a) - Confirm Rockhead Levels	8	04-Sep-14 A	0%	8	02-Jan-15	04-Feb-15	12-Feb-15	35	0	[Gantt Bar]																										
GFXX416	C11 (C3a) - Bored Pile (2.00m dia. x 2 nos)	110	03-Jan-15	0%	110	20-May-15	13-Feb-15	03-Jul-15	35	0	[Gantt Bar]																										
Bridge C2																																					
Pier C12 (C2f)																																					
Foundation Works																																					
GFXX411	C12 (C2f) - Confirm Rockhead Levels	8	29-Aug-14 A	0%	8	02-Jan-15	17-Apr-15	25-Apr-15	90	0	[Gantt Bar]																										
GFXX412	C12 (C2f) - Bored Pile (2.00m dia. x 2 nos)	48	22-Dec-14	0%	48	18-Feb-15	17-Apr-15	13-Jun-15	90	0	[Gantt Bar]																										
GFXX413	C12 (C2f) - Sonic & Interface Coring Tests	12	23-Feb-15	0%	12	07-Mar-15	18-Jun-15	03-Jul-15	93	12	[Gantt Bar]																										
GFXX422-4	C12 (C2f) - Selection of bored pile for Full Depth Coring	24	23-Feb-15	0%	24	21-Mar-15	15-Jun-15	14-Jul-15	90	0	[Gantt Bar]																										
Pier C13 (C2e) Portal																																					
Socketted H-Pile Installation																																					
GFXX388	C13 (C2e) - Install SH Pile (10 nr.)	35	15-Dec-14 A	17.14%	29	27-Jan-15	22-May-15	26-Jun-15	119	0	[Gantt Bar]																										
GFXX399-4	C13 (C2e) - Selction of pile for Loading Test	24	28-Jan-15	0%	24	27-Feb-15	27-Jun-15	25-Jul-15	119	0	[Gantt Bar]																										
GFXX399-6	C13 (C2e) - Loading Test for pre-bored H-pile	36	28-Feb-15	0%	36	15-Apr-15	27-Jul-15	05-Sep-15	119	111	[Gantt Bar]																										
Pier C14 (C2d)																																					
Preliminary Works for Land Piling																																					
PC140020	C14 (C2d) - Erect fencing & site clearance	5	06-Mar-15	0%	5	11-Mar-15	04-Aug-18	10-Aug-18	900	0	[Gantt Bar]																										
PC140030	C14 (C2d) - Set up piling platform	15	12-Mar-15	0%	15	28-Mar-15	11-Aug-18	29-Aug-18	900	0	[Gantt Bar]																										
Socketted H-Pile Installation																																					
GFXX380-5	C14 (C2d) - Confirm Rockhead Levels	8	24-Sep-14 A	0%	8	02-Jan-15	02-Sep-15	10-Sep-15	204	21	[Gantt Bar]																										
GFXX381-2	C14 (C2d) - Install SH Pile (12 nr)	49	28-Jan-15	0%	49	28-Mar-15	11-Sep-15	10-Nov-15	183	0	[Gantt Bar]																										
Pier C15 (C2c)																																					
Preliminary Works for Land Piling																																					
PC150030	C15 (C2c) - Set up piling platform	15	17-Nov-14 A	0%	15	10-Jan-15	12-Aug-15	01-Sep-15	161	0	[Gantt Bar]																										
PC150040	C15 (C2c) - Complete Civil Preparation Works for piling to commence	0		0%	0	10-Jan-15		01-Sep-15	161	0	[Milestone]																										
Socketted H-Pile Installation																																					
GFXX380-3	C15 (C2c) - Predrilling	14	12-Jan-15	0%	14	27-Jan-15	02-Sep-15	17-Sep-15	189	0	[Gantt Bar]																										
GFXX380-6	C15 (C2c) - Confirm Rockhead Levels	8	28-Jan-15	0%	8	05-Feb-15	18-Sep-15	26-Sep-15	189	0	[Gantt Bar]																										
GFXX381-3	C15 (C2c) - Install SH Pile (13 nr)	49	06-Feb-15	0%	49	11-Apr-15	29-Sep-15	26-Nov-15	189	0	[Gantt Bar]																										
Pier C16 (C2b)																																					
Preliminary Works for Land Piling																																					
PC160020	C16 (C2b) - Erect fencing & site clearance	5	06-Mar-15	0%	5	11-Mar-15	04-Aug-18	10-Aug-18	900	0	[Gantt Bar]																										
PC160030	C16(C2b) - Set up piling platform	15	12-Mar-15	0%	15	28-Mar-15	11-Aug-18	29-Aug-18	900	0	[Gantt Bar]																										
Foundation Works																																					
GFXX404-3	C16 (C2b) - Confirm Rockhead Levels	8	17-Oct-14 A	0%	8	02-Jan-15	04-Jun-15	12-Jun-15	129	47	[Gantt Bar]																										
GFXX408	C16 (C2b) - Bored Pile (2.00m dia. x 2 nos)	72	03-Mar-15	0%	72	01-Jun-15	13-Jun-15	07-Sep-15	82	0	[Gantt Bar]																										
Bridge C1																																					
Pier C17 (C2a)																																					
Preliminary Works for Land Piling																																					
PC170010	C17 (C2a) - Install Geo. Instru. & Baseline Monitoring	36	08-Oct-14 A	0%	36	04-Feb-15	22-Jun-18	03-Aug-18	1032	22	[Gantt Bar]																										
PC170020	C17 (C2a) - Erect fencing & site clearance	5	06-Mar-15	0%	5	11-Mar-15	04-Aug-18	10-Aug-18	900	0	[Gantt Bar]																										
PC170030	C17(C2a) - Set up piling platform	15	12-Mar-15	0%	15	28-Mar-15	11-Aug-18	29-Aug-18	900	0	[Gantt Bar]																										
Foundation Works																																					
GFXX404-4	C17 (C2a) - Confirm Rockhead Levels	8	22-Dec-14	0%	8	02-Jan-15	29-Apr-15	08-May-15	100	47	[Gantt Bar]																										
GFXX406	C17 (C2a) - Bored Pile (2.00m dia. x 2 nos)	72	03-Mar-15	0%	72	01-Jun-15	09-May-15	04-Aug-15	53	0	[Gantt Bar]																										
Pier C18 (C3d) Portal																																					
Socketted H-Pile Installation																																					

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPd1-M19
 Layout: J3518-DWP-3MRP Submission - M19
 Filter: TASK filters: 3-Month Lookahead, No CC
 Milestones, no Level of Effort, No Level of Effort.

Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 22 of 36 Pages)
(Progress as of 21-Dec-14)

Date	Revision	Checked	Approved
21-Sep-14			
21-Oct-14			
21-Nov-14		DB	
21-Dec-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M19

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	2014												2015														
											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
GFX374	C18 (C1e) - Install SH Pile (10 nr)	56	17-Nov-14 A	19.64%	45	14-Feb-15	05-May-15	27-Jun-15	104	0																											
Pier C19 (C1d)																																					
Socketted H-Pile Installation																																					
GFX369-2	C19 (C1d) - Install SH Pile (9 nr)	56	10-Nov-14 A	83.93%	9	03-Jan-15	23-Jun-15	03-Jul-15	144	0																											
GFX399-7	C19 (C1d) - Selection of Pile for Loading Test	24	17-Jan-15	0%	24	13-Feb-15	04-Jul-15	31-Jul-15	133	0																											
GFX399-8	C19 (C1d) - Loading Test for pre-bored H-pile	36	14-Feb-15	0%	36	31-Mar-15	01-Aug-15	11-Sep-15	133	2																											
Pier C20 (C1c) & Abutment C																																					
Pile Cap Works																																					
SC1C0090	C20 (C1c) - Pile cap Excavation / ELS	18	22-Dec-14 A	0%	18	14-Jan-15	20-May-15	24-Jun-15	109	0																											
SC1C0092	C20 (C1c) - Pile Breakdown to cut-off etc.	7	15-Jan-15	0%	7	22-Jan-15	25-Jun-15	04-Jul-15	109	0																											
SC1C0100	C20 (C1c) - Pile cap Blinding	1	23-Jan-15	0%	1	23-Jan-15	06-Jul-15	06-Jul-15	109	0																											
SC1C0110	C20 (C1c) - Pile cap Formwork	3	24-Jan-15	0%	3	27-Jan-15	07-Jul-15	10-Jul-15	109	0																											
SC1C0120	C20 (C1c) - Pile cap Rebarwork	7	28-Jan-15	0%	7	04-Feb-15	11-Jul-15	20-Jul-15	109	0																											
SC1C0122	C20 (C1c) - Pile cap Kicker Formwork	3	05-Feb-15	0%	3	07-Feb-15	21-Jul-15	24-Jul-15	109	0																											
SC1C0130	C20 (C1c) - Pile cap Concreting	1	09-Feb-15	0%	1	09-Feb-15	25-Jul-15	25-Jul-15	109	0																											
SC1C0140	C20 (C1c) - Pile cap Curing & Striking of Forms incl. CJ prep	6	10-Feb-15	0%	6	16-Feb-15	27-Jul-15	03-Aug-15	109	0																											
Pier Works																																					
SC1C0150	C20 (C1c) - Pier/Pier Head Scaffolding	4	17-Feb-15	0%	4	24-Feb-15	13-Oct-15	17-Oct-15	160	0																											
SC1C0160	C20 (C1c) - Pier/Pier Head Rebarwork	6	25-Feb-15	0%	6	03-Mar-15	19-Oct-15	26-Oct-15	160	0																											
SC1C0170	C20 (C1c) - Pier/Pier Head Formwork	8	04-Mar-15	0%	8	12-Mar-15	27-Oct-15	04-Nov-15	160	0																											
SC1C0180	C20 (C1c) - Pier/Pier Head Concreting	1	13-Mar-15	0%	1	13-Mar-15	05-Nov-15	05-Nov-15	160	0																											
SC1C0190	C20 (C1c) - Pier/Pier Head Curing & Striking of Forms incl. CJ prep	6	14-Mar-15	0%	6	20-Mar-15	06-Nov-15	12-Nov-15	160	0																											
Abutment & Approach Ramp C																																					
SC1C0200	Abutment C - Walls & Staircase	48	17-Feb-15	0%	48	25-Apr-15	04-Aug-15	07-Oct-15	109	104																											
Viaduct D																																					
Milestones - Marine Foundation																																					
GFX228	Viaduct D - ARUP issues Pile Spacing & Diameter for Temporary Platform Design	0		0%	0	22-Dec-14		29-Aug-18	1090	1090																											
GFX230-1	Pier D7 (D3e) - Start date for piling	0	22-Dec-14 A	100%	0																																
GFX235-1	Pier D6 (D4a) - Start date for piling	0	03-Dec-14 A	100%	0																																
GFX240-1	Pier D5 (D4b) - Start date for piling	0	12-Dec-14 A	100%	0																																
GFX248-1	Pier D4 (D4c) - Completion of Piling Works	0		0%	0	19-Mar-15		08-Dec-14	-81	0																											
GFX253-1	Pier D3 (D4d) - Completion of Piling Works	0		0%	0	09-Feb-15		25-Oct-14	-88	7																											
GFX258-2	Pier D2 (D4e) - Completion of Piling Works	0		0%	0	07-Feb-15		24-Aug-15	158	8																											
Milestones - Land Foundation																																					
GFX446A2	D14 (D2c) - Completion of piling works	0		0%	0	05-Feb-15		08-Dec-14	-48	10																											
GFX446B	D15 (D2b) - Start date for piling	0	03-Jan-15	0%	0		07-Aug-14		-122	1																											
GFX454A	D13 (D2d) - Start date for piling	0	03-Jan-15	0%	0		23-Mar-15		64	0																											
GFX461B	D11 (D3a) - Start date for piling	0	28-Nov-14 A	100%	0																																
GFX461C	D12 (D2e) - Start date for piling	0	14-Jan-15	0%	0		22-Nov-14		-42	0																											
GFX471-2	D8 (D3d) - Completion of piling works	0		0%	0	12-Feb-15		15-Jan-15	-24	22																											
Bridge D3																																					
Pier D1 (D4f)																																					
Foundation Works																																					
GFX262	D1 (D4f) - Sonic & Interface Coring	12	22-Dec-14	0%	12	07-Jan-15	03-Jan-15	16-Jan-15	8	0																											
GFX263	D1 (D4f) - Dismantle removable panels of temp. platform	5	08-Jan-15	0%	5	13-Jan-15	17-Jan-15	22-Jan-15	8	30																											
Pile Cap Works																																					
SD4F0070	D1 (D4f) - Marine Pile Cap M2 - Inst.Floating Seal & Casing Head Steelwork	7	18-Feb-15	0%	7	28-Feb-15	23-Jan-15	30-Jan-15	-22	0																											

	Project ID: J3518DWPd1-M19 Layout: J3518-DWP-3MRP Submission - M19 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, no Level of Effort, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 23 of 36 Pages) (Progress as of 21-Dec-14)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>21-Sep-14</td> <td></td> <td></td> <td></td> </tr> <tr> <td>21-Oct-14</td> <td></td> <td></td> <td></td> </tr> <tr> <td>21-Nov-14</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>21-Dec-14</td> <td></td> <td></td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	21-Sep-14				21-Oct-14				21-Nov-14		DB		21-Dec-14				DWG. No.: J3518/GCL/PGM/3MRP-M19
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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	2014					2015														
											December					January					February					March				
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16			
SD4F0080	D1 (D4f) - Marine Pile Cap M2 - Install precast shell in position	1	02-Mar-15	0%	1	02-Mar-15	31-Jan-15	31-Jan-15	-22	0																				
SD4F0090	D1 (D4f) - Marine Pile Cap M2 - Inst.Access & make Watertight	3	03-Mar-15	0%	3	05-Mar-15	02-Feb-15	05-Feb-15	-21	0																				
SD4F0100	D1 (D4f) - Marine Pile Cap M2 - Weld Fin plates/Plug Rebar & Concrete	9	06-Mar-15	0%	9	16-Mar-15	06-Feb-15	16-Feb-15	-21	0																				
SD4F0110	D1 (D4f) - Marine Pile Cap M2 - Dewater precast shell / Remove Lifting Frame	2	17-Mar-15	0%	2	18-Mar-15	17-Feb-15	18-Feb-15	-21	0																				
SD4F0120	D1 (D4f) - Marine Pile Cap M2 - Pile cut down	12	19-Mar-15	0%	12	01-Apr-15	23-Feb-15	07-Mar-15	-21	0																				
Pier D2 (D4e)																														
Foundation Works																														
GFXX256	D2 (D4e) - Bored Piles (2.35m dia. x 2 nos)	63	19-Sep-14 A	65.08%	22	19-Jan-15	10-Jul-15	04-Aug-15	158	0																				
GFXX257	D2 (D4e) - Sonic & Interface Coring	12	20-Jan-15	0%	12	02-Feb-15	05-Aug-15	18-Aug-15	158	0																				
GFXX258	D2 (D4e) - Dismantle removable panels of temp. platform	5	03-Feb-15	0%	5	07-Feb-15	19-Aug-15	24-Aug-15	158	0																				
Pile Cap Works																														
SD4E0070	D2 (D4e) - Marine Pile Cap M1 - Inst.Floating Seal & Casing Head Steelwork	7	18-Feb-15	0%	7	28-Feb-15	25-Aug-15	02-Sep-15	114	0																				
SD4E0080	D2 (D4e) - Marine Pile Cap M1 - Install precast shell in position	1	02-Mar-15	0%	1	02-Mar-15	04-Sep-15	04-Sep-15	114	0																				
SD4E0090	D2 (D4e) - Marine Pile Cap M1 - Inst.Access & make Watertight	3	03-Mar-15	0%	3	05-Mar-15	05-Sep-15	08-Sep-15	114	0																				
SD4E0100	D2 (D4e) - Marine Pile Cap M1 - Weld Fin plates/Plug Rebar & Concrete	9	06-Mar-15	0%	9	16-Mar-15	09-Sep-15	21-Sep-15	114	0																				
SD4E0120	D2 (D4e) - Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame	2	17-Mar-15	0%	2	18-Mar-15	22-Sep-15	23-Sep-15	114	0																				
SD4E0130	D2 (D4e) - Marine Pile Cap M1 - Pile cut down	8	19-Mar-15	0%	8	27-Mar-15	25-Sep-15	06-Oct-15	114	0																				
Pier D3 (D4d)																														
Foundation Works																														
GFXX251	D3 (D4d) - Bored Piles (2.00m dia. x 3 nos)	65	03-Nov-14 A	69.23%	20	16-Jan-15	11-Sep-14	06-Oct-14	-85	3																				
GFXX252	D3 (D4d) - Sonic & Interface Coring	12	21-Jan-15	0%	12	03-Feb-15	07-Oct-14	20-Oct-14	-88	0																				
GFXX253	D3 (D4d) - Dismantle removable panels of temp. platform	5	04-Feb-15	0%	5	09-Feb-15	21-Oct-14	25-Oct-14	-88	0																				
Pile Cap Works																														
SD4D0070	D3 (D4d) - Marine Pile Cap M2b - Inst.Floating Seal & Casing Head Steelwork	7	18-Feb-15	0%	7	28-Feb-15	27-Oct-14	03-Nov-14	-95	0																				
SD4D0080	D3 (D4d) - Marine Pile Cap M2b - Install precast shell in position	1	02-Mar-15	0%	1	02-Mar-15	04-Nov-14	04-Nov-14	-95	0																				
SD4D0090	D3 (D4d) - Marine Pile Cap M2b - Inst.Access & make Watertight	3	03-Mar-15	0%	3	05-Mar-15	05-Nov-14	07-Nov-14	-95	0																				
SD4D0100	D3 (D4d) - Marine Pile Cap M2b - Weld Fin plates/Plug Rebar & Concrete	9	06-Mar-15	0%	9	16-Mar-15	08-Nov-14	18-Nov-14	-95	0																				
SD4D0120	D3 (D4d) - Marine Pile Cap M2b - Dewater precast shell / Remove Lifting Frame	2	17-Mar-15	0%	2	18-Mar-15	19-Nov-14	20-Nov-14	-95	0																				
SD4D0130	D3 (D4d) - Marine Pile Cap M2b - Pile cut down	12	19-Mar-15	0%	12	01-Apr-15	21-Nov-14	04-Dec-14	-95	0																				
Pier D4 (D4c)																														
Foundation Works																														
GFXX246	D4 (D4c) - Bored Piles (2.00m dia. x 3 nos)	70	06-Nov-14 A	24.29%	53	27-Feb-15	16-Sep-14	18-Nov-14	-81	0																				
GFXX247	D4 (D4c) - Sonic & Interface Coring	12	28-Feb-15	0%	12	13-Mar-15	19-Nov-14	02-Dec-14	-81	0																				
GFXX248	D4 (D4c) - Dismantle removable panels of temp. platform	5	14-Mar-15	0%	5	19-Mar-15	03-Dec-14	08-Dec-14	-81	0																				
Pile Cap Works																														
SD4C0070	D4 (D4c) - Marine Pile Cap M2b - Inst.Floating Seal & Casing Head Steelwork	7	20-Mar-15	0%	7	27-Mar-15	09-Dec-14	16-Dec-14	-81	0																				
Pier D5 (D4b)																														
Foundation Works																														
GFXX240-2	D5 (D4b) - Confirm Rockhead Levels	8	20-Nov-14 A	100%	0	11-Dec-14 A																								
GFXX241	D5 (D4b) - Bored Piles (2.35m dia. x 2 nos)	78	12-Dec-14 A	8.97%	71	20-Mar-15	22-Sep-14	15-Dec-14	-76	0																				
Pier D6 (D4a)																														
Foundation Works																														
GFXX235-2	D6 (D4a) - Confirm Rockhead Levels	8	21-Nov-14 A	100%	0	02-Dec-14 A																								
GFXX236	D6 (D4a) - Bored Piles (2.00m dia. x 3 nos)	62	03-Dec-14 A	8.06%	57	04-Mar-15	27-Sep-14	04-Dec-14	-71	0																				
GFXX237	D6 (D4a) - Sonic & Interface Coring	12	05-Mar-15	0%	12	18-Mar-15	19-Dec-14	05-Jan-15	-59	12																				
GFXX237-1	D6 (D4a) - Selection of bored pile for Full Depth Coring	24	05-Mar-15	0%	24	01-Apr-15	05-Dec-14	05-Jan-15	-71	0																				

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											December					January					February					March				
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16			
Pier D7 (D3e)																														
Foundation Works																														
GFXX230-2	D7 (D3e) - Confirm Rockhead Levels	8	08-Nov-14 A	100%	0	21-Nov-14 A																								
GFXX231	D7 (D3e) - Bored Piles (2.35m dia. x 2 nos)	67	22-Nov-14 A	40.3%	40	09-Feb-15	12-Nov-14	30-Dec-14	-34	0																				
GFXX232	D7 (D3e) - Sonic & Interface Coring	10	17-Mar-15	0%	10	27-Mar-15	31-Dec-14	12-Jan-15	-61	0																				
Pier D8 (D3d)																														
Socketted H-Pile Installation																														
GFXX471	D8 (D3d) - Installation of SH Pile (16 nr)	122	16-Oct-14 A	64.75%	43	12-Feb-15	24-Nov-14	15-Jan-15	-24	0																				
Pile Cap Works																														
SD3D0088	D8 (D3d) - Pile cap - Pipe Pile Wall for ELS	24	14-Mar-15	0%	24	18-Apr-15	16-Jan-15	12-Feb-15	-46	0																				
Pier D9 (D3c)																														
Socketted H-Pile Installation																														
GFXX466	D9 (D3c) - Installation of SH Pile (22 nr)	108	20-Nov-14 A	26.85%	79	30-Mar-15	21-Jan-15	30-Apr-15	23	0																				
Pile Cap Works																														
SD3C0090	D9 (D3c) - Pile cap Excavation / ELS (incl. sheet piling)	45	27-Sep-14 A	30%	32	30-Jan-15	10-Apr-15	27-May-15	83	48																				
Pier D10 (D3b)																														
Socketted H-Pile Installation																														
GFXX461-1	D10 (D3b) - Installation of SH Pile (16 nr)	153	10-Nov-14 A	24.84%	115	16-May-15	15-Sep-14	31-Jan-15	-82	0																				
Pier D11 (D3a)																														
Preliminary Works for Land Piling																														
PD110020	D11 (D3a) - Set up piling platform	10	23-Jul-14 A	100%	0	21-Nov-14 A																								
PD110030	D11(D3a) - Complete Civil Preparation Works for piling to commence	0		100%	0	21-Nov-14 A																								
Socketted H-Pile Installation																														
GFXX460-2	D11 (D3a) - Predrilling	17	25-Oct-14 A	100%	0	01-Dec-14 A																								
GFXX460-5	D11 (D3a) - Confirm Rockhead Levels	8	03-Nov-14 A	75%	2	23-Dec-14	28-Aug-18	29-Aug-18	1088	1088																				
GFXX461-2	D11 (D3a) - Installation of SH Pile (16 nr)	153	28-Nov-14 A	15.03%	130	04-Jun-15	26-Sep-14	05-Mar-15	-72	0																				
Pier D12 (D2e)																														
Preliminary Works for Land Piling																														
PD120012	D12 (D2e) - Install Geo. Instru. & Baseline Monitoring	36	22-Dec-14	0%	36	04-Feb-15	19-Jul-18	29-Aug-18	1054	1054																				
PD120020	D12 (D2e) - Set up piling platform	10	03-Nov-14 A	50%	5	29-Dec-14	24-Aug-18	29-Aug-18	973	0																				
PD120030	D12 (D2e) - Complete Civil Preparation Works for piling to commence	0		0%	0	29-Dec-14		29-Aug-18	973	973																				
Socketted H-Pile Installation																														
GFXX460-6	D12 (D2e) - Confirm Rockhead Levels	8	22-Sep-14 A	50%	4	27-Dec-14	18-Nov-14	21-Nov-14	-29	13																				
GFXX460-9	D12A (D2e) - Predrilling (PD-D12A-S1)	17	20-Dec-14 A	0%	17	13-Jan-15	03-Nov-14	21-Nov-14	-42	0																				
GFXX461-3	D12 (D2e) - Installation of SH Pile (16 nr)	153	14-Jan-15	0%	153	23-Jul-15	22-Nov-14	02-Jun-15	-42	0																				
Pile Cap Works																														
SD2EL090	D12A (D2e-L) - Pile cap Excavation / ELS	45	03-Nov-14 A	0%	45	14-Feb-15	23-Mar-15	01-Jun-15	72	102																				
Pier D13 (D2d)																														
Socketted H-Pile Installation																														
GFXX452-8	D13 (D2d) - Confirm Rockhead Levels	8	31-May-14 A	0%	8	02-Jan-15	13-Mar-15	21-Mar-15	64	0																				
GFXX454	D13 (D2d) - Installation of SH Pile (16 nos)	71	03-Jan-15	0%	71	30-Mar-15	23-Mar-15	19-Jun-15	64	0																				
Bridge D1																														
Pier D14 (D2c)																														
Socketted H-Pile Installation																														
GFXX446-	D14 (D2c) - Installation of SH Pile (10 nr)	121	06-Oct-14 A	69.42%	37	05-Feb-15	27-Oct-14	08-Dec-14	-48	0																				
Pile Cap Works																														
SD2CL090	D14A (D2c-L) - Pile cap Excavation / ELS	35	18-Feb-15	0%	35	08-Apr-15	09-Dec-14	21-Jan-15	-58	0																				

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPd1-M19
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 Milestones, no Level of Effort, No Level of Effort.

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21-Oct-14			
21-Nov-14		DB	
21-Dec-14			

DWG. No.:
J3518/GCL/PGM/3MRP-M19

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	2014												2015														
											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
Pier D15 (D2b)																																					
Preliminary Works for Land Piling																																					
PD150020	D15 (D2b) - Set up piling platform	20	22-Dec-14	0%	20	16-Jan-15	04-Aug-18	29-Aug-18	958	0																											
PD150030	D15 (D2b) - Complete Civil Preparation Works for piling to commence	0		0%	0	16-Jan-15		29-Aug-18	958	958																											
Socketted H-Pile Installation																																					
GFXX445-2	D15 (D2b) - Pre-drilling	18	24-Nov-14 A	100%	0	27-Nov-14 A																															
GFXX445-4	D15 (D2b) - Confirm Rockhead Levels	8	22-Dec-14	0%	8	02-Jan-15	29-Jul-14	06-Aug-14	-122	0																											
GFXX446-2	D15 (D2b) - Installation of SH Pile (13 nr)	121	03-Jan-15	0%	121	03-Jun-15	07-Aug-14	31-Dec-14	-122	0																											
Pier D16 (D2a)																																					
Pile Cap Works																																					
SD2A0090	D16 (D2a) - Pile cap Excavation / ELS (incl. sheet piling)	22	18-Feb-15	0%	22	18-Mar-15	06-Dec-14	03-Jan-15	-60	0																											
SD2A0092	D16 (D2a) - Pile cap Pile breakdown to cut-off etc.	4	19-Mar-15	0%	4	23-Mar-15	05-Jan-15	08-Jan-15	-60	0																											
Pier D17 (D1d)																																					
Pile Cap Works																																					
SD1D0090	D17 (D1d) - Pile cap Excavation / ELS (incl. sheet piling)	45	18-Feb-15	0%	45	22-Apr-15	03-Mar-15	06-May-15	8	0																											
Pier D18 (D1c)																																					
Socketted H-Pile Installation																																					
GFXX439-5	D18 (D1c) - Selction of pile for Loading test	24	22-Dec-14	0%	24	21-Jan-15	31-Jan-15	03-Mar-15	32	0																											
GFXX439-7	D18 (D1c) - Loading test of pre-bored H-pile	36	22-Jan-15	0%	36	07-Mar-15	04-Mar-15	18-Apr-15	32	0																											
Pile Cap Works																																					
SD1C0090	D18 (D1c) - Pile cap Excavation / ELS (incl. sheet piling)	30	09-Mar-15	0%	30	20-Apr-15	20-Apr-15	05-Jun-15	29	0																											
Pier D19 (D1b) & Abutment D																																					
Pile Cap Works																																					
SD1B0090	D19 (D1b) - Pile cap Excavation / ELS	45	18-Feb-15	0%	45	22-Apr-15	11-Feb-15	14-Apr-15	-6	0																											
Abutment & Approach Ramp D																																					
SD1B0200	Abutment D - Walls & Staircase	48	18-Feb-15	0%	48	27-Apr-15	11-Feb-15	18-Apr-15	-6	34																											
Viaduct E																																					
Viaduct E1																																					
Bridge E1 - Piling & Substructure																																					
Milestones																																					
GFXX031-5	E2C/E2D (E1b2/E1b1) - Piling Works Completion	0		100%	0	02-Dec-14 A																															
GFXX031-6	E2B (E1b3) - Piling Works Completion	0		100%	0	02-Dec-14 A																															
GFXX031-7	E2A (E1b4) - Piling Works Completion	0		100%	0	02-Dec-14 A																															
E1A, E1B, E1C & E1D (E1a1-2-3-4)																																					
Pile Cap Works - E1A, E1B, E1C & E1D																																					
Pile Cap Works - E1A (E1a4)																																					
SE1A4070	E1A (E1a4) - Marine Pile Cap - Inst.prefab.collar frame to perm.casing of Bored pile	4	28-Nov-14 A	0%	4	27-Dec-14	25-Aug-18	29-Aug-18	943	943																											
SE1A4080	E1A (E1a4) - Marine Pile Cap M1 - Install precast shell in position	2	17-Dec-14 A	100%	0	17-Dec-14 A																															
SE1A4090	E1A (E1a4) - Marine Pile Cap - Temp fixings to casings	6	18-Dec-14 A	0%	6	30-Dec-14	08-Dec-14	15-Dec-14	-12	0																											
SE1A4100	E1A (E1a4) - Marine Pile Cap - Tremie concrete at pedestal	1	31-Dec-14	0%	1	31-Dec-14	15-Dec-14	16-Dec-14	-12	0																											
SE1A4120	E1A (E1a4) - Marine Pile Cap - Dewatering inside precast shell	1	02-Jan-15	0%	1	02-Jan-15	16-Dec-14	17-Dec-14	-12	0																											
SE1A4130	E1A (E1a4) - Marine Pile Cap - Trimming of pile & casing	10	03-Jan-15	0%	10	14-Jan-15	17-Dec-14	31-Dec-14	-12	0																											
SE1A4140	E1A (E1a4) - Marine Pile Cap - Rebar fixing, installation of cast inserts etc	10	15-Jan-15	0%	10	26-Jan-15	31-Dec-14	13-Jan-15	-12	0																											
SE1A4150	E1A (E1a4) - Marine Pile Cap - Concreting	1	27-Jan-15	0%	1	27-Jan-15	13-Jan-15	14-Jan-15	-12	0																											
SE1A4160	E1A (E1a4) - Marine Pile Cap - Curing incl. CJ Preparation	6	28-Jan-15	0%	6	03-Feb-15	14-Jan-15	21-Jan-15	-12	0																											
Pile Cap Works - E1B (E1a3)																																					
SE1A3070	E1B (E1a3) - Marine Pile Cap - Inst.prefab.collar frame to perm.casing of Bored pile	4	28-Nov-14 A	100%	0	04-Dec-14 A																															

- █ Actual Work
- █ Planned Bar
- █ Critical Bar
- ◆ Milestone

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J3518/GCL/PGM/3MRP-M19

Activity ID	Activity Name	Orig. Dur.	Act. Start / FC Early Start	Duration % Complete	Rem. Dur.	Act. Finish / FC Early Finish	Late Start	Late Finish	Total Float	Free Float	2014					2015														
											December					January					February					March				
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16			
SE1A3320	E1B (E1a3) - Type 4B Pier Head Formwork & Prep for Concreting	7	17-Mar-15	0%	7	24-Mar-15	27-Apr-15	08-May-15	27	0																				
Pier Works - E1C (E1a2)																														
SE1A2170	E1C (E1a2) - Type 4B Pier Temp. Support Platform	6	11-Feb-15	0%	6	17-Feb-15	19-May-15	29-May-15	68	0																				
SE1A2172	E1C (E1a2) - Type 4B Pier Scaffolding (1st Lift)	4	18-Feb-15	0%	4	25-Feb-15	29-May-15	05-Jun-15	68	0																				
SE1A2180	E1C (E1a2) - Type 4B Pier Rebarwork (1st Lift)	4	26-Feb-15	0%	4	02-Mar-15	05-Jun-15	17-Jun-15	68	0																				
SE1A2190	E1C (E1a2) - Type 4B Pier Formwork & Prep for Concreting (1st Lift)	4	03-Mar-15	0%	4	06-Mar-15	17-Jun-15	26-Jun-15	68	0																				
SE1A2200	E1C (E1a2) - Type 4B Pier Concreting (1st Lift)	1	07-Mar-15	0%	1	07-Mar-15	29-Jun-15	29-Jun-15	68	0																				
SE1A2202	E1C (E1a2) - Type 4B Pier Curing & Striking of Forms incl. CJ prep (1st Lift)	2	09-Mar-15	0%	2	10-Mar-15	03-Jul-15	08-Jul-15	70	0																				
SE1A2210	E1C (E1a2) - Type 4B Pier Scaffolding (2nd Lift)	4	11-Mar-15	0%	4	14-Mar-15	10-Jul-15	15-Jul-15	70	0																				
SE1A2220	E1C (E1a2) - Type 4B Pier Rebarwork (2nd Lift)	4	16-Mar-15	0%	4	19-Mar-15	17-Jul-15	21-Jul-15	70	0																				
SE1A2230	E1C (E1a2) - Type 4B Pier Formwork & Prep for Concreting (2nd Lift)	4	20-Mar-15	0%	4	24-Mar-15	22-Jul-15	27-Jul-15	70	0																				
E2A, E2B, E2C & E2D (E1b1-2-3-4)																														
Foundation Works - E2A, E2B, E2C & E2D																														
Foundation Works																														
GFXX02	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Bored Piles (2.00m dia. x 7 nr)	88	05-Sep-14 A	100%	0	02-Dec-14 A																								
GFXX02	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Sonic & Interface Coring	34	22-Dec-14	0%	34	02-Feb-15	16-Oct-14	24-Nov-14	-57	0																				
GFXX030	E2A/E2B/E2C/E2D (E1b4/3/2/1) - Dismantle Temporary Removable Piling Platform	8	03-Feb-15	0%	8	11-Feb-15	26-Nov-14	04-Dec-14	-56	0																				
Pile Cap Works - E2A, E2B, E2C & E2D																														
Pile Cap Works - E2A (E1b4)																														
SE1B4070	E2A (E1b4) - Marine Pile Cap M1 - Inst.Floating Seal & Casing Head Steelwork	7	12-Feb-15	0%	7	23-Feb-15	05-Dec-14	12-Dec-14	-56	0																				
SE1B4080	E2A (E1b4) - Marine Pile Cap M1 - Install precast shell in position	1	24-Feb-15	0%	1	24-Feb-15	13-Dec-14	13-Dec-14	-56	0																				
SE1B4090	E2A (E1b4) - Marine Pile Cap M1 - Inst.Access & make Watertight	3	25-Feb-15	0%	3	27-Feb-15	15-Dec-14	17-Dec-14	-56	0																				
SE1B4100	E2A (E1b4) - Marine Pile Cap M1 - Weld Fin Plates/Plug Rebar & Concrete	9	28-Feb-15	0%	9	10-Mar-15	18-Dec-14	30-Dec-14	-56	0																				
SE1B4120	E2A (E1b4) - Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame	2	11-Mar-15	0%	2	12-Mar-15	31-Dec-14	02-Jan-15	-56	0																				
SE1B4130	E2A (E1b4) - Marine Pile Cap M1 - Pile cut down	8	13-Mar-15	0%	8	21-Mar-15	03-Jan-15	12-Jan-15	-56	0																				
Pile Cap Works - E2B (E1b3)																														
SE1B3070	E2B (E1b3) - Marine Pile Cap M1 - Inst.Floating Seal & Casing Head Steelwork	7	25-Feb-15	0%	7	04-Mar-15	16-Dec-14	23-Dec-14	-55	0																				
SE1B3080	E2B (E1b3) - Marine Pile Cap M1 - Install precast shell in position	1	05-Mar-15	0%	1	05-Mar-15	24-Dec-14	24-Dec-14	-55	0																				
SE1B3090	E2B (E1b3) - Marine Pile Cap M1 - Inst.Access & make Watertight	3	06-Mar-15	0%	3	09-Mar-15	27-Dec-14	30-Dec-14	-55	0																				
SE1B3100	E2B (E1b3) - Marine Pile Cap M1 - Weld Fin Plates/Plug Rebar & Concrete	9	10-Mar-15	0%	9	19-Mar-15	31-Dec-14	10-Jan-15	-55	0																				
SE1B3120	E2B (E1b3) - Marine Pile Cap M1 - Dewater precast shell / Remove Lifting Frame	2	20-Mar-15	0%	2	21-Mar-15	12-Jan-15	13-Jan-15	-55	0																				
Pile Cap Works - E2C/E2D (E1b1/E1b2)																														
SE1B2070	E2C/E2D (E1b1/E1b2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8	06-Mar-15	0%	8	14-Mar-15	16-Jan-15	24-Jan-15	-39	0																				
SE1B2080	E2C/E2D (E1b1/E1b2) - Marine Pile Cap - Install precast shell in position	6	16-Mar-15	0%	6	21-Mar-15	26-Jan-15	31-Jan-15	-39	0																				
Viaduct E2																														
Bridge E2 - Piling & Substructure																														
Milestones																														
GFXX047-1	E5 (E2c) - Start date for piling	0	26-Jan-15	0%	0		17-Nov-14		-57	0																				
GFXX062-1	E8 (E2f) - Start date for piling	0	20-Jan-15	0%	0		20-Nov-14		-49	0																				
GFXX077-5	E9 (E2g) - Completion of piling works	0		100%	0	03-Dec-14 A																								
GFXX078	E10 (E2h) - Completion of piling works	0		100%	0	12-Dec-14 A																								
E3A, E3B, E3C & E3D (E2a - 1/2/3/4)																														
Pile Cap Works - E3A, E3B, E3C & E3D																														
Pile Cap Works																														
SE2A1070	E3 (E2a1/2/3/4)- Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8	22-Dec-14	0%	8	02-Jan-15	04-Nov-14	12-Nov-14	-41	49																				
SE2A1080	E3 (E2a1/2/3/4)- Marine Pile Cap - Install precast shell in position (3 units)	6	05-Mar-15	0%	6	11-Mar-15	13-Nov-14	19-Nov-14	-90	0																				
SE2A1090	E3 (E2a1/2/3/4)- Marine Pile Cap - Inst.Access & make Watertight	8	12-Mar-15	0%	8	20-Mar-15	20-Nov-14	28-Nov-14	-90	0																				

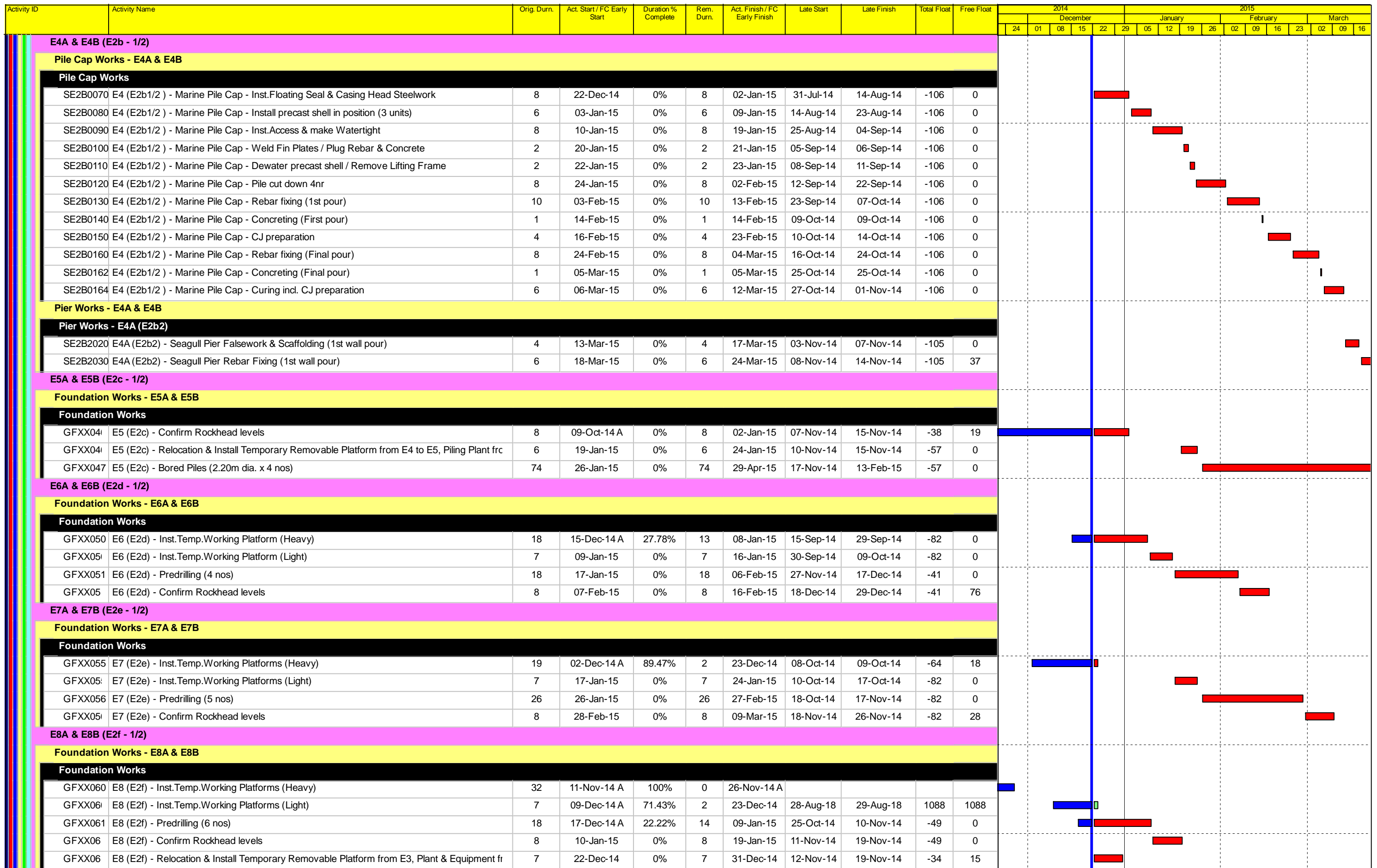
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■ Planned Bar
■ Critical Bar
◆ Milestone

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											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
GFX062	E8 (E2f) - Bored Piles (2.20m dia. x 4 nr)	100	20-Jan-15	0%	100	26-May-15	20-Nov-14	23-Mar-15	-49	0																											
E9A & E9B (E2g - 1/2)																																					
Foundation Works - E9A & E9B																																					
Foundation Works																																					
GFX067	E9 (E2g) - Bored Piles (2.00m dia. x 6 nr)	105	17-May-14 A	100%	0	03-Dec-14 A																															
GFX068	E9 (E2g) - Sonic & Interface Coring	12	22-Dec-14	0%	12	07-Jan-15	05-Mar-15	18-Mar-15	57	0																											
GFX069	E9 (E2g) - Dismantle temp. removable piling platform	7	08-Jan-15	0%	7	15-Jan-15	19-Mar-15	26-Mar-15	57	0																											
Pile Cap Works - E9A & E9B																																					
Pile Cap Works																																					
SE2G00	E9 (E2g1/2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8	16-Jan-15	0%	8	24-Jan-15	27-Mar-15	11-Apr-15	57	0																											
SE2G00	E9 (E2g1/2) - Marine Pile Cap - Install precast shell in position (3 units)	6	26-Jan-15	0%	6	31-Jan-15	13-Apr-15	20-Apr-15	57	0																											
SE2G00	E9 (E2g1/2) - Marine Pile Cap - Inst.Access & make Watertight	8	02-Feb-15	0%	8	10-Feb-15	21-Apr-15	06-May-15	59	0																											
SE2G01	E9 (E2g1/2) - Marine Pile Cap - Weld Fin Plates / Plug Rebar & Concrete	2	11-Feb-15	0%	2	12-Feb-15	08-May-15	09-May-15	59	0																											
SE2G01	E9 (E2g1/2) - Marine Pile Cap - Dewater precast shell / Remove Lifting Frame	2	13-Feb-15	0%	2	14-Feb-15	11-May-15	12-May-15	59	0																											
SE2G01	E9 (E2g1/2) - Marine Pile Cap - Pile cut down 6nr	12	16-Feb-15	0%	12	04-Mar-15	13-May-15	30-May-15	59	0																											
SE2G01	E9 (E2g1/2) - Marine Pile Cap - Rebar fixing (1st pour)	8	05-Mar-15	0%	8	13-Mar-15	01-Jun-15	19-Jun-15	59	0																											
SE2G01	E9 (E2g1/2) - Marine Pile Cap - Concreting (First pour)	1	14-Mar-15	0%	1	14-Mar-15	22-Jun-15	22-Jun-15	59	0																											
SE2G01	E9 (E2g1/2) - Marine Pile Cap - CJ preparation	4	16-Mar-15	0%	4	19-Mar-15	24-Jun-15	03-Jul-15	59	0																											
SE2G01	E9 (E2g1/2) - Marine Pile Cap - Rebar fixing (Final pour)	8	20-Mar-15	0%	8	28-Mar-15	04-Jul-15	17-Jul-15	59	0																											
E10A & E10B (E2h - 1/2)																																					
Foundation Works - E10A & E10B																																					
Foundation Works																																					
GFX072	E10 (E2h) - Bored Piles (2.20m dia. x 6 nr)	132	15-May-14 A	100%	0	12-Dec-14 A																															
GFX073	E10 (E2h) - Sonic & Interface Coring	12	22-Dec-14	0%	12	07-Jan-15	05-Nov-14	18-Nov-14	-40	0																											
GFX074	E10 (E2h) - Dismantle temp. removable piling platform	7	08-Jan-15	0%	7	15-Jan-15	19-Nov-14	26-Nov-14	-40	0																											
Pile Cap Works - E10A & E10B																																					
Pile Cap Works																																					
SE2H00	E10 (E2h1/2) - Marine Pile Cap - Inst.Floating Seal & Casing Head Steelwork	8	16-Jan-15	0%	8	24-Jan-15	27-Nov-14	05-Dec-14	-40	0																											
SE2H00	E10 (E2h1/2) - Marine Pile Cap - Install precast shell in position (3 units)	6	26-Jan-15	0%	6	31-Jan-15	06-Dec-14	12-Dec-14	-40	0																											
SE2H00	E10 (E2h1/2) - Marine Pile Cap - Inst.Access & make Watertight	8	02-Feb-15	0%	8	10-Feb-15	13-Dec-14	22-Dec-14	-40	0																											
SE2H01	E10 (E2h1/2) - Marine Pile Cap - Weld Fin Plates / Plug Rebar & Concrete	2	11-Feb-15	0%	2	12-Feb-15	23-Dec-14	24-Dec-14	-40	0																											
SE2H01	E10 (E2h1/2) - Marine Pile Cap - Dewater precast shell / Remove Lifting Frame	2	13-Feb-15	0%	2	14-Feb-15	27-Dec-14	29-Dec-14	-40	0																											
SE2H01	E10 (E2h1/2) - Marine Pile Cap - Pile cut down 6nr	10	16-Feb-15	0%	10	02-Mar-15	30-Dec-14	10-Jan-15	-40	0																											
SE2H01	E10 (E2h1/2) - Marine Pile Cap - Rebar fixing (1st pour)	8	03-Mar-15	0%	8	11-Mar-15	12-Jan-15	20-Jan-15	-40	0																											
SE2H01	E10 (E2h1/2) - Marine Pile Cap - Concreting (First pour)	1	12-Mar-15	0%	1	12-Mar-15	21-Jan-15	21-Jan-15	-40	0																											
SE2H01	E10 (E2h1/2) - Marine Pile Cap - CJ preparation	4	13-Mar-15	0%	4	17-Mar-15	22-Jan-15	26-Jan-15	-40	0																											
SE2H01	E10 (E2h1/2) - Marine Pile Cap - Rebar fixing (Final pour)	8	18-Mar-15	0%	8	26-Mar-15	27-Jan-15	04-Feb-15	-40	0																											
Viaduct E5, E6, E7 & E8																																					
Milestones - Land Foundation																																					
GFX012	Land Access to BCF (Available in Month 17)	0	22-Dec-14	0%	0		05-Nov-14		-47	0																											
GFX548-1	E14B (E7d) - Start date for piling	0	30-Jan-15	0%	0		13-Jun-15		106	0																											
GFX549-1	E14A (E8d) - Start date for piling	0	30-Jan-15	0%	0		24-Dec-14		-29	0																											
E11A & E11B (E5E6a/E7E8a)																																					
Foundation Works - E11A & E11B																																					
Foundation Works																																					
GFX083	E11 (E5E6a/E7E8a) - Confirm Rockhead levels	8	12-Jun-14 A	75%	2	23-Dec-14	28-Aug-18	29-Aug-18	1088	1088																											
GFX084	E11 (E5E6a/E7E8a) - Bored Piles (2.35m dia. x 7 nr)	130	10-Jul-14 A	50%	65	13-Mar-15	13-Jun-14	28-Aug-14	-160	0																											

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

Project ID: J3518DWPd1-M19
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 Filter: TASK filters: 3-Month Lookahead, No CC
 Milestones, no Level of Effort, No Level of Effort.

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Date	Revision	Checked	Approved
21-Sep-14			
21-Oct-14			
21-Nov-14		DB	
21-Dec-14			

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J3518/GCL/PGM/3MRP-M19

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	2014												2015														
											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16	23									
GFXX084	E11 (E5E6a/E7E8a) - Bored Piles (2.35m dia. x 2 nr (Total 7 Nr))	130	10-Jul-14 A	50%	65	13-Mar-15	13-Jun-14	28-Aug-14	-160	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX084	E11 (E5E6a/E7E8a) - Bored Piles (2.35m dia. x 2 nr (Total 7 Nr))	130	10-Jul-14 A	50%	65	13-Mar-15	13-Jun-14	28-Aug-14	-160	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX084	E11 (E5E6a/E7E8a) - Bored Piles (2.35m dia. x 2 nr (Total 7 Nr))	130	10-Jul-14 A	50%	65	13-Mar-15	13-Jun-14	28-Aug-14	-160	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX084	E11 (E5E6a/E7E8a) - Bored Piles (2.35m dia. x 1 nr (Total 7 Nr))	130	10-Jul-14 A	50%	65	13-Mar-15	13-Jun-14	28-Aug-14	-160	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX085	E11 (E5E6a/E7E8a) - Sonic & Interface Coring	18	14-Mar-15	0%	18	08-Apr-15	29-Aug-14	19-Sep-14	-160	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
E12A, E12B, E12C & E12D (E8b/E7b/E6b/E5b)																																					
Foundation Works - E12																																					
Foundation Works																																					
GFXX088	E12 (E5b/E6b, E7b/E8b + Dolphins) - Confirm Rockhead levels	8	21-Jun-14 A	100%	0	22-Dec-14	29-Aug-18	29-Aug-18	1090	1090	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX089	E12 (E5b/E6b/E7b/E8b + Dolphins) - Bored Piles (2.35m dia. x 14 nr ; 2.00m dia x 6 nr)	216	11-Jul-14 A	51.85%	104	04-May-15	04-Aug-14	05-Dec-14	-117	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX089	E12D (E5b+ Dolphins) - Bored Piles (2.35m dia. x 4 nr (total 14) ; 2.00m dia x 3 nr (total 6))	216	11-Jul-14 A	51.85%	104	04-May-15	04-Aug-14	05-Dec-14	-117	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX089	E12C (E6b) - Bored Piles (2.35m dia. x 3 nr)	216	11-Jul-14 A	51.85%	104	04-May-15	04-Aug-14	05-Dec-14	-117	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX089	E12B (E7b) - Bored Piles (2.35m dia. x 3 nr)	216	11-Jul-14 A	51.85%	104	04-May-15	04-Aug-14	05-Dec-14	-117	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX089	E12A (E8b + Dolphins) - Bored Piles (2.35m dia. x 4 nr (total 14) ; 2.00m dia x 3 nr (total 6))	216	11-Jul-14 A	51.85%	104	04-May-15	04-Aug-14	05-Dec-14	-117	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
E13A, E13B, E13C & E13D (E8c/E7c/E6c/E5c)																																					
Foundation Works - E13																																					
Foundation Works - E13A (E8c) & E13B (E7c)																																					
GFXX100	E13A/B (E8c/E7c & Dolphin) - Predrilling	26	29-Oct-14 A	100%	0	15-Dec-14 A					[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX100	E13A/B (E8c/E7c & Dolphin) - Confirm Rockhead levels	8	22-Dec-14	0%	8	02-Jan-15	11-Oct-14	20-Oct-14	-61	109	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
Foundation Works - E13C (E6c) & E13D (E5c)																																					
GFXX094	E13C/D (E6c/E5c + Dolphin) - Confirm Rockhead levels	8	21-Jul-14 A	75%	2	23-Dec-14	28-Aug-18	29-Aug-18	1088	1088	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX095	E13C/D (E6c/E5c + Dolphin) - Bored Piles (2.20m dia. x 8 nr; 2.00m dia x 3nr)	128	14-Aug-14 A	35.16%	83	08-Apr-15	09-Jun-14	15-Sep-14	-164	10	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX095	E13D (E5c + Dolphin) - Bored Piles (2.20m dia. x 4 nr; 2.00m dia x 3nr)	128	14-Aug-14 A	35.16%	83	08-Apr-15	09-Jun-14	15-Sep-14	-164	10	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX615	E13C (E6c) - Bored Piles (2.20m dia. x 4 nr)	128	14-Aug-14 A	27.34%	93	20-Apr-15	27-May-14	15-Sep-14	-174	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
E14A, E14B, E14C & E14D (E8d/E7d/E6d/E5d)																																					
Foundation Works - E14																																					
GFXX545	Mobilization & Assembling Bored Pile Plant & Equipment for Viaducts in HKBCF	5	22-Dec-14	0%	5	29-Dec-14	05-Nov-14	10-Nov-14	-40	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
Foundation Works - E14A (E8d)																																					
GFXX544	E14A (E8d) - Pre-drilling for Piles (4 nos)	24	02-Jan-15	0%	24	29-Jan-15	26-Nov-14	23-Dec-14	-29	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX544	E14A (E8d) - Confirm Rockhead levels	8	30-Jan-15	0%	8	07-Feb-15	24-Dec-14	05-Jan-15	-29	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX549	E14A (E8d) - Bored Piles (2.20m dia. x 4 nos)	102	30-Jan-15	0%	102	08-Jun-15	24-Dec-14	04-May-15	-29	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
Foundation Works - E14B (E7d)																																					
GFXX544	E14B (E7d) - Pre-drilling for Piles (3 nos)	24	02-Jan-15	0%	24	29-Jan-15	05-Nov-14	02-Dec-14	-47	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX544	E14B (E7d) - Confirm Rockhead levels	8	30-Jan-15	0%	8	07-Feb-15	03-Dec-14	11-Dec-14	-47	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX548	E14B (E7d) - Bored Piles(2.20m dia. x 3 nos)	90	30-Jan-15	0%	90	23-May-15	03-Dec-14	24-Mar-15	-47	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
Foundation Works - E14C (E6d)																																					
GFXX544	E14C (E6d) - Pre-drilling for Piles (3 nos)	25	30-Jan-15	0%	25	03-Mar-15	02-Jan-15	30-Jan-15	-24	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
GFXX544	E14C (E6d) - Confirm Rockhead levels	8	04-Mar-15	0%	8	12-Mar-15	15-Jun-15	24-Jun-15	82	77	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
Foundation Works - E14D (E5d)																																					
GFXX544	E14D (E5d) - Pre-drilling for Piles (4 nos)	25	04-Mar-15	0%	25	01-Apr-15	31-Jan-15	04-Mar-15	-24	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
Viaduct F																																					
Viaduct F1																																					
General F1																																					
Milestones																																					
F10010	Viaduct F1 - Approval of Foundation DDA	0		0%	0	30-Dec-14		19-Nov-14	-29	0	[Gantt bars for Dec 2014, Jan 2015, Feb 2015, Mar 2015]																										
F1 (F1b)																																					
Foundation Works																																					

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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	2014												2015														
											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
GFXX553-1	F1 (F1b) - Pre-drilling for Piles (2 nos)	19	30-Dec-14	0%	19	21-Jan-15	18-Nov-14	09-Dec-14	-34	0	[Gantt Bar: Red, 21-Jan-15 to 21-Jan-15]																										
GFXX553-4	F1 (F1b) - Confirm Rockhead Levels	8	22-Jan-15	0%	8	30-Jan-15	10-Dec-14	18-Dec-14	-34	82	[Gantt Bar: Red, 22-Jan-15 to 22-Jan-15]																										
F2 (F1c)																																					
Foundation Works																																					
GFXX553-2	F2 (F1c) - Pre-drilling for Piles (2 nos)	19	31-Dec-14	0%	19	22-Jan-15	20-Nov-14	11-Dec-14	-33	0	[Gantt Bar: Red, 22-Jan-15 to 22-Jan-15]																										
GFXX553-5	F2 (F1c) - Confirm Rockhead Levels	8	23-Jan-15	0%	8	31-Jan-15	12-Dec-14	20-Dec-14	-33	81	[Gantt Bar: Red, 23-Jan-15 to 23-Jan-15]																										
F3 (F1d)																																					
Foundation Works																																					
GFXX553-3	F3 (F1d) - Pre-drilling for Piles (2 nos)	19	31-Dec-14	0%	19	22-Jan-15	20-Nov-14	12-Dec-14	-33	0	[Gantt Bar: Red, 22-Jan-15 to 22-Jan-15]																										
GFXX553-6	F3 (F1d) - Confirm Rockhead Levels	8	23-Jan-15	0%	8	31-Jan-15	12-Dec-14	22-Dec-14	-33	81	[Gantt Bar: Red, 23-Jan-15 to 23-Jan-15]																										
Viaduct F2																																					
General F2																																					
Milestones																																					
F20010	Viaduct F2 - Approval of Foundation DDA	0		0%	0	30-Dec-14		03-Dec-14	-19	0	[Milestone: Diamond]																										
F4 (F2b)																																					
Foundation Works																																					
GFXX561-1	F4 (F2b) - Pre-drilling for piles (2 nos)	19	04-Mar-15	0%	19	25-Mar-15	30-Apr-15	22-May-15	45	0	[Gantt Bar: Green, 25-Mar-15 to 25-Mar-15]												[Gantt Bar: Green, 22-May-15 to 22-May-15]														
F5 (F2c)																																					
Foundation Works																																					
GFXX561-2	F5 (F2c) - Pre-drilling for Piles (2 nos)	19	31-Dec-14	0%	19	22-Jan-15	17-Mar-15	11-Apr-15	61	0	[Gantt Bar: Green, 22-Jan-15 to 22-Jan-15]																										
GFXX561-8	F5 (F2c) - Confirm Rockhead Levels	8	23-Jan-15	0%	8	31-Jan-15	13-Apr-15	21-Apr-15	61	141	[Gantt Bar: Green, 23-Jan-15 to 23-Jan-15]																										
F6 (F2d)																																					
Foundation Works																																					
GFXX561-	F6 (F2d) - Confirm Rockhead Levels	8	23-Jan-15	0%	8	31-Jan-15	29-Dec-14	07-Jan-15	-21	81	[Gantt Bar: Red, 23-Jan-15 to 23-Jan-15]																										
GFXX561-3	F6 (F2d) - Pre-drilling for Piles (2 nos)	19	31-Dec-14	0%	19	22-Jan-15	04-Dec-14	27-Dec-14	-21	0	[Gantt Bar: Red, 22-Jan-15 to 22-Jan-15]																										
F7 (F2e)																																					
Foundation Works																																					
GFXX561-	F7 (F2e) - Confirm Rockhead Levels	8	14-Feb-15	0%	8	26-Feb-15	14-Apr-15	22-Apr-15	43	122	[Gantt Bar: Green, 14-Feb-15 to 14-Feb-15]												[Gantt Bar: Green, 22-Apr-15 to 22-Apr-15]														
GFXX561-4	F7 (F2e) - Pre-drilling for Piles (2 nos)	19	23-Jan-15	0%	19	13-Feb-15	19-Jan-15	09-Feb-15	-4	0	[Gantt Bar: Red, 23-Jan-15 to 23-Jan-15]																										
F8 (F2f) & Abutment																																					
Foundation Works																																					
GFXX561-	F8 (F2f) - Confirm Rockhead Levels	8	03-Mar-15	0%	8	11-Mar-15	04-Dec-15	12-Dec-15	226	158	[Gantt Bar: Green, 03-Mar-15 to 03-Mar-15]												[Gantt Bar: Green, 12-Dec-15 to 12-Dec-15]														
GFXX561-5	F8 (F2f) - Pre-drilling for Piles (2 nos)	18	06-Feb-15	0%	18	02-Mar-15	02-Feb-15	25-Feb-15	-4	0	[Gantt Bar: Red, 06-Feb-15 to 06-Feb-15]												[Gantt Bar: Red, 25-Feb-15 to 25-Feb-15]														
Viaduct F3																																					
General F3																																					
Milestones																																					
F30010	Viaduct F3 - Approval of Foundation DDA	0		0%	0	30-Dec-14		30-Jan-15	23	17	[Milestone: Diamond]																										
F9 (F3d-1/F3d-2)																																					
Foundation Works - F9 (F3d-1/F3d-2)																																					
Foundation Works																																					
GFXX571	F9 (F3d) - Pre-drilling for Piles (4 nos)	19	23-Jan-15	0%	19	13-Feb-15	17-Jun-15	10-Jul-15	115	0	[Gantt Bar: Green, 23-Jan-15 to 23-Jan-15]												[Gantt Bar: Green, 10-Jul-15 to 10-Jul-15]														
GFXX571	F9 (F3d) - Confirm Rockhead Levels	8	14-Feb-15	0%	8	26-Feb-15	11-Jul-15	20-Jul-15	115	194	[Gantt Bar: Green, 14-Feb-15 to 14-Feb-15]												[Gantt Bar: Green, 20-Jul-15 to 20-Jul-15]														
F10 (F3c-1/F3c-2)																																					
Foundation Works - Pier F10																																					
Foundation Works																																					
GFXX571	F10 (F3c) - Pre-drilling for Piles (4 nos)	18	06-Feb-15	0%	18	02-Mar-15	02-Feb-15	25-Feb-15	-4	0	[Gantt Bar: Red, 06-Feb-15 to 06-Feb-15]												[Gantt Bar: Red, 25-Feb-15 to 25-Feb-15]														
GFXX571	F10 (F3c) - Confirm Rockhead Levels	8	03-Mar-15	0%	8	11-Mar-15	27-Feb-15	09-Mar-15	-3	111	[Gantt Bar: Red, 03-Mar-15 to 03-Mar-15]												[Gantt Bar: Red, 09-Mar-15 to 09-Mar-15]														

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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	2014							2015															
											December							January			February			March									
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16						
F11 (F3b-1/F3b-2)																																	
Foundation Works - Pier F11 (F3b-1/F3b-2)																																	
Foundation Works																																	
GFXX571	F11 (F3b) - Pre-drilling for Piles (4 nos)	18	25-Feb-15	0%	18	17-Mar-15	17-Feb-15	12-Mar-15	-4	0																							
GFXX571	F11 (F3b) - Confirm Rockhead Levels	8	18-Mar-15	0%	8	26-Mar-15	13-Mar-15	21-Mar-15	-4	98																							
F12 (F3a) & Abutment																																	
Foundation Works																																	
GFXX571-4	F12 (F3a) - Pre-drilling for Piles (2 nos)	20	11-Mar-15	0%	20	02-Apr-15	05-May-15	29-May-15	42	0																							
Viaduct F5																																	
General F5																																	
Milestones																																	
F50010	Viaduct F5 - Approval of foundation DDA	0		0%	0	30-Dec-14		06-Jul-15	134	55																							
F13 (F5d)																																	
Foundation Works																																	
GFXX586-1	F13 (F5d) - Pre-drilling for Piles (3 nos)	12	18-Mar-15	0%	12	31-Mar-15	07-Jul-15	20-Jul-15	87	0																							
Viaduct F4																																	
General F4																																	
F40010	Viaduct F4 - Approval of foundation DDA	0		0%	0	30-Dec-14		26-Jun-15	128	13																							
F17 (F4b)																																	
Foundation Works																																	
GFXX579-2	F17 (F4b) - Pre-drilling for Piles (2 nos)	12	22-Dec-14	0%	12	07-Jan-15	04-Jun-15	17-Jun-15	129	0																							
GFXX579-6	F17 (F4b) - Confirm Rockhead Levels	8	08-Jan-15	0%	8	16-Jan-15	18-Jun-15	27-Jun-15	129	0																							
GFXX581	F17 (F4b) - Bored Piles (2.20m dia. x 2 nos)	70	17-Jan-15	0%	70	16-Apr-15	29-Jun-15	18-Sep-15	129	53																							
F18 (F4c) & Abutment																																	
Foundation Works																																	
GFXX579-3	F18 (F4c) - Pre-drilling for Piles (2 nos)	12	08-Jan-15	0%	12	21-Jan-15	10-Sep-15	23-Sep-15	199	0																							
GFXX579-7	F18 (F4c) - Confirm Rockhead Levels	8	22-Jan-15	0%	8	30-Jan-15	24-Sep-15	05-Oct-15	199	123																							
Approach Ramp F																																	
Approach Ramp Land Foundation - HKBCF																																	
Approach Ramp F Piling																																	
GFXX593	AR-F - Pre-drilling for Piles (28 nos)	24	22-Dec-14	0%	24	21-Jan-15	13-Dec-14	13-Jan-15	-7	0																							
GFXX594	AR-F - Confirm Rockhead Levels	8	22-Jan-15	0%	8	30-Jan-15	14-Jan-15	22-Jan-15	-7	50																							
SUPERSTRUCTURE																																	
Assembling, relocation and dismantle of lifting equipment																																	
Lauching Gantry 1																																	
PR20130	Assembly of Launching Gantry LG1 on Temp.Loading Platform	36	15-Sep-14 A	55.56%	16	17-Jan-15	28-Oct-14	14-Nov-14	-52	7																							
PR20130-1	Assembly of Launching Gantry LG1 onto Pier B1/B2 (incl.Load Test)	24	27-Jan-15	0%	24	26-Feb-15	15-Nov-14	12-Dec-14	-59	0																							
PR20140	Viaduct B3 - Learning Curve Gantry LG1	25	27-Feb-15	0%	25	27-Mar-15	13-Dec-14	14-Jan-15	-59	0																							
Viaduct B Superstructure																																	
Bridge B3 Superstructure																																	
Milestones																																	
Milestones Ready for PH Segment Erection																																	
B300020-1	Pier B5 (B3b) ready for Viaduct B3 PH segment erection	0		0%	0	02-Feb-15		16-Dec-14	-38	0																							
B300030-1	Pier B4 (B3c) ready for Viaduct B3 PH segment erection	0		0%	0	20-Jan-15		15-Dec-14	-28	0																							
B300040-1	Pier B3 (B3d) ready for Viaduct B3 PH segment erection	0		0%	0	16-Feb-15		15-Dec-14	-51	0																							
B300050-1	Pier B2 (B3e) ready for Viaduct B3 PH segment erection	0		0%	0	30-Dec-14		18-Oct-14	-60	0																							
B300060-1	Pier B1 (B3f) ready for Viaduct B3 PH segment erection	0		0%	0	31-Dec-14		29-Oct-14	-52	0																							

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ Milestone

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 Milestones, no Level of Effort, No Level of Effort.

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21-Oct-14			
21-Nov-14		DB	
21-Dec-14			

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J3518/GCL/PGM/3MRP-M19

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	2014					2015																																							
											December					January			February		March																																		
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16																												
Milestones Ready for Deck Segment Erection																																																							
B300020	Pier B5 (B3b) ready for Viaduct B3 deck segment erection	0		0%	0	19-Mar-15		30-Jan-15	-38	25																																													
B300030	Pier B4 (B3c) ready for Viaduct B3 deck segment erection	0		0%	0	06-Mar-15		30-Jan-15	-27	30																																													
B300050	Pier B2 (B3e) ready for Viaduct B3 deck segment erection	0		0%	0	11-Feb-15		14-Jan-15	-24	35																																													
B300060	Pier B1 (B3f) ready for Viaduct B3 deck segment erection	0		0%	0	17-Jan-15		14-Nov-14	-52	0																																													
Bridge B2 Superstructure																																																							
Milestones																																																							
Milestones Ready for PH Segment Erection																																																							
B200020-1	Pier B11 (B2b) ready for Viaduct B2 PH segment erection	0		0%	0	05-Feb-15		23-Apr-15	59	0																																													
B200030-1	Pier B10 (B2c) ready for Viaduct B2 PH segment erection	0		0%	0	19-Mar-15		05-Mar-15	-12	1																																													
B200040-1	Pier B9 (B2d) ready for Viaduct B2 PH segment erection	0		0%	0	02-Mar-15		10-Feb-15	-14	1																																													
B200050-1	Pier B8 (B2e) ready for Viaduct B2 PH segment erection	0		0%	0	14-Feb-15		17-Jan-15	-24	1																																													
B200060-1	Pier B7 (B2f) ready for Viaduct B2 PH segment erection	0		0%	0	06-Mar-15		05-Jan-15	-49	0																																													
Milestones Ready for Deck Segment Erection																																																							
B200020	Pier B11 (B2b) ready for Viaduct B2 deck segment erection	0		0%	0	25-Feb-15		15-May-15	63	148																																													
Bridge B1 Superstructure																																																							
Milestones																																																							
Milestones Ready for PH Segment Erection																																																							
B100030-1	Pier B16 (B1d) ready for Viaduct B1 PH segment erection	0		0%	0	10-Jan-15		10-Jun-15	119	0																																													
B100040-1	Pier B15 (B1e) ready for Viaduct B1 PH segment erection	0		0%	0	15-Jan-15		11-May-15	91	0																																													
B100060-1	Pier B13 (B1g) ready for Viaduct B1 PH segment erection	0		0%	0	10-Mar-15		07-May-15	45	0																																													
Milestones Ready for Deck Segment Erection																																																							
B100030	Pier B16 (B1d) ready for Viaduct B1 deck segment erection	0		0%	0	02-Mar-15		12-Aug-15	132	217																																													
B100040	Pier B15 (B1e) ready for Viaduct B1 deck segment erection	0		0%	0	06-Mar-15		20-Jul-15	108	193																																													
Viaduct C Superstructure																																																							
Bridge C1 Superstructure																																																							
Milestones																																																							
Milestones Ready for PH Segment Erection																																																							
C100010-1	Pier C20 (C1c) ready for Viaduct C1 PH segment erection	0		0%	0	20-Mar-15		12-Nov-15	192	0																																													
Viaduct E																																																							
Bridge E1 Superstructure																																																							
Milestones																																																							
Milestones Ready for PH Segment Erection																																																							
E100040-1	Pier B1 (B3f) ready for Viaduct E1 PH segment erection	0		0%	0	31-Dec-14		29-Oct-14	-52	0																																													
Milestones Ready for Deck Segment Erection																																																							
E100040	Pier B1 (B3f) ready for Viaduct E1 deck segment erection	0		0%	0	17-Jan-15		23-Jan-15	5	64																																													
At-Grade Roadworks & Other Works along NLH																																																							
Viaduct D Slope Works																																																							
Slope 10NW-C/F10																																																							
M201215	10NW-C/F10 - Install Geo. Instru. & Baseline Monitoring	30	26-Jul-14 A	0%	30	28-Jan-15	28-Jul-16	08-Sep-16	415	323																																													
Slope 10NW-C/F11																																																							
M201220	10NW-C/F11 - Install Geo. Instru. & Baseline Monitoring	30	16-Aug-14 A	0%	30	28-Jan-15	28-Sep-16	05-Nov-16	459	531																																													
At-Grade Roadworks and Other Works along Cheung Tung Road																																																							
Re-alignment of Cheung Tung Road adjacent to Viaduct B																																																							
RP00020	Construct new ESS adjacent to Viaduct B	60	15-Sep-14 A	28.33%	43	12-Feb-15	20-Mar-14	26-May-14	-193	0																																													
RP00030	Inst. new equip. & testing / commissioning of new ESS	60	13-Feb-15	0%	60	11-May-15	27-May-14	29-Aug-14	-193	0																																													
Box Culvert Extension																																																							

■ Actual Work
■ Planned Bar
■ Critical Bar
◆ ◆ Milestone

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21-Dec-14			

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J3518/GCL/PGM/3MRP-M19

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	2014					2015														
											December					January					February					March				
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16			
BCE0030	Demolish existing culvert / step channel / existing staircase	12	14-Oct-14 A	100%	0	21-Nov-14 A																								
BCE0040	Prepare slab base & blind	6	25-Nov-14 A	100%	0	10-Dec-14 A																								
BCE0050	Culvert RC base	12	01-Dec-14 A	100%	0	10-Dec-14 A																								
BCE0060	Culvert RC walls & connect new 450 dia. stormwater pipe	20	12-Dec-14 A	0%	20	16-Jan-15	24-Jan-15	16-Feb-15	26	0																				
BCE0070	Culvert RC roof	20	17-Jan-15	0%	20	09-Feb-15	17-Feb-15	14-Mar-15	26	0																				
BCE0080	Catch pit rear wall to +3.189	6	10-Feb-15	0%	6	16-Feb-15	16-Mar-15	21-Mar-15	26	0																				
BCE0090	Catch pit rear wall to +7.600	6	17-Feb-15	0%	6	26-Feb-15	23-Mar-15	28-Mar-15	26	0																				
BCE0100	Catch pit rear wall to +12.250 w/ backfill	6	27-Feb-15	0%	6	05-Mar-15	30-Mar-15	11-Apr-15	26	0																				
BCE0110	Construct staircases & backfill to required elevation	12	06-Mar-15	0%	12	19-Mar-15	13-Apr-15	28-Apr-15	26	0																				
BCE0120	Construct step irons at 300c/c staggerd & new railings	6	06-Mar-15	0%	6	12-Mar-15	21-Apr-15	28-Apr-15	32	6																				
BCE0130	Construct all proposed connecting U-Channels	12	06-Mar-15	0%	12	19-Mar-15	13-Apr-15	28-Apr-15	26	219																				
Viaduct B Slope Works																														
Slope 9SE-B/C9																														
Zone A																														
SWVB1140	9SE-B/C9 Zone A - Soil nail 37 nr. @ +18.5 (Row F)	12	01-Aug-14 A	100%	0	21-Nov-14 A																								
SWVB1170	9SE-B/C9 Zone A - Inst. 300UC @ +15.0	10	22-Dec-14	0%	10	05-Jan-15	17-Aug-18	29-Aug-18	968	968																				
SWVB1180	9SE-B/C9 Zone A - Excav. to +14.5	5	18-Nov-14 A	100%	0	06-Dec-14 A																								
SWVB1190	9SE-B/C9 Zone A - Raking Drain 14 nr @ +16.0	5	22-Dec-14	0%	5	29-Dec-14	24-Aug-18	29-Aug-18	973	973																				
SWVB1200	9SE-B/C9 Zone A - Excav. to +11.5	5	01-Dec-14 A	100%	0	13-Dec-14 A																								
SWVB1210	9SE-B/C9 Zone A - Soil nail 42 nr @ +13.0 (Row C)	12	16-Dec-14 A	8.33%	11	06-Jan-15	16-Aug-18	29-Aug-18	967	967																				
SWVB1220	9SE-B/C9 Zone A - Excav. to +9.0	5	01-Dec-14 A	100%	0	06-Dec-14 A																								
SWVB1230	9SE-B/C9 Zone A - Soil nail 55 nr @ +11.0 (Row B)	14	08-Dec-14 A	35.71%	9	03-Jan-15	07-Aug-18	17-Aug-18	960	0																				
SWVB1240	9SE-B/C9 Zone A - Raking Drain 27 nr @ +10.5	9	05-Jan-15	0%	9	14-Jan-15	18-Aug-18	29-Aug-18	960	960																				
SWVB1250	9SE-B/C9 Zone A - Excav. to +7.0	5	24-Nov-14 A	100%	0	22-Dec-14	29-Aug-18	29-Aug-18	978	978																				
SWVB1260	9SE-B/C9 Zone A - Soil nail 67 nr @ +9.0 (Row A)	15	18-Dec-14 A	0%	15	10-Jan-15	16-Jan-15	02-Feb-15	19	0																				
SWVB1270	9SE-B/C9 Zone A - Raking Drain 33 nr @ +8.5	11	12-Jan-15	0%	11	23-Jan-15	03-Feb-15	14-Feb-15	19	0																				
SWVB1280	9SE-B/C9 Zone A - Excav. to +5.50	5	24-Jan-15	0%	5	29-Jan-15	16-Feb-15	24-Feb-15	19	0																				
SWVB1290	9SE-B/C9 Zone A - Form 375UC @ +5.5	12	30-Jan-15	0%	12	12-Feb-15	25-Feb-15	10-Mar-15	19	0																				
SWVB1300	9SE-B/C9 Zone A - Hydroseeding	6	13-Feb-15	0%	6	23-Feb-15	11-Mar-15	17-Mar-15	19	43																				
Zone B & C																														
SWVB1440	9SE-B/C9 Zone B & C - Soil nail 87 nr. @+20.5 (Row G)	17	22-Sep-14 A	100%	0	11-Dec-14 A																								
SWVB1460	9SE-B/C9 Zone B & C - Soil nail 92 nr. @ +18.5 (Row F)	17	27-Oct-14 A	100%	0	15-Dec-14 A																								
SWVB1470	9SE-B/C9 Zone B & C - Raking Drain 13 nr @ +18.6	5	22-Dec-14	0%	5	29-Dec-14	24-Aug-18	29-Aug-18	973	973																				
SWVB1480	9SE-B/C9 Zone B & C - Excav. to approx +15	8	17-Oct-14 A	100%	0	12-Dec-14 A																								
SWVB1490	9SE-B/C9 Zone B & C - Soil nail 35 nr. @+16.5 (Row E)	12	18-Oct-14 A	100%	0	20-Dec-14 A																								
SWVB1500	9SE-B/C9 Zone B & C - Raking Drain 14 nr @ +17.0	5	22-Dec-14	0%	5	29-Dec-14	25-Nov-14	29-Nov-14	-23	0																				
SWVB1510	9SE-B/C9 Zone B & C - Form 375UC @ approx +16.0	18	30-Dec-14	0%	18	20-Jan-15	01-Dec-14	20-Dec-14	-23	1																				
SWVB1520	9SE-B/C9 Zone B & C - Rock excav. to +6.5	42	24-Nov-14 A	42.86%	24	21-Jan-15	24-Nov-14	20-Dec-14	-24	0																				
SWVB1530	9SE-B/C9 Zone B & C - Raking Drain 8 nr @ +8.0 in rock	8	22-Jan-15	0%	8	30-Jan-15	22-Dec-14	02-Jan-15	-24	0																				
SWVB1540	9SE-B/C9 Zone B & C - Rock excav. to +5.5	42	31-Jan-15	0%	42	24-Mar-15	03-Jan-15	24-Feb-15	-24	0																				
SWVB1560	9SE-B/C9 Zone B & C - Install Geo. Instru. & Baseline Monitoring	30	09-Jun-14 A	0%	30	28-Jan-15	17-Jan-15	24-Feb-15	20	44																				
Slope 9SE-B/C8																														
SWVB2080	9SE-B/C8 -Raking Drain 9 nr	12	22-Dec-14	0%	12	07-Jan-15	15-Aug-18	29-Aug-18	966	966																				
SWVB2100	9SE-B/C8 -Inst. 225UC & railings @ approx +15.0	14	22-Dec-14	0%	14	09-Jan-15	30-Aug-14	18-Sep-14	-90	1																				
SWVB2110	9SE-B/C8 -Rock excav. to +7.00	30	10-Oct-14 A	50%	15	10-Jan-15	29-Aug-14	18-Sep-14	-91	0																				
SWVB2120	9SE-B/C8 -Raking Drain 9 nr	10	12-Jan-15	0%	10	22-Jan-15	19-Sep-14	30-Sep-14	-91	0																				
SWVB2130	9SE-B/C8 -Inst. 225UC	12	23-Jan-15	0%	12	05-Feb-15	03-Oct-14	18-Oct-14	-91	0																				

■ Actual Work
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											December						January						February						March								
											24	01	08	15	22	29	05	12	19	26	02	09	16	23	02	09	16										
SWVB2140	9SE-B/C8 - Install Geo. Instru. & Baseline Monitoring	30	09-Jun-14 A	0%	30	28-Jan-15	08-Sep-14	18-Oct-14	-84	7	[Gantt bar: Dec 28 - Jan 18]																										
SWVB2150	9SE-B/C8 - Hydroseeding	6	06-Feb-15	0%	6	12-Feb-15	20-Oct-14	25-Oct-14	-91	0	[Gantt bar: Feb 12 - Feb 18]																										
Slope 9SE-B/F9																																					
SWVB3040	9SE-B/F9 - Soil nail 59 nr. (Row A & B)	8	13-Oct-14 A	100%	0	27-Nov-14 A					[Gantt bar: Oct 13 - Oct 21]																										
SWVB3060	9SE-B/F9 - Soil nail 33 nr. (Row C)	8	08-Nov-14 A	100%	0	27-Nov-14 A					[Gantt bar: Nov 08 - Nov 16]																										
SWVB3070	9SE-B/F9 - Raking Drain 4 nr	5	22-Dec-14	0%	5	29-Dec-14	24-Aug-18	29-Aug-18	973	973	[Gantt bar: Dec 22 - Dec 29]																										
SWVB3080	9SE-B/F9 - Excav. to +7.5	8	28-Nov-14 A	100%	0	16-Dec-14 A					[Gantt bar: Nov 28 - Dec 06]																										
SWVB3090	9SE-B/F9 - Inst. 600 width conc. maintenance staircase w/ railings & 450UC	18	22-Dec-14	0%	18	14-Jan-15	24-Sep-14	18-Oct-14	-72	12	[Gantt bar: Dec 22 - Jan 14]																										
SWVB3100	9SE-B/F9 - Inst. 225UC	12	22-Dec-14	0%	12	07-Jan-15	03-Oct-14	18-Oct-14	-66	18	[Gantt bar: Dec 22 - Jan 07]																										
SWVB3110	9SE-B/F9 - Install Geo. Instru. & Baseline Monitoring	30	22-Dec-14	0%	30	28-Jan-15	08-Sep-14	18-Oct-14	-84	0	[Gantt bar: Dec 22 - Jan 28]																										
SWVB3120	9SE-B/F9 - Hydroseeding	6	29-Jan-15	0%	6	04-Feb-15	20-Oct-14	25-Oct-14	-84	0	[Gantt bar: Jan 29 - Feb 04]																										
Slope 9SE-B/F85																																					
SWVB4020	9SE-B/F85 - Filling & forming slope	18	13-Feb-15	0%	18	09-Mar-15	18-Mar-15	14-Apr-15	25	0	[Gantt bar: Feb 13 - Mar 14]																										
SWVB4030	9SE-B/F85 - Form UC	12	10-Mar-15	0%	12	23-Mar-15	02-Oct-15	17-Oct-15	137	0	[Gantt bar: Mar 10 - Mar 22]																										
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	05-Jan-15	07-Nov-14	18-Nov-14	-38	38	[Gantt bar: Sep 03 - Nov 18]																										
RW61010	Realign CTR (West of Abut. C) - Road drainage works	60	08-Jan-15	0%	60	21-Mar-15	07-Nov-14	19-Jan-15	-50	0	[Gantt bar: Jan 21 - Jan 19]																										
RW61020	Realign CTR (West of Abut. C) - Utility diversion	90	09-Mar-15	0%	90	27-Jul-15	06-Jan-15	06-May-15	-50	0	[Gantt bar: Mar 09 - May 06]																										
RW61082	Realign CTR (West of Abut. C) - Road formation	48	20-Nov-14 A	31.25%	33	18-Feb-15	07-Nov-14	15-Dec-14	-53	0	[Gantt bar: Nov 18 - Dec 15]																										
RW61084	Realign CTR (West of Abut. C) - Retaining Wall C1	48	13-Oct-14 A	75%	12	07-Jan-15	21-Oct-14	03-Nov-14	-53	0	[Gantt bar: Oct 13 - Nov 03]																										
East Portion																																					
RW60000	Realign CTR (East of Abut. C) - Site Clearance	54	01-Dec-14 A	18.52%	44	13-Feb-15	27-Jan-15	21-Mar-15	28	80	[Gantt bar: Dec 01 - Mar 21]																										
RW60005	Realign CTR (East of Abut. C) - Road formation	66	06-Mar-15	0%	66	17-Jun-15	31-Dec-14	21-Mar-15	-52	0	[Gantt bar: Mar 17 - Mar 21]																										
RW61086	Realign CTR (East of Abut. C) - Retaining Wall C2	54	22-Nov-14 A	100%	0	22-Nov-14 A					[Gantt bar: Nov 22 - Nov 22]																										
Emergency Gates G6 & G7																																					
RP10070	Construct Expressway Fence /Beam Barriers betw new Gates G6 & G7	24	30-Oct-14 A	25%	18	14-Jan-15	11-Aug-15	04-Sep-15	160	0	[Gantt bar: Oct 30 - Sep 04]																										
RP10080	Construct footings, pavement, kerbing for new gates G6 & G7	30	15-Jan-15	0%	30	18-Feb-15	05-Sep-15	14-Oct-15	160	0	[Gantt bar: Jan 15 - Oct 14]																										
RP10090	Install new gates G6 & G7	24	23-Feb-15	0%	24	21-Mar-15	16-Oct-15	13-Nov-15	160	210	[Gantt bar: Feb 23 - Nov 13]																										
ESS Sub-Station																																					
RP10020	Construct new ESS-C Sub.Stn. adjacent to Viaduct C	48	13-Aug-14 A	75%	12	07-Jan-15	27-Oct-14	08-Nov-14	-48	0	[Gantt bar: Aug 13 - Nov 08]																										
RP10030	Inst.Eqpt. & Testing / commissioning of new ESS	60	08-Jan-15	0%	60	21-Mar-15	10-Nov-14	21-Jan-15	-48	0	[Gantt bar: Jan 21 - Jan 21]																										
Viaduct C Slope Works																																					
Slope 10NW-C/C22																																					
SWVC1000	10NW-C/C22 - Slope works	18	19-Dec-14 A	100%	0	19-Dec-14 A					[Gantt bar: Dec 19 - Dec 19]																										
Slope 10NW-C/C26																																					
SWVC2000	10NW-C/C26 - Slope works	60	19-Dec-14 A	100%	0	19-Dec-14 A					[Gantt bar: Dec 19 - Dec 19]																										
Slope 10NW-C/C27																																					
SWVC3000	10NW-C/C27 - Slope works	24	19-Dec-14 A	100%	0	19-Dec-14 A					[Gantt bar: Dec 19 - Dec 19]																										
Natural Terrain Hazard Mitigation Works																																					
NTHM Works - West Portion																																					
NTW0010	DDA Approval for Natural Terrain Hazard Mitigation Measures	0		0%	0	30-Dec-14		20-Mar-15	58	0	[Milestone: Dec 30]																										
Check Dam no. 1 (CD1)																																					
GFXX497	Predrilling Works for Check Dams	25	31-Dec-14	0%	25	29-Jan-15	23-Mar-15	29-Apr-15	66	0	[Gantt bar: Dec 29 - Apr 29]																										
GFXX499	CD1 - Mobilization of rig for MiniPile	6	23-Jan-15	0%	6	29-Jan-15	22-Apr-15	29-Apr-15	66	0	[Gantt bar: Jan 29 - Apr 29]																										
GFXX500	CD1 - Installation of MiniPile (13nos.)	52	30-Jan-15	0%	52	10-Apr-15	02-May-15	25-Jul-15	66	0	[Gantt bar: Jan 30 - Jul 25]																										

<ul style="list-style-type: none"> ■ Actual Work ■ Planned Bar ■ Critical Bar ◆ Milestone 	Project ID: J3518DWPd1-M19 Layout: J3518-DWP-3MRP Submission - M19 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, no Level of Effort, No Level of Effort.	Tuen Mun - Chek Lap Kok Link - Southern Connection 3-Month Rolling Programme (Page 36 of 36 Pages) (Progress as of 21-Dec-14)	<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>21-Sep-14</td> <td></td> <td></td> <td></td> </tr> <tr> <td>21-Oct-14</td> <td></td> <td></td> <td></td> </tr> <tr> <td>21-Nov-14</td> <td></td> <td>DB</td> <td></td> </tr> <tr> <td>21-Dec-14</td> <td></td> <td></td> <td></td> </tr> </table>	Date	Revision	Checked	Approved	21-Sep-14				21-Oct-14				21-Nov-14		DB		21-Dec-14				DWG. No.: J3518/GCL/PGM/3MRP-M19
Date	Revision	Checked	Approved																					
21-Sep-14																								
21-Oct-14																								
21-Nov-14		DB																						
21-Dec-14																								

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	✓
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			✓
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		<>
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		n/a
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/ detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		<>
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/ detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Recycle/ Reuse all felled trees and vegetation, e.g.	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			↔
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 : 26/11/2014

Sampler

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

Calibration Office and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 24 Mar 2014
 Slope (m) : 2.07593
 Intercept (b) : -0.00102
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1013
 Ta(K) : 296

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.8	3.447	1.661	55	55.19
2 13 holes	9.9	3.157	1.521	50	50.17
3 10 holes	7.2	2.692	1.297	44	44.15
4 7 holes	4.8	2.198	1.059	36	36.12
5 5 holes	2.9	1.709	0.824	29	29.10

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): 30.964 Intercept(b): 3.542 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 02/12/2014

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR9
 Calibrated by : P.F.Yeung
 Date : 26/11/2014

Sampler

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

Calibration Office and Standard Calibration Relationship

Serial Number : 2454
 Service Date : 24 Mar 2014
 Slope (m) : 2.07593
 Intercept (b) : -0.00102
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1013
 Ta(K) : 296

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1 18 holes	11.6	3.417	1.647	55	55.19
2 13 holes	9.7	3.125	1.506	50	50.17
3 10 holes	6.8	2.616	1.261	42	42.14
4 7 holes	4.6	2.152	1.037	35	35.12
5 5 holes	2.8	1.679	0.809	28	28.09

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): 32.249 Intercept(b): 1.767 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan

Date: 02/12/2014



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, 2014 Rootmeter S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 758.19

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	1.4740	3.2	2.00
2	NA	NA	1.00	1.0340	6.4	4.00
3	NA	NA	1.00	0.9240	7.9	5.00
4	NA	NA	1.00	0.8820	8.8	5.50
5	NA	NA	1.00	0.7270	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0103	0.6854	1.4245	0.9958	0.6755	0.8791
1.0061	0.9730	2.0146	0.9916	0.9590	1.2433
1.0040	1.0866	2.2524	0.9895	1.0709	1.3900
1.0028	1.1370	2.3623	0.9884	1.1206	1.4579
0.9976	1.3722	2.8491	0.9832	1.3524	1.7583
Qstd slope (m)	=	2.07593	Qa slope (m)	=	1.29991
intercept (b)	=	-0.00102	intercept (b)	=	-0.00063
coefficient (r)	=	0.99996	coefficient (r)	=	0.99996
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

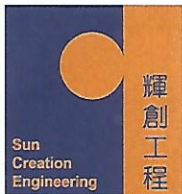
CALCULATIONS

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

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 : 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.

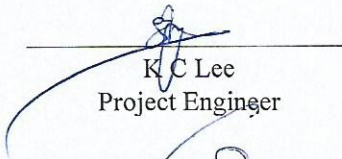
The results are detailed in the subsequent page(s).

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

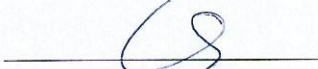
Tested By :

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

輝創工程有限公司 - 校正及檢測實驗室

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



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.

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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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.

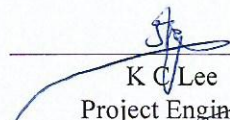
The results are detailed in the subsequent page(s).

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)

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

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.

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

輝創工程有限公司 – 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010 Manufacturer : HACH

Model No. : 2100Q Serial No. : 11110 C 014260

Date of Calibration : 06/10/2014 Due Date : 05/01/2015

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

005/6.1/001/7

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.6	3.00
100	102	2.00
800	790	-1.25

(*) 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 : hw

Checked by : 1266



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 : 07/11/2014 Calibration Due Date : 06/12/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/20
 Temperature of Solution : 20.0 $\Delta\text{pH}_{1/2} = \underline{+0.08}$
 pH value of diluted buffer : 6.79 pH (S) = 6.881
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.091}$ (Observed Deviation)
 Liquid Junction Error (ΔpH_j) = $\Delta\text{pH} - \Delta\text{pH}_{1/2} = \underline{0.011}$

Shift on Stirring

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

Noise

Noise, $\Delta\text{pH}_n = \text{difference between max and min reading} : \underline{0.00}$

Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008
 Temperature record from the reference thermometer (T_R): 19.4 °C
 Temperature record from the ATC (T_{ATC}): 19.3 °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 : 07/12/2014 Calibration Due Date : 06/01/2015

Liquid Junction Error

Primary Standard Solution Used : Phosphate Ref No. of Primary Solution: 003/5.2/001/20
 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, $\Delta\text{pH}_n = \text{difference between max and min reading} : \underline{0.00}$

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 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>17/09/2014</u>	Calibration Due Date : <u>16/12/2014</u>

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/008
Ref. No. of Water Bath : ---

	Temperature (°C)			
	Measured	20.6	Corrected	20.0
Reference Thermometer reading	Measured	20.6	Corrected	20.0
DO Meter reading	Measured	19.8	Difference	0.2

Standardization of sodium thiosulphate (Na₂S₂O₃) solution

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/8	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/001/27
		Trial 1	Trial 2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)		0.00	10.40
Final Vol. of Na ₂ S ₂ O ₃ (ml)		10.40	20.80
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.40	10.40
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02404	0.02404
Average Normality (N) of Na ₂ S ₂ O ₃ solution (N)		0.02404	
Acceptance criteria, Deviation		Less than ± 0.001N	

Calculation: Normality of Na₂S₂O₃, N = 0.25 / ml Na₂S₂O₃ 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 ₂ S ₂ O ₃ (ml)	0.00	11.90	23.60	0.00	6.60	10.10
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.90	23.60	30.20	6.60	10.10	13.60
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.90	11.70	6.60	6.60	3.50	3.50
Dissolved Oxygen (DO), mg/L	7.68	7.55	4.26	4.26	2.26	2.26
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 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	7.71	7.67	7.69	7.68	7.55	7.62	0.91
5	4.20	4.18	4.19	4.26	4.26	4.26	1.66
10	2.36	2.38	2.37	2.26	2.26	2.26	4.75
Linear regression coefficient				0.9988			



Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00
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Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/002/25	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/25
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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	12.20	24.50	35.40
Final Vol. of Na ₂ S ₂ O ₃ (ml)	12.20	24.50	35.40	46.30
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	12.20	12.30	10.90	10.90
Dissolved Oxygen (DO), mg/L	7.87	7.94	7.03	7.03
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 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	7.79	7.81	7.8	7.87	7.94	7.91	1.40
30	6.92	6.94	6.93	7.03	7.03	7.03	1.43

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 : 17/09/2014 Due Date : 16/12/2014

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

S/001/5

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

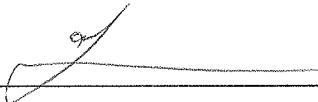
(*) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

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 : 



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>17/12/2014</u>	Calibration Due Date : <u>16/03/2015</u>

Temperature Verification

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

Ref. No. of Water Bath : ---

		Temperature (°C)		
Reference Thermometer reading	Measured	20.0	Corrected	19.4
DO Meter reading	Measured	19.4	Difference	0.0

Standardization of sodium thiosulphate (Na₂S₂O₃) solution

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/9	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/001/32
		Trial 1	Trial 2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)		0.00	10.15
Final Vol. of Na ₂ S ₂ O ₃ (ml)		10.15	20.35
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.15	10.20
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02463	0.02451
Average Normality (N) of Na ₂ S ₂ O ₃ solution (N)		0.02457	
Acceptance criteria, Deviation		Less than ± 0.001N	

Calculation: Normality of Na₂S₂O₃, N = 0.25 / ml Na₂S₂O₃ used

Lineality 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 ₂ S ₂ O ₃ (ml)	0.00	11.40	22.80	0.00	6.60	10.30
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.40	22.80	29.30	6.60	10.30	14.00
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.40	11.40	6.50	6.60	3.70	3.70
Dissolved Oxygen (DO), mg/L	7.52	7.52	4.29	4.35	2.44	2.44
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 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	7.61	7.20	7.41	7.52	7.52	7.52	1.47
5	4.28	4.75	4.52	4.29	4.35	4.32	4.52
10	2.50	2.49	2.50	2.44	2.44	2.44	2.43
Linear regression coefficient				0.9978			



Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00
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Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/002/29	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/29
-----------------------------	--------------------	-----------------------------	--------------------

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	23.80	34.40
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.90	23.80	34.40	44.90
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.90	11.90	10.60	10.50
Dissolved Oxygen (DO), mg/L	7.85	7.85	6.99	6.93
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 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	7.68	7.78	7.73	7.85	7.85	7.85	1.54
30	6.88	6.89	6.89	6.99	6.93	6.96	1.01

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 : 17/12/2014 Due Date : 16/03/2015

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

S/001/5

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.5	1.7


(*) 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)

Certificate of Calibration

校正證書

Certificate No. : C143205
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-1304)

Date of Receipt / 收件日期 : 19 May 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 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

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

TEST SPECIFICATIONS / 測試規範

Calibration check

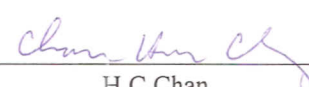
DATE OF TEST / 測試日期 : 26 May 2014

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 : _____
H S Chung
Technician

Certified By : 
核證 : _____
H C Chan
Engineer

Date of Issue : 27 May 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. : C143205
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 10 measurements at each calibration point.
- Test equipment :

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

- Test procedure : MA130N.
- Results :

Air Velocity

Applied Value (m/s)	UUT Reading (m/s)	Measured Correction		
		Value (m/s)	Measurement Uncertainty	
			Expanded Uncertainty (m/s)	Coverage Factor
2.1	1.8	+0.3	0.2	2.0
4.1	4.0	+0.1	0.3	2.0
6.1	6.1	0.0	0.3	2.0
8.2	8.4	-0.2	0.3	2.0
10.1	10.4	-0.3	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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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 (December 14)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec
		WQM Mid-Ebb 9:17 (07:32 - 11:02) Mid-Flood 15:52 (14:07 - 17:37)		WQM Mid-Ebb 11:17 (09:32 - 13:02) Mid-Flood 17:04 (15:19 - 18:49)		WQM Mid-Ebb 12:55 (11:10 - 14:40) Mid-Flood 18:12 (16:27 - 19:57)
07-Dec	08-Dec	09-Dec	10-Dec	11-Dec	12-Dec	13-Dec
		WQM Mid-Flood 9:34 (07:49 - 11:19) Mid-Ebb 14:47 (13:02 - 16:32)		WQM Mid-Flood 10:51 (09:06 - 12:36) Mid-Ebb 16:00 (14:15 - 17:45)		WQM Mid-Flood 12:18 (10:33 - 14:03) Mid-Ebb 17:42 (15:57 - 19:27)
14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec
		WQM Mid-Ebb 7:20 (05:35 - 09:05) Mid-Flood 14:36 (12:51 - 16:21)		WQM Mid-Ebb 10:04 (08:19 - 11:49) Mid-Flood 15:49 (14:04 - 17:34)		WQM Mid-Ebb 11:48 (10:03 - 13:33) Mid-Flood 17:08 (15:23 - 18:53)
21-Dec	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec
		WQM Mid-Flood 8:39 (06:54 - 10:24) Mid-Ebb 14:06 (12:21 - 15:51)		WQM Mid-Flood 10:07 (08:22 - 11:52) Mid-Ebb 15:39 (13:54 - 17:24)		WQM Mid-Flood 11:42 (09:57 - 13:27) Mid-Ebb 17:31 (15:46 - 19:16)
28-Dec	29-Dec	30-Dec	31-Dec	01-Jan	02-Jan	03-Jan
		WQM Mid-Ebb 7:28 (05:43 - 09:13) Mid-Flood 14:23 (12:38 - 16:08)				

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				01-Jan	02-Jan	03-Jan
				WQM Mid-Ebb 10:12 (08:27 - 11:57) Mid-Flood 15:56 (14:11 - 17:41)		WQM Mid-Ebb 12:02 (10:17 - 13:47) Mid-Flood 17:15 (15:30 - 19:00)
04-Jan	05-Jan	06-Jan	07-Jan	08-Jan	09-Jan	10-Jan
		WQM Mid-Flood 8:35 (06:50 - 10:20) Mid-Ebb 13:49 (12:04 - 15:34)		WQM Mid-Flood 9:35 (07:50 - 11:20) Mid-Ebb 14:52 (13:07 - 16:37)		WQM Mid-Flood 10:31 (08:46 - 12:16) Mid-Ebb 16:01 (14:16 - 17:46)
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
		WQM Mid-Flood 12:26 (10:41 - 14:11) Mid-Ebb 18:52 (17:07 - 20:37)		WQM Mid-Ebb 7:45 (06:00 - 09:30) Mid-Flood 14:04 (12:19 - 15:49)		WQM Mid-Ebb 10:37 (08:52 - 12:22) Mid-Flood 15:50 (14:05 - 17:35)
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
		WQM Mid-Ebb 13:06 (11:21 - 14:51) Mid-Flood 18:19 (16:34 - 20:04)		WQM Mid-Flood 9:00 (07:15 - 10:45) Mid-Ebb 14:35 (12:50 - 16:20)		WQM Mid-Flood 10:19 (08:34 - 12:04) Mid-Ebb 16:08 (14:23 - 17:53)
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
		WQM Mid-Flood 12:33 (10:48 - 14:18) Mid-Ebb 19:18 (17:33 - 21:03)		WQM Mid-Ebb 8:27 (06:42 - 10:12) Mid-Flood 14:22 (12:37 - 16:07)		WQM Mid-Ebb 11:11 (09:30 - 12:50) Mid-Flood 16:18 (14:33 - 18:03)

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

Alternative Noise Monitoring at Pak Mong Village Entrance Pavilion

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec
		(Monitoring cancelled due to rejection of access to the monitoring station)				
07-Dec	08-Dec	09-Dec	10-Dec	11-Dec	12-Dec	13-Dec
	Noise Impact Monitoring			Noise Impact Monitoring		
14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec
			Noise Impact Monitoring			
21-Dec	22-Dec	23-Dec	24-Dec	Holiday 25-Dec	Holiday 26-Dec	27-Dec
		Noise Impact Monitoring				
28-Dec	29-Dec	30-Dec	31-Dec			
	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 31 December 2014)**

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec
		1-hr TSP Monitoring 24-hr TSP Monitoring (Monitoring at Pak Mong Watch Tower cancelled due to rejection of access to the monitoring station)				
07-Dec	08-Dec	09-Dec	10-Dec	11-Dec	12-Dec	13-Dec
	1-hr TSP Monitoring 24-hr TSP Monitoring			1-hr TSP Monitoring 24-hr TSP Monitoring		
14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec
			1-hr TSP Monitoring 24-hr TSP Monitoring			
21-Dec	22-Dec	23-Dec	24-Dec	Holiday 25-Dec	Holiday 26-Dec	27-Dec
		1-hr TSP Monitoring 24-hr TSP Monitoring				
28-Dec	29-Dec	30-Dec	31-Dec			
	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 January 2015)**

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				Holiday 01-Jan	02-Jan	03-Jan
					Noise Impact Monitoring	
04-Jan	05-Jan	06-Jan	07-Jan	08-Jan	09-Jan	10-Jan
			Noise Impact Monitoring			
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
		Noise Impact Monitoring				
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
	Noise Impact Monitoring			Noise Impact Monitoring		
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
			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 31 January 2015)**

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				Holiday 01-Jan	02-Jan	03-Jan
					1-hr TSP Monitoring 24-hr TSP Monitoring	
04-Jan	05-Jan	06-Jan	07-Jan	08-Jan	09-Jan	10-Jan
			1-hr TSP Monitoring 24-hr TSP Monitoring			
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
		1-hr TSP Monitoring 24-hr TSP Monitoring				
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
	1-hr TSP Monitoring 24-hr TSP Monitoring			1-hr TSP Monitoring 24-hr TSP Monitoring		
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
			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
Impact Dolphin Monitoring Survey Schedule (1 December to 31 December 2014)**

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

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 January 2015)**

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

Appendix G

Impact Air Quality
Monitoring Results and
Graphical Presentation

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

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)		
TMCLKL	HY/2012/07	2014-12-02	ASR8A	8:33	1-hr TSP	94	394	500		
TMCLKL	HY/2012/07	2014-12-02	ASR8A	9:35	1-hr TSP	73				
TMCLKL	HY/2012/07	2014-12-02	ASR8A	10:37	1-hr TSP	81				
TMCLKL	HY/2012/07	2014-12-08	ASR8A	9:30	1-hr TSP	74				
TMCLKL	HY/2012/07	2014-12-08	ASR8A	10:32	1-hr TSP	63				
TMCLKL	HY/2012/07	2014-12-08	ASR8A	11:34	1-hr TSP	66				
TMCLKL	HY/2012/07	2014-12-11	ASR8A	8:22	1-hr TSP	188				
TMCLKL	HY/2012/07	2014-12-11	ASR8A	9:24	1-hr TSP	124				
TMCLKL	HY/2012/07	2014-12-11	ASR8A	10:26	1-hr TSP	113				
TMCLKL	HY/2012/07	2014-12-17	ASR8A	8:15	1-hr TSP	218				
TMCLKL	HY/2012/07	2014-12-17	ASR8A	9:17	1-hr TSP	145				
TMCLKL	HY/2012/07	2014-12-17	ASR8A	10:19	1-hr TSP	298				
TMCLKL	HY/2012/07	2014-12-23	ASR8A	8:25	1-hr TSP	137				
TMCLKL	HY/2012/07	2014-12-23	ASR8A	9:27	1-hr TSP	89				
TMCLKL	HY/2012/07	2014-12-23	ASR8A	10:29	1-hr TSP	101				
TMCLKL	HY/2012/07	2014-12-29	ASR8A	8:40	1-hr TSP	69				
TMCLKL	HY/2012/07	2014-12-29	ASR8A	9:42	1-hr TSP	102				
TMCLKL	HY/2012/07	2014-12-29	ASR8A	10:44	1-hr TSP	161				
				Average		122				
				Min.		63				
				Max.		298				

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8 / 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	2014-12-08	ASR9	9:40	1-hr TSP	112	393	500		
TMCLKL	HY/2012/07	2014-12-08	ASR9	10:42	1-hr TSP	96				
TMCLKL	HY/2012/07	2014-12-08	ASR9	11:44	1-hr TSP	116				
TMCLKL	HY/2012/07	2014-12-11	ASR9	8:33	1-hr TSP	232				
TMCLKL	HY/2012/07	2014-12-11	ASR9	9:35	1-hr TSP	171				
TMCLKL	HY/2012/07	2014-12-11	ASR9	10:37	1-hr TSP	195				
TMCLKL	HY/2012/07	2014-12-17	ASR9	8:26	1-hr TSP	135				
TMCLKL	HY/2012/07	2014-12-17	ASR9	9:28	1-hr TSP	188				
TMCLKL	HY/2012/07	2014-12-17	ASR9	10:30	1-hr TSP	132				
TMCLKL	HY/2012/07	2014-12-23	ASR9	8:36	1-hr TSP	117				
TMCLKL	HY/2012/07	2014-12-23	ASR9	9:38	1-hr TSP	108				
TMCLKL	HY/2012/07	2014-12-23	ASR9	10:40	1-hr TSP	144				
TMCLKL	HY/2012/07	2014-12-29	ASR9	8:52	1-hr TSP	103				
TMCLKL	HY/2012/07	2014-12-29	ASR9	9:54	1-hr TSP	107				
TMCLKL	HY/2012/07	2014-12-29	ASR9	10:56	1-hr TSP	100				
				Average		137				
				Min.		96				
				Max.		232				

* TSP monitoring at ASR8 on 2 December was cancelled due to the rejection of access to the monitoring station.

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

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-12-02	ASR8A	11:39	24-hr TSP	63	178	260
TMCLKL	HY/2012/07	2014-12-08	ASR8A	12:34	24-hr TSP	63		
TMCLKL	HY/2012/07	2014-12-11	ASR8A	12:28	24-hr TSP	99		
TMCLKL	HY/2012/07	2014-12-17	ASR8A	11:21	24-hr TSP	72		
TMCLKL	HY/2012/07	2014-12-23	ASR8A	11:31	24-hr TSP	86		
TMCLKL	HY/2012/07	2014-12-29	ASR8A	11:46	24-hr TSP	64		
						Average	75	
						Min.	63	
						Max.	99	

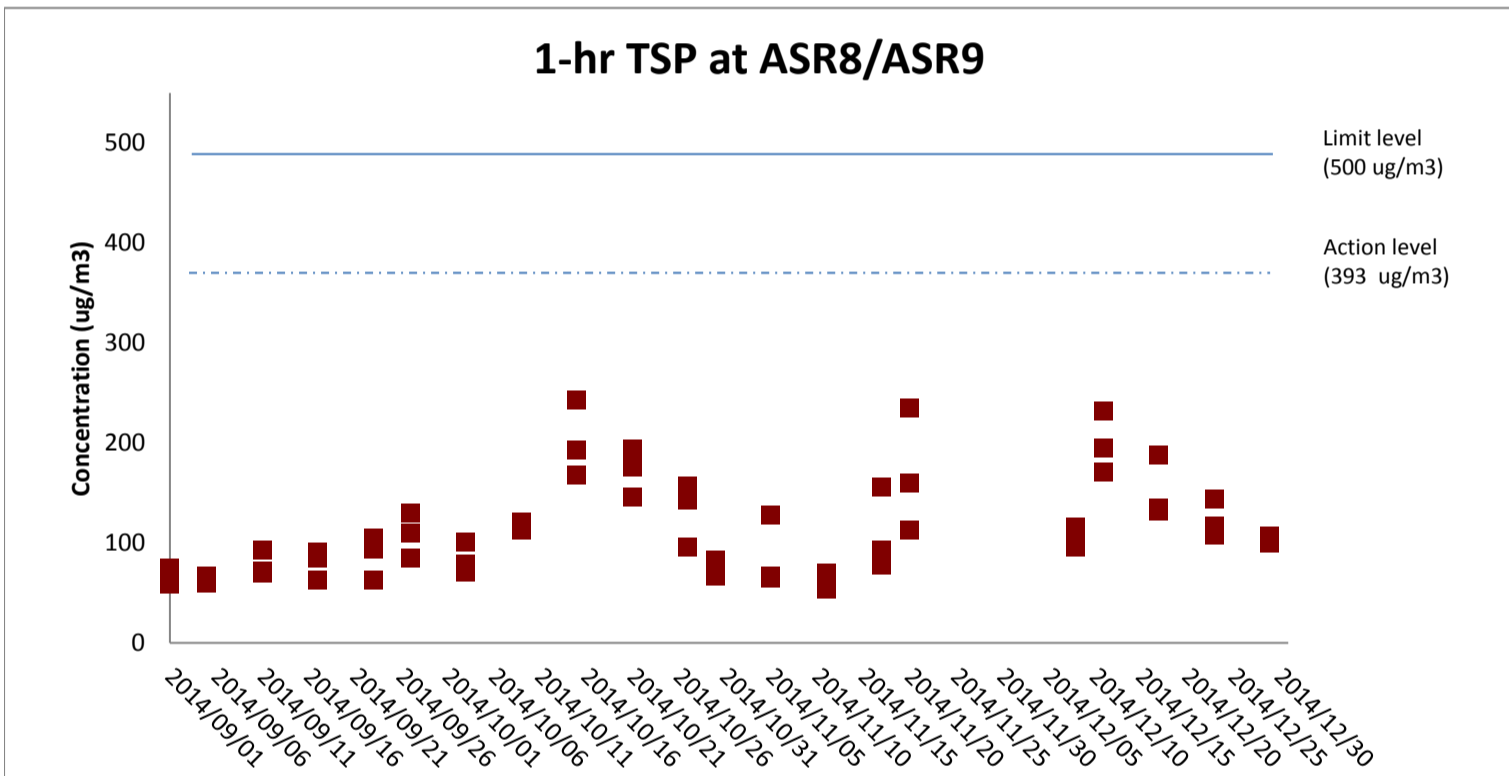
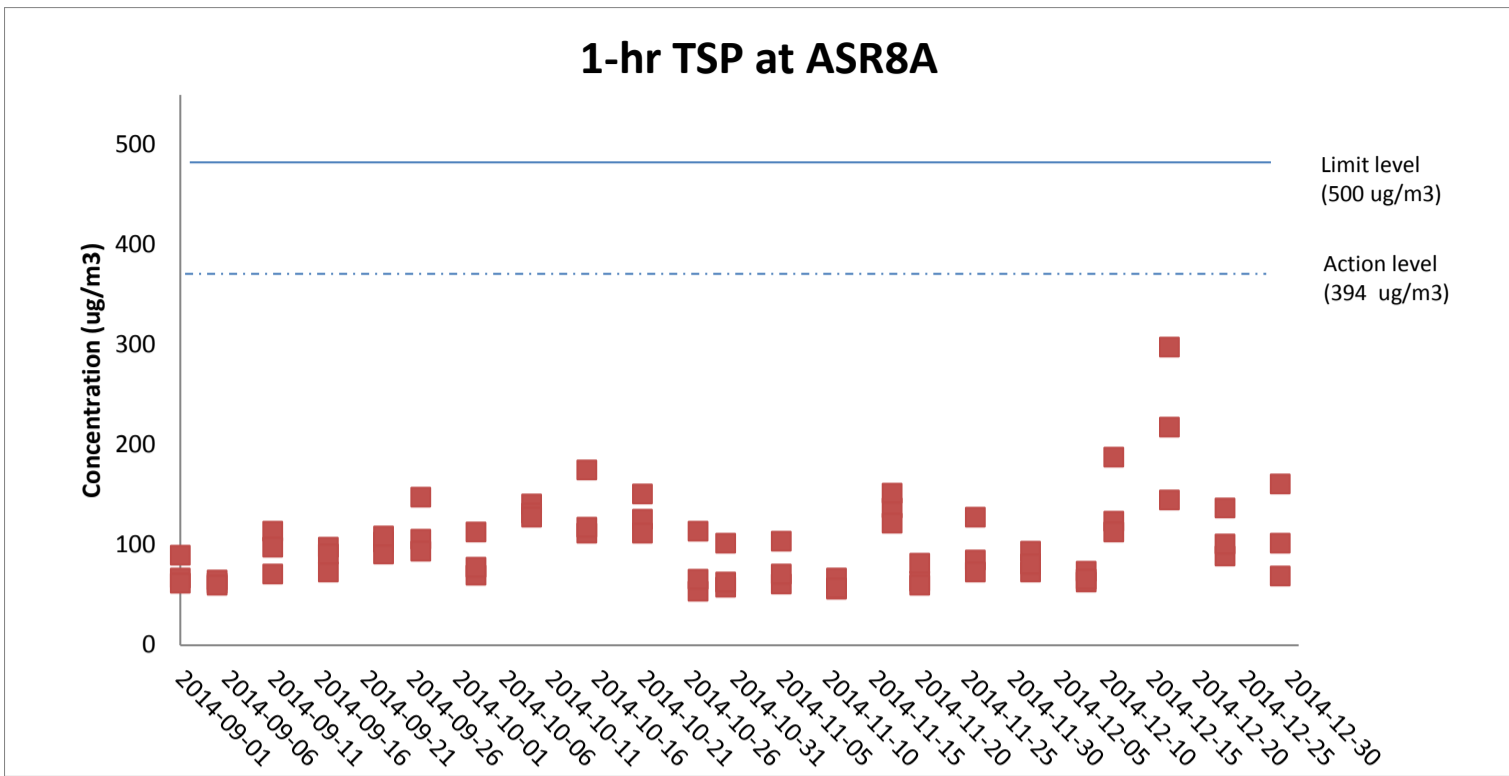
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8 /ASR9

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	2014-12-08	ASR9	12:46	24-hr TSP	95	178	260
TMCLKL	HY/2012/07	2014-12-11	ASR9	11:39	24-hr TSP	133		
TMCLKL	HY/2012/07	2014-12-17	ASR9	11:32	24-hr TSP	106		
TMCLKL	HY/2012/07	2014-12-23	ASR9	11:42	24-hr TSP	88		
TMCLKL	HY/2012/07	2014-12-29	ASR9	11:58	24-hr TSP	68		
						Average	98	
						Min.	68	
						Max.	133	

Action Level Exceedance

Limit Level Exceedance

* TSP monitoring at ASR8 on 2 December was cancelled due to the rejection of access to the monitoring station.

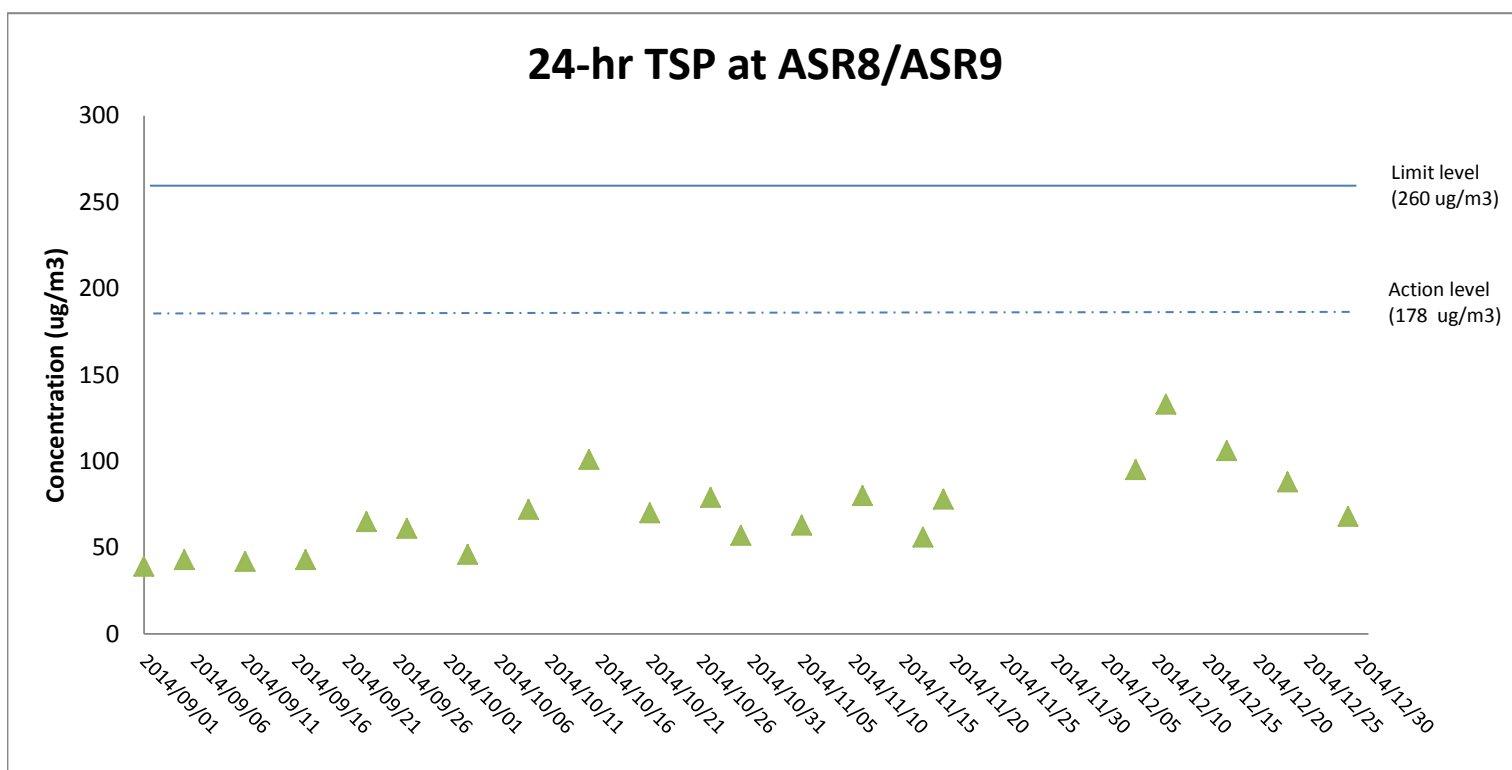
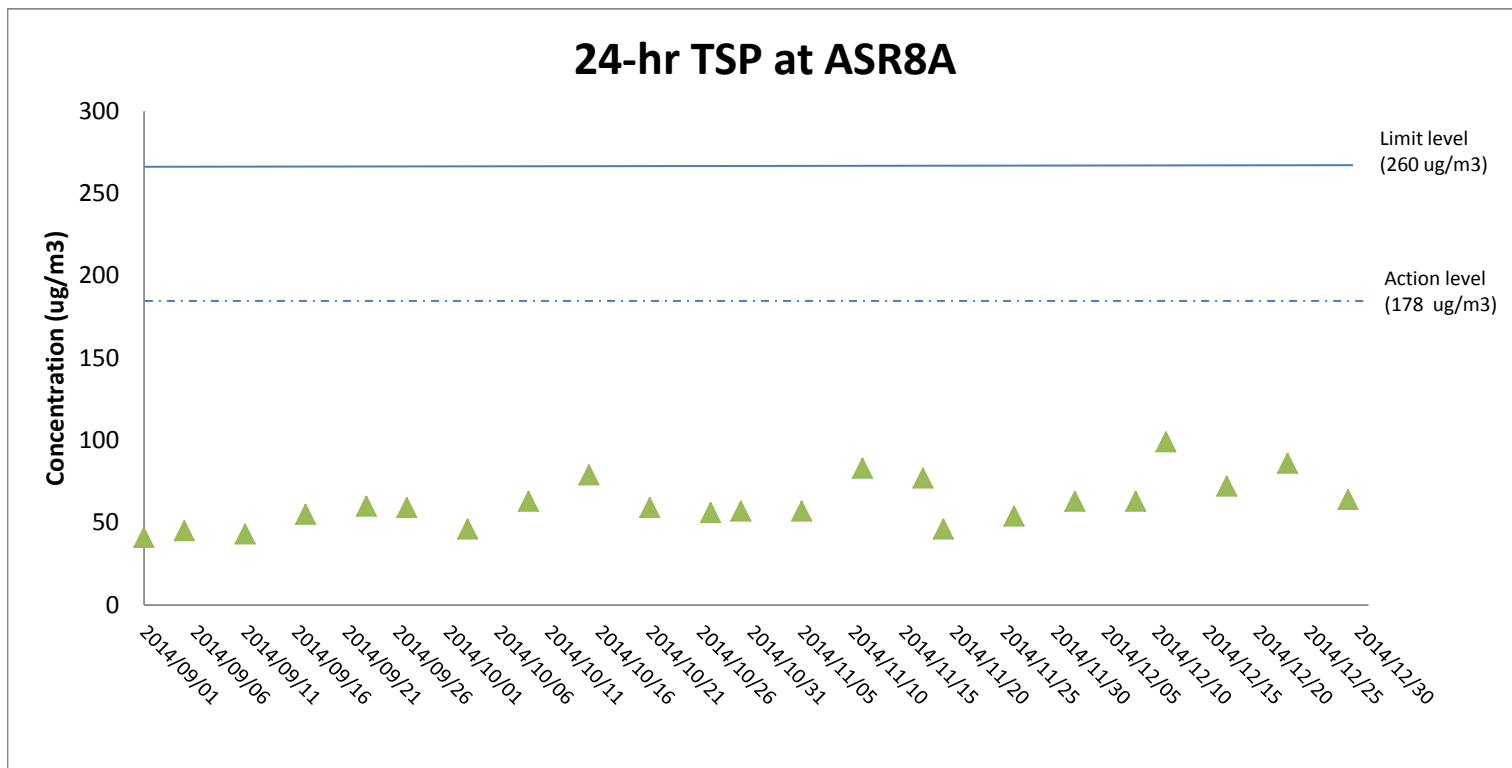


Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Construction of pile cap superstructure of Viaduct B; Channel reconstruction at Area 1; Land Piling at Viaducts B, C & D; Pre-drilling works at Viaduct A; Construction of pile cap at Viaducts B & D; Additional land GI, trial pits & lab testing; Utility surveys; and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction of Pile caps at Viaducts B and E; Marine piling platform installation for Viaducts A, B, C, D & E; Marine Piling at Viaducts B, C, D & E; and Additional marine ground investigation (GI) and laboratory testing.

TSP monitoring at ASR8 on 26 November and 2 December were cancelled due to rejection of access to monitoring station.



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

Major construction works undertaken within the reporting period include Construction of pile cap superstructure of Viaduct B; Channel re-construction at Area 1; Land Piling at Viaducts B, C & D; Pre-drilling works at Viaduct A; Construction of pile cap at Viaducts B & D; Additional land GI, trial pits & lab testing; Utility surveys; and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction of Pile caps at Viaducts B and E; Marine piling platform installation for Viaducts A, B, C, D & E; Marine Piling at Viaducts B, C, D & E; and Additional marine ground investigation (GI) and laboratory testing.

TSP monitoring at ASR8 on 26 November and 2 December were cancelled due to rejection of access to monitoring station.

Appendix H

Meteorological Data for the Reporting Month

Date	Time (hr)	Wind Speed (m/s)	Wind Direction (deg)
08-12-2014	7:00	0.09	114
08-12-2014	8:00	0.19	177
08-12-2014	9:00	0.20	172
08-12-2014	10:00	0.04	276
08-12-2014	11:00	0.16	248
08-12-2014	12:00	0.07	237
08-12-2014	13:00	0.10	192
08-12-2014	14:00	0.05	175
08-12-2014	15:00	0.13	269
08-12-2014	16:00	0.23	232
08-12-2014	17:00	0.58	190
08-12-2014	18:00	0.92	196
08-12-2014	19:00	0.98	193
08-12-2014	20:00	0.33	180
08-12-2014	21:00	0.24	179
08-12-2014	22:00	0.06	153
08-12-2014	23:00	0.12	157
09-12-2014	0:00	0.52	108
09-12-2014	1:00	0.42	123
09-12-2014	2:00	0.30	90
09-12-2014	3:00	0.25	84
09-12-2014	4:00	0.10	108
09-12-2014	5:00	0.20	96
09-12-2014	6:00	0.17	149
09-12-2014	7:00	0.13	182
09-12-2014	8:00	0.07	130
09-12-2014	9:00	0.16	212
09-12-2014	10:00	0.11	234
09-12-2014	11:00	0.32	272
09-12-2014	12:00	1.49	166
11-12-2014	7:00	0.72	230
11-12-2014	8:00	0.41	198
11-12-2014	9:00	0.77	279
11-12-2014	10:00	0.53	254
11-12-2014	11:00	0.42	303
11-12-2014	12:00	0.17	274
11-12-2014	13:00	0.07	239
11-12-2014	14:00	0.19	225
11-12-2014	15:00	0.10	207
11-12-2014	16:00	0.30	234
11-12-2014	17:00	0.71	253
11-12-2014	18:00	0.88	331
11-12-2014	19:00	0.86	273
11-12-2014	20:00	0.63	247
11-12-2014	21:00	0.34	296
11-12-2014	22:00	0.60	273
11-12-2014	23:00	0.96	325
12-12-2014	0:00	0.63	302
12-12-2014	1:00	0.54	297
12-12-2014	2:00	1.18	279
12-12-2014	3:00	0.92	335
12-12-2014	4:00	1.25	298

Date	Time (hr)	Wind Speed (m/s)	Wind Direction (deg)
12-12-2014	5:00	0.95	303
12-12-2014	6:00	0.26	204
12-12-2014	7:00	0.87	246
12-12-2014	8:00	0.64	119
12-12-2014	9:00	0.79	282
12-12-2014	10:00	0.99	305
12-12-2014	11:00	0.70	239
12-12-2014	12:00	1.09	222
17-12-2014	7:00	0.99	276
17-12-2014	8:00	0.63	284
17-12-2014	9:00	0.85	315
17-12-2014	10:00	0.47	259
17-12-2014	11:00	0.76	249
17-12-2014	12:00	0.33	247
17-12-2014	13:00	0.57	250
17-12-2014	14:00	0.58	291
17-12-2014	15:00	0.56	255
17-12-2014	16:00	0.23	320
17-12-2014	17:00	0.06	143
17-12-2014	18:00	0.36	158
17-12-2014	19:00	0.28	173
17-12-2014	20:00	0.09	165
17-12-2014	21:00	0.07	154
17-12-2014	22:00	0.07	181
17-12-2014	23:00	0.12	101
18-12-2014	0:00	0.05	131
18-12-2014	1:00	0.06	158
18-12-2014	2:00	0.27	179
18-12-2014	3:00	0.13	157
18-12-2014	4:00	0.02	137
18-12-2014	5:00	0.16	80
18-12-2014	6:00	0.32	47
18-12-2014	7:00	0.35	72
18-12-2014	8:00	0.11	144
18-12-2014	9:00	0.20	278
18-12-2014	10:00	0.13	220
18-12-2014	11:00	0.18	278
18-12-2014	12:00	0.10	318
23-12-2014	7:00	0.03	84
23-12-2014	8:00	0.03	104
23-12-2014	9:00	0.02	183
23-12-2014	10:00	0.11	222
23-12-2014	11:00	0.24	247
23-12-2014	12:00	0.05	239
23-12-2014	13:00	0.07	181
23-12-2014	14:00	0.09	181
23-12-2014	15:00	0.08	228
23-12-2014	16:00	0.03	114
23-12-2014	17:00	0.23	106
23-12-2014	18:00	0.14	71
23-12-2014	19:00	0.09	74
23-12-2014	20:00	0.05	170

Date	Time (hr)	Wind Speed (m/s)	Wind Direction (deg)
23-12-2014	21:00	0.06	65
23-12-2014	22:00	0.03	118
23-12-2014	23:00	0.02	205
24-12-2014	0:00	0.19	200
24-12-2014	1:00	0.02	227
24-12-2014	2:00	0.03	268
24-12-2014	3:00	0.03	245
24-12-2014	4:00	0.02	76
24-12-2014	5:00	0.02	195
24-12-2014	6:00	0.03	189
24-12-2014	7:00	0.05	159
24-12-2014	8:00	0.04	228
24-12-2014	9:00	0.05	176
24-12-2014	10:00	0.03	240
24-12-2014	11:00	0.02	279
24-12-2014	12:00	0.03	250
29-12-2014	7:00	0.28	285
29-12-2014	8:00	0.44	284
29-12-2014	9:00	0.32	249
29-12-2014	10:00	0.27	296
29-12-2014	11:00	0.24	218
29-12-2014	12:00	0.32	242
29-12-2014	13:00	0.07	245
29-12-2014	14:00	0.23	222
29-12-2014	15:00	0.04	288
29-12-2014	16:00	0.92	196
29-12-2014	17:00	0.89	188
29-12-2014	18:00	0.61	170
29-12-2014	19:00	0.96	178
29-12-2014	20:00	0.89	192
29-12-2014	21:00	0.69	207
29-12-2014	22:00	0.70	201
29-12-2014	23:00	0.31	200
30-12-2014	0:00	0.32	187
30-12-2014	1:00	0.18	194
30-12-2014	2:00	0.39	190
30-12-2014	3:00	0.28	198
30-12-2014	4:00	0.21	191
30-12-2014	5:00	0.21	200
30-12-2014	6:00	0.07	211
30-12-2014	7:00	0.03	184
30-12-2014	8:00	0.03	168
30-12-2014	9:00	0.03	162
30-12-2014	10:00	0.09	322
30-12-2014	11:00	0.09	320
30-12-2014	12:00	0.17	292

* Wind speed and wind direction monitoring after 2 December was cancelled due to rejection of entry of monitoring station.

Appendix I

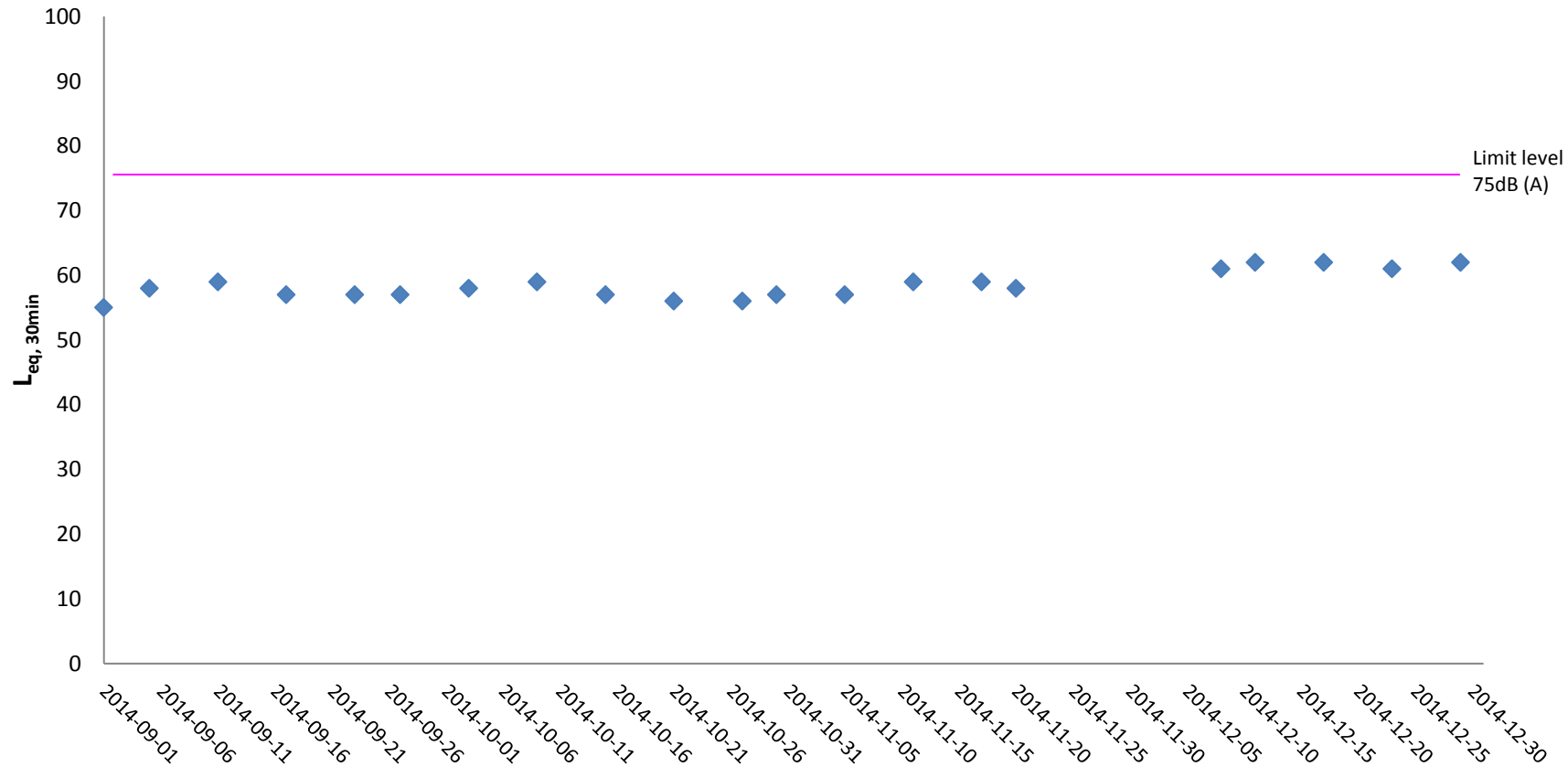
Impact Noise Monitoring Results and Graphical Presentation

Appendix II Noise Monitoring Results

Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Noise Level for 30-min, dB(A)			Limit Level dB(A)	Temp (° C)	Wind Speed (m/s)	Noise Meter Model/ID	Calibrator Model/ID
					Leq	L10	L90					
HY/2012/07	2014-12-08	NSR1A	Cloudy	10:53	61	65	55	75	15	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
HY/2012/07	2014-12-11	NSR1A	Cloudy	9:45	62	65	57	75	18	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
HY/2012/07	2014-12-17	NSR1A	Sunny	9:40	62	64	58	75	12	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
HY/2012/07	2014-12-23	NSR1A	Cloudy	9:50	61	64	55	75	15	0.3	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
HY/2012/07	2014-12-29	NSR1A	Sunny	10:05	62	65	56	75	11	0.2	RION NL31 (S/N 00603867)	RION NC73 (S/N 10997142)
					Min.	61						
					Max.	62						
					Average	62						

* Noise monitoring at NSR1 was cancelled on 2 December due to the rejection of access to the monitoring station.

Noise Monitoring Results at NSR 1/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 of pile cap superstructure of Viaduct B; Channel re-construction at Area 1; Land Piling at Viaducts B, C & D; Pre-drilling works at Viaduct A; Construction of pile cap at Viaducts B & D; Additional land GI, trial pits & lab testing; Utility surveys; and Slope work of Slopes 9SE-B/C8, 9SE-B/C9 & 9SE-B/F9.

Marine works within the reporting period include Construction of Pile caps at Viaducts B and E; Marine piling platform installation for Viaducts A, B, C, D and E; Marine Piling at Viaducts B, C, D & E; and Additional marine ground investigation (GI) and laboratory testing.

Noise monitoring on 26 November and 2 December were cancelled due to rejection of access to monitoring station.

Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	14:07	23.7	7.86	28.5	6.42	5.2	6.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	14:07	23.6	7.85	28.4	6.37	5.17	7.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)5	Middle	5	2	1	14:07	23.7	7.86	28.9	6.21	5.43	7.6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)5	Middle	5	2	2	14:07	23.7	7.86	28.8	6.23	5.31	8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.9	3	1	14:07	23.8	7.86	29	6.15	5.22	6.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.9	3	2	14:07	23.7	7.87	29	6.08	5.16	7.2	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	14:37	23.6	7.86	28.6	6.33	2	6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	14:37	23.7	7.86	28.5	6.39	4.94	6.4	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4a	Middle		2	1	14:37							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4a	Middle		2	2	14:37							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	1	14:37	23.7	7.87	28.8	6.18	5.2	7.3	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	2	14:37	23.6	7.86	28.7	6.12	5.11	7.2	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4	Surface	1	1	1	14:55	23.7	7.82	28.2	6.41	5.18	6.7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4	Surface	1	1	2	14:55	23.7	7.82	28.3	6.48	5.1	6.6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4	Middle		2	1	14:55							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4	Middle		2	2	14:55							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4	Bottom	4	3	1	14:55	23.8	7.81	28.6	6.08	5.77	6.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	SR4	Bottom	4	3	2	14:55	23.9	7.82	28.7	6.06	5.72	8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS8	Surface	1	1	1	15:18	23.6	7.81	28.2	6.51	5.01	6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS8	Surface	1	1	2	15:18	23.7	7.8	28.3	6.46	5.07	7.1	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS8	Middle		2	1	15:18							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS8	Middle		2	2	15:18							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	1	15:18	23.7	7.83	28.5	6.3	5.26	7.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	2	15:18	23.6	7.82	28.6	6.28	5.2	7.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	15:40	23.6	7.82	28.6	6.48	4.7	6.6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	15:40	23.7	7.83	28.5	6.54	4.66	7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)16	Middle	5.2	2	1	15:40	23.7	7.84	28.7	6.21	5.51	7.7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)16	Middle	5.1	2	2	15:40	23.7	7.83	28.7	6.2	5.47	8.2	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)16	Bottom	9.2	3	1	15:40	23.7	7.84	28.9	6.25	5.92	8.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)16	Bottom	9.2	3	2	15:40	23.8	7.84	28.8	6.28	5.86	8.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	16:00	23.8	7.82	28.5	6.42	4.7	6.1	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	16:00	23.7	7.81	28.4	6.45	4.65	6.5	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	16:00							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	16:00							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	1	16:00	23.9	7.83	28.6	6	5.82	8.7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	2	16:00	23.9	7.84	28.5	6.05	5.88	9.4	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	16:30	23.7	7.81	28.6	6.38	4.75	7.1	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	16:30	23.8	7.8	28.6	6.41	4.79	7.2	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.7	2	1	16:30	23.7	7.82	28.8	6.27	5.19	8.3	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.7	2	2	16:30	23.6	7.81	28.7	6.33	5.23	6.3	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.4	3	1	16:30	23.8	7.82	29	6.12	5.25	6.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.4	3	2	16:30	23.9	7.83	28.9	6.18	5.28	7.9	2014-12-03

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	08:30	23.5	7.82	28.8	6.36	4.88	6.3	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	08:30	23.4	7.82	28.9	6.32	4.82	6.3	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.4	2	1	08:30	23.6	7.83	29	6.25	5.36	7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.4	2	2	08:30	23.5	7.82	29	6.21	5.31	6.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.8	3	1	08:30	23.7	7.83	29.1	6.09	5.27	6.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.8	3	2	08:30	23.7	7.83	29	6.05	5.3	6.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	10:30	23.5	7.86	28.8	6.28	4.71	6.1	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	10:30	23.4	7.85	28.8	6.25	4.77	7.2	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4a	Middle		2	1	10:30							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4a	Middle		2	2	10:30							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4a	Bottom	3.8	3	1	10:30	23.5	7.87	29.1	6.09	4.98	7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4a	Bottom	3.8	3	2	10:30	23.4	7.87	29.1	6.05	4.95	6.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	10:10	23.5	7.83	28.6	6.56	5.09	7.1	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	10:10	23.5	7.84	28.5	6.59	5.01	8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4	Middle		2	1	10:10							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4	Middle		2	2	10:10							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4	Bottom	3.6	3	1	10:10	23.7	7.82	28.9	6.18	5.62	8.4	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	SR4	Bottom	3.6	3	2	10:10	23.7	7.83	28.8	6.15	5.66	7.4	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	09:47	23.5	7.83	28.6	6.4	4.89	6.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	09:47	23.4	7.82	28.7	6.37	4.94	6.4	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS8	Middle		2	1	09:47							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS8	Middle		2	2	09:47							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS8	Bottom	3.6	3	1	09:47	23.7	7.84	29	6.22	5.18	7.3	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS8	Bottom	3.6	3	2	09:47	23.7	7.85	29	6.19	5.12	7.2	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	09:25	23.5	7.84	28.8	6.44	4.54	5.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	09:25	23.5	7.84	28.7	6.4	4.5	6.8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.8	2	1	09:25	23.7	7.85	29	6.18	5.44	8.7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.8	2	2	09:25	23.7	7.85	29	6.14	5.4	8.1	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	23.7	3	1	09:25	23.7	7.85	29.1	6.14	5.75	6.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	23.6	3	2	09:25	23.6	7.84	29	6.17	5.7	8.6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	09:00	23.5	7.8	28.7	6.44	4.74	6.6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	09:00	23.4	7.81	28.8	6.39	4.7	6.6	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	09:00							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	09:00							2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	1	09:00	23.6	7.83	28.8	6.12	5.94	7.7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	2	09:00	23.6	7.83	28.8	6.09	5.9	8.3	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	10:48	23.4	7.85	28.8	6.32	4.9	6.4	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	10:48	23.4	7.85	28.9	6.28	4.95	6.9	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	1	10:48	23.6	7.86	29.1	6.11	5.3	8	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	2	10:48	23.6	7.85	29.1	6.15	5.25	8.4	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	1	10:48	23.7	7.86	29.2	6.06	5.14	6.7	2014-12-03
TMCLKL	HY/2012/07	2014-12-02	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	2	10:48	23.7	7.86	29.1	6.02	5.09	8.1	2014-12-03

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	15:19	23.2	7.88	28.7	6.41	5.1	7.3	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	15:19	23.3	7.87	28.8	6.37	5.08	7.3	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)5	Middle	4.7	2	1	15:19	23.3	7.89	28.8	6.28	5.44	7.9	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)5	Middle	4.7	2	2	15:19	23.4	7.88	28.8	6.22	5.39	8.1	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)5	Bottom	8.4	3	1	15:19	23.5	7.9	28.9	6.06	5.32	8.2	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)5	Bottom	8.4	3	2	15:19	23.4	7.9	28.9	6.03	5.29	8.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4a	Surface	1	1	1	15:44	23.3	7.9	28.7	6.27	4.94	7.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4a	Surface	1	1	2	15:44	23.3	7.89	28.8	6.32	4.88	7.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4a	Middle		2	1	15:44							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4a	Middle		2	2	15:44							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4a	Bottom	3.7	3	1	15:44	23.4	7.91	28.9	6.19	5.15	7.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4a	Bottom	3.7	3	2	15:44	23.4	7.91	28.8	6.21	5.07	8.1	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4	Surface	1	1	1	16:07	23.3	7.87	28.4	6.52	5.23	7.8	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4	Surface	1	1	2	16:07	23.2	7.86	28.5	6.55	5.16	7.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4	Middle		2	1	16:07							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4	Middle		2	2	16:07							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4	Bottom	3.5	3	1	16:07	23.4	7.88	28.6	6.01	5.81	8.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	SR4	Bottom	3.5	3	2	16:07	23.4	7.87	28.7	5.97	5.77	8.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS8	Surface	1	1	1	16:29	23.3	7.87	28.5	6.26	5.03	7.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS8	Surface	1	1	2	16:29	23.3	7.87	28.6	6.33	5.07	7.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS8	Middle		2	1	16:29							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS8	Middle		2	2	16:29							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS8	Bottom	3.7	3	1	16:29	23.4	7.89	28.8	6.19	5.3	8.3	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS8	Bottom	3.7	3	2	16:29	23.3	7.88	28.7	6.13	5.25	8.2	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	16:52	23.3	7.88	28.6	6.43	4.71	7.3	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	16:52	23.2	7.89	28.6	6.37	4.68	7.1	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)16	Middle	4.8	2	1	16:52	23.3	7.9	28.7	6.17	5.71	8.8	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)16	Middle	4.8	2	2	16:52	23.4	7.91	28.8	6.11	5.66	8.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)16	Bottom	8.6	3	1	16:52	23.5	7.9	28.9	6.11	5.93	9.1	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)16	Bottom	8.6	3	2	16:52	23.4	7.91	28.8	6.03	5.84	9	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	17:15	23.3	7.87	28.6	6.42	5.01	7.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	17:15	23.2	7.86	28.7	6.4	4.9	7.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	17:15							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	17:15							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)9	Bottom	3.6	3	1	17:15	23.3	7.88	28.8	6.05	6.12	9.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	IS(Mf)9	Bottom	3.6	3	2	17:15	23.4	7.89	28.7	5.98	6.04	9.2	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	17:42	23.2	7.86	28.6	6.12	5.02	7.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	17:42	23.3	7.87	28.6	6.15	4.97	7.6	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)3	Middle	5.3	2	1	17:42	23.3	7.88	28.7	6.08	5.51	8.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)3	Middle	5.3	2	2	17:42	23.3	7.87	28.6	6.05	5.47	8.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)3	Bottom	9.6	3	1	17:42	23.4	7.89	28.8	6.03	5.38	8.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Flood	Fine	CS(Mf)3	Bottom	9.6	3	2	17:42	23.3	7.88	28.8	5.93	5.44	8.2	2014-12-04

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	10:02	23.3	7.88	28.8	6.27	4.94	7.6	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	10:02	23.4	7.89	28.7	6.23	4.88	7.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.2	2	1	10:02	23.4	7.89	28.8	6.16	5.42	8.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.2	2	2	10:02	23.5	7.88	28.9	6.12	5.37	8.6	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.4	3	1	10:02	23.6	7.9	28.9	6	5.33	8.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	9.4	3	2	10:02	23.5	7.89	29	5.96	5.36	8.6	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	12:12	23.3	7.92	28.8	6.34	4.77	6.8	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	12:12	23.2	7.91	28.9	6.31	4.83	7.3	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4a	Middle		2	1	12:12							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4a	Middle		2	2	12:12							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4a	Bottom	3.6	3	1	12:12	23.4	7.94	29.1	6.15	5.04	7.9	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4a	Bottom	3.6	3	2	12:12	23.5	7.93	29.2	6.11	5.01	7.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	11:46	23.5	7.89	28.6	6.47	5.15	7.9	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	11:46	23.4	7.9	28.7	6.5	5.07	7.8	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4	Middle		2	1	11:46							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4	Middle		2	2	11:46							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4	Bottom	3.2	3	1	11:46	23.8	7.88	28.9	6.09	5.68	8.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	SR4	Bottom	3.2	3	2	11:46	23.8	7.89	29	6.06	5.72	9	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	11:20	23.4	7.89	28.7	6.31	4.95	7.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	11:20	23.3	7.88	28.8	6.28	5	7.7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS8	Middle		2	1	11:20							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS8	Middle		2	2	11:20							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS8	Bottom	3.4	3	1	11:20	23.8	7.9	29	6.13	5.24	8.2	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS8	Bottom	3.4	3	2	11:20	23.7	7.91	29.1	6.1	5.18	7.9	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	10:54	23.4	7.9	28.8	6.35	4.6	7	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	10:54	23.3	7.91	28.9	6.31	4.56	7.2	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.7	2	1	10:54	23.6	7.92	29	6.09	5.5	8.5	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.7	2	2	10:54	23.5	7.92	29.1	6.05	5.46	8.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.4	3	1	10:54	23.6	7.91	29.1	6.05	5.81	9.1	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.4	3	2	10:54	23.7	7.92	29.2	6.08	5.76	8.8	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	10:28	23.4	7.86	28.8	6.35	4.8	7.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	10:28	23.3	7.87	28.9	6.31	4.76	7.2	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	10:28							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	10:28							2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.4	3	1	10:28	23.5	7.89	28.9	6.03	6	8.9	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.4	3	2	10:28	23.4	7.9	29	6	5.96	9.2	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	12:42	23.4	7.91	28.9	6.38	4.96	7.6	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	12:42	23.3	7.9	29	6.34	5.01	7.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.6	2	1	12:42	23.5	7.92	29.1	6.17	5.36	8.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.6	2	2	12:42	23.4	7.92	29.2	6.21	5.31	8.6	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.2	3	1	12:42	23.7	7.92	29.2	6.12	5.2	8.4	2014-12-04
TMCLKL	HY/2012/07	2014-12-04	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.2	3	2	12:42	23.6	7.93	29.1	6.08	5.15	8.6	2014-12-04

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	16:27	22.3	7.52	27.3	6.4	4.17	5.8	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	16:27	22.3	7.52	27.4	6.38	4.26	6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.6	2	1	16:27	22.3	7.56	27.4	6.42	4.53	5.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.6	2	2	16:27	22.4	7.55	27.5	6.44	4.58	5.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.2	3	1	16:27	22.4	7.53	27.7	6.21	4.83	6.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.2	3	2	16:27	22.4	7.54	27.7	6.24	4.87	5.8	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	16:50	22.3	7.4	27	6.33	4.54	6.4	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	16:50	22.3	7.39	27.1	6.32	4.56	6.8	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4a	Middle		2	1	16:50							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4a	Middle		2	2	16:50							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4a	Bottom	4	3	1	16:50	22.3	7.43	27.2	6.41	4.82	6.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4a	Bottom	4	3	2	16:50	22.4	7.44	27.1	6.45	4.85	5.8	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4	Surface	1	1	1	17:13	22.3	7.08	26.6	6.51	4.85	6.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4	Surface	1	1	2	17:13	22.2	7.08	26.6	6.47	4.87	7.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4	Middle		2	1	17:13							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4	Middle		2	2	17:13						7.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4	Bottom	3.8	3	1	17:13	22.3	7.11	26.7	6.41	5	6.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	SR4	Bottom	3.8	3	2	17:13	22.3	7.12	26.8	6.38	5.04	7.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS8	Surface	1	1	1	17:36	22.2	7.18	27.7	6.34	4.77	6.2	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS8	Surface	1	1	2	17:36	22.3	7.18	27.6	6.31	4.8	6.7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS8	Middle		2	1	17:36							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS8	Middle		2	2	17:36							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS8	Bottom	4.4	3	1	17:36	22.3	7.23	27.8	6.42	4.99	6.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS8	Bottom	4.4	3	2	17:36	22.3	7.22	27.8	6.4	5.02	7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	17:59	22.2	7.21	27.7	6.23	4.55	5.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	17:59	22.1	7.21	27.7	6.26	4.58	7.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.6	2	1	17:59	22.2	7.2	27.8	6.3	4.74	6.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.6	2	2	17:59	22.3	7.19	27.6	6.32	4.78	5.7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.2	3	1	17:59	22.3	7.27	27.8	6.37	5.14	7.2	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.2	3	2	17:59	22.4	7.26	27.9	6.38	5.08	7.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	18:22	22.2	7.12	27.5	6.14	4.74	6.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	18:22	22.1	7.12	27.6	6.16	4.79	6.2	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	18:22							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	18:22							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	1	18:22	22.2	7.18	27.6	5.89	4.94	6.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	2	18:22	22.3	7.17	27.7	5.9	4.97	7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	18:48	22.1	7.36	27.8	6.46	5.28	6.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	18:48	22.2	7.37	27.8	6.43	5.32	8	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.9	2	1	18:48	22.2	7.35	27.8	6.41	5	6.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.9	2	2	18:48	22.2	7.34	27.9	6.39	5.03	7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.8	3	1	18:48	22.2	7.37	28	6.33	5.79	9.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.8	3	2	18:48	22.3	7.37	28	6.3	5.83	7.6	2014-12-06

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	11:40	22.4	7.38	27.9	6.37	5.39	7.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	11:40	22.4	7.39	28	6.34	5.46	8.7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.7	2	1	11:40	22.4	7.35	28	6.3	5.08	7.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.7	2	2	11:40	22.4	7.36	28	6.27	5.13	6.7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.4	3	1	11:40	22.4	7.38	28.1	6.24	5.87	8.2	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.4	3	2	11:40	22.5	7.39	28.1	6.21	5.96	8.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	13:12	22.4	7.4	27.1	6.25	4.62	6.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	13:12	22.4	7.41	27.2	6.21	4.69	7.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4a	Middle		2	1	13:12							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4a	Middle		2	2	13:12							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4a	Bottom	3.6	3	1	13:12	22.4	7.44	27.3	6.34	4.9	6.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4a	Bottom	3.6	3	2	13:12	22.4	7.45	27.3	6.37	4.98	7.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	12:56	22.4	7.09	26.7	6.4	4.93	6.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	12:56	22.4	7.1	26.8	6.36	5.01	6.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4	Middle		2	1	12:56							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4	Middle		2	2	12:56							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4	Bottom	3.4	3	1	12:56	22.4	7.12	26.8	6.3	5.16	7.7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	SR4	Bottom	3.4	3	2	12:56	22.4	7.13	26.9	6.32	5.22	7.8	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	12:40	22.3	7.19	27.8	6.27	4.89	6.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	12:40	22.4	7.2	27.8	6.23	4.95	7.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS8	Middle		2	1	12:40							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS8	Middle		2	2	12:40							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS8	Bottom	4	3	1	12:40	22.4	7.23	27.8	6.31	5.08	7.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS8	Bottom	4	3	2	12:40	22.4	7.24	27.9	6.34	5.14	7.7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	12:20	22.3	7.22	27.8	6.15	4.62	5.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	12:20	22.3	7.23	27.7	6.18	4.7	6.1	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.4	2	1	12:20	22.3	7.2	27.8	6.21	4.82	6.8	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.4	2	2	12:20	22.4	7.21	27.8	6.23	4.89	6.4	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.8	3	1	12:20	22.4	7.28	27.9	6.27	5.23	7.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.8	3	2	12:20	22.4	7.27	28	6.29	5.16	7.7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	12:01	22.3	7.13	27.7	6.08	4.86	6.3	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	12:01	22.4	7.14	27.6	5.99	4.92	7.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	12:01							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	12:01							2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.2	3	1	12:01	22.4	7.18	27.7	5.78	5.03	7	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.2	3	2	12:01	22.4	7.19	27.8	5.81	5.09	7.1	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	13:35	22.4	7.53	27.4	6.32	4.29	5.6	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	13:35	22.4	7.54	27.5	6.29	4.34	6.1	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	1	13:35	22.4	7.56	27.5	6.35	4.6	6.4	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	2	13:35	22.4	7.57	27.6	6.38	4.67	6.5	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	1	13:35	22.4	7.54	27.8	6.16	4.92	6.9	2014-12-06
TMCLKL	HY/2012/07	2014-12-06	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	2	13:35	22.5	7.55	27.9	6.11	4.99	7	2014-12-06

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	08:19	21.2	8.04	28.1	7.7	7.42	9.6	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	08:19	21.3	8.05	28	7.73	7.34	9.5	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	1	08:19	21.4	8.03	28.2	7.66	7	10.5	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)5	Middle	5.2	2	2	08:19	21.3	8.04	28.1	7.63	7.06	11.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)5	Bottom	9.4	3	1	08:19	21.3	8.06	28.2	7.56	6.75	8.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)5	Bottom	9.4	3	2	08:19	21.3	8.07	28.3	7.58	6.7	9.4	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4a	Surface	1	1	1	08:45	21.2	8.06	28	7.58	7.65	11.5	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4a	Surface	1	1	2	08:45	21.2	8.05	28.1	7.55	7.27	9.5	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4a	Middle		2	1	08:45							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4a	Middle		2	2	08:45							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4a	Bottom	4	3	1	08:45	21.3	8.07	28.1	7.44	6.4	9.6	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4a	Bottom	4	3	2	08:45	21.2	8.06	28.2	7.47	6.68	8.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4	Surface	1	1	1	09:11	21.1	8.09	28.1	7.64	5.95	8.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4	Surface	1	1	2	09:11	21.2	8.08	28.2	7.6	5.27	6.9	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4	Middle		2	1	09:11							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4	Middle		2	2	09:11							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4	Bottom	3.6	3	1	09:11	21.2	8.08	28.3	7.53	4.8	7.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	SR4	Bottom	3.6	3	2	09:11	21.1	8.05	28.2	7.5	5.12	8.2	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS8	Surface	1	1	1	09:37	21.2	8.1	28.2	7.5	5.59	7.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS8	Surface	1	1	2	09:37	21.2	8.11	28.1	7.54	5.66	7.9	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS8	Middle		2	1	09:37							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS8	Middle		2	2	09:37							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS8	Bottom	3.8	3	1	09:37	21.2	8.1	28.2	7.43	5.75	8.1	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS8	Bottom	3.8	3	2	09:37	21.1	8.09	28.2	7.39	5.82	8.1	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	10:03	21.1	8.06	28.1	7.66	5.74	8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	10:03	21.2	8.07	28.2	7.62	5.65	6.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)16	Middle	4.4	2	1	10:03	21.3	8.1	28.2	7.56	5.87	7.6	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)16	Middle	4.4	2	2	10:03	21.2	8.11	28.1	7.53	5.93	8.9	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)16	Bottom	7.8	3	1	10:03	21.3	8.07	28.2	7.32	6.33	8.2	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)16	Bottom	7.8	3	2	10:03	21.3	8.08	28.3	7.35	6.41	7.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	10:29	21.2	8.06	28	7.75	6.58	8.6	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	10:29	21.2	8.07	27.9	7.78	6.66	8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	10:29							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	10:29							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)9	Bottom	4	3	1	10:29	21.1	8.04	28.1	7.52	6.79	9.5	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	IS(Mf)9	Bottom	4	3	2	10:29	21.2	8.05	28	7.56	6.86	10.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	10:59	21.2	8.04	28.1	8.1	6.72	8.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	10:59	21.1	8.05	28	8.04	6.8	10.2	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)3	Middle	6.2	2	1	10:59	21.2	8.05	28.2	7.86	6.45	9.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)3	Middle	6.2	2	2	10:59	21.2	8.06	28.1	7.79	6.4	7.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)3	Bottom	11.4	3	1	10:59	21.3	8.07	28.2	7.63	7.15	8.6	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Flood	Fine	CS(Mf)3	Bottom	11.4	3	2	10:59	21.2	8.08	28.3	7.66	7.23	9.4	2014-12-11

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	13:02	21.2	8.1	28.2	8.04	6.81	10.2	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	13:02	21.3	8.11	28.2	7.98	6.89	10.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	1	13:02	21.3	8.11	28.2	7.8	6.54	7.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)3	Middle	5.9	2	2	13:02	21.3	8.12	28.3	7.73	6.49	9.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.8	3	1	13:02	21.3	8.13	28.3	7.57	7.24	10.9	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.8	3	2	13:02	21.4	8.14	28.4	7.6	7.33	8.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4a	Surface	1	1	1	14:42	21.3	8.12	28.1	7.52	7.74	10.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4a	Surface	1	1	2	14:42	21.3	8.11	28.2	7.49	7.36	10.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4a	Middle		2	1	14:42							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4a	Middle		2	2	14:42							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4a	Bottom	3.6	3	1	14:42	21.3	8.13	28.2	7.38	6.49	10.4	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4a	Bottom	3.6	3	2	14:42	21.3	8.12	28.3	7.41	6.77	8.1	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4	Surface	1	1	1	14:23	21.3	8.15	28.3	7.58	6.04	9.1	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4	Surface	1	1	2	14:23	21.3	8.14	28.3	7.54	5.36	9.1	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4	Middle		2	1	14:23							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4	Middle		2	2	14:23							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4	Bottom	3.4	3	1	14:23	21.3	8.14	28.2	7.47	4.89	7.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	SR4	Bottom	3.4	3	2	14:23	21.3	8.11	28.3	7.44	5.21	7.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS8	Surface	1	1	1	14:07	21.3	8.16	28.3	7.44	5.68	7.4	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS8	Surface	1	1	2	14:07	21.2	8.15	28.3	7.48	5.75	8.1	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS8	Middle		2	1	14:07							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS8	Middle		2	2	14:07							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS8	Bottom	3.6	3	1	14:07	21.3	8.16	28.3	7.37	5.84	7.6	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS8	Bottom	3.6	3	2	14:07	21.3	8.17	28.3	7.33	5.91	7.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	13:46	21.3	8.12	28.2	7.6	5.83	8.2	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	13:46	21.3	8.13	28.3	7.56	5.74	7.5	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)16	Middle	4.2	2	1	13:46	21.3	8.16	28.3	7.5	5.96	8.9	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)16	Middle	4.2	2	2	13:46	21.3	8.17	28.3	7.47	6.02	7.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.4	3	1	13:46	21.3	8.13	28.4	7.26	6.42	10.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.4	3	2	13:46	21.4	8.14	28.4	7.29	6.5	9.8	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	13:27	21.3	8.12	28.1	7.69	6.67	8.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	13:27	21.2	8.13	28.1	7.72	6.75	10.1	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	13:27							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	13:27							2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.8	3	1	13:27	21.3	8.1	28.1	7.46	6.88	8.9	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.8	3	2	13:27	21.3	8.11	28.2	7.5	6.95	9.7	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	15:10	21.3	8.1	28.1	7.64	7.51	11.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	15:10	21.4	8.11	28.2	7.67	7.43	10.4	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	1	15:10	21.3	8.09	28.2	7.6	7.09	10.6	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)5	Middle	5	2	2	15:10	21.3	8.1	28.3	7.57	7.15	10	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	1	15:10	21.3	8.12	28.3	7.5	6.84	10.3	2014-12-11
TMCLKL	HY/2012/07	2014-12-09	Mid-Ebb	Fine	CS(Mf)5	Bottom	9	3	2	15:10	21.4	8.13	28.4	7.52	6.79	8.8	2014-12-11

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	09:36	21.2	8.08	28	7.84	7.31	9.5	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	09:36	21.3	8.09	27.9	7.81	7.37	10.3	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.1	2	1	09:36	21.3	8.05	28.1	7.77	7.04	9.2	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.1	2	2	09:36	21.3	8.06	28.1	7.74	6.98	10.5	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.1	3	1	09:36	21.3	8.1	28.1	7.7	7.13	10.7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.1	3	2	09:36	21.3	8.11	28.2	7.68	7.18	10.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	10:03	21.2	8.06	27.9	7.78	7.56	10.6	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	10:03	21.2	8.07	27.9	7.75	7.62	11.4	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4a	Middle		2	1	10:03							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4a	Middle		2	2	10:03							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4a	Bottom	4	3	1	10:03	21.2	8.08	27.9	7.59	6.93	11.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4a	Bottom	4	3	2	10:03	21.3	8.09	28	7.61	6.85	9.6	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4	Surface	1	1	1	10:20	21.2	8.09	27.9	7.76	5.87	8.8	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4	Surface	1	1	2	10:20	21.2	8.1	27.9	7.73	5.76	8.6	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4	Middle		2	1	10:20							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4	Middle		2	2	10:20							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4	Bottom	3.8	3	1	10:20	21.2	8.11	27.9	7.65	5.34	7.5	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	SR4	Bottom	3.8	3	2	10:20	21.3	8.12	28	7.61	5.43	8.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS8	Surface	1	1	1	10:38	21.2	8.11	27.9	7.68	5.95	9.5	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS8	Surface	1	1	2	10:38	21.1	8.1	28	7.65	5.89	7.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS8	Middle		2	1	10:38							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS8	Middle		2	2	10:38							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	1	10:38	21.2	8.12	28	7.6	5.59	6.7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS8	Bottom	4.2	3	2	10:38	21.2	8.13	28	7.57	5.52	7.7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	10:55	21.2	8.07	28	7.71	5.78	8.7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	10:55	21.2	8.08	28	7.7	5.85	9.4	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.4	2	1	10:55	21.2	8.04	28.1	7.74	5.63	9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.4	2	2	10:55	21.2	8.05	28.1	7.75	5.68	8	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.8	3	1	10:55	21.2	8.1	28.1	7.5	6.23	8.7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.8	3	2	10:55	21.3	8.09	28.2	7.46	6.3	8.8	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	11:19	21.2	8.06	27.8	7.74	5.81	7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	11:19	21.1	8.07	27.7	7.7	5.89	8.8	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	11:19							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	11:19							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	1	11:19	21.1	8.08	27.8	7.63	5.69	9.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	2	11:19	21.1	8.09	27.8	7.6	5.75	6.9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	11:43	21.1	8.08	27.8	7.86	5.92	8.3	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	11:43	21.1	8.09	27.9	7.82	5.99	9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.1	2	1	11:43	21.1	8.11	27.9	7.79	5.76	8.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.1	2	2	11:43	21.2	8.12	27.9	7.77	5.81	9.3	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.2	3	1	11:43	21.2	8.13	28	7.48	6.27	9.4	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.2	3	2	11:43	21.3	8.14	28.1	7.43	6.34	7.6	2014-12-12

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	14:15	21.1	8.14	27.9	7.77	5.98	7.8	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	14:15	21.2	8.15	28	7.73	6.05	7.9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.9	2	1	14:15	21.3	8.17	28	7.7	5.82	8.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.9	2	2	14:15	21.2	8.18	28.1	7.68	5.87	7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.8	3	1	14:15	21.3	8.19	28.2	7.39	6.33	8.9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.8	3	2	14:15	21.4	8.2	28.1	7.34	6.4	9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	16:25	21.2	8.12	27.9	7.69	7.62	9.9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	16:25	21.3	8.13	28	7.66	7.68	10.8	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4a	Middle		2	1	16:25							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4a	Middle		2	2	16:25							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4a	Bottom	3.8	3	1	16:25	21.4	8.14	28	7.5	6.99	8.4	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4a	Bottom	3.8	3	2	16:25	21.3	8.15	28.1	7.52	6.91	10.4	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	15:59	21.1	8.15	27.9	7.67	5.93	7.7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	15:59	21	8.16	28	7.64	5.82	8.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4	Middle		2	1	15:59							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4	Middle		2	2	15:59							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4	Bottom	3.4	3	1	15:59	21.2	8.17	28.1	7.56	5.4	7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	SR4	Bottom	3.4	3	2	15:59	21.2	8.18	28	7.52	5.49	7.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	15:33	21.2	8.17	28	7.59	6.01	7.2	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	15:33	21.3	8.16	28.1	7.56	5.95	8.9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS8	Middle		2	1	15:33							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS8	Middle		2	2	15:33							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS8	Bottom	3.8	3	1	15:33	21.2	8.18	28.1	7.51	5.65	7.9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS8	Bottom	3.8	3	2	15:33	21.3	8.19	28.2	7.48	5.58	7.9	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	15:07	21.1	8.13	28	7.62	5.84	8.2	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	15:07	21.2	8.14	28.1	7.61	5.91	8.3	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.2	2	1	15:07	21.2	8.1	28.2	7.65	5.69	7.4	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.2	2	2	15:07	21.3	8.11	28.1	7.66	5.74	9.2	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.4	3	1	15:07	21.4	8.16	28.2	7.41	6.29	8.8	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.4	3	2	15:07	21.3	8.15	28.3	7.37	6.36	10.2	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	14:41	21.2	8.12	27.8	7.65	5.87	7.6	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	14:41	21.3	8.13	27.9	7.61	5.95	8.3	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	14:41							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	14:41							2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.2	3	1	14:41	21.2	8.14	27.9	7.54	5.75	9.2	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4.2	3	2	14:41	21.3	8.15	28	7.51	5.81	7.6	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	16:55	21.4	8.14	28	7.75	7.37	9.6	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	16:55	21.3	8.15	28.1	7.72	7.43	10.4	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	1	16:55	21.4	8.11	28.3	7.68	7.1	10.7	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	2	16:55	21.4	8.12	28.2	7.65	7.04	9.2	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	1	16:55	21.5	8.16	28.3	7.61	7.19	10.1	2014-12-12
TMCLKL	HY/2012/07	2014-12-11	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	2	16:55	21.4	8.17	28.3	7.59	7.24	9.4	2014-12-12

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	11:03	21.1	7.99	28	7.9	6.22	9.4	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	11:03	21.2	8	28.1	7.87	6.28	9.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.3	2	1	11:03	21.3	7.96	28.2	7.83	6.95	10.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.3	2	2	11:03	21.4	7.97	28.1	7.8	6.89	10.3	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.6	3	1	11:03	21.5	8.01	28.2	7.76	7.04	10.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9.6	3	2	11:03	21.4	8.02	28.3	7.74	7.09	11.1	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	11:29	21	7.97	27.9	7.84	6.47	10	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	11:29	21.1	7.98	28	7.81	6.53	9.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4a	Middle		2	1	11:29							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4a	Middle		2	2	11:29							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4a	Bottom	4.2	3	1	11:29	21.2	7.99	28.2	7.65	6.84	10.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4a	Bottom	4.2	3	2	11:29	21.3	8	28.1	7.67	6.76	10.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4	Surface	1	1	1	11:55	21	8	27.9	7.82	4.78	7.7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4	Surface	1	1	2	11:55	21.1	8.01	28	7.79	4.67	7.3	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4	Middle		2	1	11:55							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4	Middle		2	2	11:55							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4	Bottom	4.2	3	1	11:55	21.6	8.02	28.1	7.71	5.25	8.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	SR4	Bottom	4.2	3	2	11:55	21.3	8.03	28	7.67	5.34	8.8	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS8	Surface	1	1	1	12:21	21.1	8.02	28.1	7.74	4.86	7.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS8	Surface	1	1	2	12:21	21.1	8.01	28	7.71	4.8	7.7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS8	Middle		2	1	12:21							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS8	Middle		2	2	12:21							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS8	Bottom	4.4	3	1	12:21	21.2	8.03	28.1	7.66	5.5	8.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS8	Bottom	4.4	3	2	12:21	21.3	8.04	28.2	7.63	5.43	8.7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	12:47	21	7.98	28	7.77	3.69	5.7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	12:47	21.1	7.99	28.1	7.76	3.76	5.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.6	2	1	12:47	21.3	7.95	28.2	7.8	4.54	7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.6	2	2	12:47	21.2	7.96	28.1	7.81	4.59	7.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.2	3	1	12:47	21.3	8.01	28.2	7.56	5.14	7.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.2	3	2	12:47	21.3	8	28.3	7.52	5.21	8.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	13:13	21.1	7.97	27.7	7.8	3.72	5.8	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	13:13	21	7.98	27.8	7.76	3.8	5.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	13:13							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	13:13							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	1	13:13	21.2	7.99	27.9	7.69	4.6	7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.6	3	2	13:13	21.2	8	27.8	7.66	4.66	7.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	13:43	21	7.99	27.9	7.92	3.83	5.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	13:43	20.9	8	28	7.88	3.9	6.1	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	1	13:43	21.1	8.02	28	7.85	4.67	7.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	2	13:43	21.2	8.03	28.1	7.83	4.72	7.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	1	13:43	21.3	8.04	28.2	7.54	5.18	8.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	2	13:43	21.2	8.05	28.3	7.49	5.25	8.4	2014-12-13

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	16:05	21	8.01	28	7.84	3.94	7.8	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	16:05	21.1	8.02	28.1	7.8	4.03	7.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)3	Middle	6.4	2	1	16:05	21.1	8.04	28.1	7.77	4.66	6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)3	Middle	6.4	2	2	16:05	21.1	8.05	28.1	7.75	4.6	6.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.8	3	1	16:05	21.2	8.06	28.2	7.6	5.21	7.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)3	Bottom	11.8	3	2	16:05	21.3	8.07	28.3	7.58	5.29	7.4	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4a	Surface	1	1	1	18:05	21.1	7.97	28	7.91	6.44	9.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4a	Surface	1	1	2	18:05	21.2	7.98	28.1	7.88	6.37	10.1	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4a	Middle		2	1	18:05							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4a	Middle		2	2	18:05							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4a	Bottom	4.6	3	1	18:05	21.2	7.99	28.1	7.8	6.69	10.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4a	Bottom	4.6	3	2	18:05	21.2	8	28.2	7.76	6.73	10.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4	Surface	1	1	1	17:43	21.1	7.98	27.9	7.72	4.94	7.8	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4	Surface	1	1	2	17:43	21.1	7.99	28	7.69	4.88	7.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4	Middle		2	1	17:43							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4	Middle		2	2	17:43							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4	Bottom	4.4	3	1	17:43	21.1	7.99	28	7.6	5.61	8.8	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	SR4	Bottom	4.4	3	2	17:43	21.2	8	28	7.62	5.54	8.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS8	Surface	1	1	1	17:20	21.1	8.01	28.1	7.77	4.79	7.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS8	Surface	1	1	2	17:20	21.2	8.02	28	7.75	4.84	7.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS8	Middle		2	1	17:20							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS8	Middle		2	2	17:20							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS8	Bottom	4.6	3	1	17:20	21.2	8.02	28.1	7.67	5.72	9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS8	Bottom	4.6	3	2	17:20	21.2	8.03	28.1	7.64	5.68	8.8	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	16:55	21.1	8	28.1	7.67	3.94	6.1	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	16:55	21.1	8.01	28.1	7.64	4.04	6.3	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)16	Middle	4.8	2	1	16:55	21.1	8.02	28.1	7.7	4.48	6.9	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)16	Middle	4.8	2	2	16:55	21.2	8.03	28.2	7.73	4.55	7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.6	3	1	16:55	21.2	8.04	28.3	7.62	5.39	8.4	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)16	Bottom	8.6	3	2	16:55	21.3	8.05	28.3	7.59	5.46	8.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	16:33	21.1	7.99	27.9	7.69	4.16	6.4	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	16:33	21.1	8	28	7.65	4.09	6.2	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	16:33							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	16:33							2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.8	3	1	16:33	21.1	8.01	28	7.57	4.93	6.4	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.8	3	2	16:33	21.2	8.02	28	7.54	5.01	6.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	18:30	21.2	7.93	28.1	7.98	6.34	9.8	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	18:30	21.2	7.94	28.1	7.94	6.4	9.6	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)5	Middle	5.4	2	1	18:30	21.3	7.91	28.2	7.9	6.75	10.5	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)5	Middle	5.4	2	2	18:30	21.3	7.92	28.2	7.88	6.81	10.4	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.8	3	1	18:30	21.5	7.97	28.3	7.81	6.97	10.7	2014-12-13
TMCLKL	HY/2012/07	2014-12-13	Mid-Ebb	Fine	CS(Mf)5	Bottom	9.8	3	2	18:30	21.5	7.98	28.4	7.79	7.02	11	2014-12-13

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	12:51	21	8.05	28.1	7.96	6.13	8.6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	12:51	21.1	8.06	28.2	7.93	6.19	8.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.7	2	1	12:51	21.3	8.02	28.3	7.89	6.86	8.9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)5	Middle	5.7	2	2	12:51	21.2	8.03	28.2	7.86	6.8	10.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)5	Bottom	10.4	3	1	12:51	21.4	8.07	28.3	7.82	7.1	10.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)5	Bottom	10.4	3	2	12:51	21.3	8.08	28.4	7.8	7.15	10.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	13:17	21	8.03	28	7.9	5.38	8.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	13:17	20.9	8.04	28.1	7.87	5.44	7.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4a	Middle		2	1	13:17							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4a	Middle		2	2	13:17							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	1	13:17	21.1	8.05	28.2	7.71	6.75	10.8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	2	13:17	21.2	8.06	28.3	7.73	6.67	10	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4	Surface	1	1	1	13:43	20.9	8.06	28.1	7.88	5.69	8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4	Surface	1	1	2	13:43	21	8.07	28	7.85	5.58	8.4	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4	Middle		2	1	13:43							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4	Middle		2	2	13:43							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4	Bottom	4.8	3	1	13:43	21.3	8.08	28.3	7.77	6.16	8.6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	SR4	Bottom	4.8	3	2	13:43	21.2	8.09	28.2	7.73	6.25	8.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS8	Surface	1	1	1	14:09	21	8.08	28.1	7.8	5.77	8.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS8	Surface	1	1	2	14:09	20.9	8.07	28.2	7.77	5.71	8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS8	Middle		2	1	14:09							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS8	Middle		2	2	14:09							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS8	Bottom	4.6	3	1	14:09	21.2	8.09	28.3	7.72	6.41	9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS8	Bottom	4.6	3	2	14:09	21.2	8.1	28.4	7.69	6.34	8.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	14:35	21	8.04	28.2	7.83	4.6	6.9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	14:35	21.1	8.05	28.1	7.82	4.67	6.9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.7	2	1	14:35	21.2	8.01	28.4	7.86	5.45	8.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.7	2	2	14:35	21.1	8.02	28.3	7.87	5.5	7.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.4	3	1	14:35	21.2	8.07	28.4	7.62	6.14	8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)16	Bottom	8.4	3	2	14:35	21.3	8.06	28.4	7.58	6.12	9.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	15:01	21.1	8.03	27.8	7.86	4.63	6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	15:01	21.1	8.04	27.9	7.82	4.71	6.6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	15:01							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	15:01							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	1	15:01	21.2	8.05	28	7.75	5.51	7.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	2	15:01	21.3	8.06	27.9	7.72	5.57	7.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	15:31	20.9	8.05	28	7.98	4.74	7.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	15:31	20.8	8.06	28.1	7.94	4.81	6.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.4	2	1	15:31	21	8.08	28.3	7.91	5.58	8.9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.4	2	2	15:31	21.1	8.09	28.2	7.89	5.63	7.3	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.8	3	1	15:31	21.4	8.1	28.3	7.6	6.09	7.9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.8	3	2	15:31	21.3	8.11	28.3	7.55	6.14	9.2	2014-12-16

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	07:30	20.8	7.96	28	7.89	4.8	6.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	07:30	20.7	7.97	27.9	7.85	4.87	7.3	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)3	Middle	6.1	2	1	07:30	21	7.99	28.1	7.82	5.64	9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)3	Middle	6.1	2	2	07:30	20.9	8	28.2	7.8	5.69	8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	11.2	3	1	07:30	21.2	8.01	28.3	7.51	6.15	8.6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	11.2	3	2	07:30	21.3	8.02	28.2	7.46	6.2	8.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	08:40	20.8	7.94	27.9	7.81	5.44	7.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	08:40	20.9	7.95	28	7.78	5.5	7.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4a	Middle		2	1	08:40							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4a	Middle		2	2	08:40							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4a	Bottom	4	3	1	08:40	21.1	7.86	28.2	7.62	6.8	10.9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4a	Bottom	4	3	2	08:40	21	7.97	28.1	7.64	6.73	8.8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	08:26	20.9	7.97	28	7.79	5.78	8.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	08:26	20.9	7.98	27.9	7.76	5.67	9.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4	Middle		2	1	08:26							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4	Middle		2	2	08:26							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4	Bottom	4.4	3	1	08:26	21.2	7.99	28.1	7.68	6.25	7.5	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	SR4	Bottom	4.4	3	2	08:26	21.1	8	28.2	7.64	6.31	9.5	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	08:12	20.8	7.99	28.1	7.71	5.86	9.4	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	08:12	20.9	7.98	28.1	7.68	5.77	8.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS8	Middle		2	1	08:12							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS8	Middle		2	2	08:12							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS8	Bottom	4.2	3	1	08:12	21	8	28.2	7.63	6.5	9.8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS8	Bottom	4.2	3	2	08:12	21.1	8.01	28.3	7.6	6.43	9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	07:58	21	7.95	28	7.74	4.66	5.6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	07:58	21.1	7.96	28.1	7.73	4.73	6.6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.4	2	1	07:58	21.2	7.92	28.2	7.77	5.41	7.6	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.4	2	2	07:58	21.1	7.93	28.1	7.78	5.56	7.8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.8	3	1	07:58	21.2	7.98	28.3	7.53	6.2	8.7	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.8	3	2	07:58	21.1	7.97	28.2	7.49	6.18	8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	07:44	20.9	7.94	27.8	7.77	4.69	6.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	07:44	21	7.95	27.7	7.73	4.77	6.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	07:44							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	07:44							2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	1	07:44	21.2	7.96	27.9	7.66	5.57	7.2	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	2	07:44	21.1	7.97	27.8	7.63	5.63	6.8	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	08:54	21	7.96	28	7.87	6.21	8.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	08:54	20.9	7.97	28.1	7.84	6.25	8.1	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)5	Middle	5.5	2	1	08:54	21.1	7.93	28.2	7.8	6.92	9	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)5	Middle	5.5	2	2	08:54	21.2	7.94	28.3	7.77	6.88	11	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	9.9	3	1	08:54	21.2	7.98	28.3	7.73	7.17	9.3	2014-12-16
TMCLKL	HY/2012/07	2014-12-16	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	9.9	3	2	08:54	21.3	7.99	28.2	7.71	7.22	10.1	2014-12-16

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	14:04	19.9	7.74	28.5	7.63	6.44	9.7	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	14:04	19.9	7.76	28.6	7.65	6.42	8.3	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)5	Middle	5	2	1	14:04	20	7.63	28.7	7.53	6.58	9.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)5	Middle	5	2	2	14:04	20.1	7.65	28.8	7.51	6.56	10.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9	3	1	14:04	20.1	7.82	29	7.37	7	9.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)5	Bottom	9	3	2	14:04	20.2	7.8	28.9	7.39	6.98	9.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	14:25	19.8	7.63	28.4	7.56	6.63	9.3	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	14:25	19.9	7.65	28.5	7.58	6.65	9.3	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4a	Middle		2	1	14:25							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4a	Middle		2	2	14:25							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4a	Bottom	4.1	3	1	14:25	20	7.81	28.6	7.44	6.81	9.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4a	Bottom	4.1	3	2	14:25	20.1	7.83	28.7	7.46	6.83	9.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4	Surface	1	1	1	14:47	19.8	7.76	28.4	7.43	6.55	8.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4	Surface	1	1	2	14:47	19.9	7.78	28.5	7.41	6.53	10.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4	Middle		2	1	14:47							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4	Middle		2	2	14:47							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4	Bottom	4.1	3	1	14:47	20	7.63	28.6	7.35	6.72	8.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	SR4	Bottom	4.1	3	2	14:47	20.1	7.65	28.7	7.37	6.7	8.7	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS8	Surface	1	1	1	15:09	19.7	7.63	28.5	7.51	6.33	10.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS8	Surface	1	1	2	15:09	19.8	7.65	28.6	7.53	6.31	8.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS8	Middle		2	1	15:09							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS8	Middle		2	2	15:09							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS8	Bottom	4	3	1	15:09	19.9	7.72	28.7	7.46	6.6	9.9	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS8	Bottom	4	3	2	15:09	20	7.7	28.8	7.48	6.58	9.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	15:30	19.9	7.64	28.6	7.61	6.64	8.6	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	15:30	20	7.66	28.5	7.63	6.62	9.3	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.3	2	1	15:30	20	7.72	28.7	7.48	6.71	8.7	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.3	2	2	15:30	20.1	7.74	28.8	7.46	6.69	10	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.5	3	1	15:30	20.2	7.85	28.8	7.23	6.94	9	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.5	3	2	15:30	20.1	7.83	28.9	7.25	6.96	10.4	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	16:00	19.8	7.69	28.5	7.69	6.8	8.8	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	16:00	19.9	7.71	28.4	7.68	6.77	9.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	16:00							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	16:00							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.3	3	1	16:00	20	7.81	28.6	7.55	6.94	11.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.3	3	2	16:00	19.9	7.83	28.7	7.53	6.96	9.7	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	16:30	19.8	7.74	28.4	7.76	6.93	9.7	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	16:30	19.7	7.76	28.4	7.78	6.95	9	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)3	Middle	6	2	1	16:30	19.7	7.83	28.5	7.63	6.88	9	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)3	Middle	6	2	2	16:30	20	7.81	28.6	7.65	6.9	11	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.9	3	1	16:30	20.1	7.67	28.7	7.5	7.01	9.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.9	3	2	16:30	20	7.69	28.8	7.48	7.03	10.5	2014-12-18

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	09:32	19.9	8.07	28.3	7.63	7.08	9.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	09:32	19.9	8.08	28.4	7.6	7.02	10.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.8	2	1	09:32	19.9	8.04	28.4	7.55	6.78	9.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.8	2	2	09:32	20	8.05	28.4	7.52	6.84	8.9	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.6	3	1	09:32	20.1	8.06	28.5	7.34	7.41	10.4	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.6	3	2	09:32	20.1	8.07	28.6	7.39	7.47	11.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	11:09	20	8.08	28.4	7.48	6.86	9.6	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	11:09	19.9	8.09	28.5	7.44	6.79	10.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4a	Middle		2	1	11:09							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4a	Middle		2	2	11:09							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4a	Bottom	3.8	3	1	11:09	20	8.09	28.5	7.39	6.94	8.3	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4a	Bottom	3.8	3	2	11:09	20	8.1	28.5	7.41	7	10.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	10:51	19.9	8.11	28.5	7.31	6.61	7.9	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	10:51	19.9	8.12	28.6	7.27	6.68	9.4	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4	Middle		2	1	10:51							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4	Middle		2	2	10:51							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	1	10:51	19.9	8.08	28.6	7.39	6.87	8.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	2	10:51	20	8.09	28.6	7.36	6.8	10.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	10:33	19.9	8.09	28.4	7.38	6.49	8.4	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	10:33	20	8.1	28.5	7.34	6.55	8.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS8	Middle		2	1	10:33							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS8	Middle		2	2	10:33							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS8	Bottom	3.8	3	1	10:33	20	8.07	28.5	7.41	6.75	10.8	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS8	Bottom	3.8	3	2	10:33	20	8.08	28.6	7.43	6.81	9.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	10:12	19.9	8.07	28.4	7.44	6.78	9.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	10:12	19.9	8.08	28.4	7.41	6.72	8.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.1	2	1	10:12	19.9	8.05	28.4	7.35	6.84	10.3	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.1	2	2	10:12	20	8.06	28.5	7.32	6.9	10.4	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.2	3	1	10:12	20.1	8.07	28.6	7.18	7.05	9.2	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.2	3	2	10:12	20.1	8.08	28.6	7.15	7	9.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	09:54	19.9	8.04	28.4	7.58	6.92	8.3	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	09:54	20	8.05	28.5	7.54	6.97	9.1	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	09:54							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	09:54							2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	1	09:54	20	8.06	28.5	7.48	7.13	10	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	2	09:54	20	8.07	28.5	7.45	7.19	10.8	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	11:32	19.9	8.11	28.5	7.59	6.62	8.6	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	11:32	19.9	8.1	28.6	7.56	6.69	8.7	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	1	11:32	19.9	8.08	28.6	7.5	6.76	9.5	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.9	2	2	11:32	20	8.09	28.8	7.47	6.83	9.6	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	1	11:32	20	8.12	28.7	7.23	7.09	10.6	2014-12-18
TMCLKL	HY/2012/07	2014-12-18	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.8	3	2	11:32	20.1	8.13	28.8	7.18	7.16	8.6	2014-12-18

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	15:23	19.9	8.19	28.8	7.53	6.52	7.8	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	15:23	19.9	8.18	28.7	7.5	6.63	8.6	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.8	2	1	15:23	19.9	8.17	28.8	7.48	6.76	10.1	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.8	2	2	15:23	20	8.16	28.9	7.44	6.81	10.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.6	3	1	15:23	20	8.21	29.2	7.21	6.94	10.4	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.6	3	2	15:23	20.1	8.22	29.1	7.13	6.92	9.7	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	15:49	19.9	8.16	28.8	7.45	6.86	9.6	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	15:49	19.9	8.17	28.9	7.42	6.82	10.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4a	Middle		2	1	15:49							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4a	Middle		2	2	15:49							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	1	15:49	20.1	8.18	28.8	7.38	6.92	10.4	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	2	15:49	20.1	8.19	28.9	7.39	6.94	9.7	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4	Surface	1	1	1	16:15	19.9	8.19	28.9	7.25	6.59	7.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4	Surface	1	1	2	16:15	19.8	8.2	28.8	7.23	6.61	8.6	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4	Middle		2	1	16:15							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4	Middle		2	2	16:15							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4	Bottom	3.8	3	1	16:15	19.9	8.17	28.8	7.48	6.87	8.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	SR4	Bottom	3.8	3	2	16:15	20	8.18	28.7	7.45	6.82	9.5	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS8	Surface	1	1	1	16:41	20	8.18	28.7	7.36	6.41	8.3	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS8	Surface	1	1	2	16:41	20.1	8.19	28.8	7.33	6.54	8.5	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS8	Middle		2	1	16:41							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS8	Middle		2	2	16:41							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS8	Bottom	3.9	3	1	16:41	20	8.15	28.8	7.35	6.67	9.3	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS8	Bottom	3.9	3	2	16:41	20.1	8.16	28.9	7.38	6.63	9.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	17:07	19.9	8.16	28.8	7.41	6.75	8.8	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	17:07	19.8	8.17	28.7	7.4	6.73	8.7	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)16	Middle	3.6	2	1	17:07	20	8.13	28.8	7.32	6.86	8.2	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)16	Middle	3.6	2	2	17:07	20.1	8.14	28.9	7.29	6.88	8.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.1	3	1	17:07	20.2	8.15	28.7	7.14	7.02	11.2	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.1	3	2	17:07	20.3	8.16	28.8	7.11	6.92	9.7	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	17:33	20.1	8.14	28.6	7.53	6.87	9.6	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	17:33	19.9	8.15	28.5	7.47	6.89	9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	17:33							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	17:33							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	1	17:33	20.2	8.14	28.7	7.43	7.04	9.2	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	2	17:33	20.1	8.15	28.8	7.41	7.08	10.6	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	18:03	19.9	8.18	28.6	7.57	7.06	11.3	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	18:03	19.8	8.19	28.5	7.54	6.94	9.7	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.4	2	1	18:03	20	8.16	28.7	7.5	6.7	9.4	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.4	2	2	18:03	19.9	8.14	28.6	7.44	6.62	9.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.8	3	1	18:03	20.2	8.14	28.8	7.28	7.4	10.4	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.8	3	2	18:03	20.3	8.15	28.7	7.32	7.44	8.9	2014-12-22

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	10:33	19.8	8.13	28.4	7.54	7.14	11.4	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	10:33	19.7	8.14	28.5	7.51	7.08	9.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.6	2	1	10:33	19.9	8.1	28.6	7.46	6.84	10.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.6	2	2	10:33	19.8	8.11	28.5	7.43	6.9	10.4	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.2	3	1	10:33	20	8.12	28.6	7.25	7.47	10.5	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.2	3	2	10:33	20.1	8.13	28.7	7.3	7.53	10.5	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	12:43	19.8	8.14	28.4	7.39	6.92	9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	12:43	19.9	8.15	28.5	7.35	6.85	8.2	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4a	Middle		2	1	12:43							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4a	Middle		2	2	12:43							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4a	Bottom	3.6	3	1	12:43	19.9	8.15	28.6	7.3	7	9.1	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4a	Bottom	3.6	3	2	12:43	19.8	8.16	28.5	7.32	7.06	8.5	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	12:17	19.8	8.17	28.6	7.22	6.67	8	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	12:17	19.7	8.18	28.7	7.18	6.64	8.8	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4	Middle		2	1	12:17							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4	Middle		2	2	12:17							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4	Bottom	3.4	3	1	12:17	19.8	8.14	28.7	7.45	6.93	8.3	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	SR4	Bottom	3.4	3	2	12:17	19.9	8.15	28.6	7.42	6.86	8.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	11:51	19.9	8.15	28.5	7.29	6.55	9.2	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	11:51	19.9	8.16	28.6	7.25	6.61	7.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS8	Middle		2	1	11:51							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS8	Middle		2	2	11:51							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS8	Bottom	3.6	3	1	11:51	19.9	8.13	28.6	7.32	6.81	10.2	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS8	Bottom	3.6	3	2	11:51	20	8.14	28.7	7.34	6.87	8.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	11:25	19.8	8.13	28.4	7.35	6.84	8.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	11:25	19.7	8.14	28.5	7.32	6.78	10.2	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)16	Middle	3.9	2	1	11:25	19.9	8.11	28.6	7.26	6.91	9.7	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)16	Middle	3.9	2	2	11:25	19.8	8.12	28.5	7.23	6.96	11.1	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	6.8	3	1	11:25	20	8.13	28.6	7.09	7.11	8.5	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	6.8	3	2	11:25	20	8.14	28.7	7.06	7.06	8.5	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	10:59	19.9	8.1	28.5	7.49	6.98	9.8	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	10:59	19.8	8.11	28.4	7.45	7.03	9.8	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	10:59							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	10:59							2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	1	10:59	20	8.12	28.5	7.39	7.19	10.1	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	3.8	3	2	10:59	19.9	8.13	28.6	7.36	7.25	10.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	13:13	19.8	8.17	28.6	7.5	6.68	9.4	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	13:13	19.7	8.16	28.5	7.47	6.75	10.8	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	1	13:13	19.8	8.14	28.7	7.41	6.82	10.9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	2	13:13	19.9	8.15	28.8	7.38	6.89	9	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	1	13:13	20	8.18	28.9	7.14	7.15	10.7	2014-12-22
TMCLKL	HY/2012/07	2014-12-20	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	2	13:13	19.9	8.19	28.8	7.09	7.22	8.7	2014-12-22

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	08:00	19.6	8.23	28.6	7.65	6.59	10.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	08:00	19.5	8.22	28.7	7.62	6.66	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.8	2	1	08:00	19.8	8.2	28.9	7.56	6.73	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)5	Middle	4.8	2	2	08:00	19.8	8.21	28.8	7.53	6.8	10.3	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.6	3	1	08:00	19.9	8.24	28.9	7.29	7.06	10.8	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)5	Bottom	8.6	3	2	08:00	19.8	8.25	29	7.24	7.13	11.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	08:21	19.6	8.2	28.5	7.54	6.83	10.3	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	08:21	19.7	8.21	28.6	7.5	6.76	10.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4a	Middle		2	1	08:21							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4a	Middle		2	2	08:21							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	1	08:21	19.8	8.21	28.6	7.45	6.91	10.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	2	08:21	19.9	8.22	28.7	7.47	6.97	11	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4	Surface	1	1	1	08:42	19.7	8.23	28.8	7.37	6.58	9.8	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4	Surface	1	1	2	08:42	19.7	8.24	28.7	7.33	6.65	10	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4	Middle		2	1	08:42							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4	Middle		2	2	08:42							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4	Bottom	3.6	3	1	08:42	19.8	8.2	28.8	7.6	6.84	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	SR4	Bottom	3.6	3	2	08:42	19.7	8.21	28.9	7.57	6.77	10.1	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS8	Surface	1	1	1	09:03	19.8	8.21	28.6	7.44	6.46	9.9	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS8	Surface	1	1	2	09:03	19.7	8.22	28.7	7.4	6.52	10	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS8	Middle		2	1	09:03							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS8	Middle		2	2	09:03							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS8	Bottom	4	3	1	09:03	19.8	8.19	28.7	7.47	6.72	10.3	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS8	Bottom	4	3	2	09:03	19.9	8.2	28.8	7.49	6.78	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	09:24	19.6	8.19	28.5	7.5	6.75	10.4	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	09:24	19.7	8.2	28.6	7.47	6.69	10.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.1	2	1	09:24	19.7	8.17	28.7	7.41	6.82	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.1	2	2	09:24	19.8	8.18	28.6	7.38	6.87	10.8	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.2	3	1	09:24	19.9	8.19	28.7	7.24	7.02	10.8	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.2	3	2	09:24	19.8	8.2	28.8	7.21	6.97	10.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	09:45	19.7	8.16	28.6	7.64	6.89	10.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	09:45	19.8	8.17	28.5	7.61	6.94	10.4	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	09:45							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	09:45							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	1	09:45	19.8	8.18	28.6	7.54	7.1	10.9	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	2	09:45	19.9	8.19	28.7	7.51	7.16	11.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	10:06	19.7	8.19	28.6	7.69	7.05	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	10:06	19.6	8.2	28.7	7.66	6.99	10.9	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.8	2	1	10:06	19.8	8.16	28.7	7.61	6.75	10.4	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.8	2	2	10:06	19.9	8.17	28.8	7.58	6.81	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.6	3	1	10:06	19.9	8.18	28.8	7.4	7.38	11.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.6	3	2	10:06	20	8.19	28.7	7.45	7.44	11.4	2014-12-23

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	12:21	19.8	8.22	28.8	7.57	7.18	11	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	12:21	19.9	8.21	28.9	7.52	7.16	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.6	2	1	12:21	19.9	8.17	28.9	7.52	6.89	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.6	2	2	12:21	20	8.18	28.8	7.47	6.91	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.2	3	1	12:21	20.1	8.23	29.1	7.29	7.46	11.4	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.2	3	2	12:21	20.2	8.22	29	7.35	7.51	11.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	14:31	19.7	8.22	28.7	7.5	6.88	10.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	14:31	19.8	8.23	28.8	7.48	6.92	10.4	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4a	Middle		2	1	14:31							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4a	Middle		2	2	14:31							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4a	Bottom	3.4	3	1	14:31	19.9	8.23	28.9	7.41	7.02	10.8	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4a	Bottom	3.4	3	2	14:31	20	8.23	28.8	7.43	6.99	10.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	13:13	19.8	8.24	28.9	7.34	6.61	10.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	13:13	19.9	8.25	29	7.13	6.67	10.4	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4	Middle		2	1	13:13							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4	Middle		2	2	13:13							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4	Bottom	3.3	3	1	13:13	19.9	8.25	29.4	7.53	6.91	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	SR4	Bottom	3.3	3	2	13:13	19.8	8.24	29.5	7.47	6.96	11.1	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	13:39	19.9	8.25	29.7	7.38	6.58	10.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	13:39	19.8	8.24	29.8	7.32	6.62	10.4	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS8	Middle		2	1	13:39							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS8	Middle		2	2	13:39							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS8	Bottom	2.3	3	1	13:39	19.9	8.21	28.8	7.41	6.83	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS8	Bottom	2.3	3	2	13:39	20	8.22	28.9	7.38	6.88	10.8	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	14:05	19.7	8.23	28.7	7.41	6.82	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	14:05	19.8	8.22	28.8	7.44	6.87	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4	2	1	14:05	18.8	8.19	28.8	7.36	6.93	10.9	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4	2	2	14:05	18.9	8.2	28.9	7.3	6.87	10.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	6.9	3	1	14:05	20	8.22	28.8	7.16	7.13	11.1	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	6.9	3	2	14:05	20.1	8.21	28.9	7.19	7.05	11.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	12:47	19.8	8.18	28.8	7.59	6.97	10.6	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	12:47	19.9	8.19	28.9	7.54	6.99	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	12:47							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	12:47							2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	1	12:47	20	8.2	28.8	7.48	7.17	11.1	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	2	12:47	20.1	8.21	28.9	7.44	7.19	11.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	15:01	19.7	8.25	28.8	7.62	6.63	10.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	15:01	19.6	8.26	28.7	7.57	6.68	10	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	1	15:01	19.9	8.23	29.1	7.53	6.77	10.5	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)5	Middle	4.7	2	2	15:01	19.9	8.22	29	7.5	6.84	10.7	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	1	15:01	20	8.27	29.2	7.24	7.12	11.2	2014-12-23
TMCLKL	HY/2012/07	2014-12-23	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	8.4	3	2	15:01	19.9	8.26	29.1	7.22	7.14	10.9	2014-12-23

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	08:52	20	8.13	29	7.68	6.56	9.8	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	08:52	19.9	8.15	29.1	7.71	6.54	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)5	Middle	5.9	2	1	08:52	20.1	7.96	29.3	7.62	6.99	10.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)5	Middle	5.9	2	2	08:52	20.2	7.94	29.3	7.6	7.01	9.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)5	Bottom	10.8	3	1	08:52	20.1	7.92	29.2	7.55	6.87	10.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)5	Bottom	10.8	3	2	08:52	20.2	7.9	29.3	7.53	6.85	10.3	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4a	Surface	1	1	1	09:11	20	8.22	29.1	7.73	6.82	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4a	Surface	1	1	2	09:11	20	8.24	29.2	7.75	6.8	9.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4a	Middle		2	1	09:11							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4a	Middle		2	2	09:11							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4a	Bottom	4.3	3	1	09:11	20.3	7.81	29.4	7.43	7.14	10.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4a	Bottom	4.3	3	2	09:11	20.4	7.83	29.5	7.45	7.16	10.8	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4	Surface	1	1	1	09:32	20	7.88	29	7.45	6.73	9.8	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4	Surface	1	1	2	09:32	20.1	7.9	28.9	7.47	6.71	9.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4	Middle		2	1	09:32							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4	Middle		2	2	09:32							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4	Bottom	4	3	1	09:32	20.1	8.12	29.1	7.4	7.03	10.3	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	SR4	Bottom	4	3	2	09:32	20.2	8.14	29.2	7.42	7.05	10.4	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS8	Surface	1	1	1	09:53	20.1	7.76	29.1	7.55	6.31	9.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS8	Surface	1	1	2	09:53	20.2	7.74	29.2	7.57	6.33	9.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS8	Middle		2	1	09:53							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS8	Middle		2	2	09:53							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS8	Bottom	4.1	3	1	09:53	20.3	7.84	29.3	7.46	6.48	9.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS8	Bottom	4.1	3	2	09:53	20.3	7.86	29.3	7.44	6.5	9.8	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	10:16	19.9	7.99	29	7.62	6.54	9.7	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	10:16	20	8.01	29	7.6	6.52	9.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)16	Middle	4.3	2	1	10:16	20.1	8.13	29.1	7.42	6.66	9.7	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)16	Middle	4.3	2	2	10:16	20.1	8.11	29.2	7.4	6.68	9.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)16	Bottom	7.5	3	1	10:16	20.3	8.04	29.3	7.25	6.73	10.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)16	Bottom	7.5	3	2	10:16	20.2	8.06	29.4	7.27	6.75	9.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	10:46	20	8.24	29.1	7.68	6.47	9.4	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	10:46	20.1	8.22	29.2	7.7	6.49	9.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	10:46							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	10:46							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)9	Bottom	4.2	3	1	10:46	20.2	8.11	29.3	7.58	6.6	9.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	IS(Mf)9	Bottom	4.2	3	2	10:46	20.3	8.19	29.3	7.6	6.62	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	11:25	19.9	8.33	29	7.78	6.58	9.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	11:25	19.9	8.35	29.1	7.76	6.6	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)3	Middle	5.9	2	1	11:25	20	8.16	29.2	7.6	6.73	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)3	Middle	5.9	2	2	11:25	20.1	8.14	29.2	7.58	6.75	10.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)3	Bottom	10.8	3	1	11:25	20.2	8.03	29.3	7.43	6.88	10.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Flood	Fine	CS(Mf)3	Bottom	10.8	3	2	11:25	20.3	8	29.4	7.41	6.9	10.4	2014-12-27

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	13:55	19.9	8.21	29	7.71	6.67	9.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	13:55	19.8	8.22	29.1	7.68	6.74	10.3	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.8	2	1	13:55	19.9	8.23	29.2	7.6	6.92	10.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)3	Middle	5.8	2	2	13:55	19.9	8.24	29.2	7.57	6.84	10.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.6	3	1	13:55	19.9	8.09	29.3	7.48	7.13	10.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	10.6	3	2	13:55	20	8.1	29.4	7.44	7.09	10.8	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	15:56	20	8.21	29	7.57	6.71	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	15:56	20.1	8.22	29.1	7.54	6.78	10.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4a	Middle		2	1	15:56							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4a	Middle		2	2	15:56							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4a	Bottom	4	3	1	15:56	20.1	8.18	29.1	7.39	7.02	10.4	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4a	Bottom	4	3	2	15:56	20.1	8.19	29.1	7.34	7.09	10.7	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	15:35	20.1	7.84	29	7.41	6.67	9.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	15:35	20	7.85	29.1	7.38	6.74	9.8	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4	Middle		2	1	15:35							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4	Middle		2	2	15:35							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	1	15:35	20.1	7.99	29	7.3	7.09	10.4	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	SR4	Bottom	3.8	3	2	15:35	20.1	8.01	29.1	7.26	7.13	10.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	15:13	20	7.84	29.1	7.36	6.5	9.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	15:13	20	7.85	29.1	7.4	6.58	9.9	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS8	Middle		2	1	15:13							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS8	Middle		2	2	15:13							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS8	Bottom	4	3	1	15:13	20	7.88	29.1	7.27	6.61	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS8	Bottom	4	3	2	15:13	20.1	7.89	29.1	7.24	6.67	9.8	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	14:26	20	8.02	29	7.48	6.53	9.7	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	14:26	20	8.03	29.1	7.52	6.6	9.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.1	2	1	14:26	20	8.08	29.1	7.4	6.75	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)16	Middle	4.1	2	2	14:26	20.1	8.09	29.1	7.37	6.81	10	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.2	3	1	14:26	20.1	8.12	29.2	7.22	6.94	10.3	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	7.2	3	2	14:26	20.2	8.13	29.2	7.19	7	10.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	14:22	19.9	8.11	29.2	7.58	6.64	9.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	14:22	19.9	8.12	29.1	7.61	6.59	9.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	14:22							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	14:22							2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	1	14:22	20.1	8.14	29.3	7.5	6.82	10.5	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	2	14:22	20.1	8.15	29.4	7.47	6.89	10.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	16:23	20	8.17	29.1	7.63	6.66	9.7	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	16:23	20	8.18	29.1	7.59	6.73	10.1	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)5	Middle	5.8	2	1	16:23	20	8.13	29.1	7.55	6.9	10.3	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)5	Middle	5.8	2	2	16:23	20.1	8.14	29.2	7.52	6.83	10.2	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	10.6	3	1	16:23	20.1	8.09	29.3	7.41	7.11	10.6	2014-12-27
TMCLKL	HY/2012/07	2014-12-25	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	10.6	3	2	16:23	20.2	8.1	29.3	7.39	7.18	10.8	2014-12-27

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	10:30	19.7	8.1	29	7.73	7	10	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	10:30	19.8	8.11	28.9	7.71	6.93	9.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)5	Middle	6	2	1	10:30	19.9	8.14	29.1	7.66	7.03	10.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)5	Middle	6	2	2	10:30	19.9	8.15	29.1	7.63	7.1	10.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)5	Bottom	11	3	1	10:30	20.1	8	29.2	7.44	7.14	10.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)5	Bottom	11	3	2	10:30	20.1	8.01	29.3	7.4	7.21	10.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	11:11	19.8	8.01	29	7.58	6.84	10	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	11:11	19.8	8.02	29.1	7.55	6.76	10.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4a	Middle		2	1	11:11							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4a	Middle		2	2	11:11							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	1	11:11	19.8	8.07	29.1	7.46	6.92	10.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4a	Bottom	4.4	3	2	11:11	19.9	8.08	29.1	7.41	6.99	10.6	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4	Surface	1	1	1	11:31	19.8	7.74	29	7.48	6.81	9.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4	Surface	1	1	2	11:31	19.9	7.75	29	7.45	6.88	10	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4	Middle		2	1	11:31							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4	Middle		2	2	11:31							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4	Bottom	4.2	3	1	11:31	19.9	7.81	29.1	7.38	6.94	10.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	SR4	Bottom	4.2	3	2	11:31	19.9	7.82	29	7.34	7	10.1	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS8	Surface	1	1	1	11:52	19.9	7.81	29	7.57	6.47	9.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS8	Surface	1	1	2	11:52	19.9	7.82	29.1	7.54	6.54	9.4	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS8	Middle		2	1	11:52							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS8	Middle		2	2	11:52							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS8	Bottom	4.1	3	1	11:52	19.9	7.9	29.2	7.46	6.67	9.6	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS8	Bottom	4.1	3	2	11:52	20	7.91	29.2	7.42	6.72	9.9	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	12:15	19.9	7.64	29.1	7.66	6.52	9.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	12:15	20	7.65	29.1	7.63	6.6	9.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.2	2	1	12:15	20.1	7.34	29.2	7.57	6.64	9.7	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)16	Middle	4.2	2	2	12:15	20.1	7.35	29.2	7.54	6.73	9.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.4	3	1	12:15	20.3	7.31	29.3	7.38	6.8	9.9	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)16	Bottom	7.4	3	2	12:15	20.3	7.3	29.4	7.35	6.88	10.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	12:40	19.9	8.24	29	7.73	6.39	9.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	12:40	19.9	8.25	29	7.7	6.46	9.4	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	12:40							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	12:40							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	1	12:40	20	8.22	29.1	7.61	6.62	9.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.2	3	2	12:40	20	8.23	29.1	7.58	6.67	9.7	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	13:02	19.9	8.21	29	7.65	6.42	9.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	13:02	20	8.22	29.1	7.67	6.5	9.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.9	2	1	13:02	20	8.17	29.1	7.61	6.72	9.9	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)3	Middle	5.9	2	2	13:02	20.1	8.18	29.2	7.58	6.65	9.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.8	3	1	13:02	20.2	8.07	29.3	7.46	6.82	10.1	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Flood	Cloudy	CS(Mf)3	Bottom	10.8	3	2	13:02	20.3	8.08	29.4	7.44	6.88	10.2	2014-12-29

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	15:46	20.1	8.24	29.1	7.68	6.69	10.1	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	15:46	20.1	8.26	29.2	7.7	6.71	9.9	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)3	Middle	5.8	2	1	15:46	20.2	8.17	29.3	7.57	6.82	9.9	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)3	Middle	5.8	2	2	15:46	20.3	8.15	29.3	7.55	6.8	10.1	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.5	3	1	15:46	20.4	8.03	29.4	7.34	7.03	10.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.5	3	2	15:46	20.4	8.05	29.5	7.35	7.01	10.6	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4a	Surface	1	1	1	17:39	20	8.13	29	7.65	6.99	10	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4a	Surface	1	1	2	17:39	20.1	8.11	29.1	7.63	7.01	10.1	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4a	Middle		2	1	17:39							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4a	Middle		2	2	17:39							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4a	Bottom	4.1	3	1	17:39	20.3	7.96	29.4	7.36	7.23	10.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4a	Bottom	4.1	3	2	17:39	20.4	7.98	29.4	7.38	7.21	10.6	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4	Surface	1	1	1	17:17	19.9	7.73	29	7.36	6.92	10.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4	Surface	1	1	2	17:17	20	7.75	29.1	7.34	6.94	10.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4	Middle		2	1	17:17							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4	Middle		2	2	17:17							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4	Bottom	3.8	3	1	17:17	20.1	7.92	29.2	7.26	7.03	10.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	SR4	Bottom	3.8	3	2	17:17	20.2	7.9	29.3	7.24	7.05	10.7	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS8	Surface	1	1	1	16:54	20	7.85	29.1	7.48	6.55	9.7	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS8	Surface	1	1	2	16:54	20.1	7.87	29.2	7.46	6.57	9.9	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS8	Middle		2	1	16:54							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS8	Middle		2	2	16:54							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS8	Bottom	3.9	3	1	16:54	20.3	7.99	29.3	7.33	6.52	9.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS8	Bottom	3.9	3	2	16:54	20.3	8.01	29.3	7.31	6.5	9.4	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	16:32	20	7.68	29	7.56	6.62	9.6	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	16:32	20.1	7.7	29	7.58	6.6	9.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)16	Middle	4.1	2	1	16:32	20.2	7.31	29.1	7.44	6.77	10.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)16	Middle	4.1	2	2	16:32	20.3	7.33	29.2	7.46	6.75	10.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.1	3	1	16:32	20.4	7.24	29.3	7.17	6.88	10.2	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)16	Bottom	7.1	3	2	16:32	20.5	7.22	29.4	7.15	6.9	10.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	16:09	20	8.32	29	7.61	6.58	9.6	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	16:09	20.1	8.3	29.1	7.59	6.56	9.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	16:09							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	16:09							2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.9	3	1	16:09	20.3	8.22	29.2	7.43	6.73	10.4	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	IS(Mf)9	Bottom	3.9	3	2	16:09	20.2	8.24	29.2	7.45	6.71	10.3	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	18:00	19.9	8.04	29.1	7.47	6.72	9.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	18:00	19.9	8.06	29.2	7.45	6.74	10	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)5	Middle	5.9	2	1	18:00	20.2	8.34	29.2	7.58	7.14	10.8	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)5	Middle	5.9	2	2	18:00	20.2	8.32	29.3	7.56	7.16	10.5	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)5	Bottom	10.7	3	1	18:00	20	8.17	29.3	7.33	6.99	10.6	2014-12-29
TMCLKL	HY/2012/07	2014-12-27	Mid-Ebb	Fine	CS(Mf)5	Bottom	10.7	3	2	18:00	20.1	8.15	29.4	7.35	7.01	10.6	2014-12-29

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	1	12:38	18.5	8.21	29.5	7.31	6.63	9.5	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)5	Surface	1	1	2	12:38	18.4	8.22	29.5	7.3	6.67	9.6	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)5	Middle	5.8	2	1	12:38	18.6	8.25	29.8	7.29	6.72	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)5	Middle	5.8	2	2	12:38	18.5	8.23	29.7	7.31	6.76	9.9	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)5	Bottom	10.6	3	1	12:38	18.4	8.28	29.9	7.19	6.98	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)5	Bottom	10.6	3	2	12:38	18.5	8.28	29.9	7.12	6.96	10.1	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4a	Surface	1	1	1	13:09	18.5	8.11	29.5	7.28	6.62	9.6	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4a	Surface	1	1	2	13:09	18.6	8.12	29.4	7.32	6.57	9.4	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4a	Middle		2	1	13:09							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4a	Middle		2	2	13:09							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4a	Bottom	4.5	3	1	13:09	18.3	8.14	29.6	7.28	6.82	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4a	Bottom	4.5	3	2	13:09	18.3	8.15	29.5	7.21	6.77	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4	Surface	1	1	1	13:29	18.4	8.12	29.4	7.42	6.49	9.4	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4	Surface	1	1	2	13:29	18.3	8.14	29.5	7.46	6.53	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4	Middle		2	1	13:29							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4	Middle		2	2	13:29							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4	Bottom	4.2	3	1	13:29	18.4	8.16	29.5	7.4	6.72	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	SR4	Bottom	4.2	3	2	13:29	18.3	8.17	29.4	7.37	6.68	9.6	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS8	Surface	1	1	1	13:50	18.3	8.22	29.5	7.38	6.55	9.5	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS8	Surface	1	1	2	13:50	18.4	8.21	29.4	7.4	6.62	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS8	Middle		2	1	13:50							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS8	Middle		2	2	13:50							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS8	Bottom	4.6	3	1	13:50	18.2	8.23	29.5	7.29	6.83	10.2	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS8	Bottom	4.6	3	2	13:50	18.2	8.22	29.4	7.33	6.8	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	1	14:16	18.4	8.2	29.4	7.25	6.87	10.1	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)16	Surface	1	1	2	14:16	18.4	8.21	29.5	7.29	6.79	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)16	Middle	4.1	2	1	14:16	18.3	8.22	29.5	7.18	6.9	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)16	Middle	4.1	2	2	14:16	18.2	8.23	29.6	7.21	6.81	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)16	Bottom	7.2	3	1	14:16	18.3	8.16	29.6	6.97	7.02	10.3	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)16	Bottom	7.2	3	2	14:16	18.3	8.18	29.5	6.99	7.14	10.6	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	1	14:42	18.3	8.14	29.4	7.36	6.63	9.6	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)9	Surface	1	1	2	14:42	18.4	8.13	29.5	7.41	6.77	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)9	Middle		2	1	14:42							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)9	Middle		2	2	14:42							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	1	14:42	18.2	8.1	29.6	7.28	6.84	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	IS(Mf)9	Bottom	4.4	3	2	14:42	18.3	8.09	29.6	7.31	6.77	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	1	15:09	18.4	8.17	29.4	7.49	6.76	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)3	Surface	1	1	2	15:09	18.5	8.17	29.4	7.45	6.71	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)3	Middle	5.9	2	1	15:09	18.6	8.12	29.5	7.39	6.98	10.2	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)3	Middle	5.9	2	2	15:09	18.5	8.13	29.4	7.33	6.93	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)3	Bottom	10.7	3	1	15:09	18.3	8.16	29.4	7.27	7.18	10.4	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Flood	Fine	CS(Mf)3	Bottom	10.7	3	2	15:09	18.4	8.17	29.6	7.29	7.09	10.2	2015-01-03

Project	Works	Date (yyyy-mm)	Tide	Weather	Stat	Level	Water Depth	Lev_Co	Replica	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v	Received Date (SS)
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	1	06:29	18.3	8.16	29.2	7.43	6.81	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)3	Surface	1	1	2	06:29	18.4	8.17	29.3	7.38	6.88	10.2	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)3	Middle	5.7	2	1	06:29	18.5	8.1	29.4	7.33	7.04	10.3	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)3	Middle	5.7	2	2	06:29	18.6	8.11	29.4	7.3	6.97	10.2	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.4	3	1	06:29	18.8	8.14	29.5	7.21	7.22	10.6	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)3	Bottom	10.4	3	2	06:29	18.8	8.15	29.5	7.19	7.16	10.3	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4a	Surface	1	1	1	08:22	18.3	8.1	29.3	7.21	6.74	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4a	Surface	1	1	2	08:22	18.4	8.12	29.4	7.19	6.68	9.9	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4a	Middle		2	1	08:22							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4a	Middle		2	2	08:22							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	1	08:22	18.4	8.13	29.4	7.14	6.98	10.4	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4a	Bottom	4.2	3	2	08:22	18.4	8.14	29.4	7.1	6.9	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4	Surface	1	1	1	08:01	18.2	8.12	29.3	7.37	6.58	9.6	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4	Surface	1	1	2	08:01	18.2	8.13	29.4	7.34	6.63	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4	Middle		2	1	08:01							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4	Middle		2	2	08:01							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4	Bottom	4	3	1	08:01	18.2	8.15	29.4	7.3	6.81	10.1	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	SR4	Bottom	4	3	2	08:01	18.3	8.16	29.4	7.27	6.88	10.2	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS8	Surface	1	1	1	07:41	18.2	8.2	29.3	7.33	6.67	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS8	Surface	1	1	2	07:41	18.3	8.21	29.3	7.31	6.74	9.9	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS8	Middle		2	1	07:41							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS8	Middle		2	2	07:41							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS8	Bottom	4.2	3	1	07:41	18.2	8.21	29.3	7.26	6.92	10.3	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS8	Bottom	4.2	3	2	07:41	18.3	8.22	29.4	7.24	6.98	10.2	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	1	07:17	18.3	8.19	29.3	7.18	6.93	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)16	Surface	1	1	2	07:17	18.3	8.2	29.4	7.22	6.86	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)16	Middle	4	2	1	07:17	18.3	8.21	29.4	7.11	6.99	10.4	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)16	Middle	4	2	2	07:17	18.4	8.22	29.4	7.09	7.04	10.3	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)16	Bottom	7	3	1	07:17	18.5	8.14	29.5	6.89	7.13	10.4	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)16	Bottom	7	3	2	07:17	18.6	8.15	29.6	6.91	7.2	10.3	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	1	06:55	18.2	8.12	29.3	7.27	6.78	9.8	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)9	Surface	1	1	2	06:55	18.3	8.13	29.3	7.3	6.84	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)9	Middle		2	1	06:55							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)9	Middle		2	2	06:55							2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.2	3	1	06:55	18.3	8.08	29.5	7.23	6.93	10.1	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	IS(Mf)9	Bottom	4.2	3	2	06:55	18.3	8.09	29.4	7.21	6.89	9.9	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	1	08:50	18.4	8.2	29.4	7.28	6.71	9.7	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)5	Surface	1	1	2	08:50	18.4	8.22	29.5	7.31	6.78	9.9	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)5	Middle	5.7	2	1	08:50	18.4	8.23	29.6	7.24	6.89	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)5	Middle	5.7	2	2	08:50	18.5	8.23	29.6	7.22	6.83	10	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)5	Bottom	10.4	3	1	08:50	18.6	8.27	29.7	7.09	7.09	10.4	2015-01-03
TMCLKL	HY/2012/07	2014-12-30	Mid-Ebb	Fine	CS(Mf)5	Bottom	10.4	3	2	08:50	18.6	8.29	29.8	7.05	7.02	10.1	2015-01-03

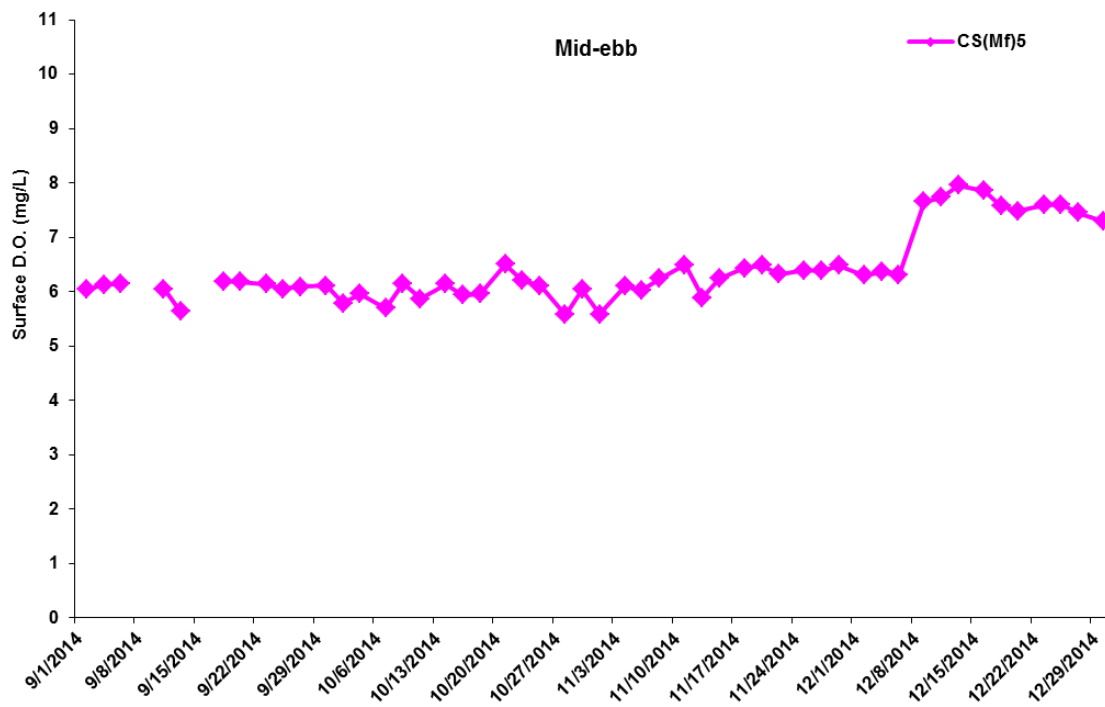
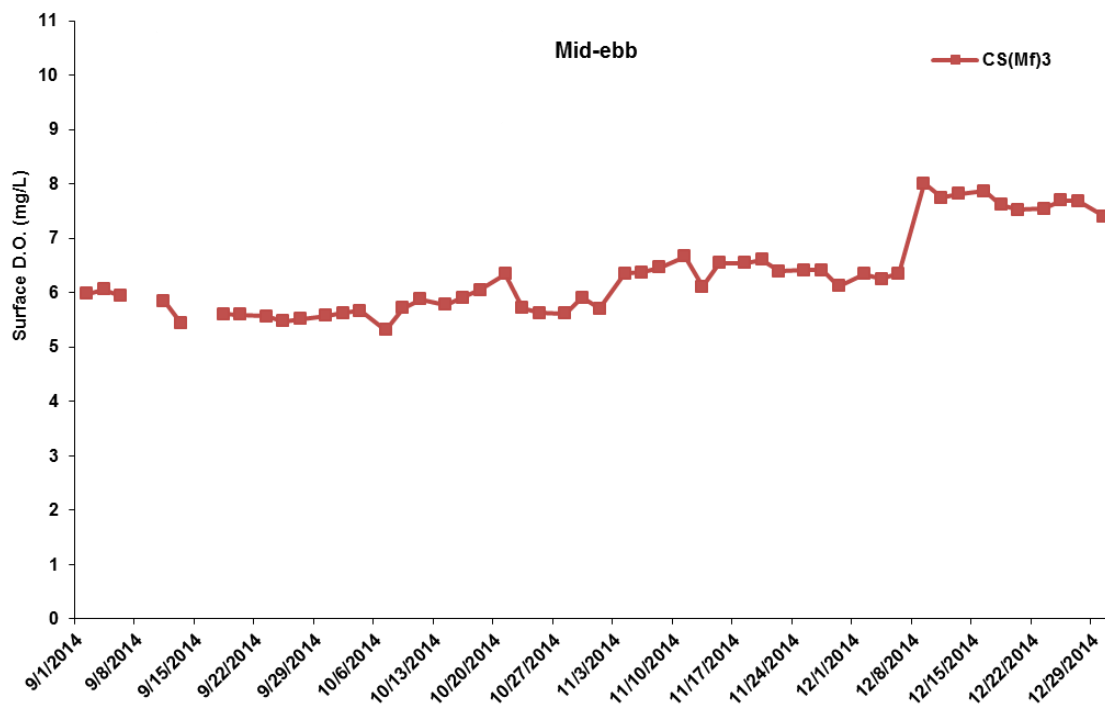


Figure J1 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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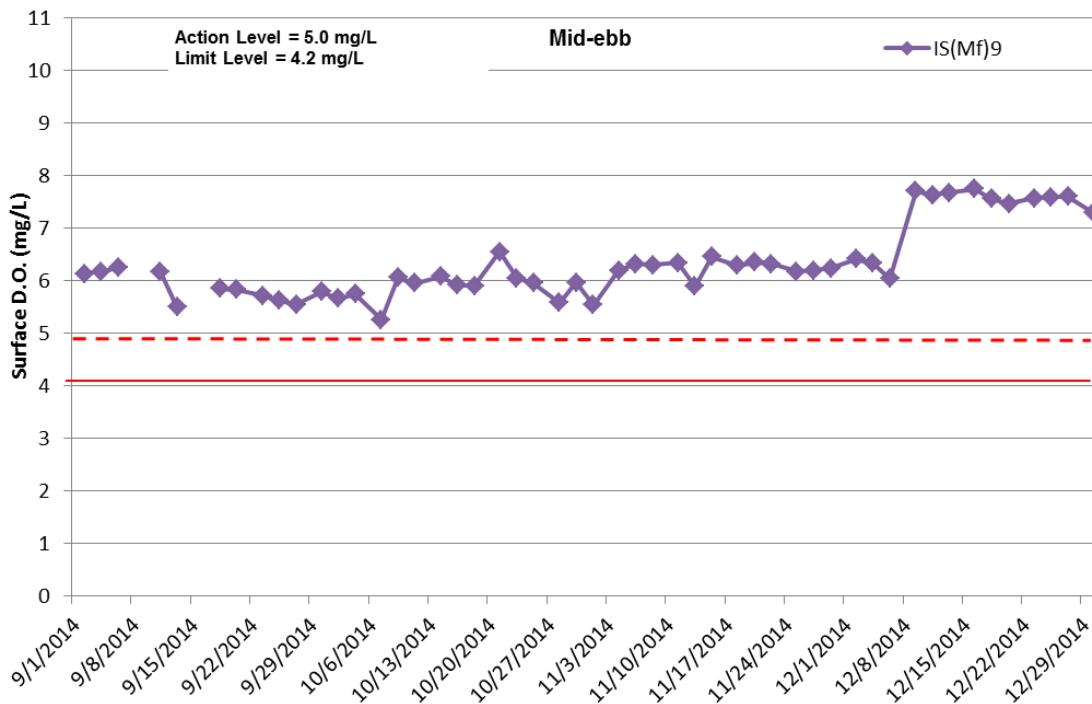
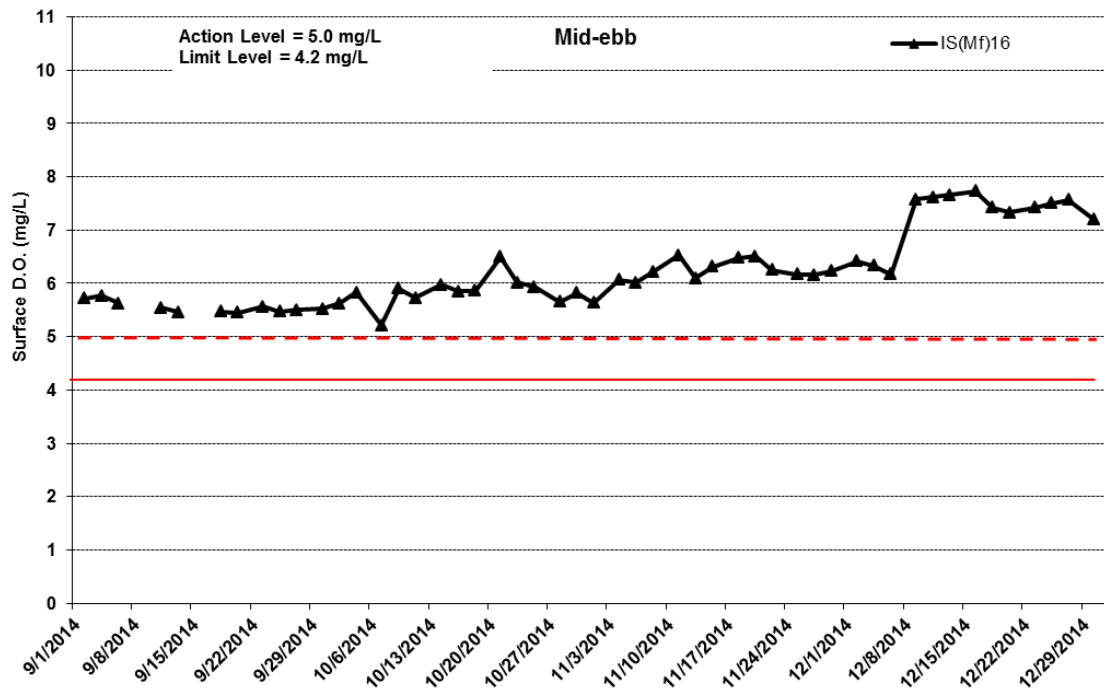


Figure J2 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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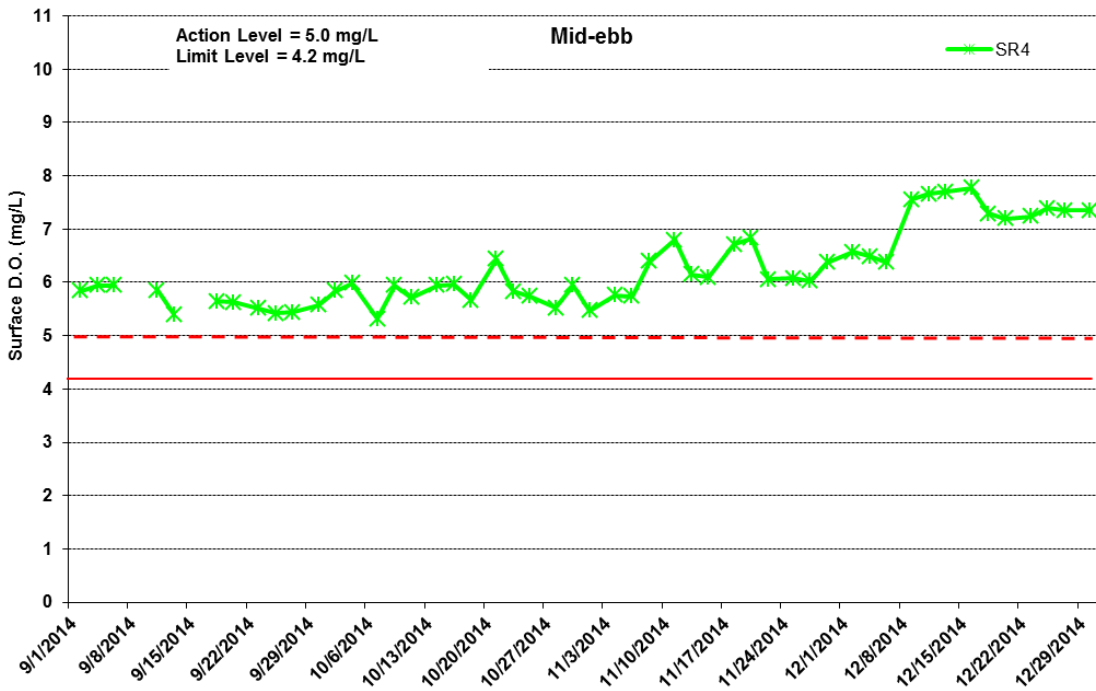
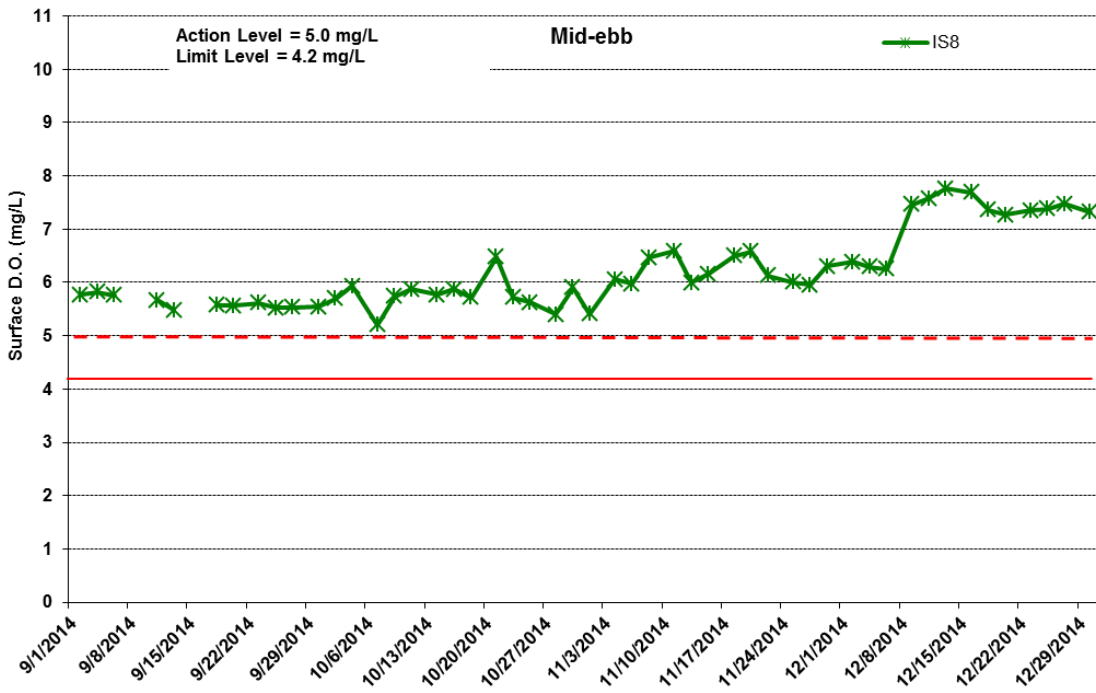


Figure J3 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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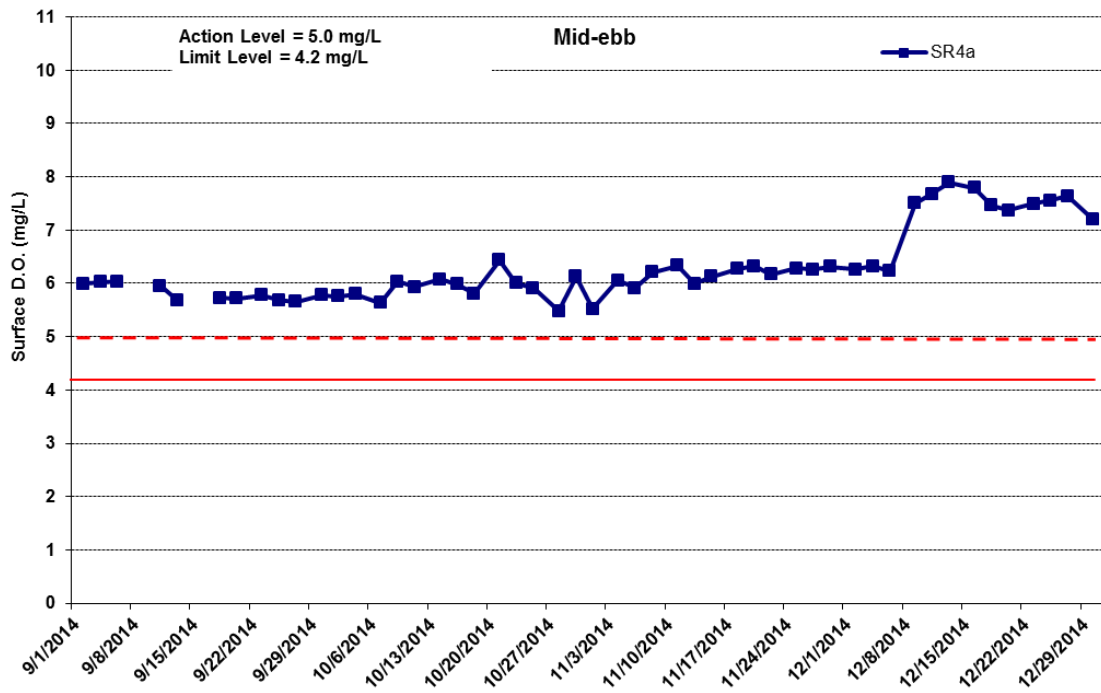


Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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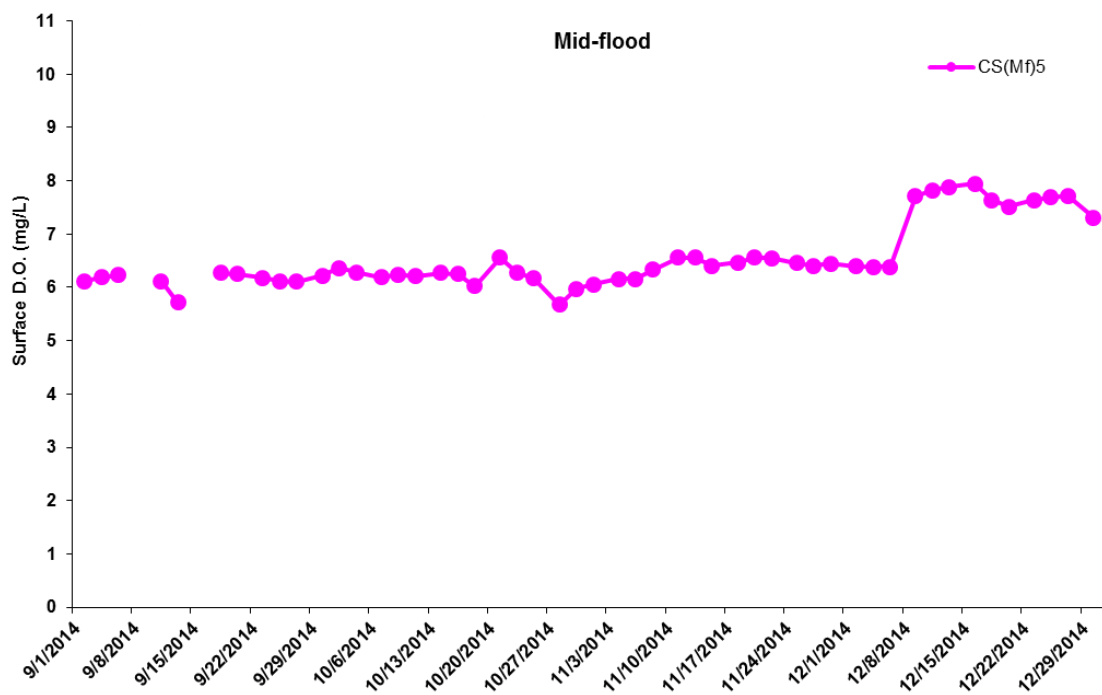
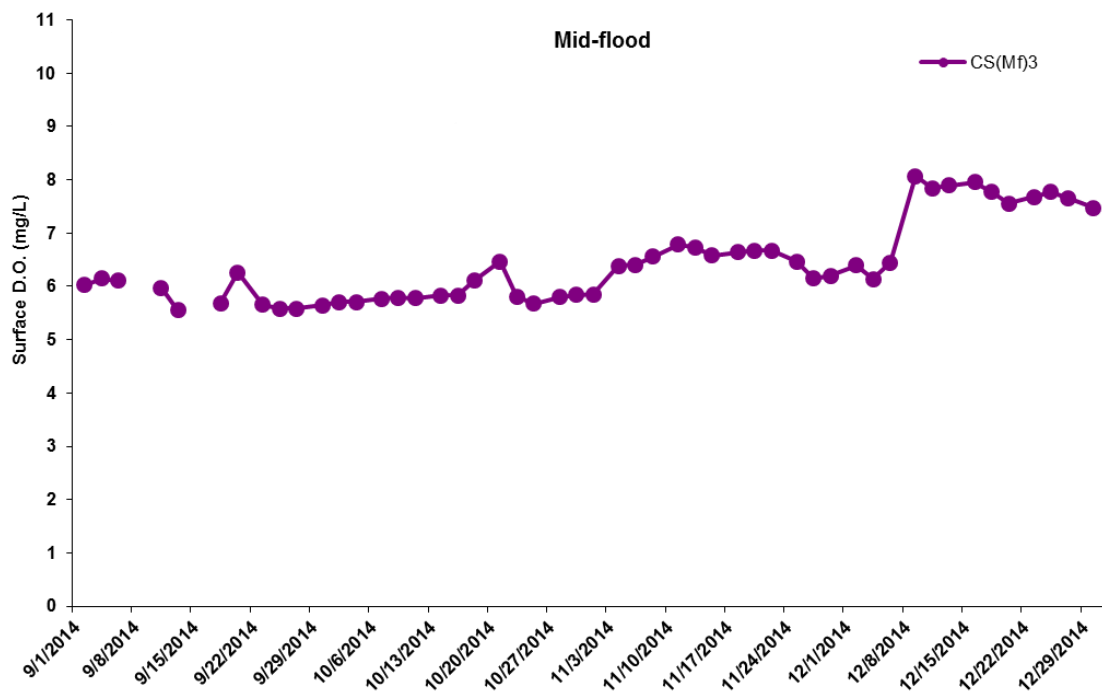


Figure J5 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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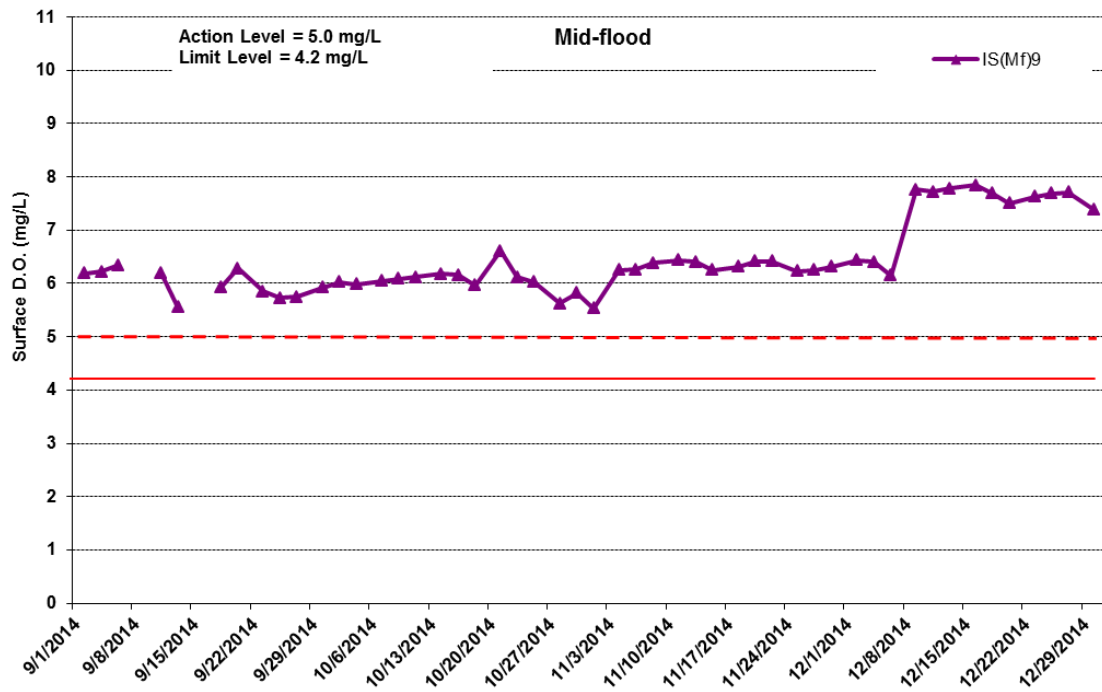
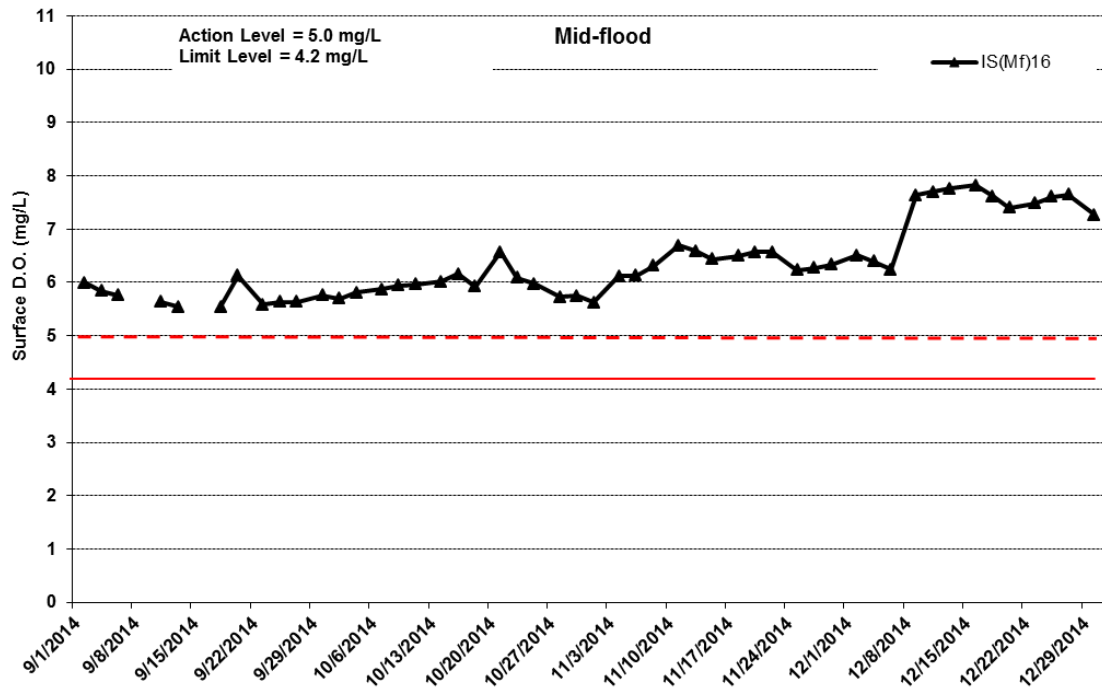


Figure J6 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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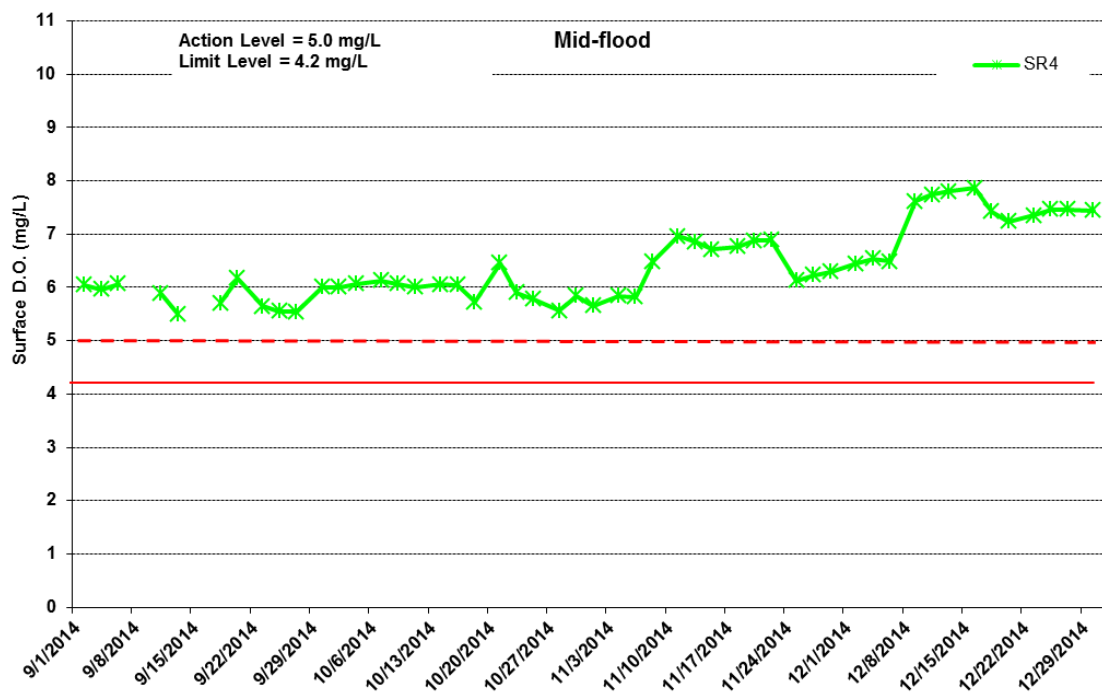
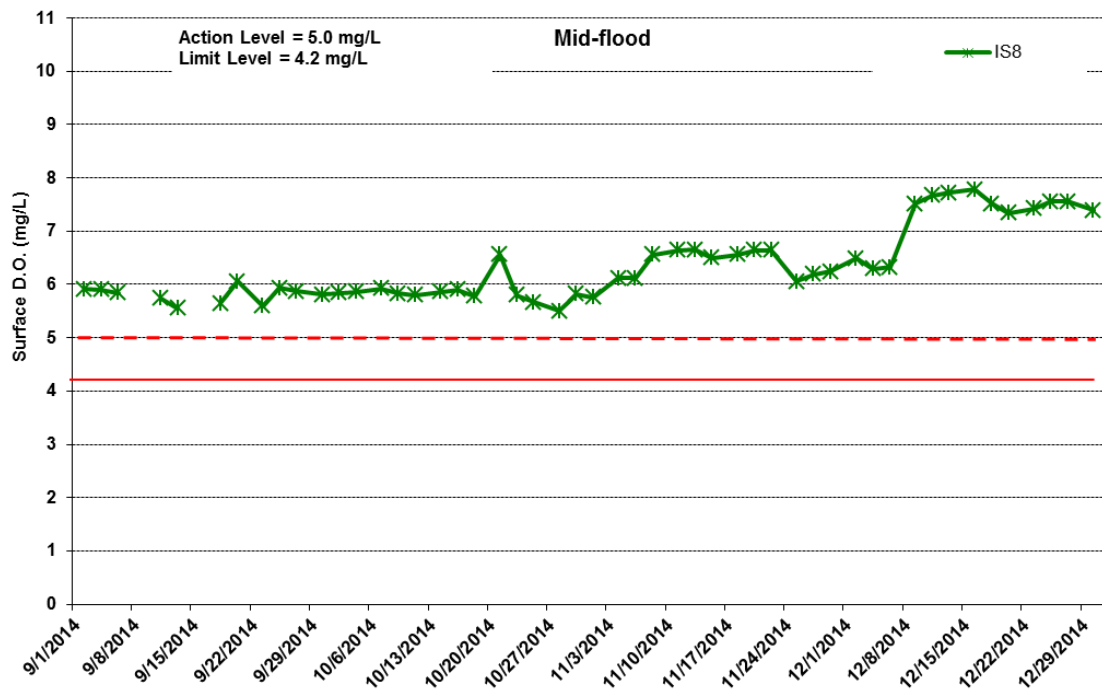


Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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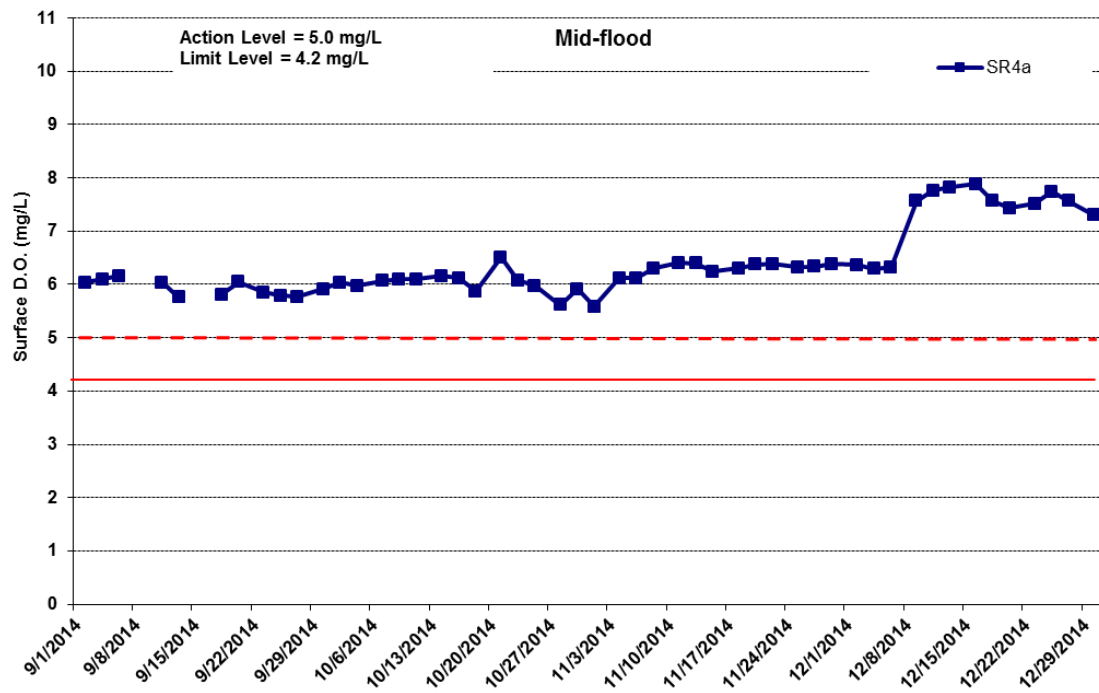


Figure J8 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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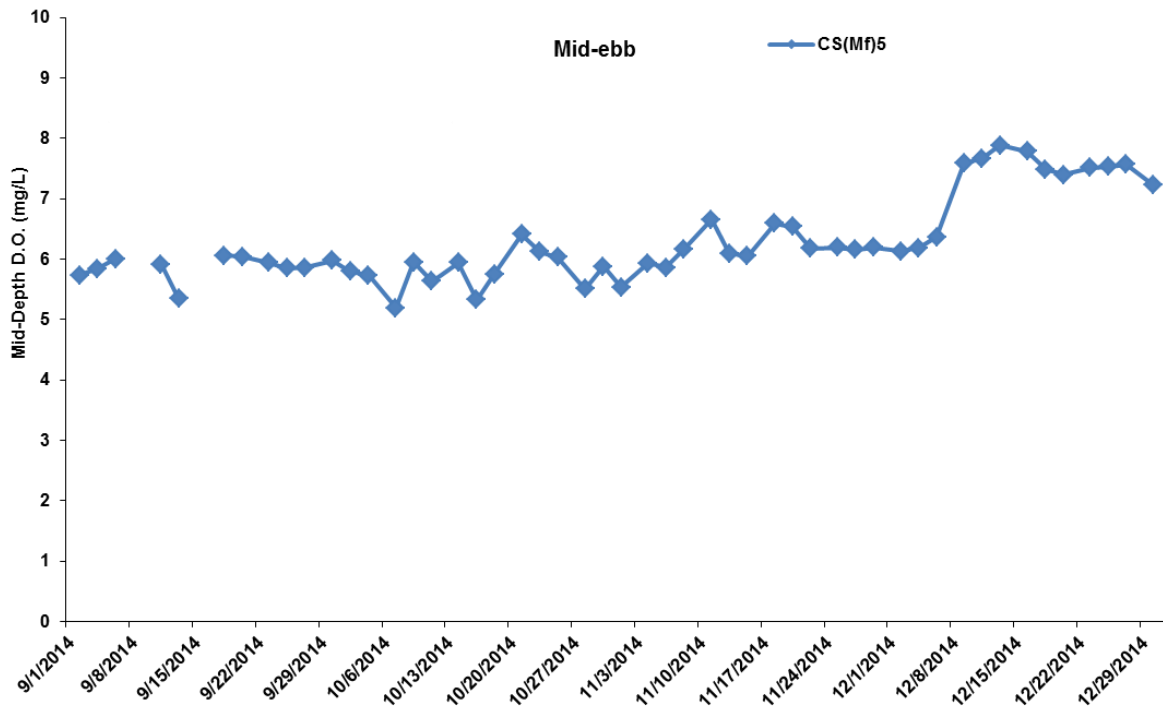
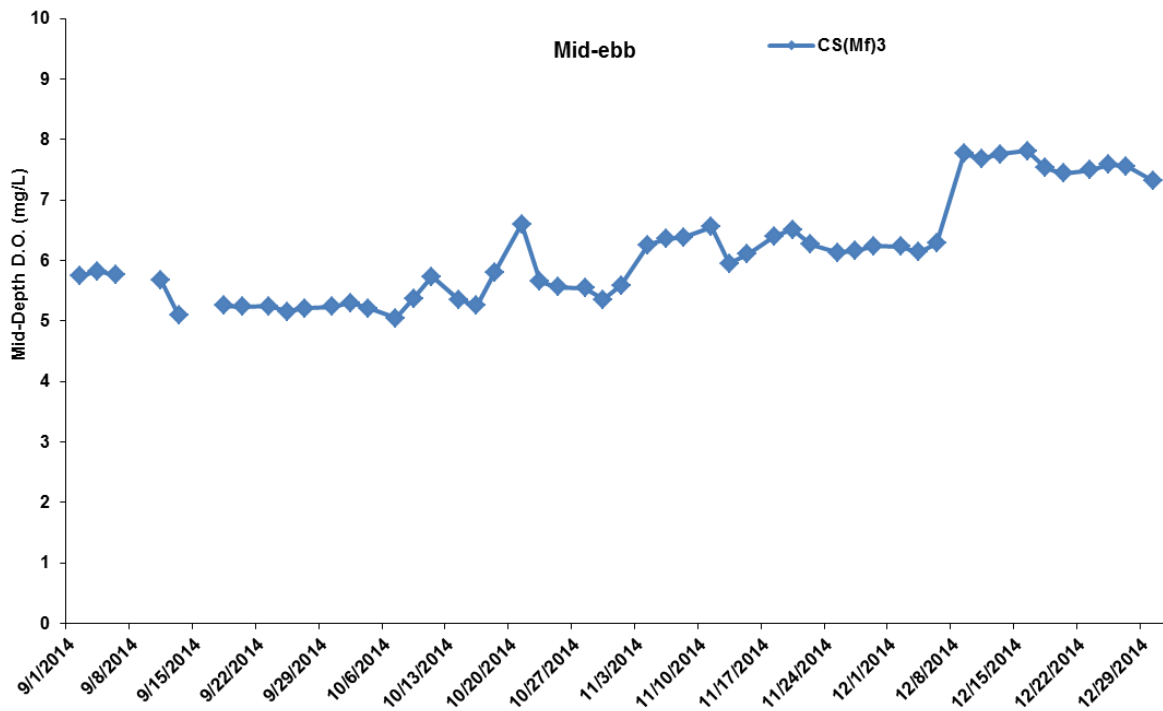


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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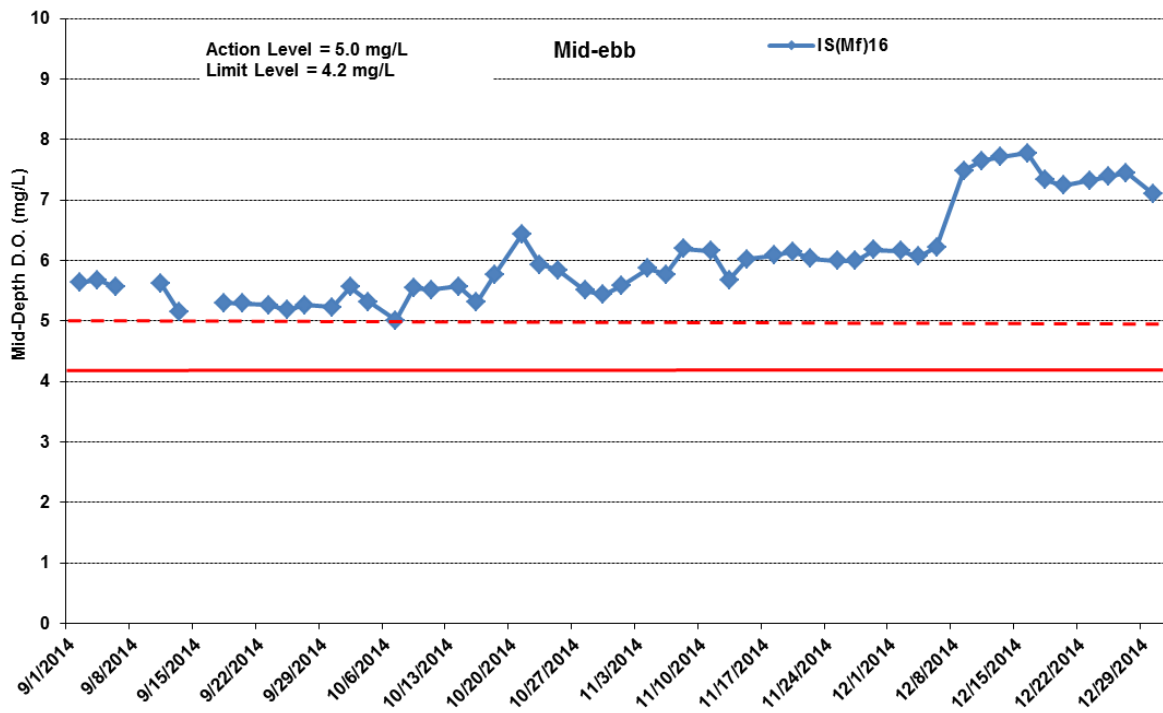


Figure J10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 September and 31 December 2014 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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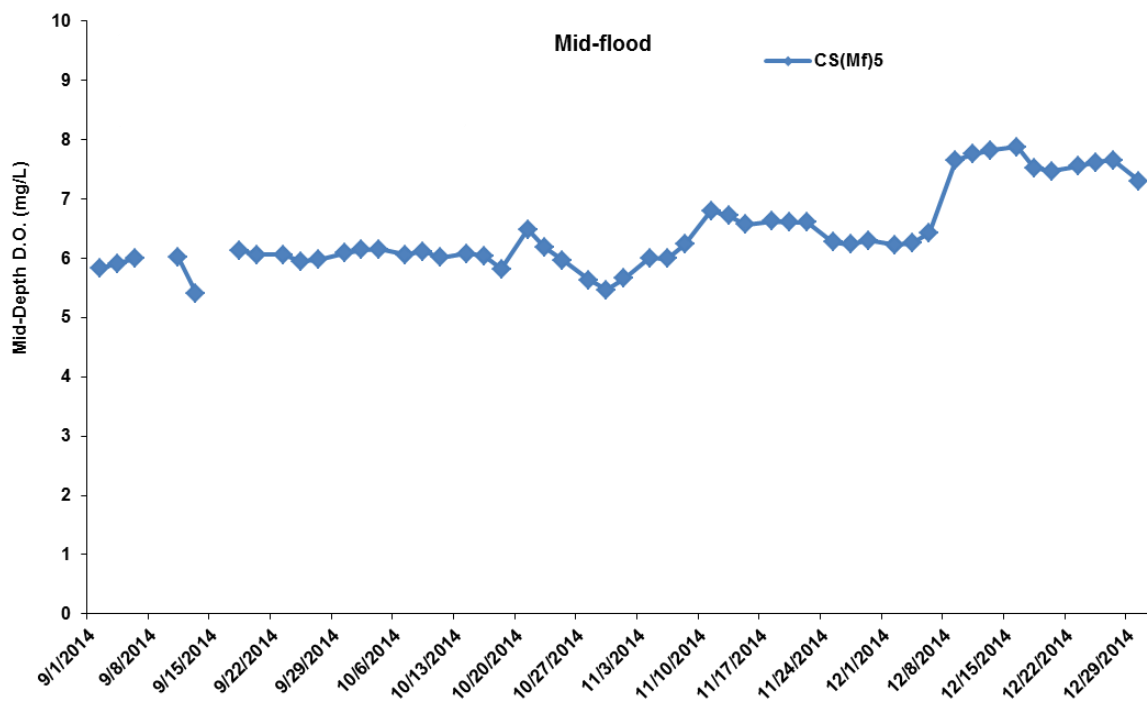
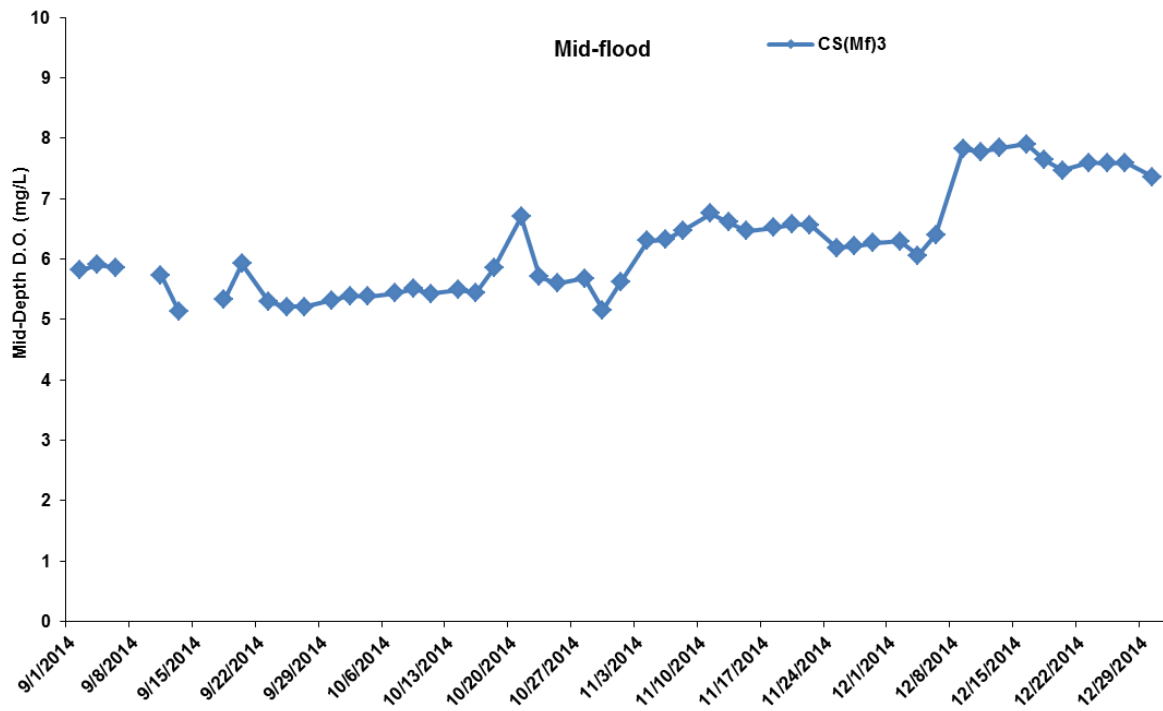


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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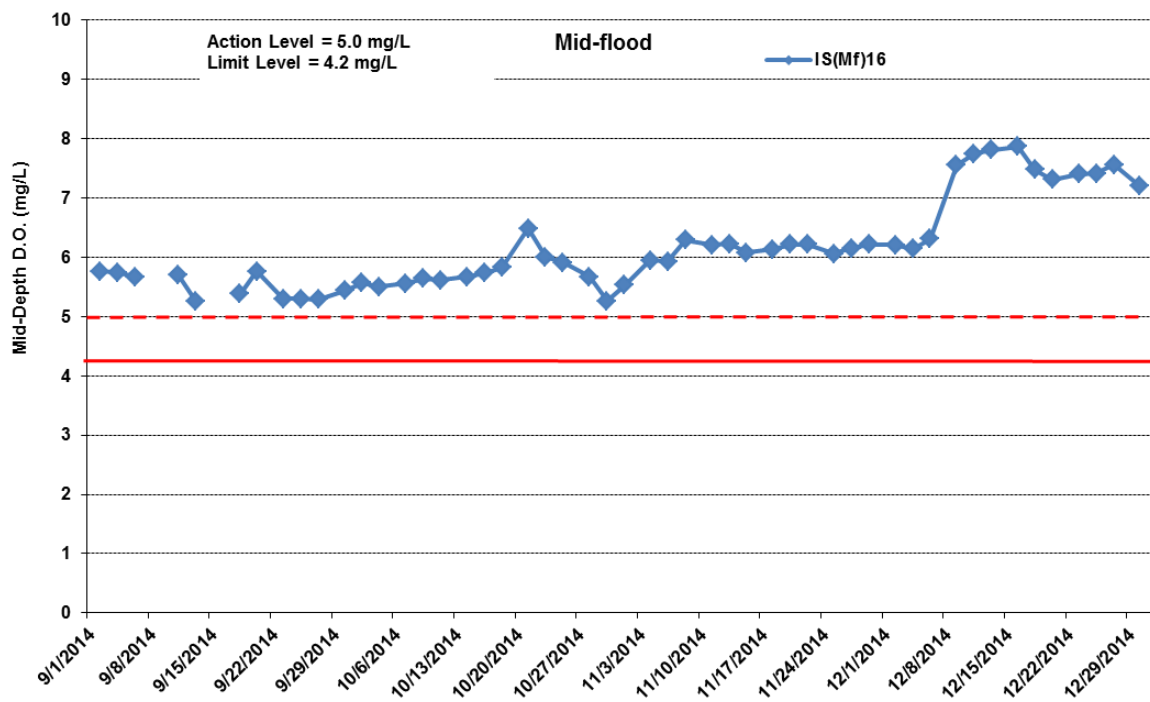


Figure J12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 September and 31 December 2014 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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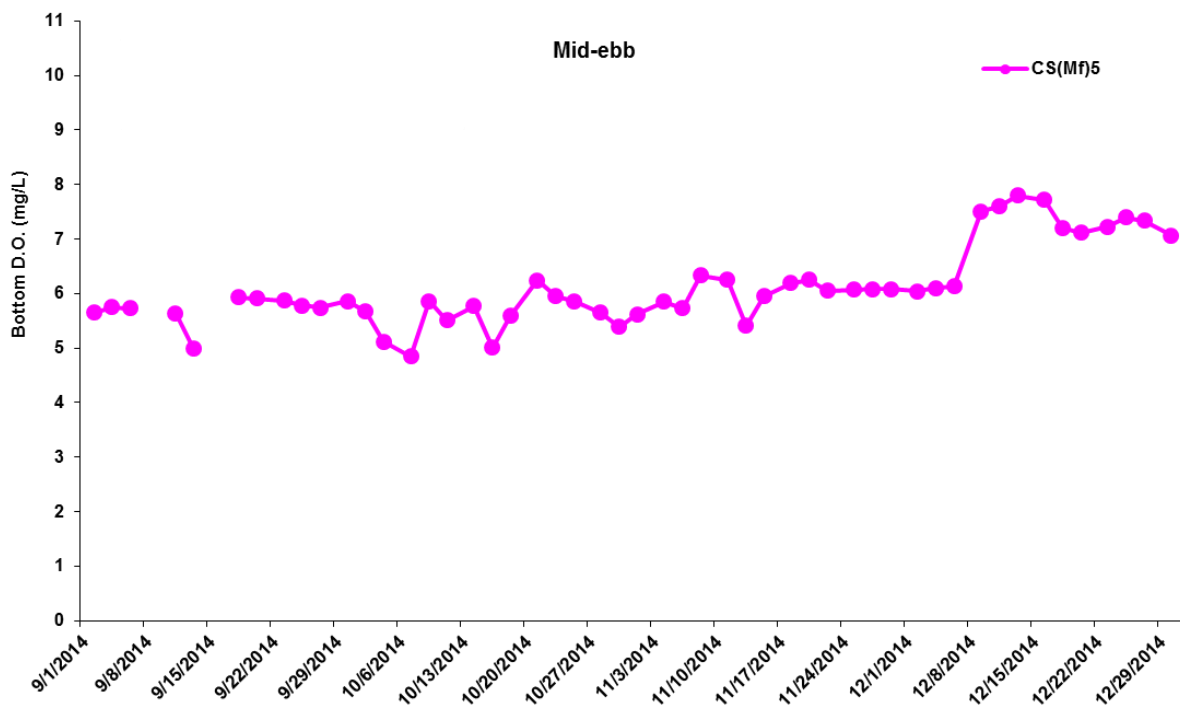
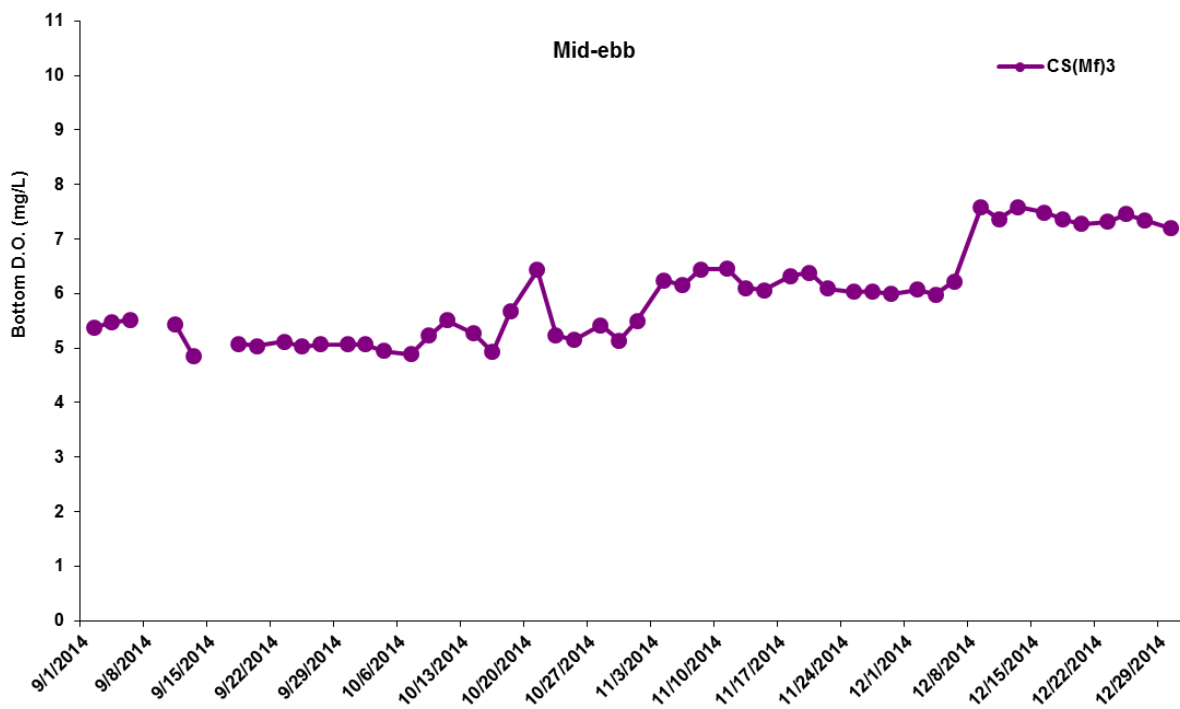


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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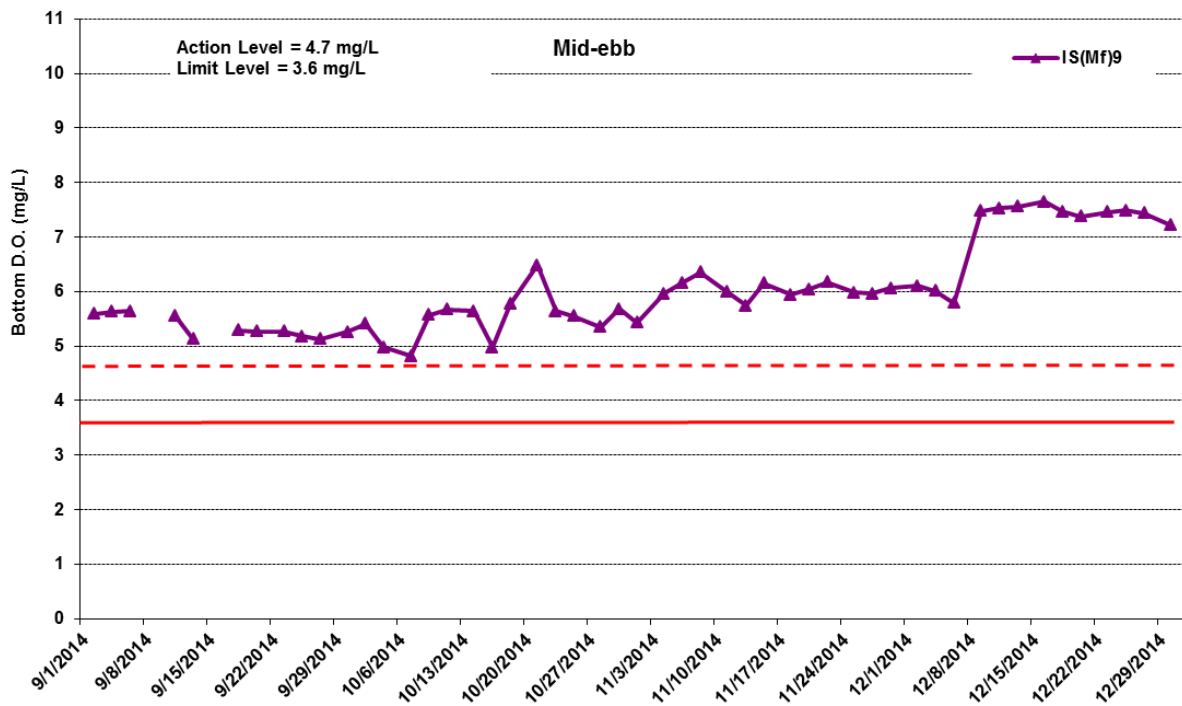
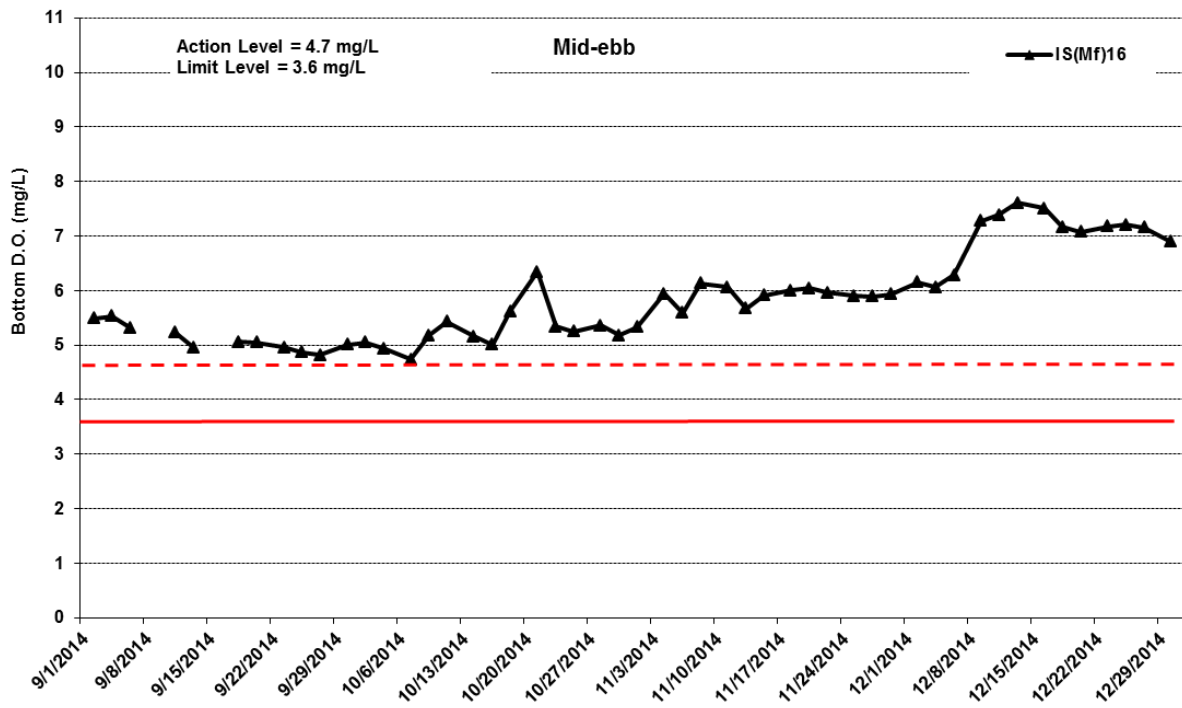


Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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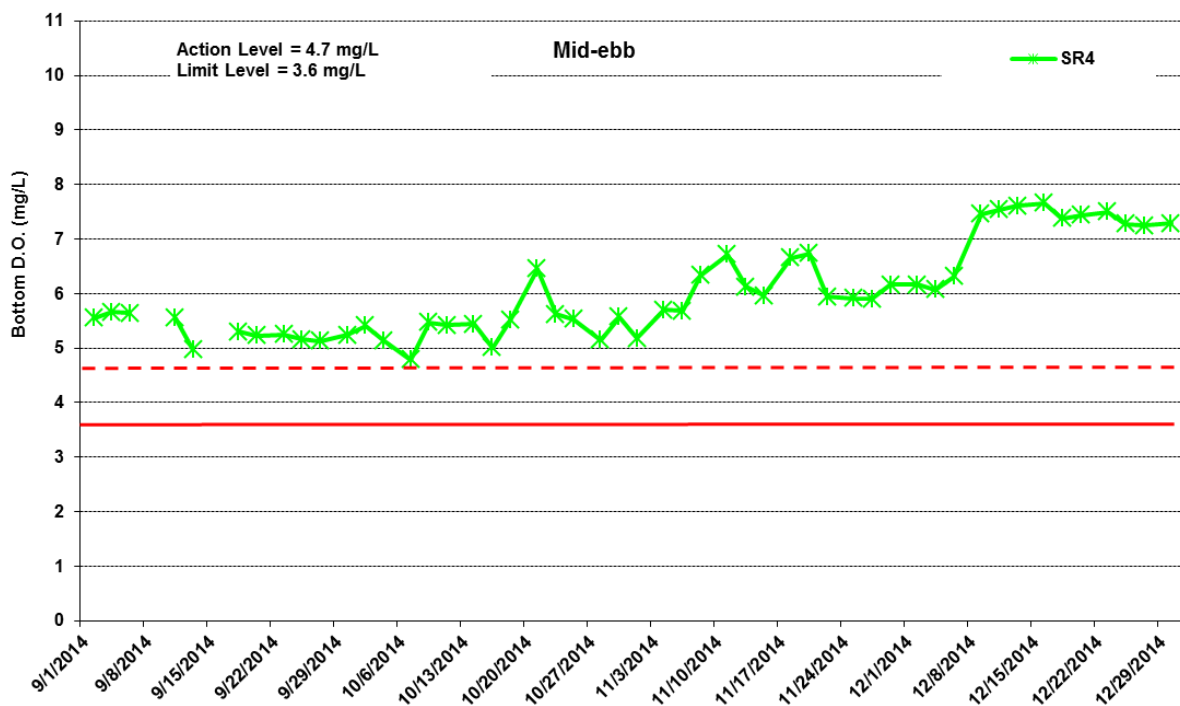
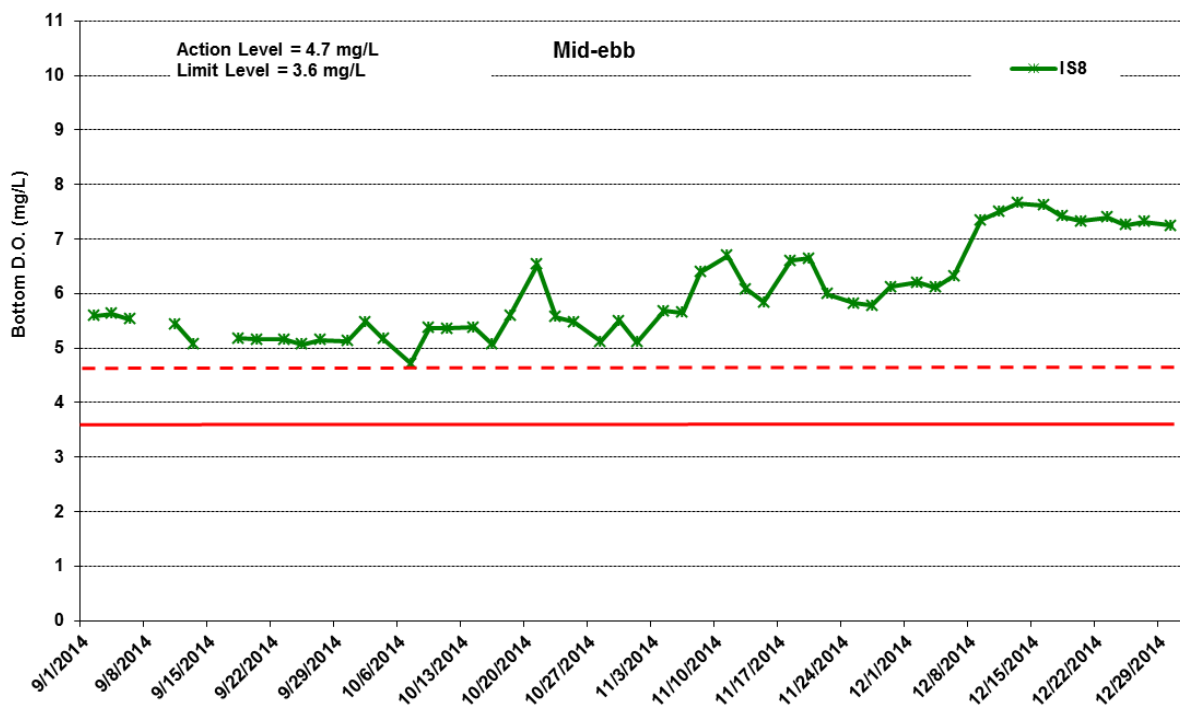


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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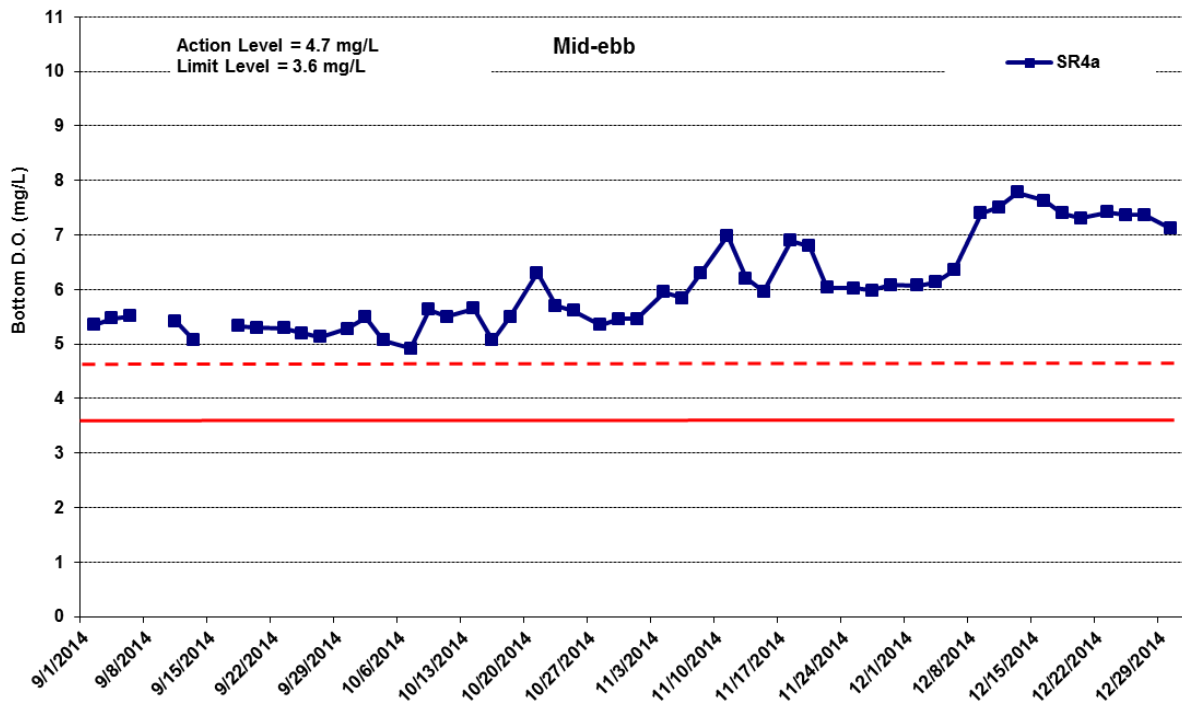


Figure J16 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

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Management**



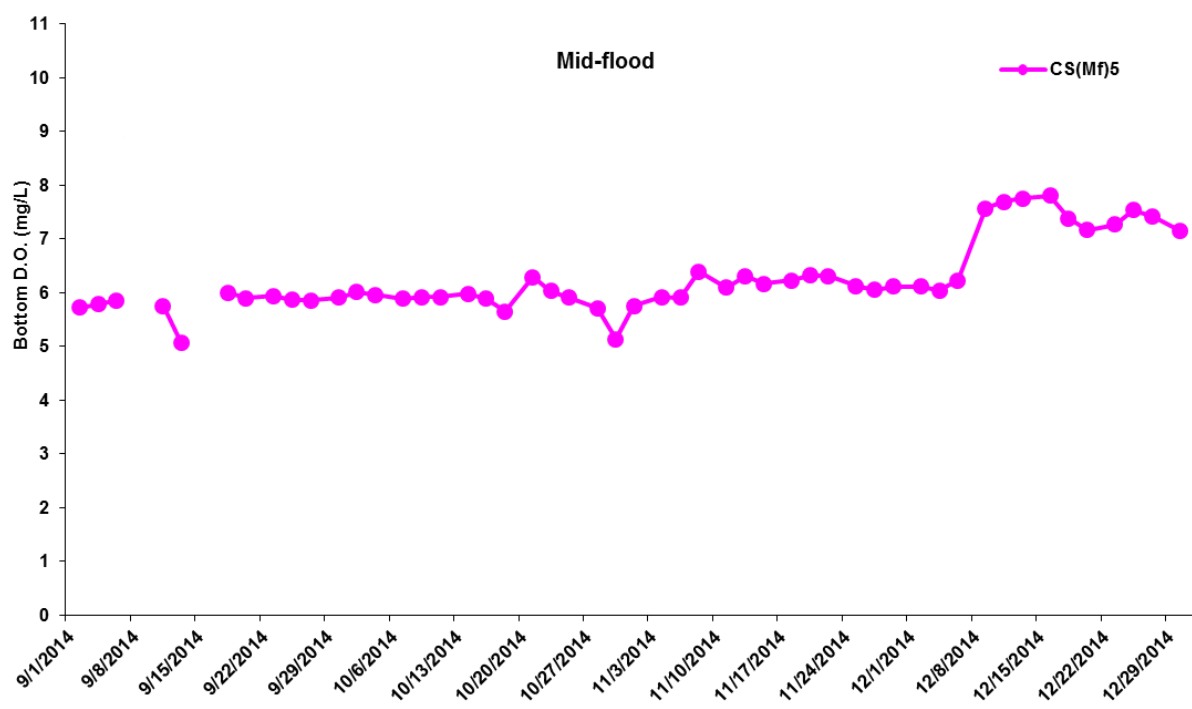
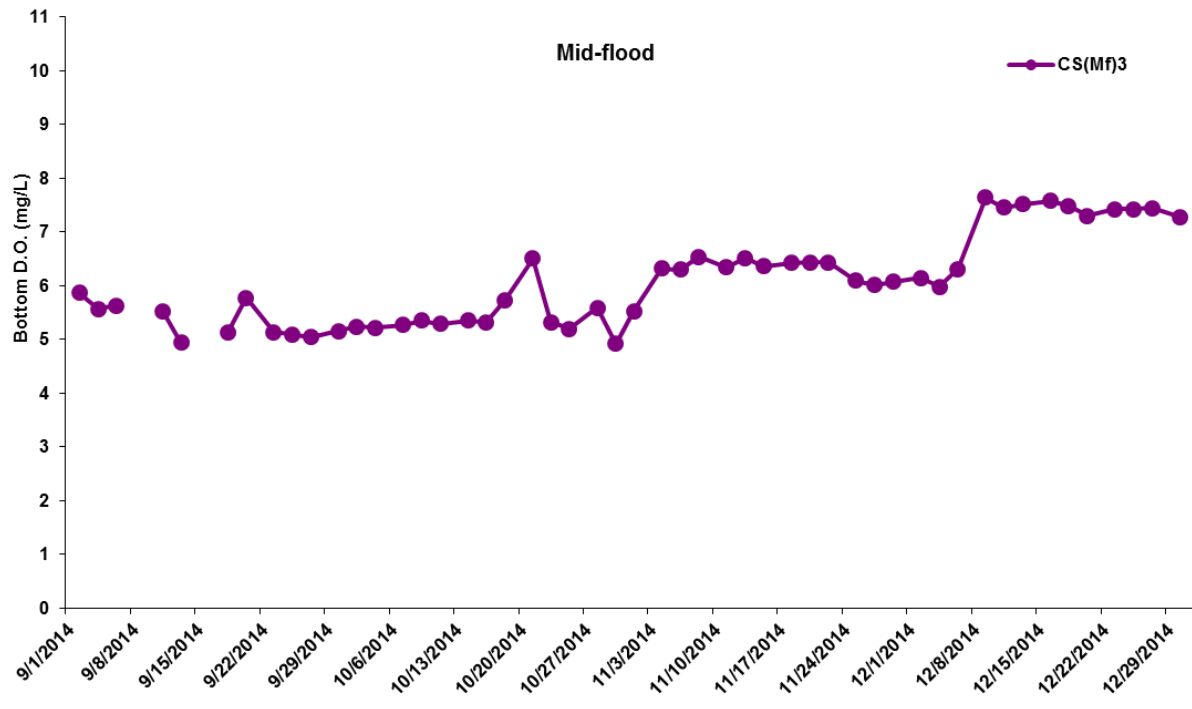


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

Environmental Resources Management



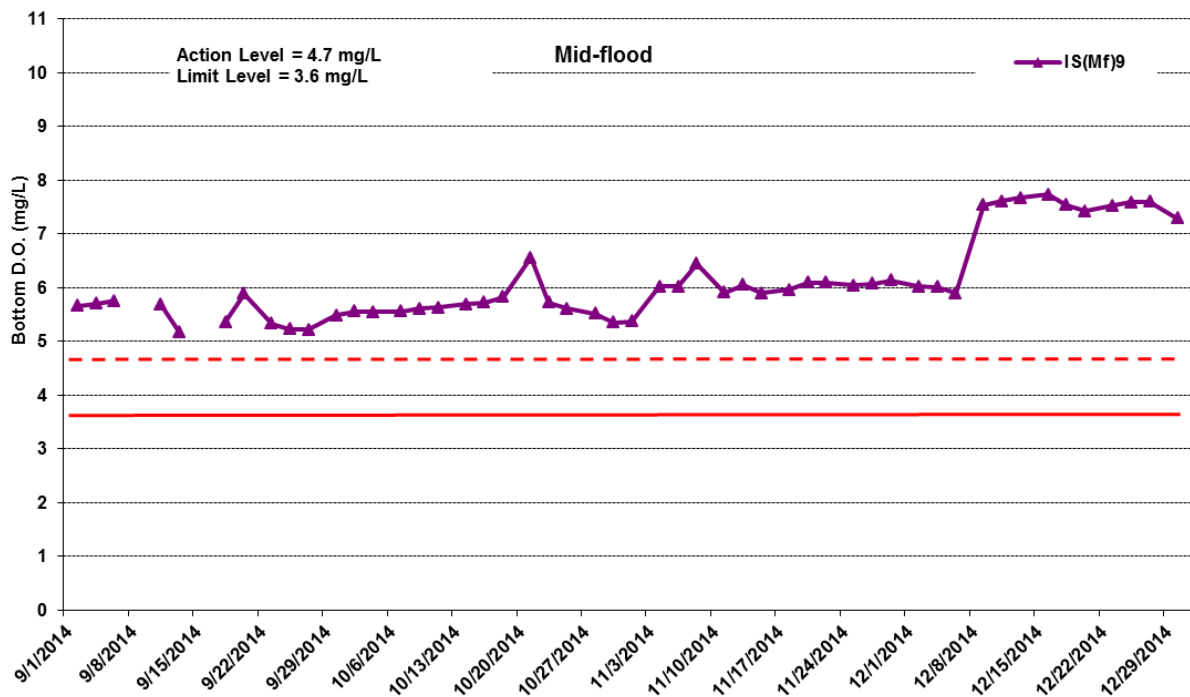
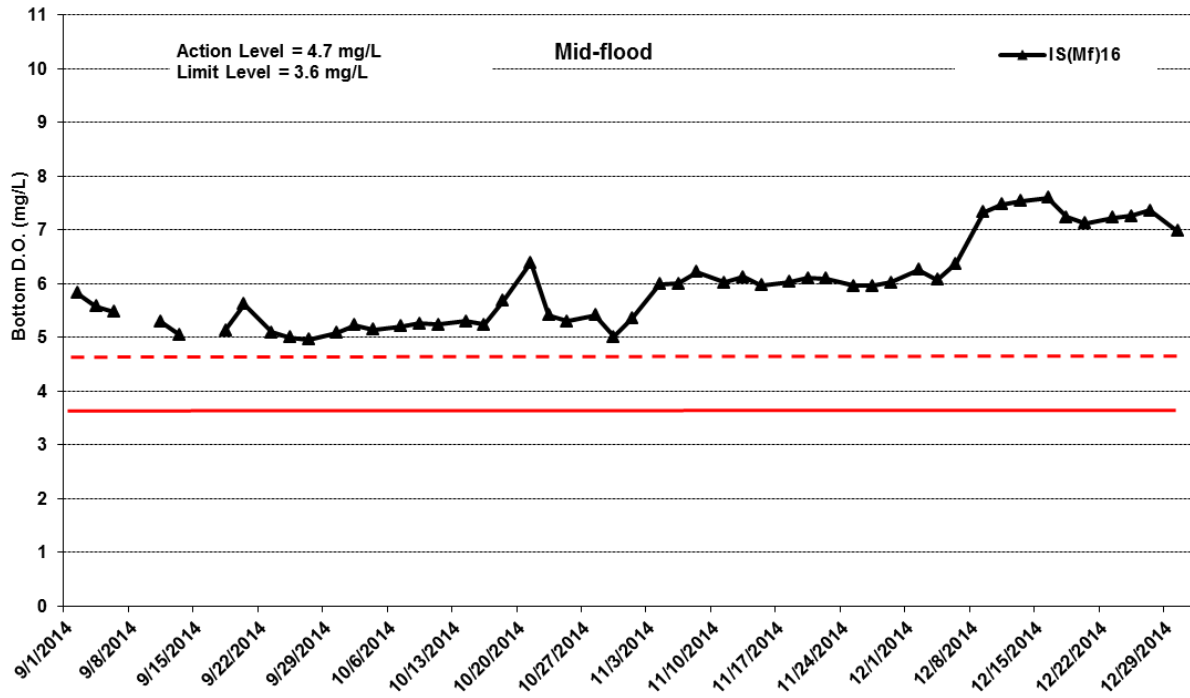


Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



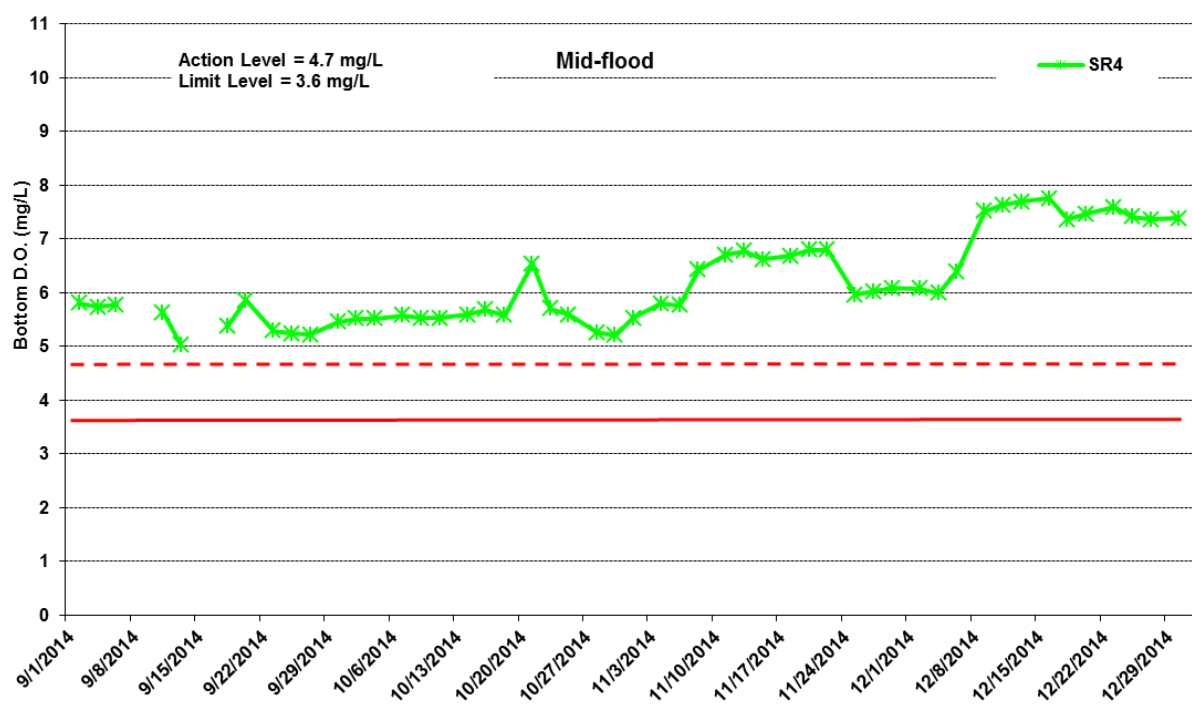
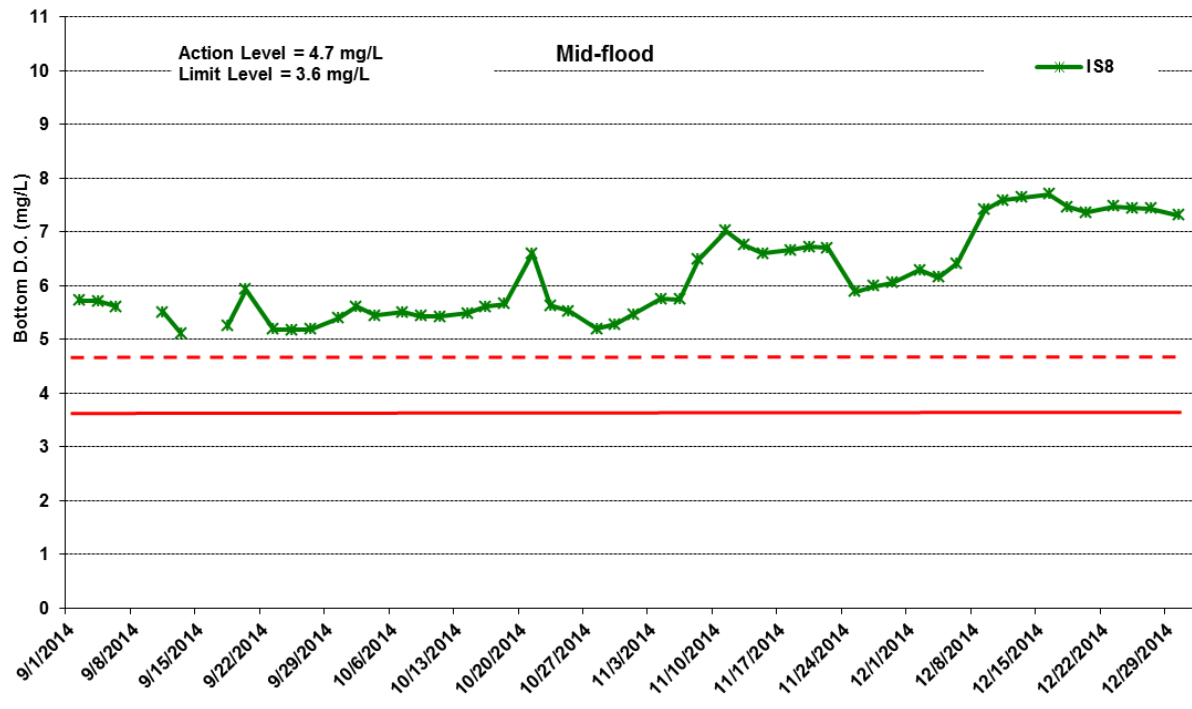


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

Environmental Resources Management



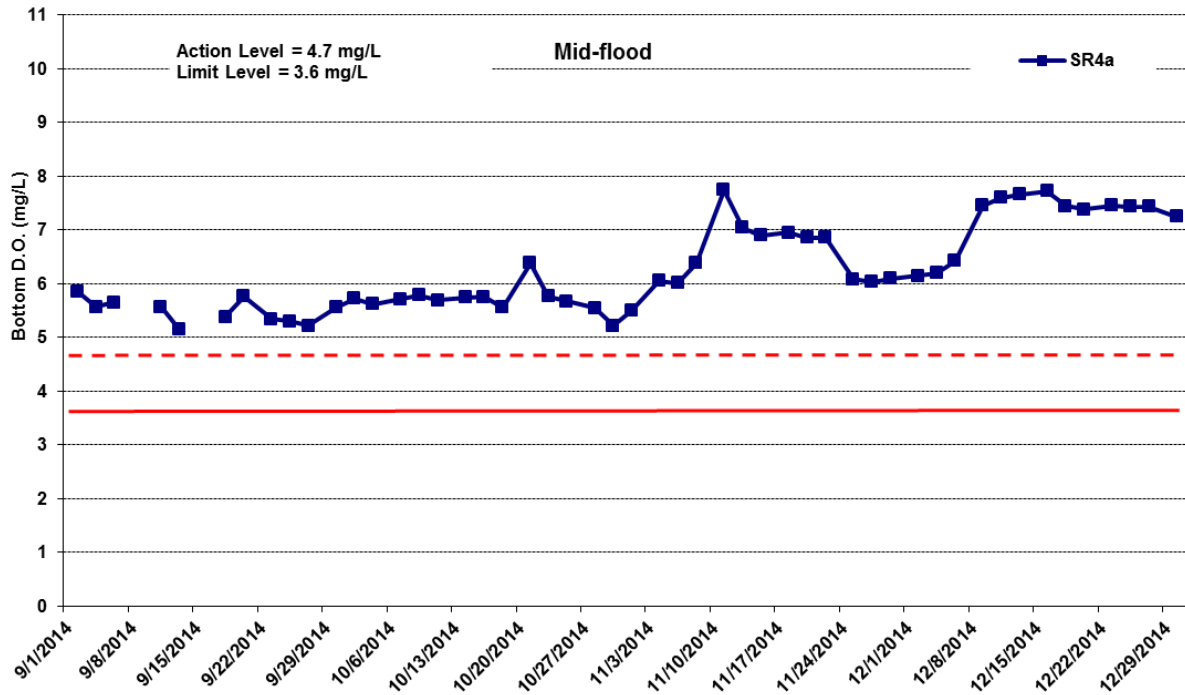


Figure J20 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



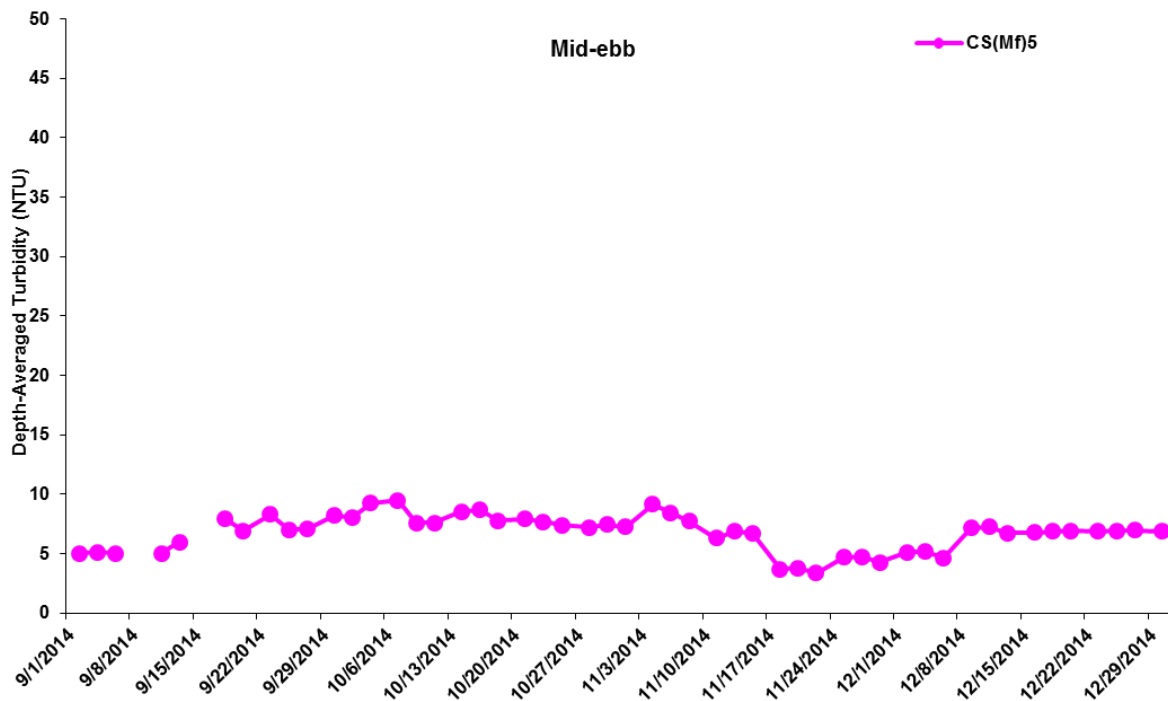
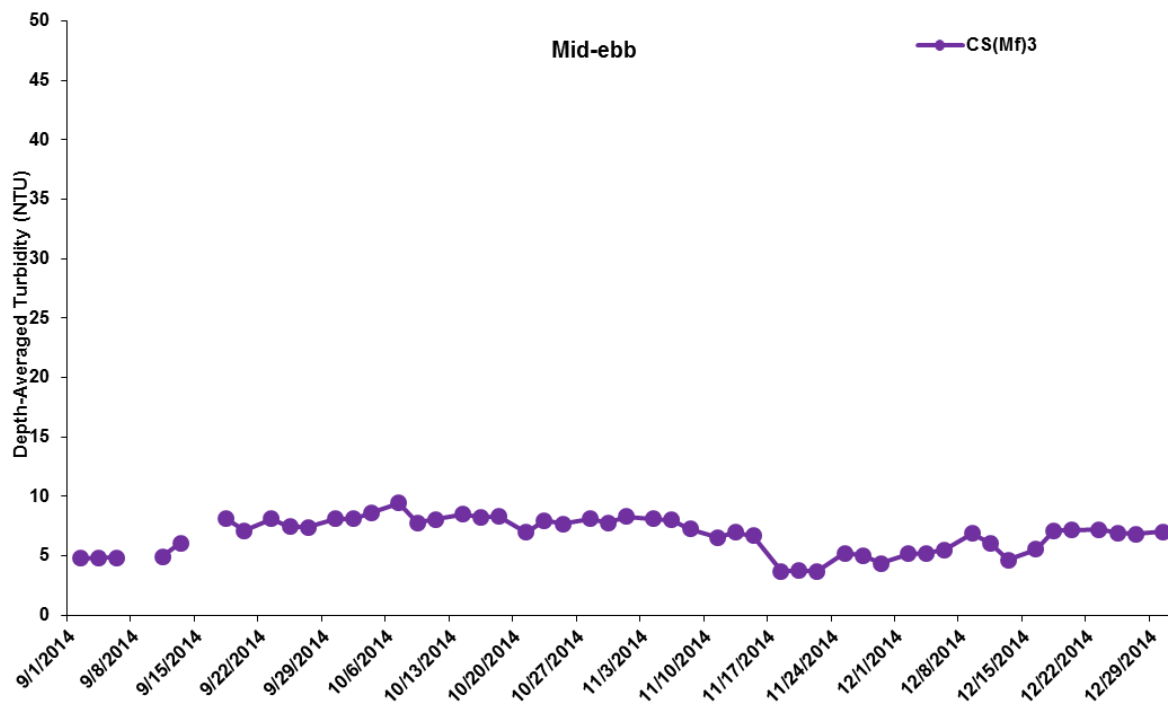


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



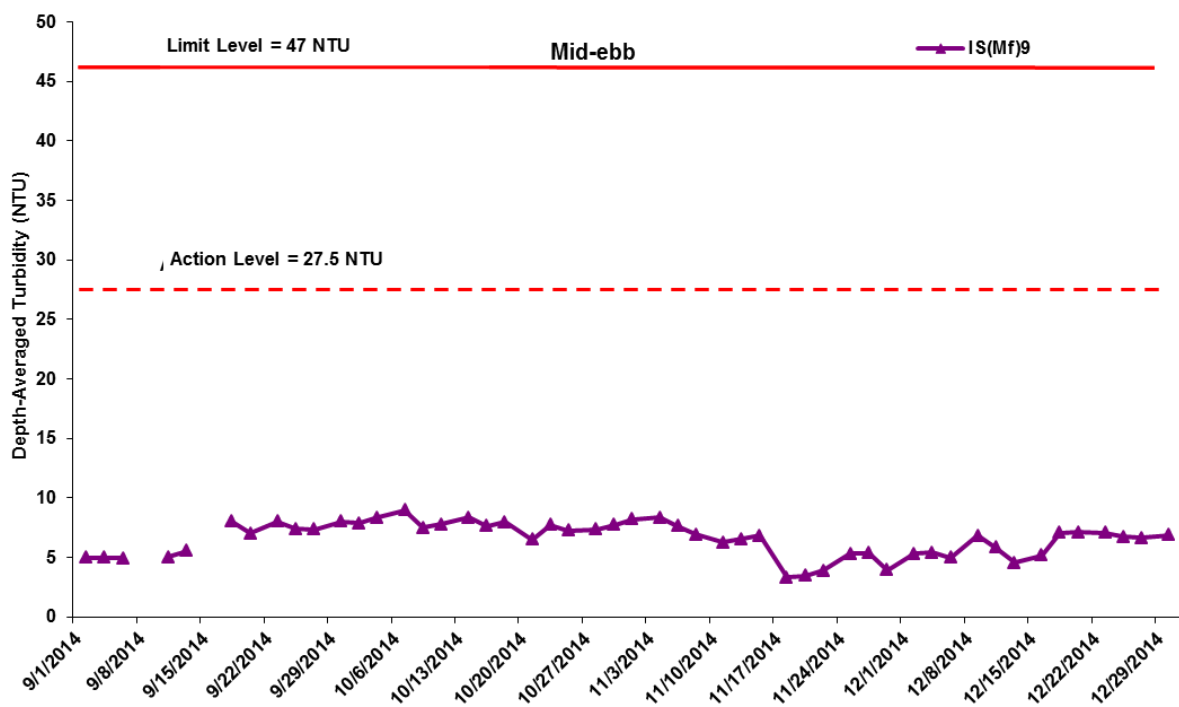
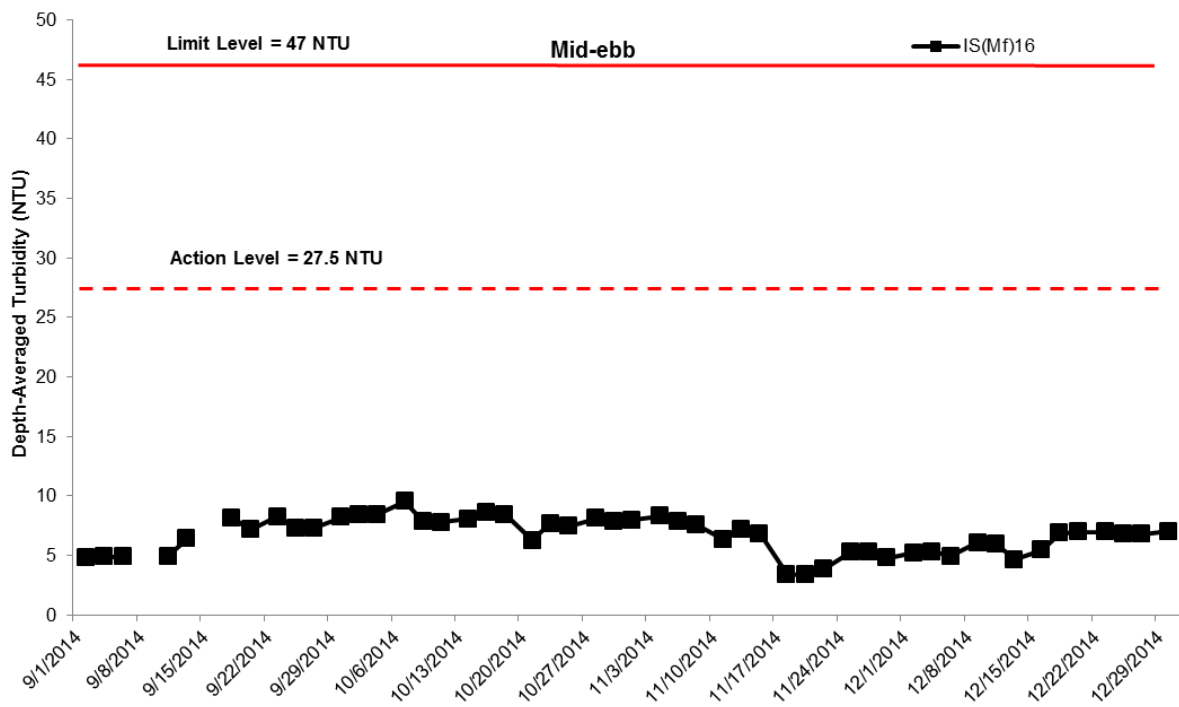


Figure J22 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



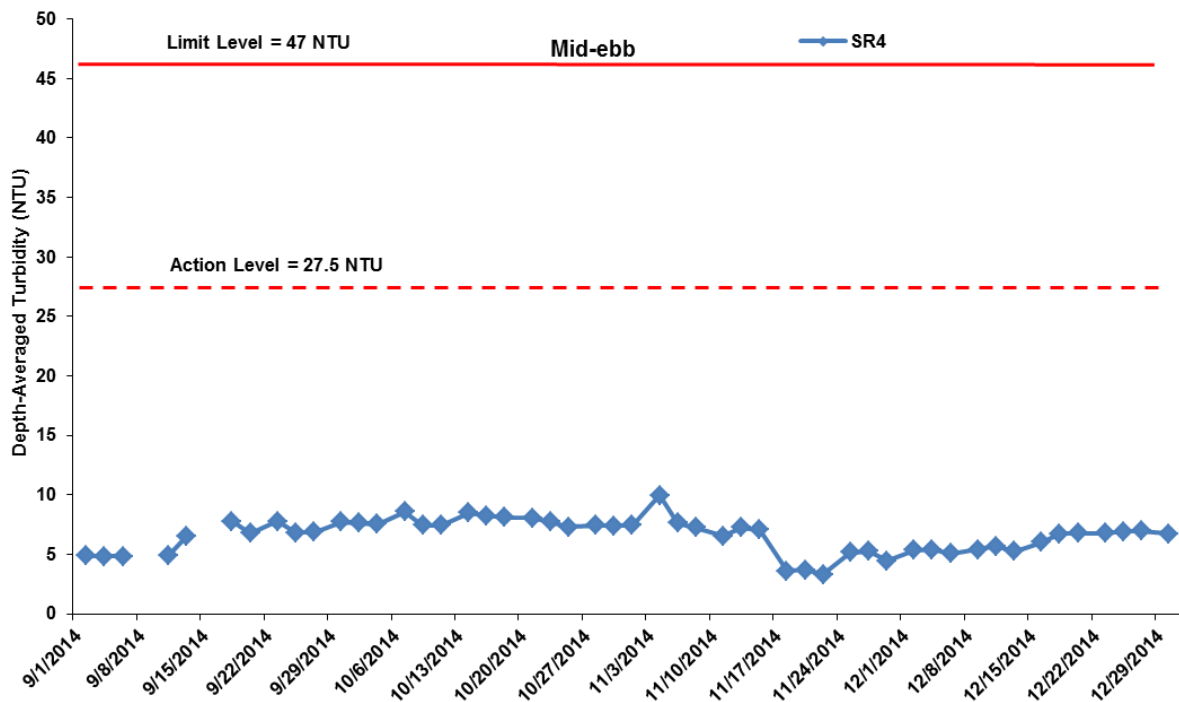
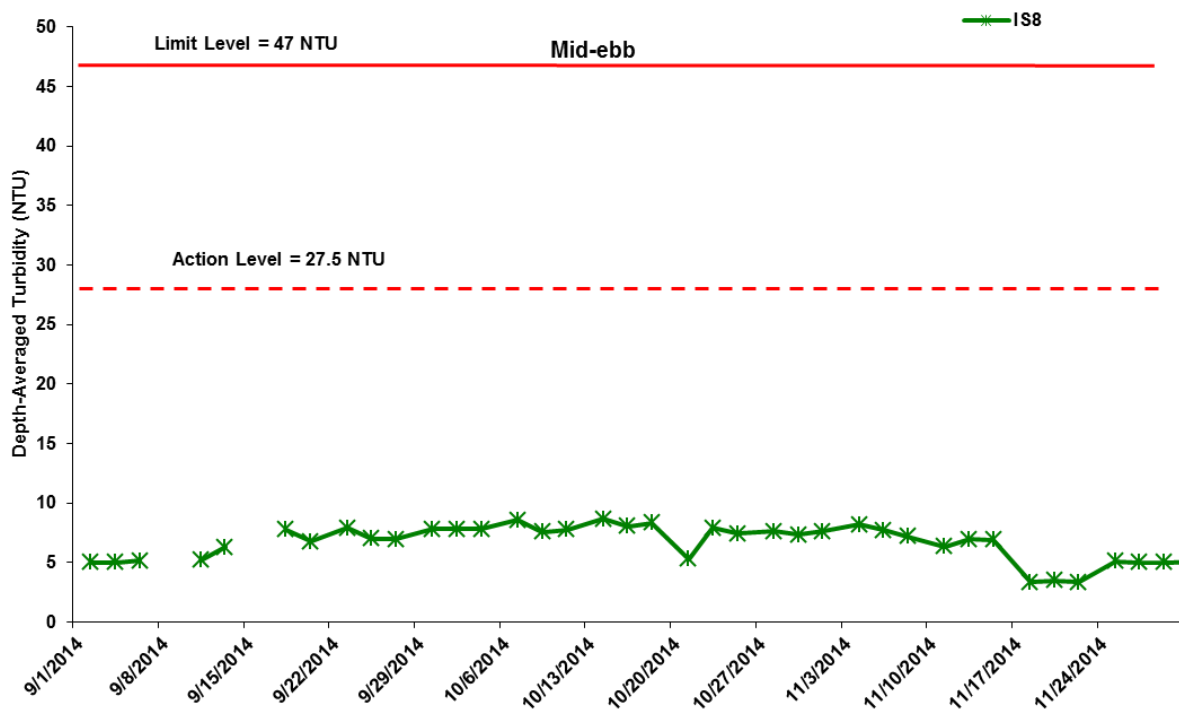


Figure J23 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



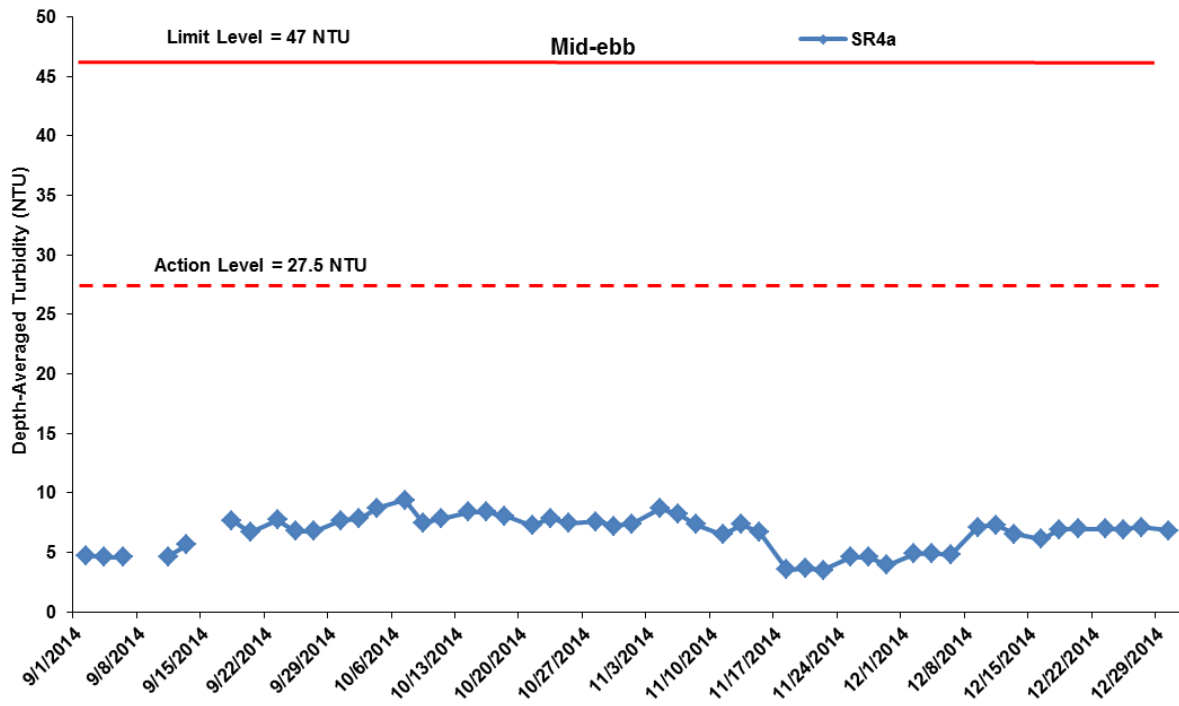


Figure J24 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



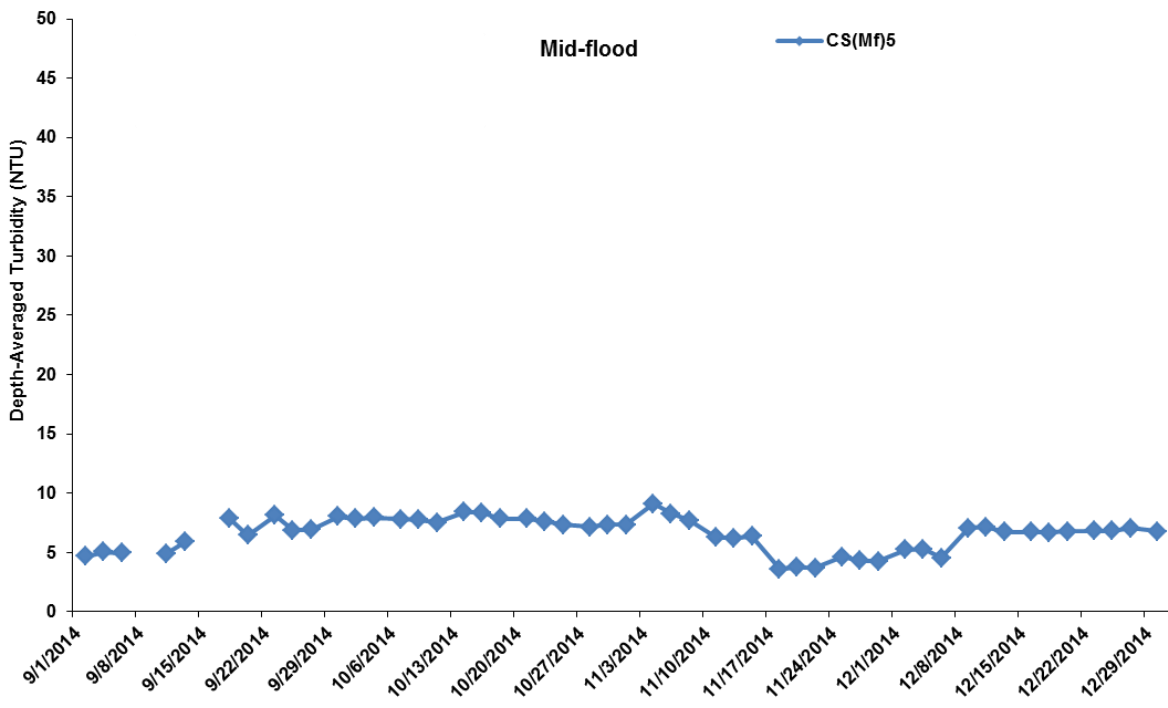
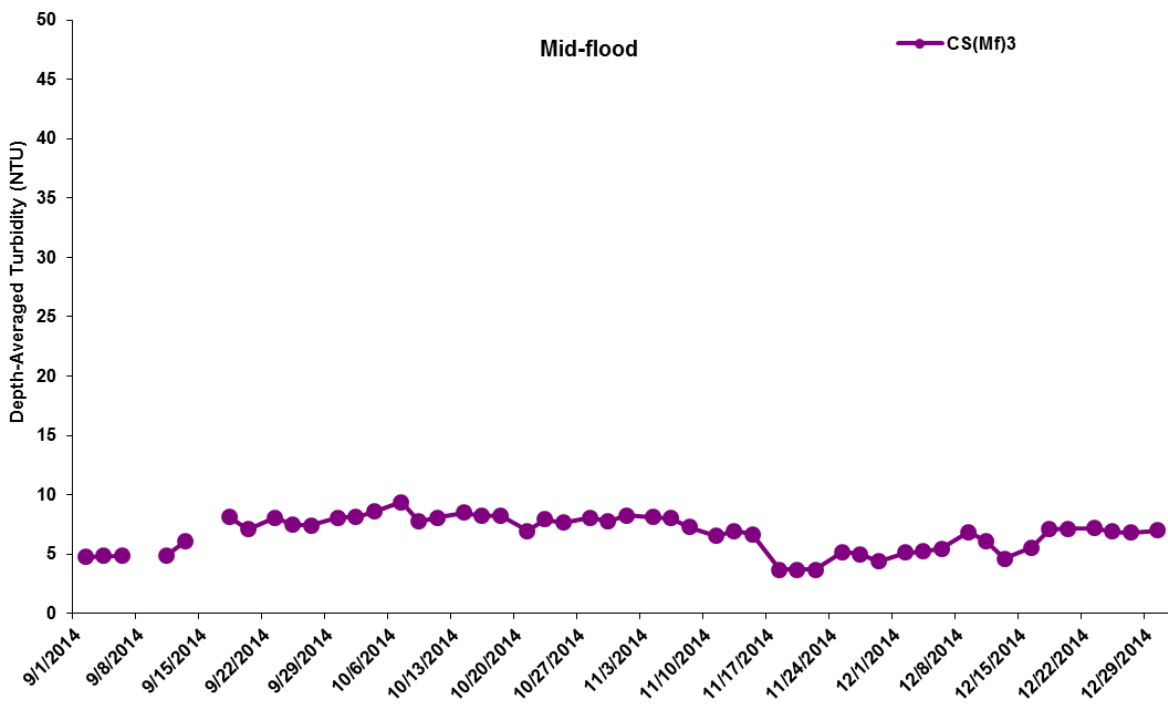


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(MF)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



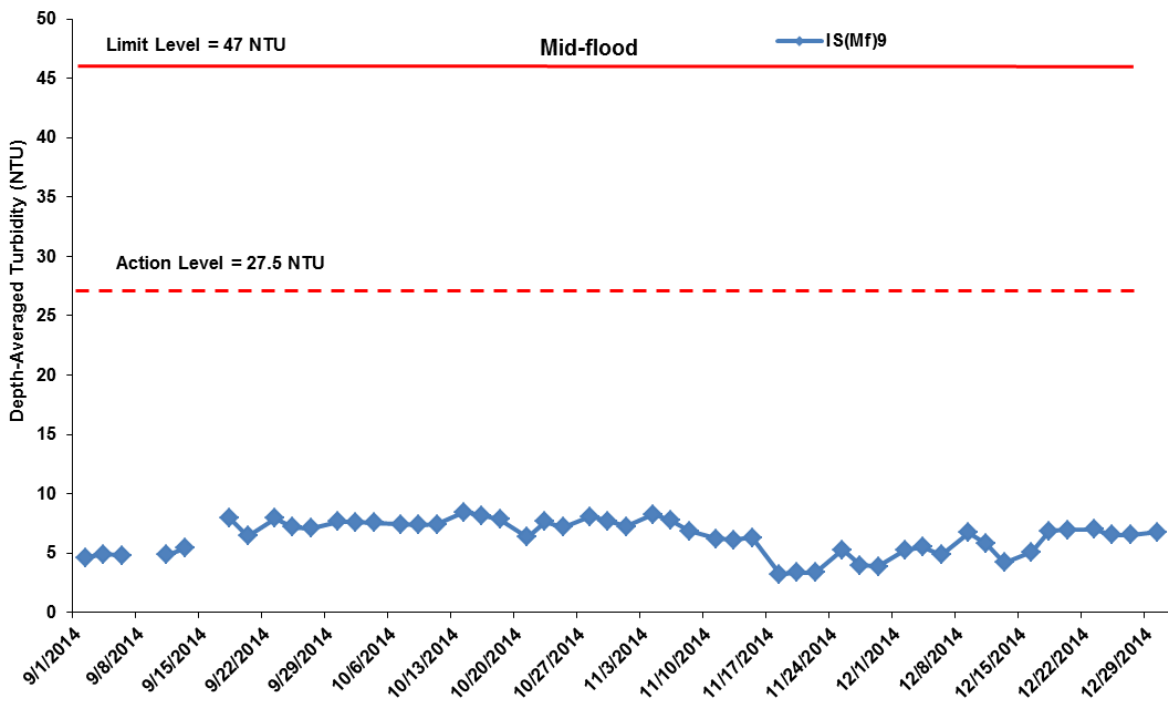
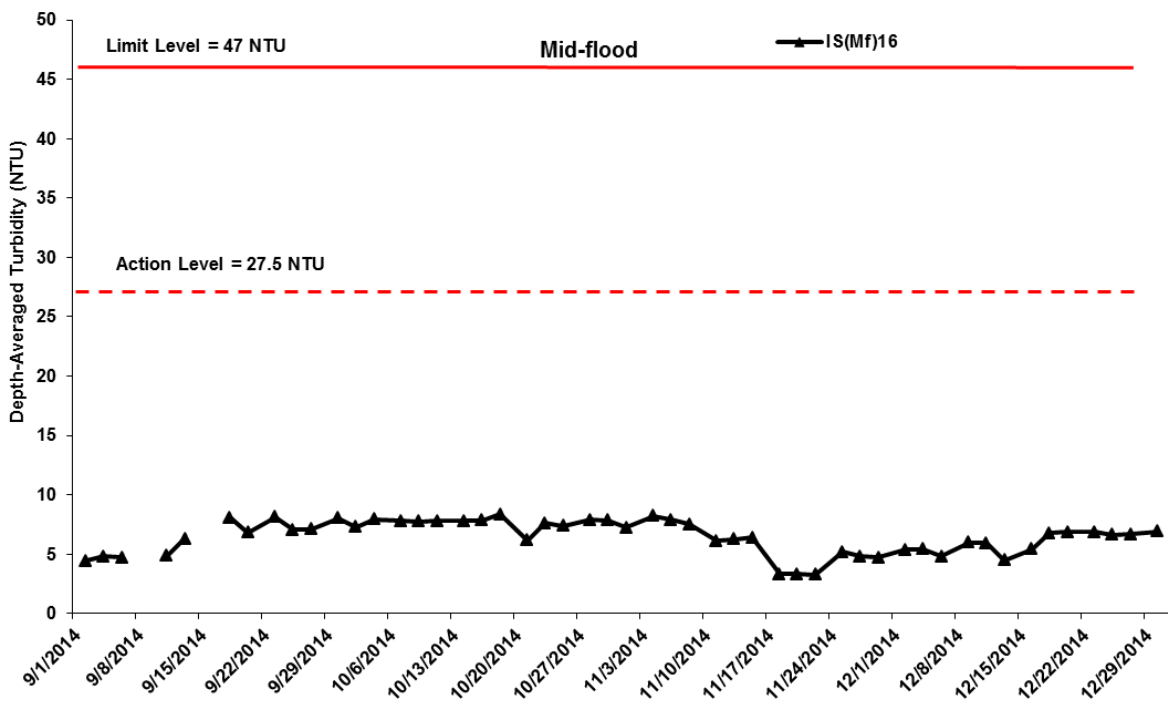


Figure J26 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



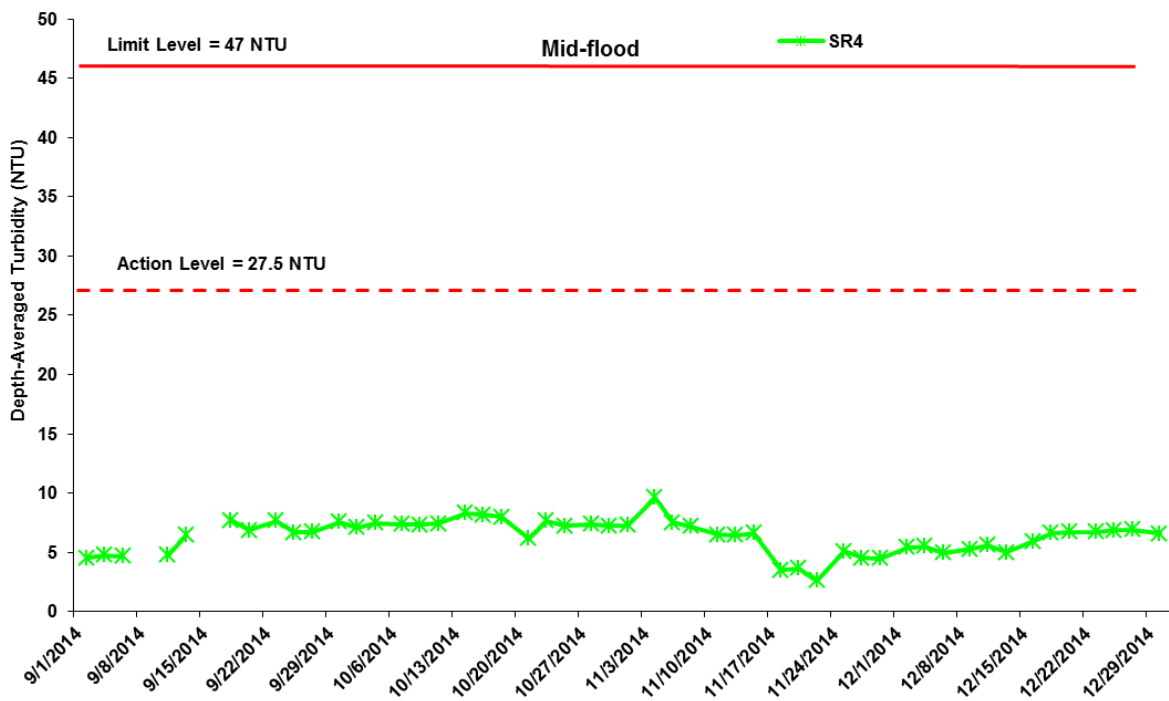
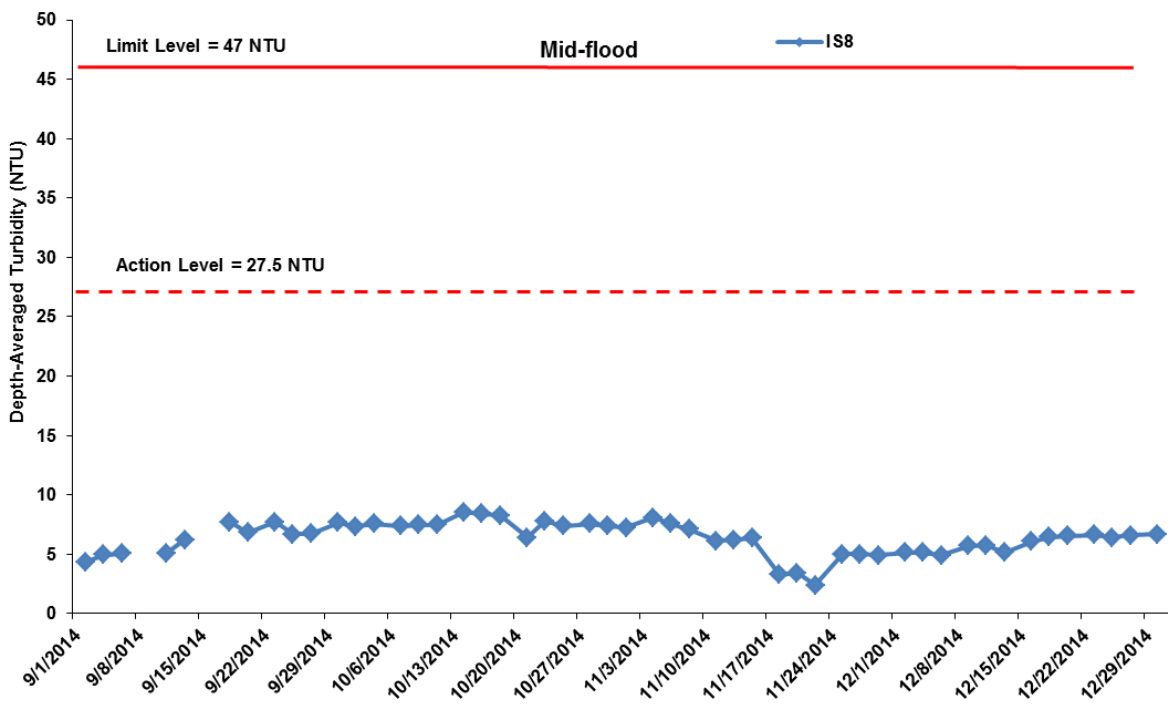


Figure J27 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



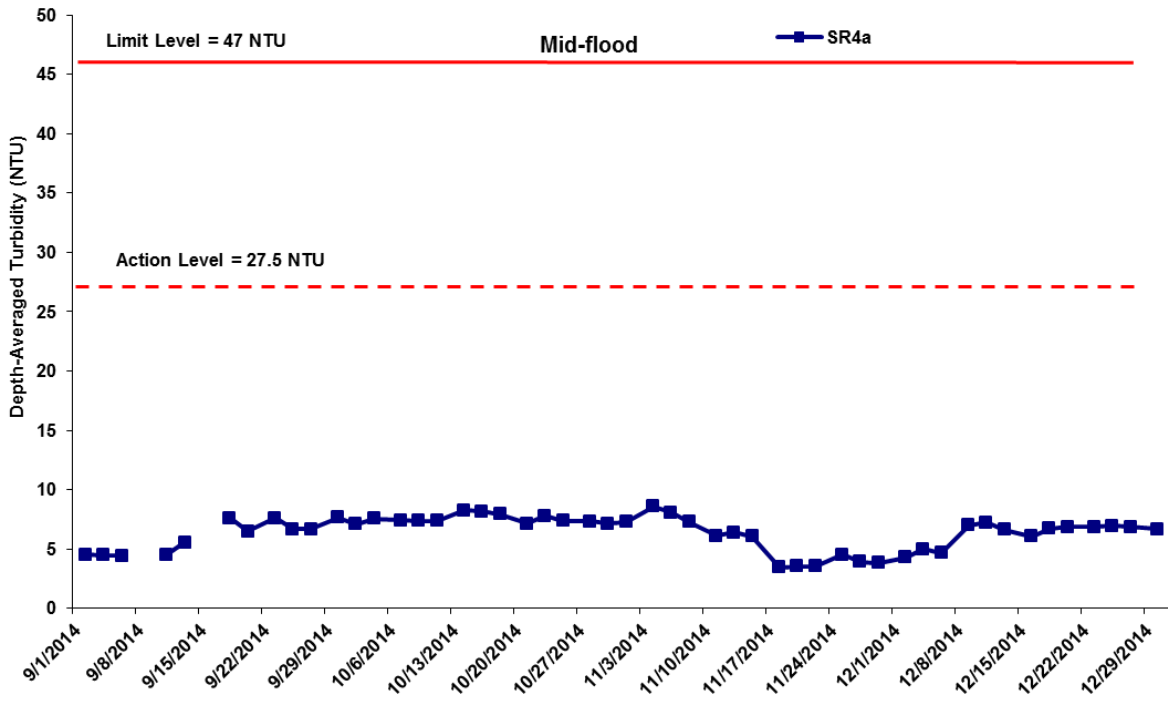


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



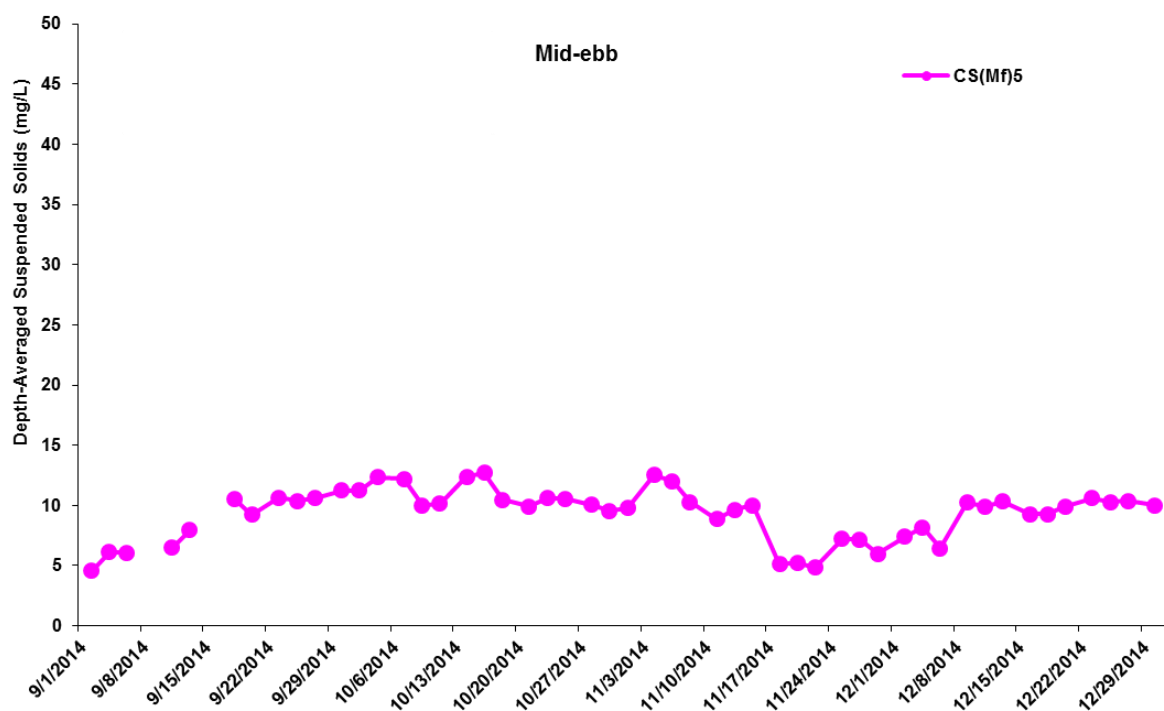
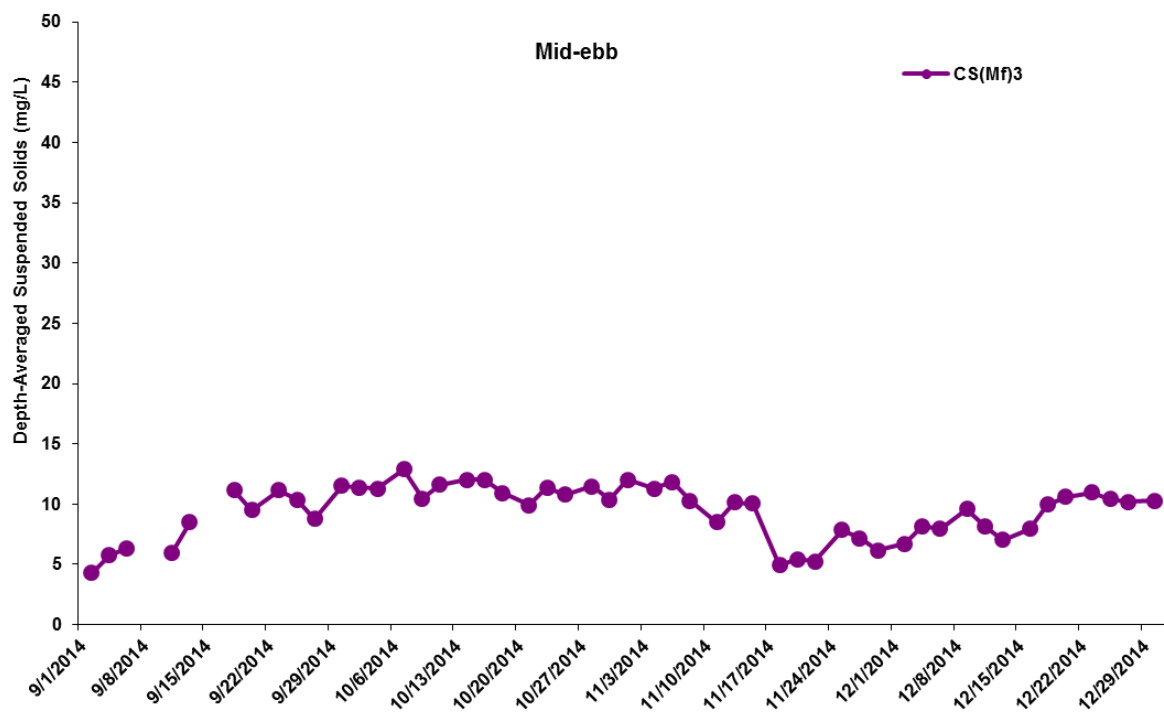


Figure J29 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



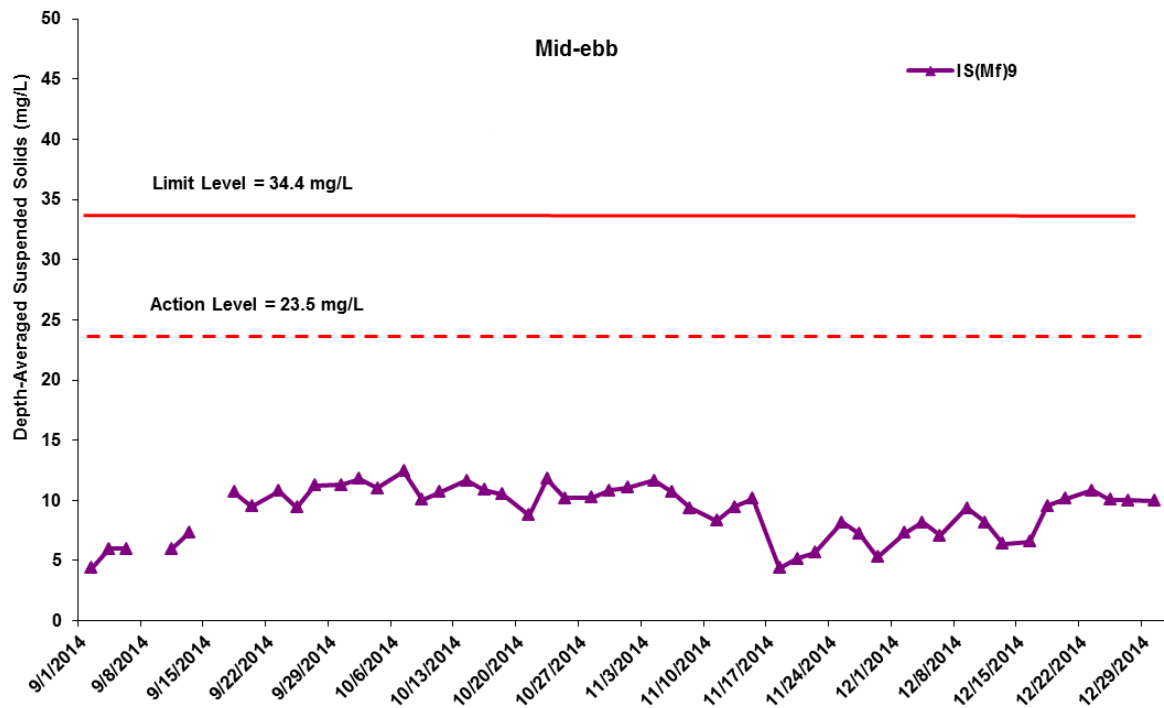
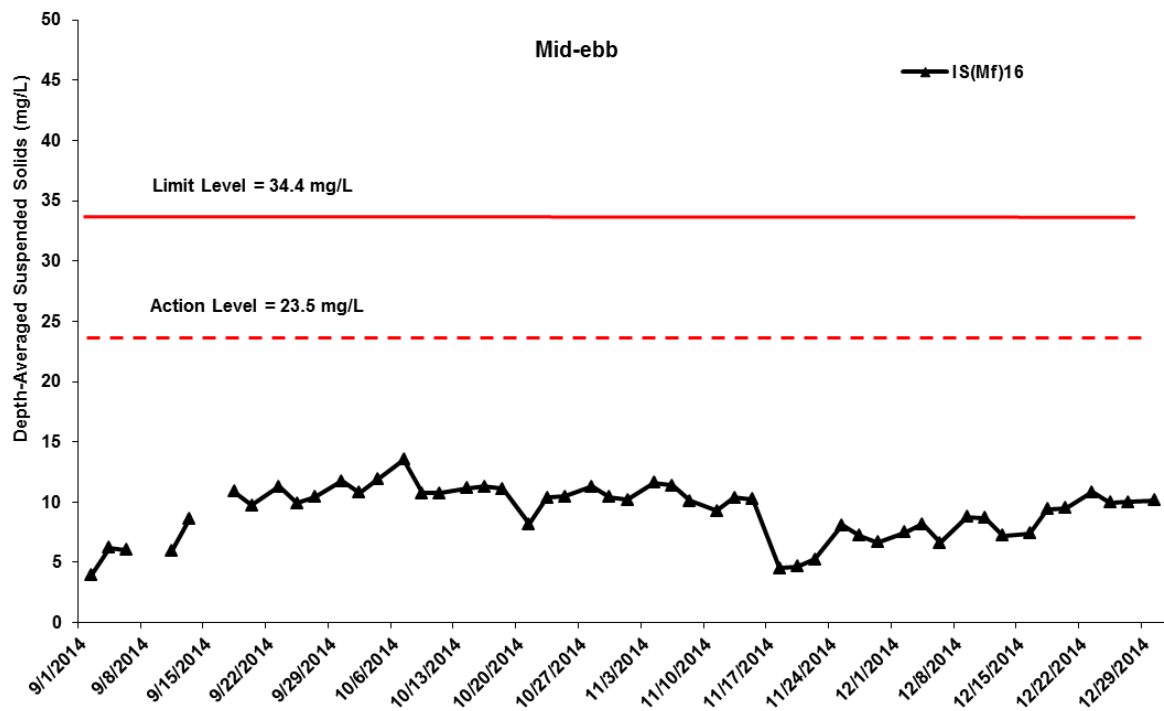


Figure J30 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



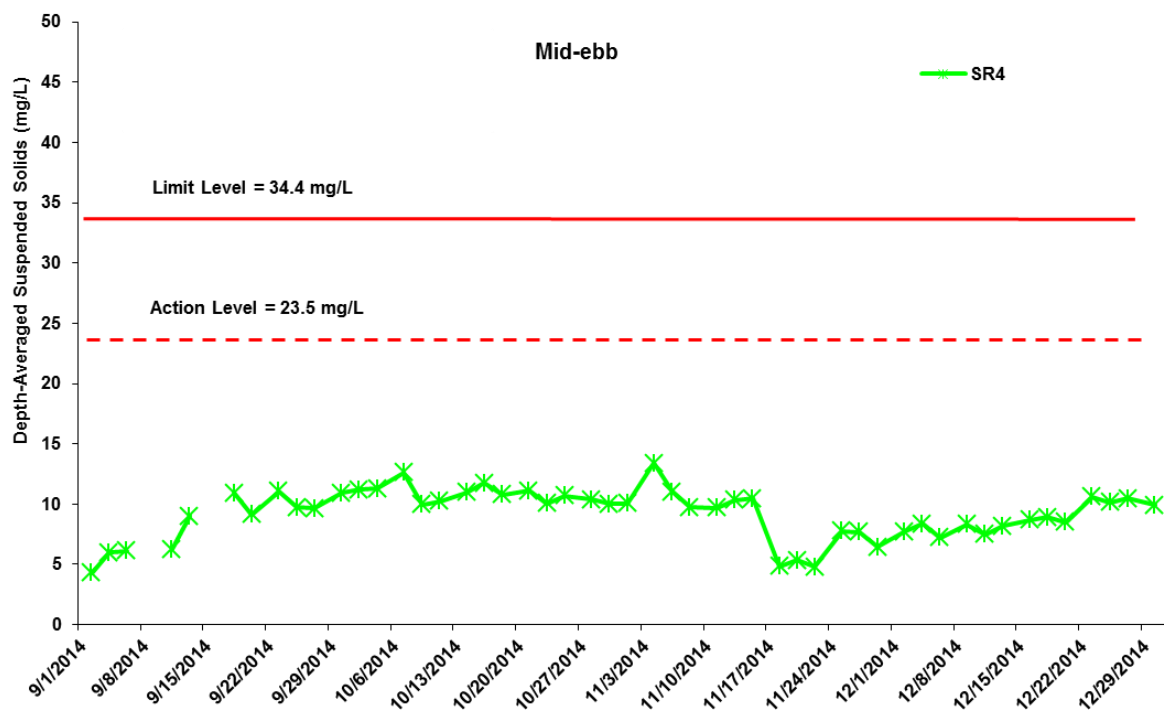
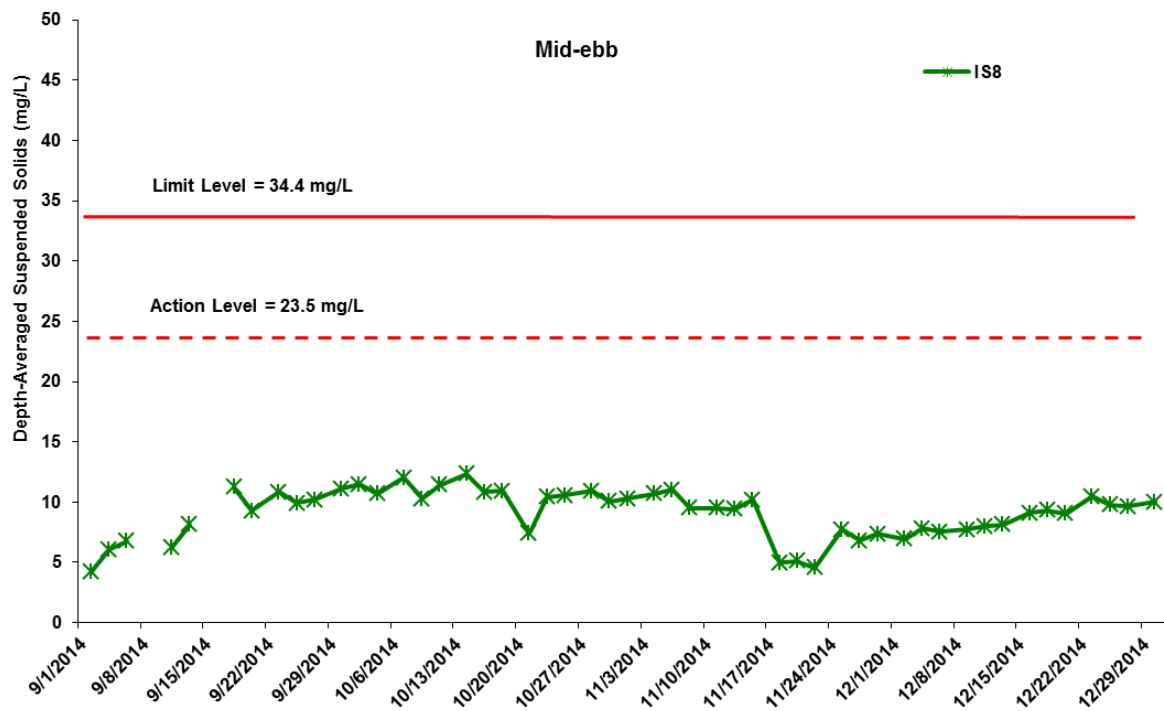


Figure J31 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



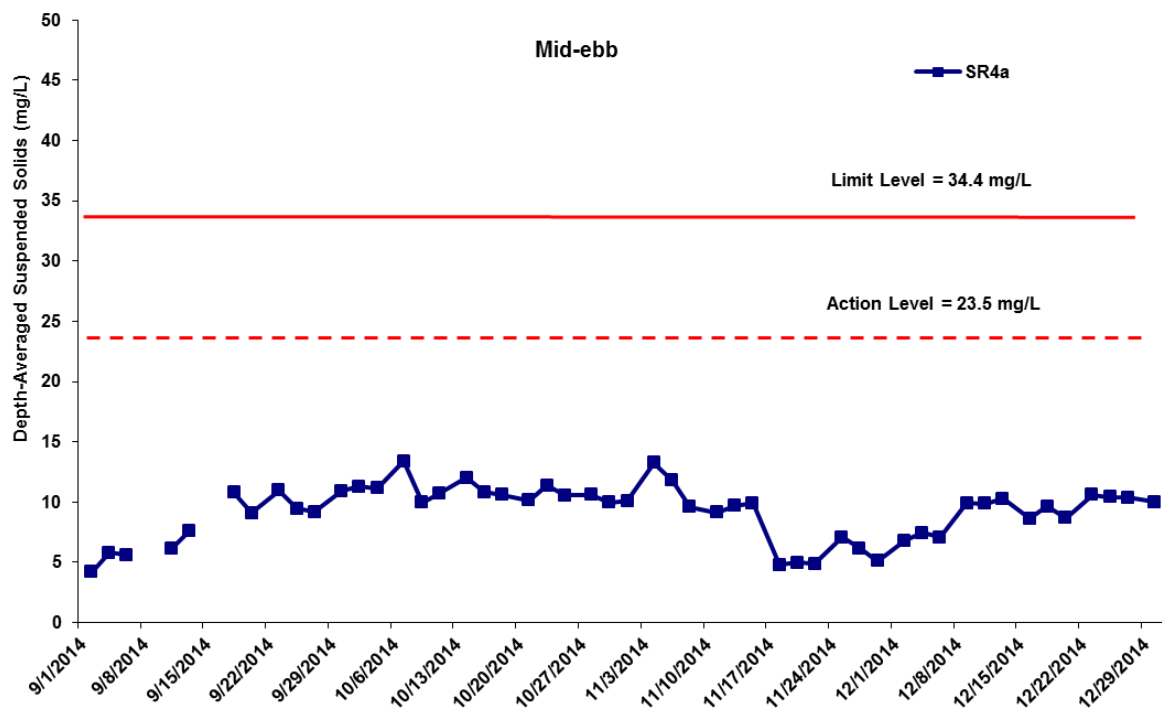


Figure J32 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



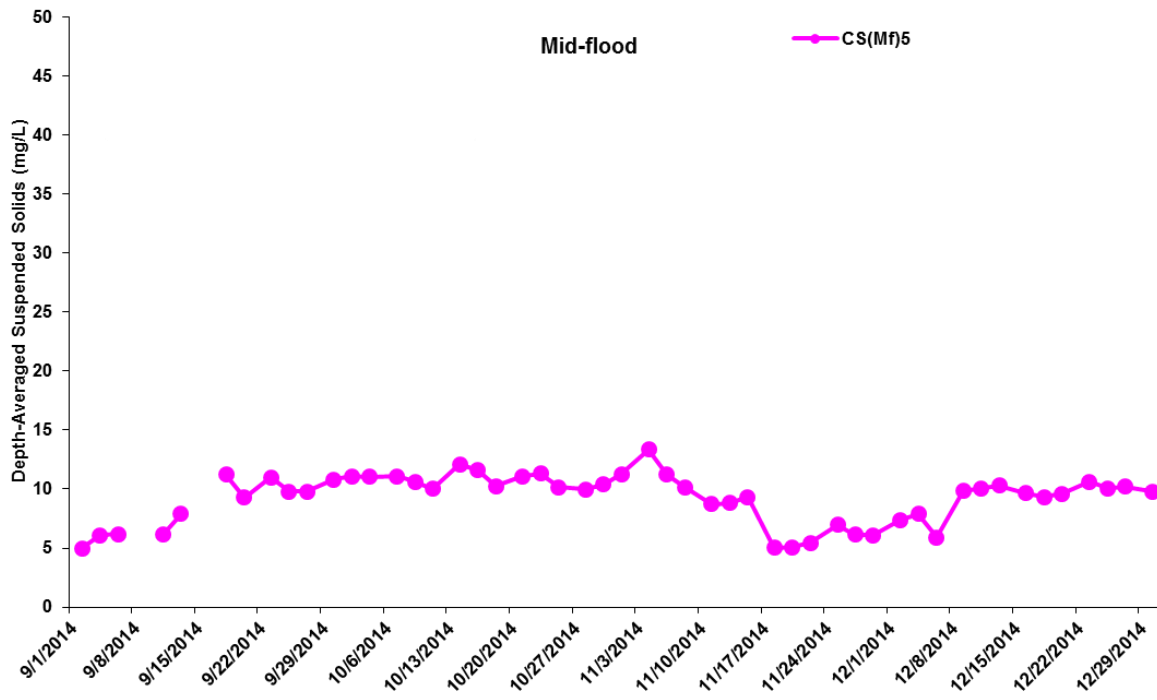
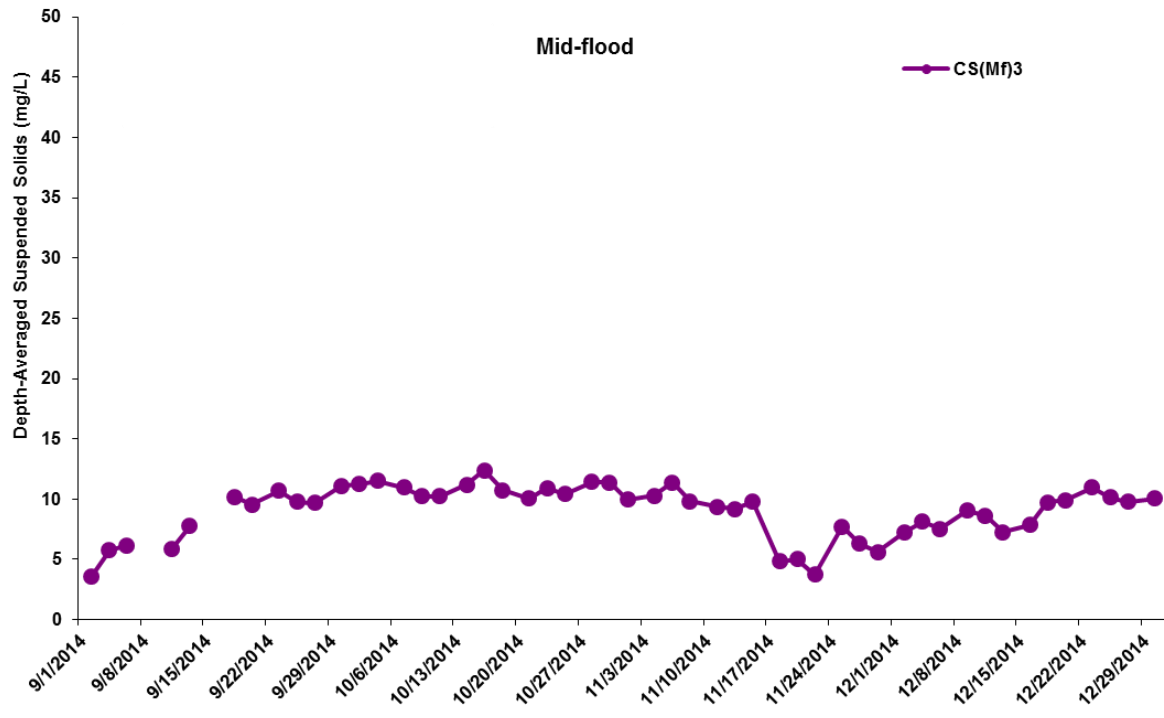


Figure J33 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2014 at CS(Mf)3 and CS(Mf)5.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



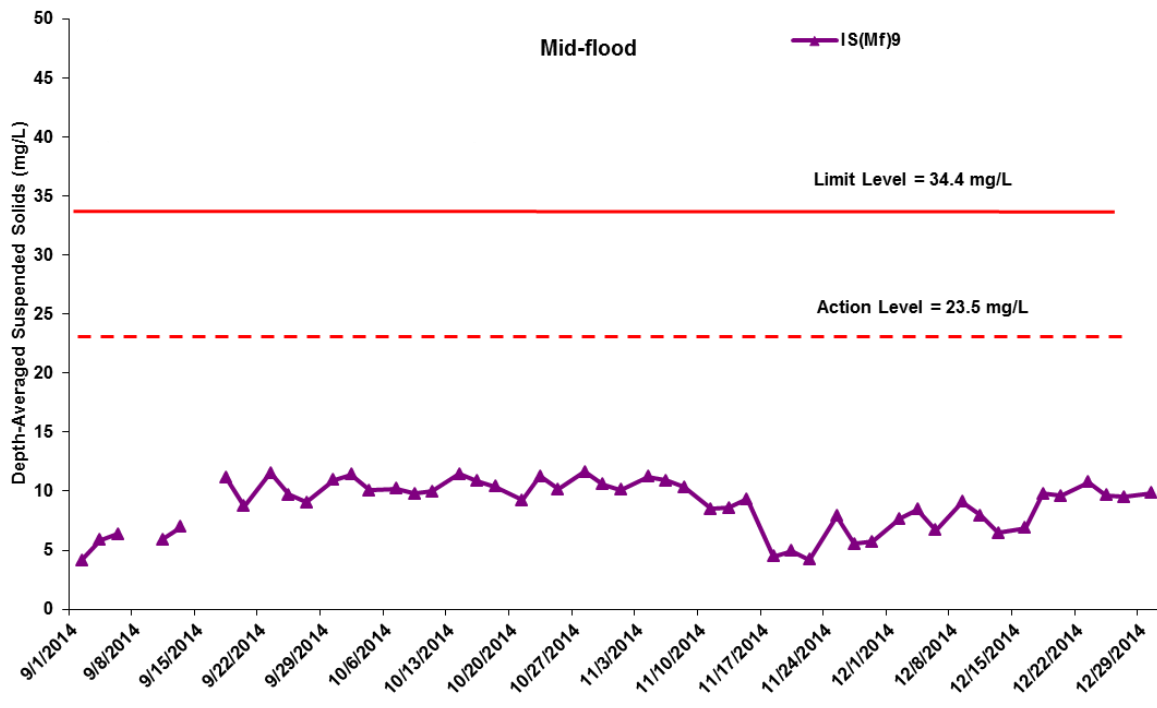
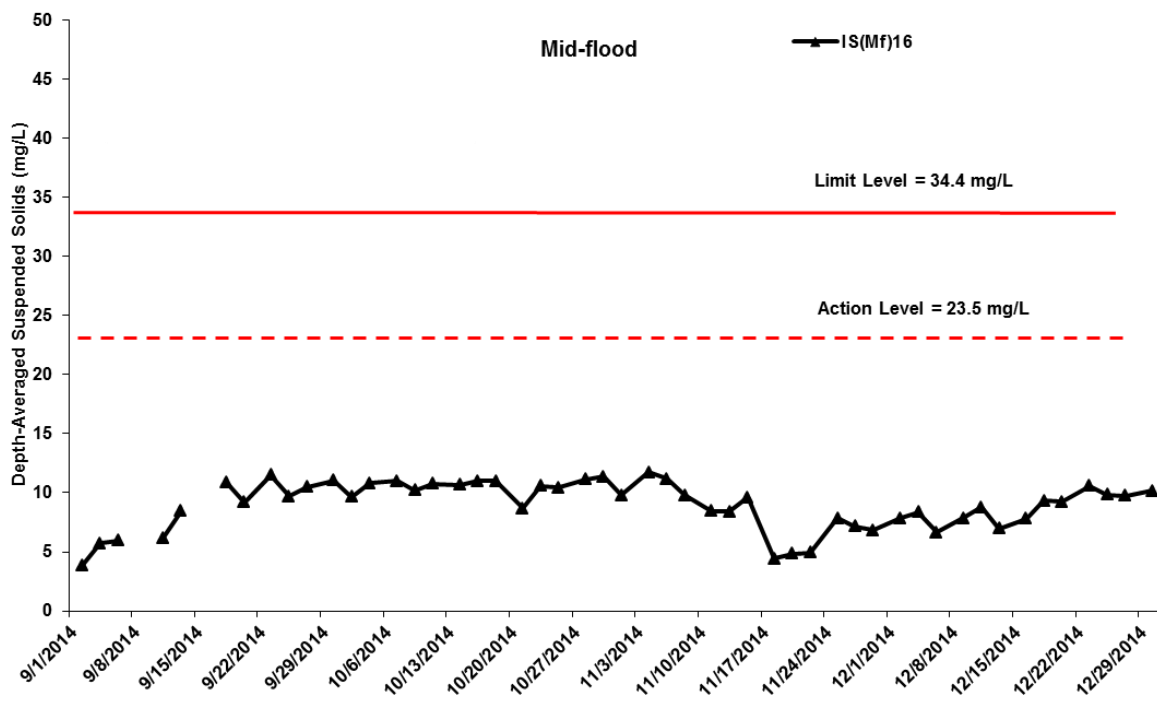


Figure J34 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2014 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



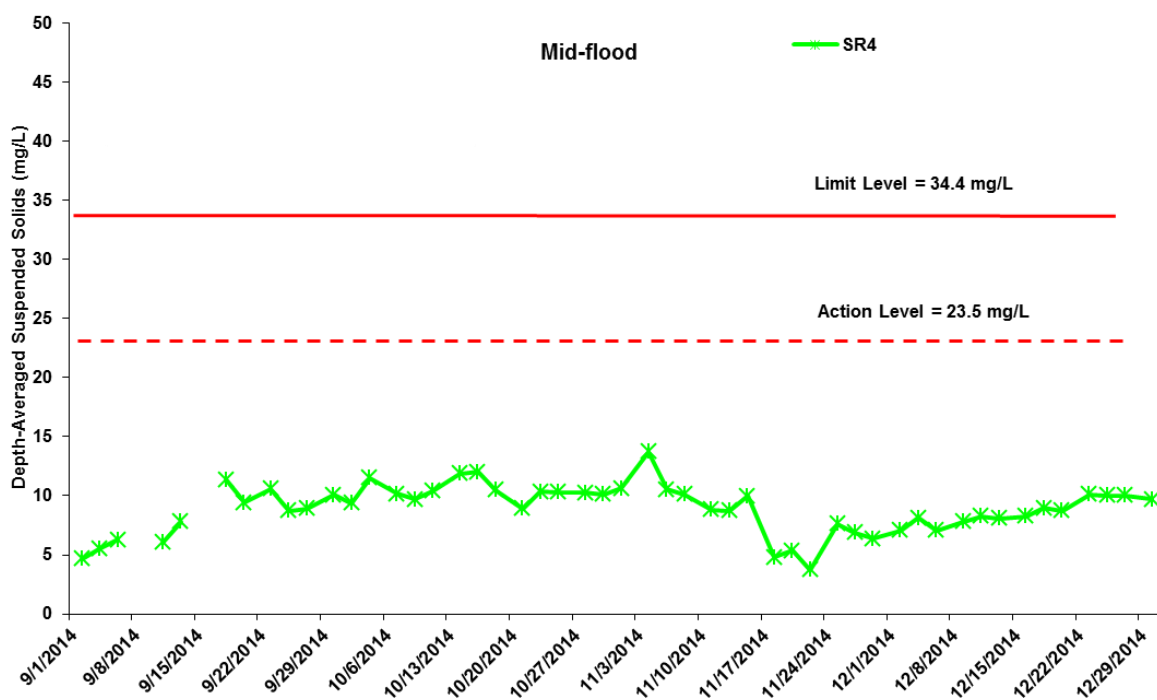
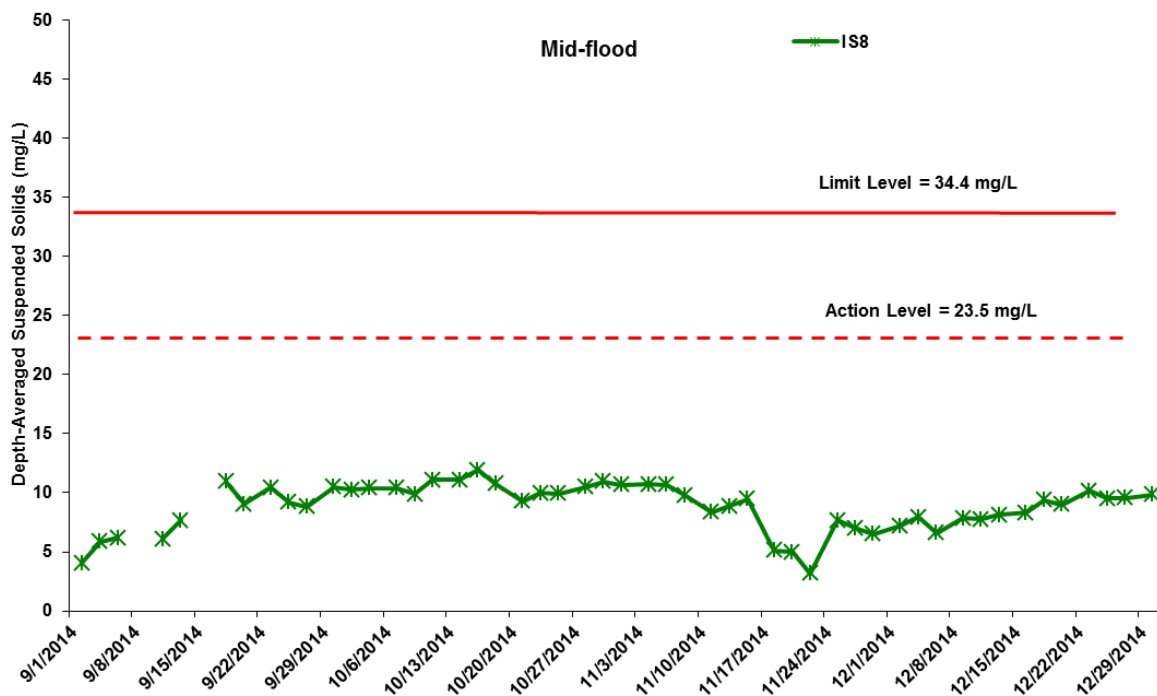


Figure J35 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2014 at IS8 and SR4.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



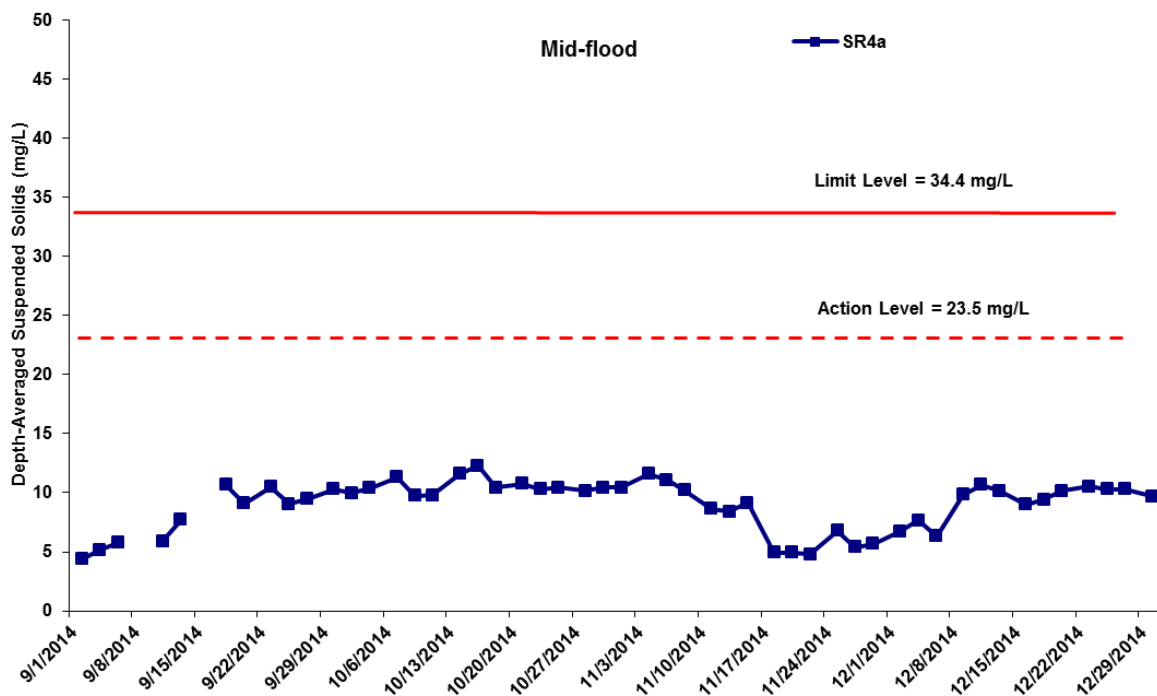


Figure J36 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2014 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period. Marine works within the reporting period include marine piling platform installation and marine piling. No monitoring was conducted on 16 September 2014 due to adverse weather condition. Note no marine works was undertaken on 9 September 2014.)

**Environmental
Resources
Management**



Appendix K

Impact Dolphin Monitoring Survey Results

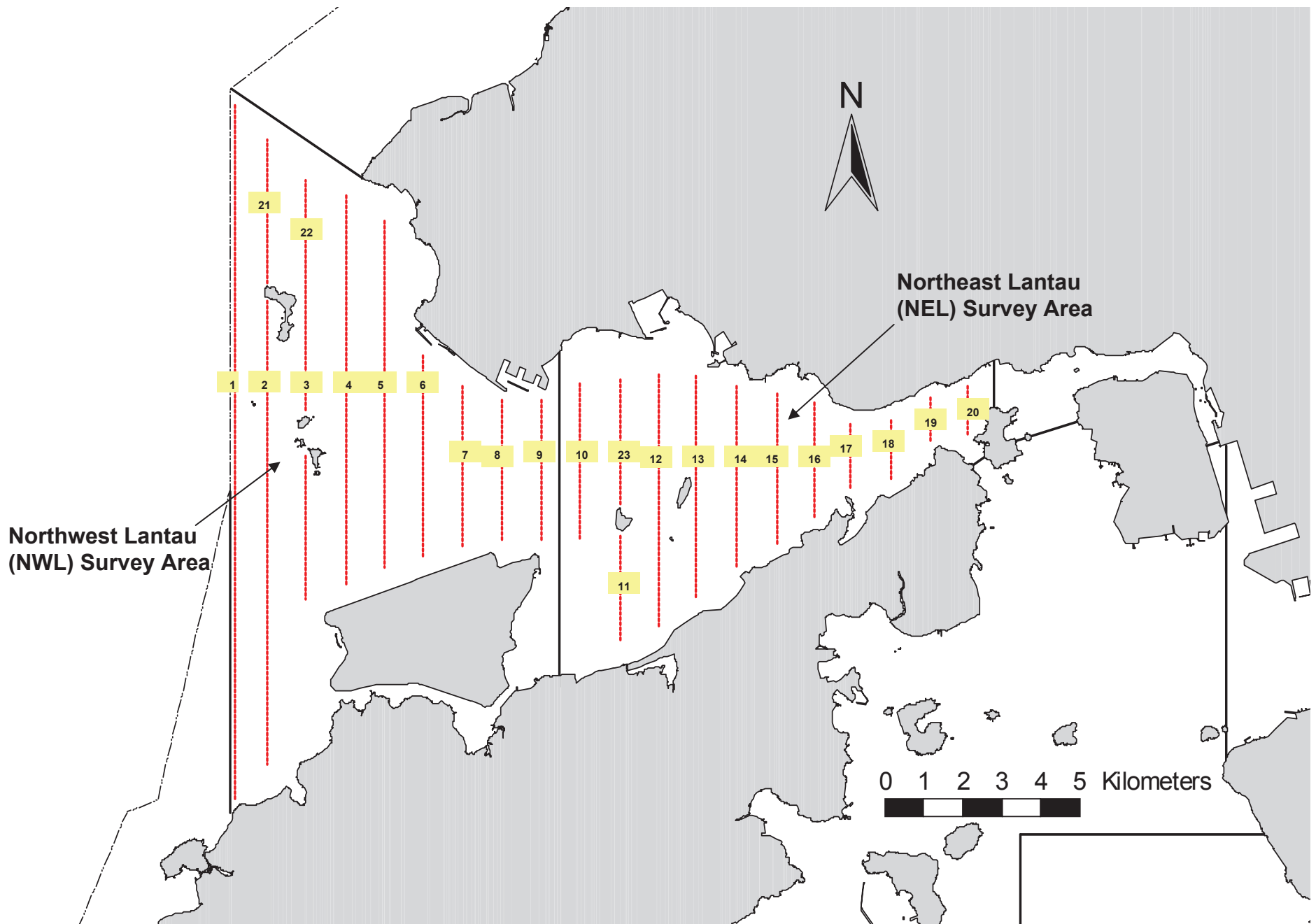


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

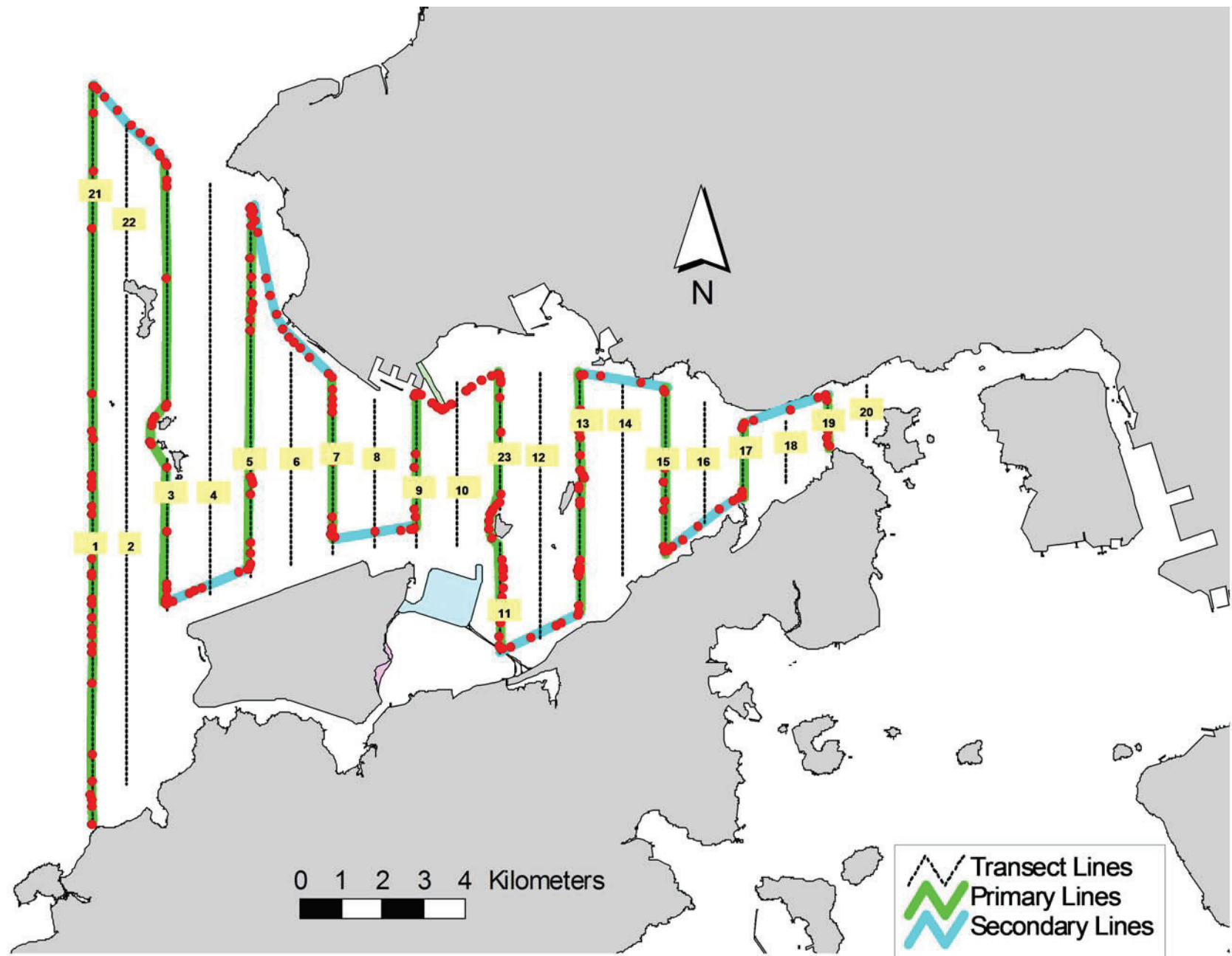


Figure 2. Survey Route on December 2nd, 2014 (from HKLR03 project)

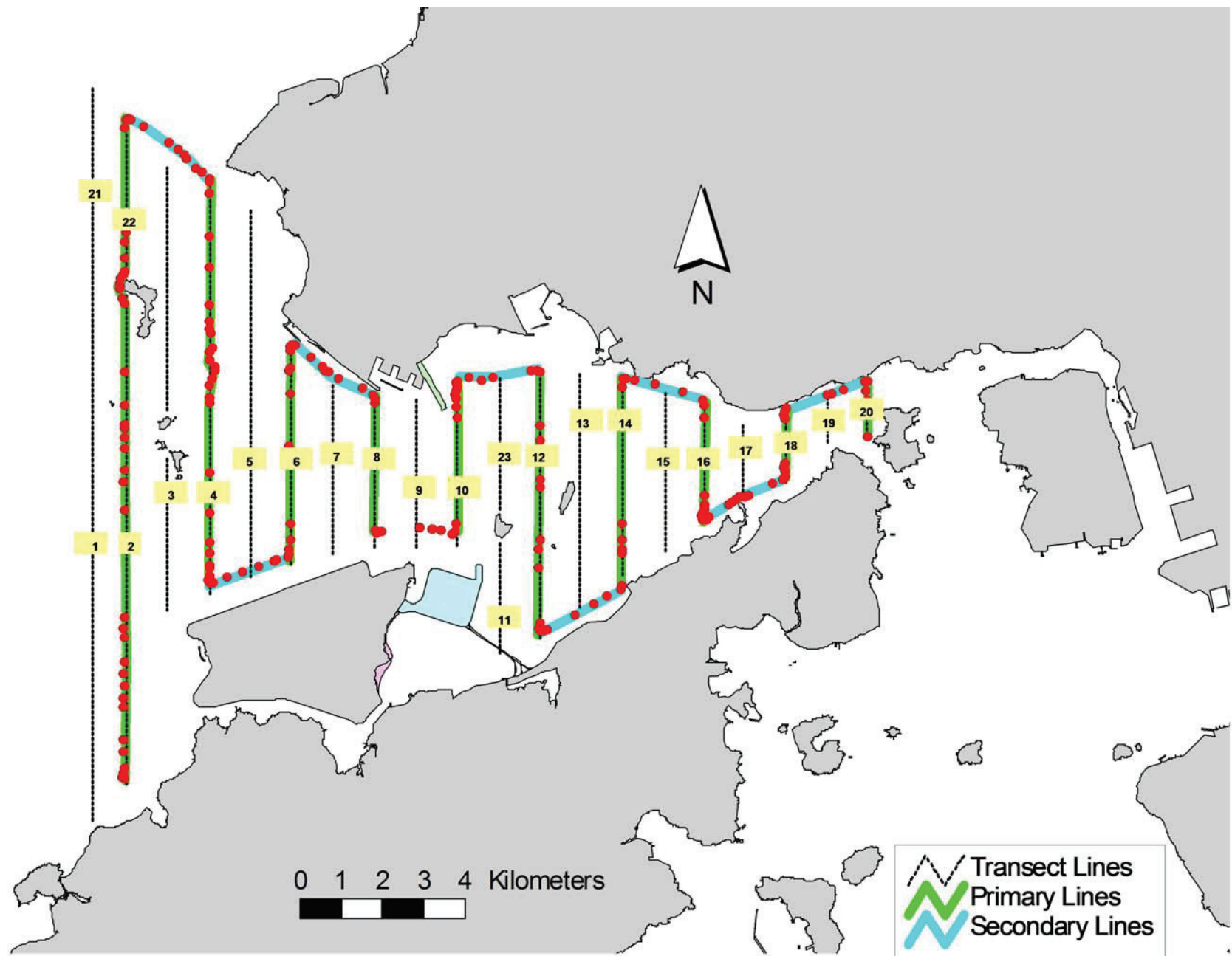


Figure 3. Survey Route on December 9th, 2014 (from HKLR03 project)

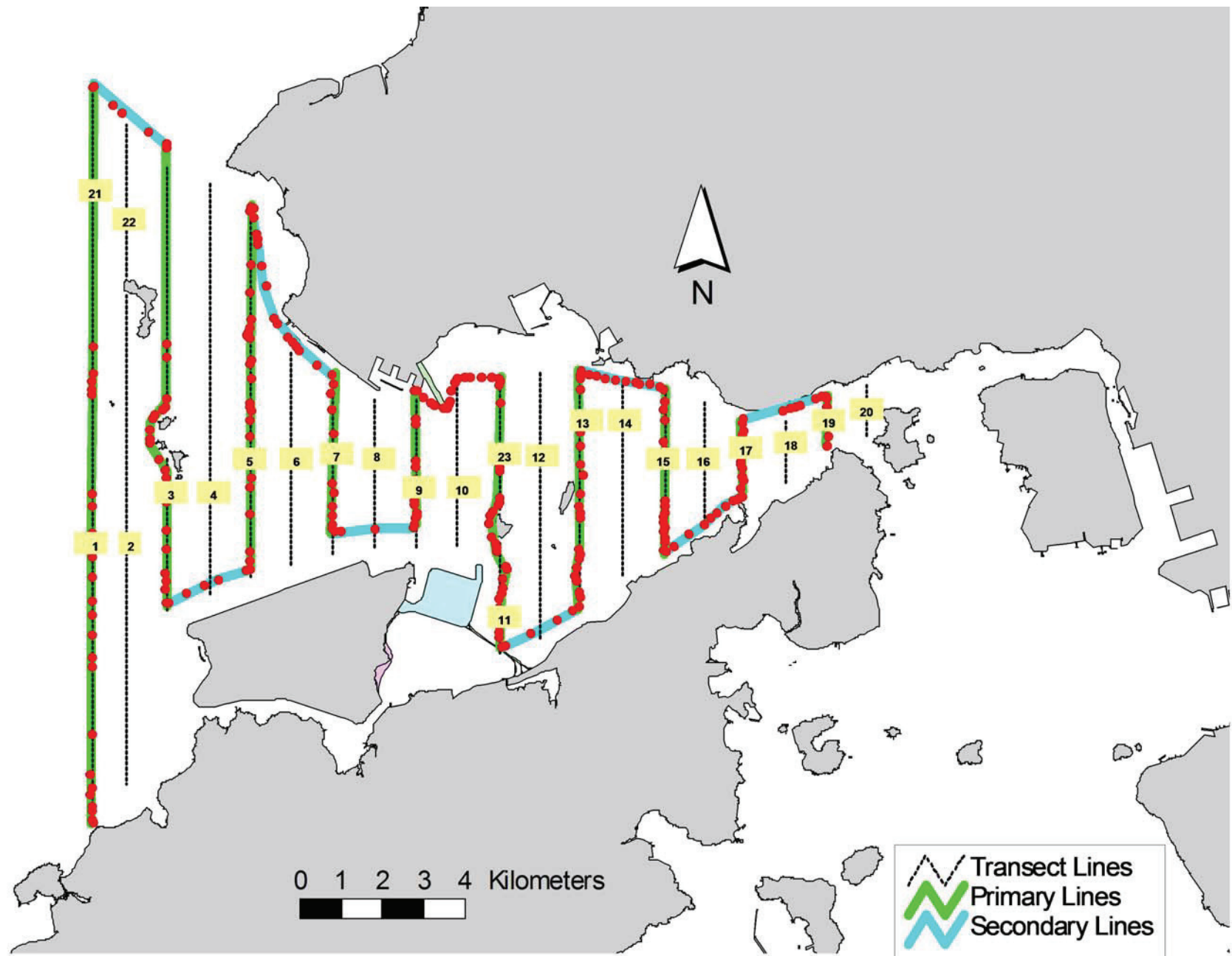


Figure 4. Survey Route on December 15th, 2014 (from HKLR03 project)

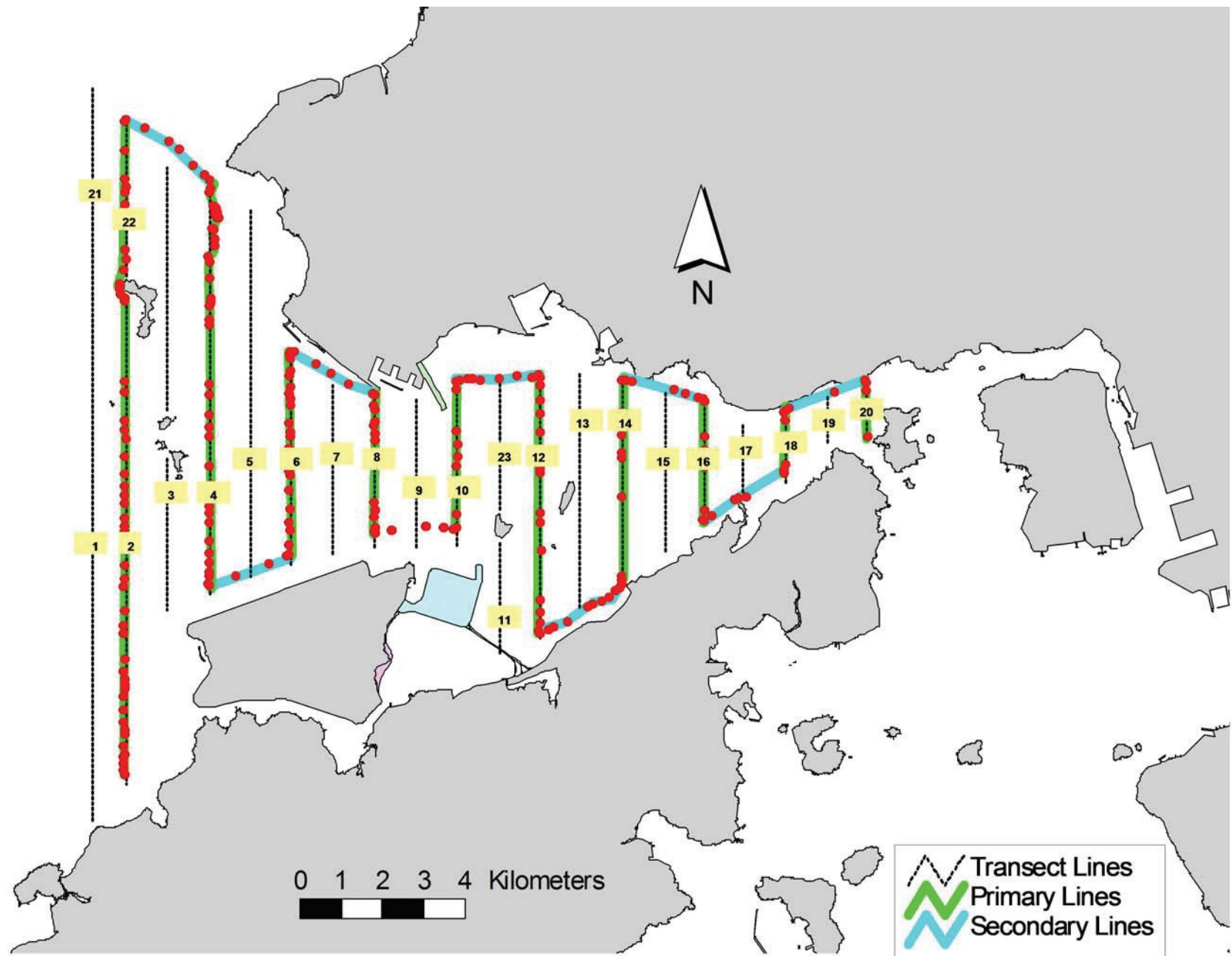


Figure 5. Survey Route on December 23rd, 2014 (from HKLR03 project)

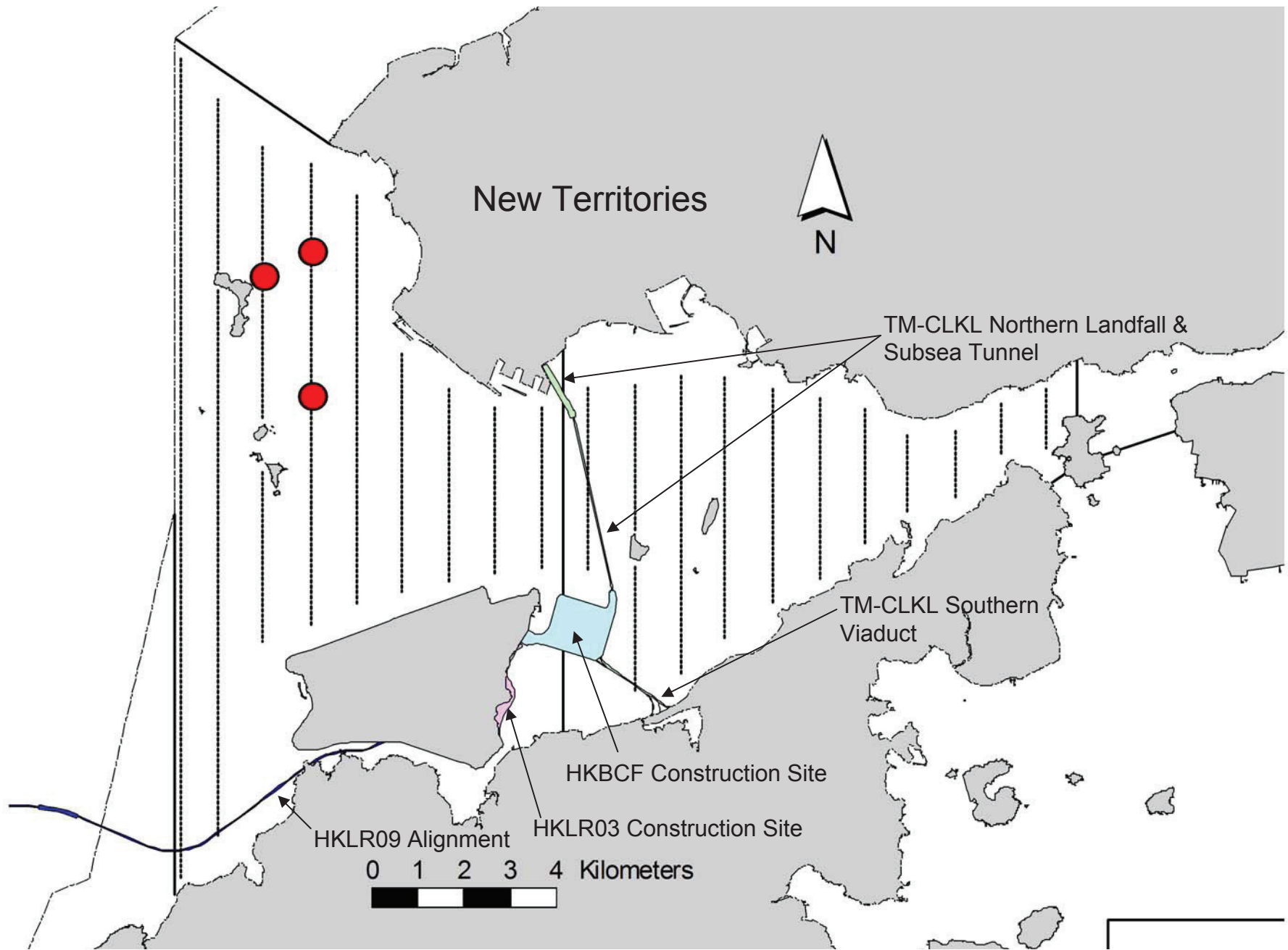


Figure 6. Distribution of Chinese White Dolphin Sightings During December 2014 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (December 2014)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
2-Dec-14	NE LANTAU	2	15.30	WINTER	STANDARD31516	HKLR	P
2-Dec-14	NE LANTAU	3	2.28	WINTER	STANDARD31516	HKLR	P
2-Dec-14	NE LANTAU	2	7.54	WINTER	STANDARD31516	HKLR	S
2-Dec-14	NE LANTAU	3	2.28	WINTER	STANDARD31516	HKLR	S
2-Dec-14	NW LANTAU	2	18.17	WINTER	STANDARD31516	HKLR	P
2-Dec-14	NW LANTAU	3	23.09	WINTER	STANDARD31516	HKLR	P
2-Dec-14	NW LANTAU	2	10.54	WINTER	STANDARD31516	HKLR	S
2-Dec-14	NW LANTAU	3	2.10	WINTER	STANDARD31516	HKLR	S
9-Dec-14	NE LANTAU	1	5.79	WINTER	STANDARD31516	HKLR	P
9-Dec-14	NE LANTAU	2	14.41	WINTER	STANDARD31516	HKLR	P
9-Dec-14	NE LANTAU	1	2.20	WINTER	STANDARD31516	HKLR	S
9-Dec-14	NE LANTAU	2	8.30	WINTER	STANDARD31516	HKLR	S
9-Dec-14	NW LANTAU	1	2.11	WINTER	STANDARD31516	HKLR	P
9-Dec-14	NW LANTAU	2	28.31	WINTER	STANDARD31516	HKLR	P
9-Dec-14	NW LANTAU	2	5.13	WINTER	STANDARD31516	HKLR	S
9-Dec-14	NW LANTAU	3	2.45	WINTER	STANDARD31516	HKLR	S
15-Dec-14	NW LANTAU	2	31.56	WINTER	STANDARD31516	HKLR	P
15-Dec-14	NW LANTAU	3	9.34	WINTER	STANDARD31516	HKLR	P
15-Dec-14	NW LANTAU	2	12.90	WINTER	STANDARD31516	HKLR	S
15-Dec-14	NE LANTAU	1	3.57	WINTER	STANDARD31516	HKLR	P
15-Dec-14	NE LANTAU	2	13.37	WINTER	STANDARD31516	HKLR	P
15-Dec-14	NE LANTAU	1	3.76	WINTER	STANDARD31516	HKLR	S
15-Dec-14	NE LANTAU	2	6.50	WINTER	STANDARD31516	HKLR	S
23-Dec-14	NE LANTAU	2	19.81	WINTER	STANDARD31516	HKLR	P
23-Dec-14	NE LANTAU	2	9.69	WINTER	STANDARD31516	HKLR	S
23-Dec-14	NE LANTAU	3	0.90	WINTER	STANDARD31516	HKLR	S
23-Dec-14	NW LANTAU	2	13.36	WINTER	STANDARD31516	HKLR	P
23-Dec-14	NW LANTAU	3	16.71	WINTER	STANDARD31516	HKLR	P
23-Dec-14	NW LANTAU	2	5.81	WINTER	STANDARD31516	HKLR	S
23-Dec-14	NW LANTAU	3	1.82	WINTER	STANDARD31516	HKLR	S

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

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

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
02-Dec-14	1	1428	1	NW LANTAU	3	207	ON	HKLR	826916	806457	WINTER	NONE	P
09-Dec-14	1	1315	3	NW LANTAU	2	280	ON	HKLR	824445	807513	WINTER	NONE	P
23-Dec-14	1	1335	1	NW LANTAU	3	151	ON	HKLR	827424	807518	WINTER	NONE	P

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

ID#	DATE	STG#	AREA
NL48	23/12/14	1	NW LANTAU
NL136	02/12/14	1	NW LANTAU
NL214	09/12/14	1	NW LANTAU
NL220	09/12/14	1	NW LANTAU
NL307	09/12/14	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in December 2014 (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"> Repeat in situ measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor and SOR; Check monitoring data, all plant, equipment and Contractor's working methods. 	<ol style="list-style-type: none"> Check monitoring data submitted by ET and Contractor's working methods. 	<ol style="list-style-type: none"> Confirm receipt of notification of non-compliance in writing; Notify Contractor. 	<ol style="list-style-type: none"> Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SOR and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level; 	<ol style="list-style-type: none"> Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; Supervise the implementation of mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Inform the Supervising Officer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> Repeat measurement on next day of exceedance to confirm findings; 	<ol style="list-style-type: none"> Check monitoring data submitted by ET and Contractor's working method; 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; 	<ol style="list-style-type: none"> 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. Discuss with ET and Contractor on possible remedial actions;	2. Request Contractor to critically review the working methods;	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;	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;	3. Implement the agreed mitigation measures;
	4. Check monitoring data, all plant, equipment and Contractor's working methods;	4. Supervise the implementation of mitigation measures.	4.	4. Resubmit proposals of mitigation measures if problem still not under control;
	5. Discuss mitigation measures with IEC, SOR and Contractor;		5. Ensure mitigation measures are properly implemented;	
	6. Ensure mitigation measures are implemented;		6.	
	7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;		7. 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.

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 2014 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D wastes Generation					Actual Quantities of Recyclables Generation			
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Marine Sediment, Cat. L	Marine Sediment, Cat. Mp	Marine Sediment, Cat. Mf	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	0.033	0.011	0.003	-	0.030	-	-	-	-	22.380	-	10.240	-	-	-
Feb	4.716	0.010	0.031	-	0.010	4.674	-	-	-	10.670	-	0.780	-	-	-
Mar	2.559	0.009	0.240	-	0.221	2.098	-	-	0.275	12.390	-	46.050	-	-	-
Apr	1.051	0.000	0.020	-	0.118	0.914	-	-	-	87.650	-	15.760	-	-	-
May	2.008	-	0.010	-	1.546	0.451	0.386	0.267	0.055	98.030	-	8.460	0.126	-	-
Jun	5.318	0.021	0.030	2.473	0.357	2.457	0.338	-	-	77.290	-	25.340	0.140	-	-
SUB-TOTAL	15.685	0.051	0.334	2.473	2.283	10.595	0.724	0.267	0.055	0.275	308.410	-	106.630	0.266	-
Jul	6.303	0.129	0.020	-	4.654	1.629	0.847	0.252	0.051	87.810	-	27.370	0.126	-	-
Aug	4.824	0.018	0.265	1.829	2.441	0.288	0.391	0.131	0.033	98.220	-	21.680	0.126	0.475	-
Sep	8.037	0.142	0.175	-	7.722	0.140	0.400	0.073	0.060	238.01	-	34.190	0.161	-	-
Oct	15.033	0.083	0.943	-	13.860	0.230	0.441	0.118	0.104	268.18	-	-	0.105	-	-
Nov	16.266	0.268	3.356	-	12.474	0.436	-	0.150	0.084	114.37	-	-	0.133	-	-
Dec	19.007	0.202	2.898	0.122	15.987	-	0.337	0.165	0.110	130.97	-	-	0.147	-	-
TOTAL	85.154	0.894	7.990	4.424	59.422	13.318	3.140	1.156	0.497	1.297	1,245.970	-	189.870	1.064	0.475

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	0

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 (December 2014)	0	0	0
Total No. received since project commencement	2	0	0