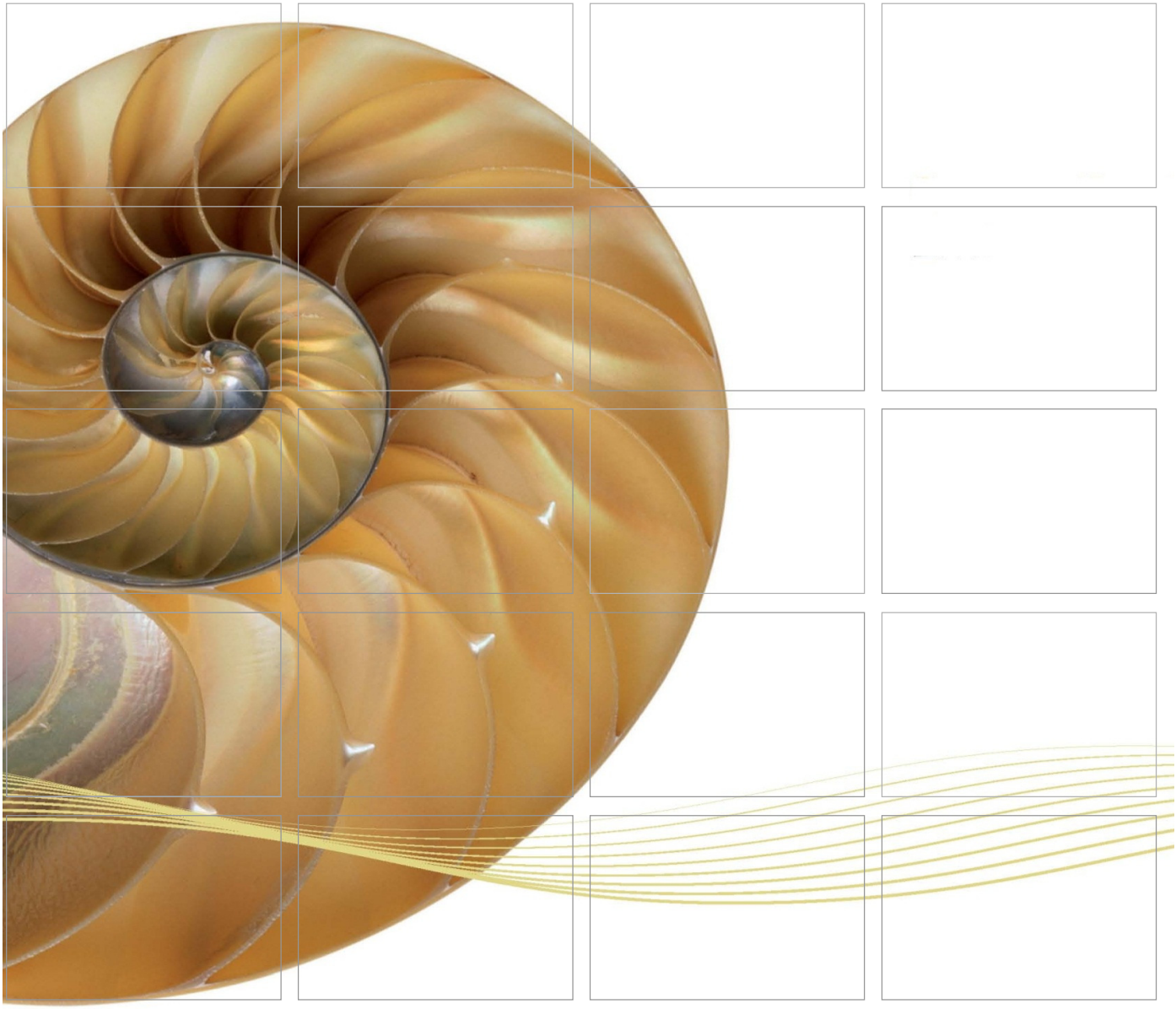
REPORT



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

Third Monthly EM&A Report

14 February 2014

Environmental Resources Management
16/F, DCH Commercial Centre
25 Westlands Road
Quarry Bay, Hong Kong
Telephone 2271 3000
Facsimile 2723 5660

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

Third Monthly EM&A Report

Document Code: 0215660_3rd Monthly EM&A_20140214.pdf

Environmental Resources Management

16/F, DCH Commercial Centre
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3000
Facsimile: (852) 2723 5660
E-mail: post.hk@erm.com
http://www.erm.com

Client: Gammon	Project No: 0215660
Summary: This document presents the Third Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.	Date: 14 February 2014 Approved by: *Mr Craig Reid* *Partner* Certified by: *Mr Jovy Tam* *ET Leader*

Revision	Description	By	Checked	Approved	Date
Rev a	Third Monthly EM&A Report	VAR	JT	CAR	14/02/14

Distribution

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☒ Public

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OHSAS 18001:2007 Certificate No. OHS 515956

ISO 9001 : 2008 Certificate No. FS 32515

Ref.: HYDHZMBEEM00_0_1682L.14 14 February 2014

AECOM By Fax (249 vc2 2057) and By Post
Supervising Officer Representative's Office
6 Hoi Kok Street,
Tsuen Wan, N.T.

Attention: Mr. Daniel Ip

Dear Sir,

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

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

Reference is made to the Third Monthly Environmental Monitoring and Audit (EM&A) Report (for January 2014) Revision a certified by the ET Leader (ET's ref.: "0215660_3rd Monthly EM&A_20140214.pdf" dated 14 February 2014) and provided to us via email on 14 February 2014.

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

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

Yours sincerely,

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

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

Internal: DY, YH, PL, ENPO Site

T:\Projects\HYDHZMBEEM00\02_Proj_Mgt\02_Corr\HYDHZMBEEM00_0_1682L.14.doc

ENVIRON Hong Kong Limited 英環香港有限公司
Room 2403 Jubilee Centre, 18 Fenwick Street, Wan Chai, Hong Kong. Tel: 852 3465 2888 Fax: 852 3465 2899
www.environcorp.com

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List of Appendices

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

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

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

Marine-based Works

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

Land-based Works

- SOR's site offices erection at Area 5;
- Satellite container offices erection along seawall (i.e. CEDD Access Road);
- Fence relocation for Viaducts A, C & D;
- Piling platform installation for Viaduct B;
- Additional land GI, trial pits and laboratory testing; and
- Utility surveys.

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

24-hour TSP monitoring	6 sessions
1-hour TSP monitoring	6 sessions

Noise monitoring	6 sessions
Impact Water Quality Monitoring	13 sessions
Impact dolphin monitoring	2 sessions
Joint Environmental site inspection	5 sessions

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for construction noise 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. Sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* was recorded on 23 January 2014 during the exclusion zone monitoring.

Environmental Complaints, Non-compliance & Summons

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

Reporting Change

There was no reporting change required in the reporting period.

Upcoming Works for the Next Reporting Period

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

Marine Works

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

Land-based Works

- SOR's site offices erection at Area 5;
- Satellite container offices erection along seawall (i.e. CEDD Access Road);
- Fence relocation for Viaducts A, B, C & D;
- Piling platform installation for Viaduct B & D;
- Additional land GI, trial pits and laboratory testing;
- Utility surveys.

Future Key Issues

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

1 INTRODUCTION

1.1 BACKGROUND

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

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

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

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

1.2 SCOPE OF REPORT

This is the third 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 January 2014.

1.3 ORGANIZATION STRUCTURE

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

Table 1.1 Contact Information of Key Personnel

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

1.4 SUMMARY OF CONSTRUCTION WORKS

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

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

Marine-based Works

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

Land-based Works

- SOR's site offices erection at Area 5;
- Satellite container offices erection along seawall (i.e. CEDD Access Road);

- Fence relocation for Viaducts A, C & D;
- Additional land GI, trial pits and laboratory testing; and
- Utility surveys.

The general layout plan of the site showing the detailed works areas is shown in *Figures 1.1* to *1.12*.

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

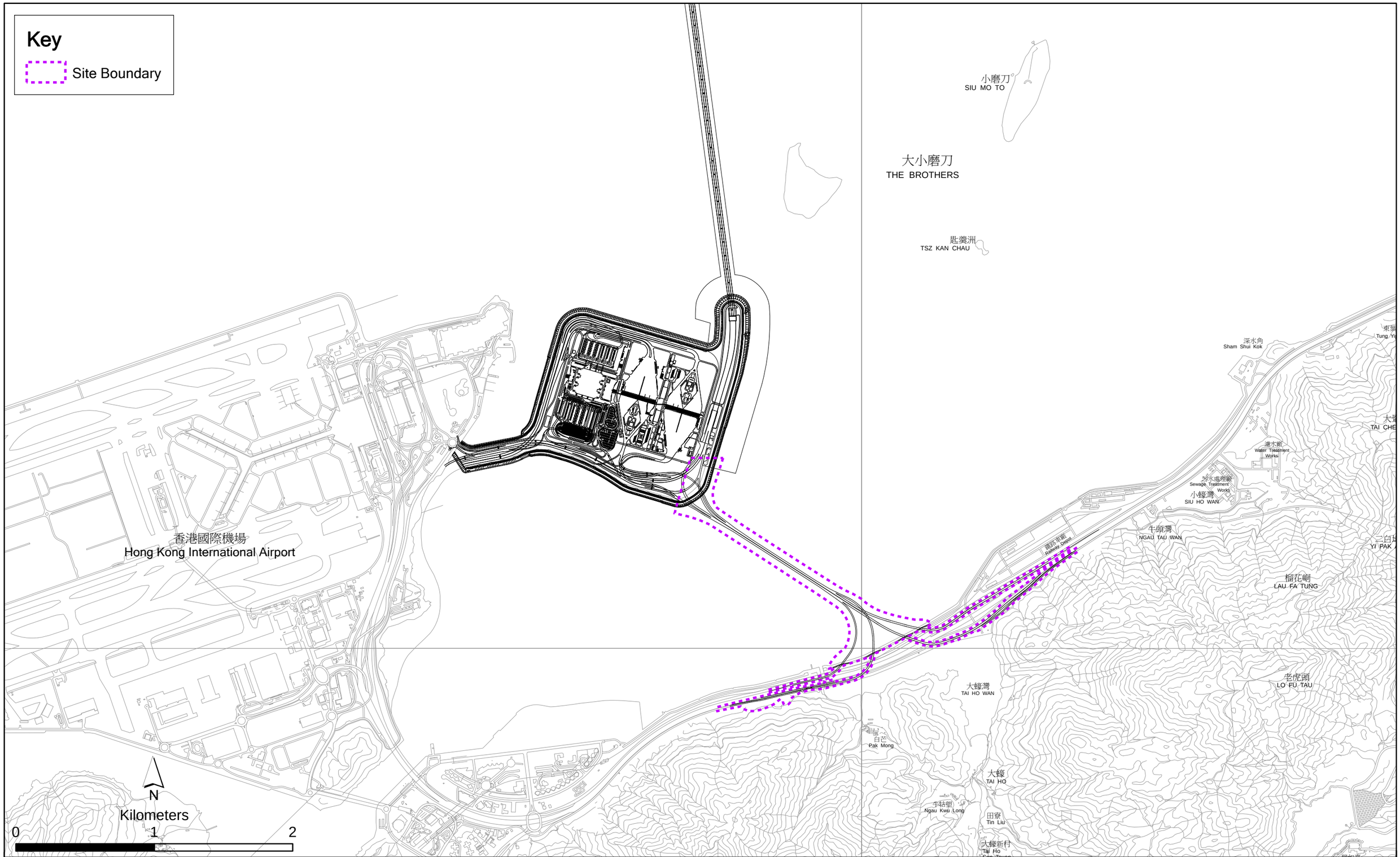

Figure 1.1

General Layout Plan of the Project

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Date: 6/12/2013

Environmental Resources Management

ERM

Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN Orig. ISO A1 594mm x 841mm

810000 E
815000 E
820000 E

TUEN MUN
TAP SHEK KOK
BUTTERFLY BEACH
825000 N
PILLAR POINT
(MONG HAU SHEK)
TUNNEL SECTION (BY OTHERS)
THE BROTHERS
大小磨刀
SIU MO TO
TAI MO TO
THE BROTHERS
TSZ KAN CHAU
HKBCF
SOUTHERN LANDFALL
820000 N
HONG KONG INTERNATIONAL
AIRPORT (HKIA)
CONTRACT NO. HY/2012/07
C1/1001
C1/1002
C1/1003
C1/1004
C1/1005
C1/1006
C1/1007
C1/1008
SIU HO WAN
BOUNDARY OF COUNTRY PARK
TA1 HO WAN
TUNG CHUNG
LANTAU ISLAND
AREA 4
AREA 5
AREA 23
NORTH LANTAU HIGHWAY
DISCOVERY BAY
(TAI PAK WAN)
MA WAN
MA WAN CHANNEL
PENG CHAU
SIU KAU YI CHAU

N

LEGEND:

— - — SITE BOUNDARY

NOTES:

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

WORKS AREA	ALLOWABLE USAGE(S)
AREA 5	SUPERVISING OFFICER AND CONTRACTOR SITE OFFICES AND STORAGE AREA TO BE SHARE-USED WITH OTHER CONTRACTS.
AREA 23	STORAGE AREA WHICH SHALL BE ACCESSED BY MARINE MEANS ONLY; TO BE SHARE-USED WITH OTHER CONTRACTS.
AREA 4	STORAGE AREA OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER

A

Plot File by: LIUJ3
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2012/11/15

AECOM

PROJECT
項目
TUEN MUN -
CHEK LAP KOK LINK

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

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

CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

Fig1.2

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核查
A	NOV. 12	TENDER ADDENDUM NO.1	CWN
-	OCT. 12	TENDER DRAWING	CWN

STATUS
階段

SCALE 比例
A1 1:25000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號
60240249

CONTRACT NO. 合約編號
HY/2012/07

SHEET TITLE
圖紙名稱
LOCATION PLAN AND KEY PLAN

SHEET NUMBER
圖紙編號
60240249/C1/1000A

Project Management Initials: | Designer: PLCK | Checked: | Approved: SLYY | CWN | ISO A1 594mm x 841mm

NOTES:

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

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814900 E
815100 E
815300 E
818100 N

CUT LINE C-C
SEE SHEET NO. 60240249/C1/1003

CUT LINE D-D
SEE SHEET NO. 60240249/C1/1005

CUT LINE F-F
SEE SHEET NO. 60240249/C1/1007

STRUCTURE E1
STRUCTURE B3
STRUCTURE D4
STRUCTURE A2
STRUCTURE D3
STRUCTURE C4
STRUCTURE B2
MTR PROTECTION BOUNDARY
EXISTING CEDD ACCESS ROAD TO BE REALIGNED
MTRL 2 RP
MTRL 2 RP
NORTH LANTAU HIGHWAY
TAI HO WAN

N

AECOM

PROJECT 項目

TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT 業主

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

CONSULTANT 工程顧問公司

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

Fig1.3

ISSUE/REVISION 修訂

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			CWN
			CWN
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-	OCT. 12	TENDER DRAWING	CWN

STATUS 階段

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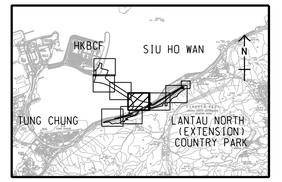
KEY PLAN 索引圖 1 : 100000



PROJECT NO. 項目編號
60240249

CONTRACT NO. 合約編號
HY/2012/07

SHEET TITLE 圖紙名稱
GENERAL LAYOUT

SHEET 4 OF 8

SHEET NUMBER 圖紙編號
60240249/C1/1004A

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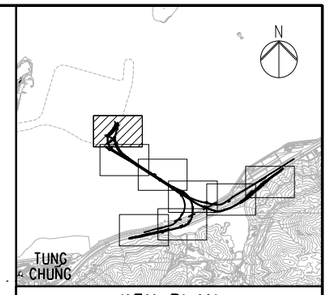

KEY PLAN

NOTES

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LEGEND

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- 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

Rev	Description	By	Date	Rev	Description	By	Date
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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

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

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Drawing title: PROPOSED GROUND INVESTIGATION PLAN (1)

Fig 1.4

Drawing no. J3518/P/OAP/04/01100 Rev. C

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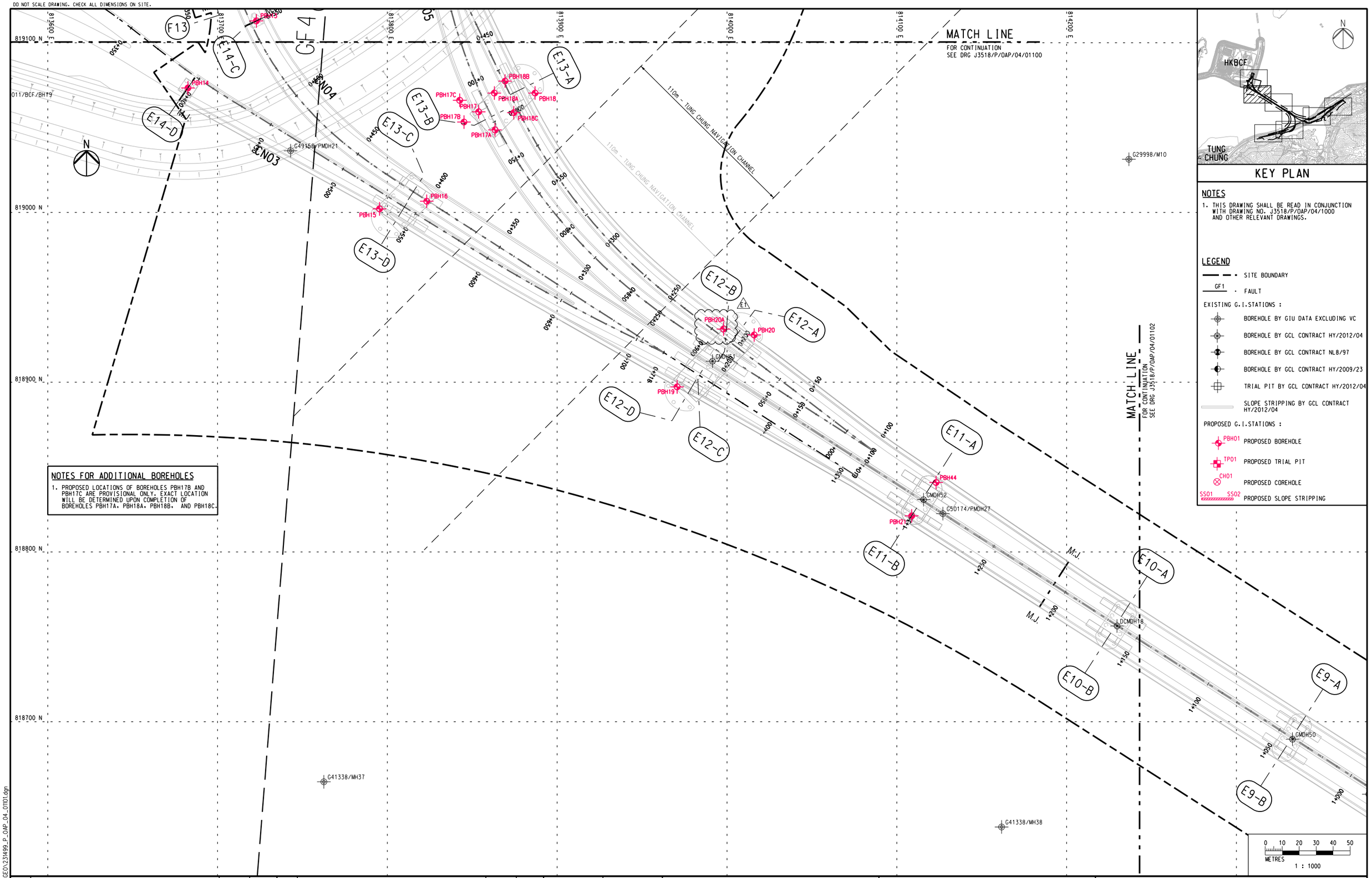

KEY PLAN

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

LEGEND

- SITE BOUNDARY
- GF1 — FAULT

EXISTING G.I.STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT NL8/97
- BOREHOLE BY GCL CONTRACT HY/2009/23
- TRIAL PIT BY GCL CONTRACT HY/2012/04
- SLOPE STRIPPING BY GCL CONTRACT HY/2012/04

PROPOSED G.I.STATIONS :

- PBHO1 — PROPOSED BOREHOLE
- TPO1 — PROPOSED TRIAL PIT
- CHO1 — PROPOSED COREHOLE
- SSO1 SSO2 — PROPOSED SLOPE STRIPPING

NOTES FOR ADDITIONAL BOREHOLES

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

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METRES
1 : 1000

Rev	Description	By	Date	Rev	Description	By	Date
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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				
D	SUBMISSION	RC	10/13				
E1	FOR INTERNAL REVIEW	RC	11/13				

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Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

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

Drawing title: PROPOSED GROUND INVESTIGATION PLAN (2)

Fig 1.5

Drawing no. J3518/P/OAP/04/01101 Rev. E1

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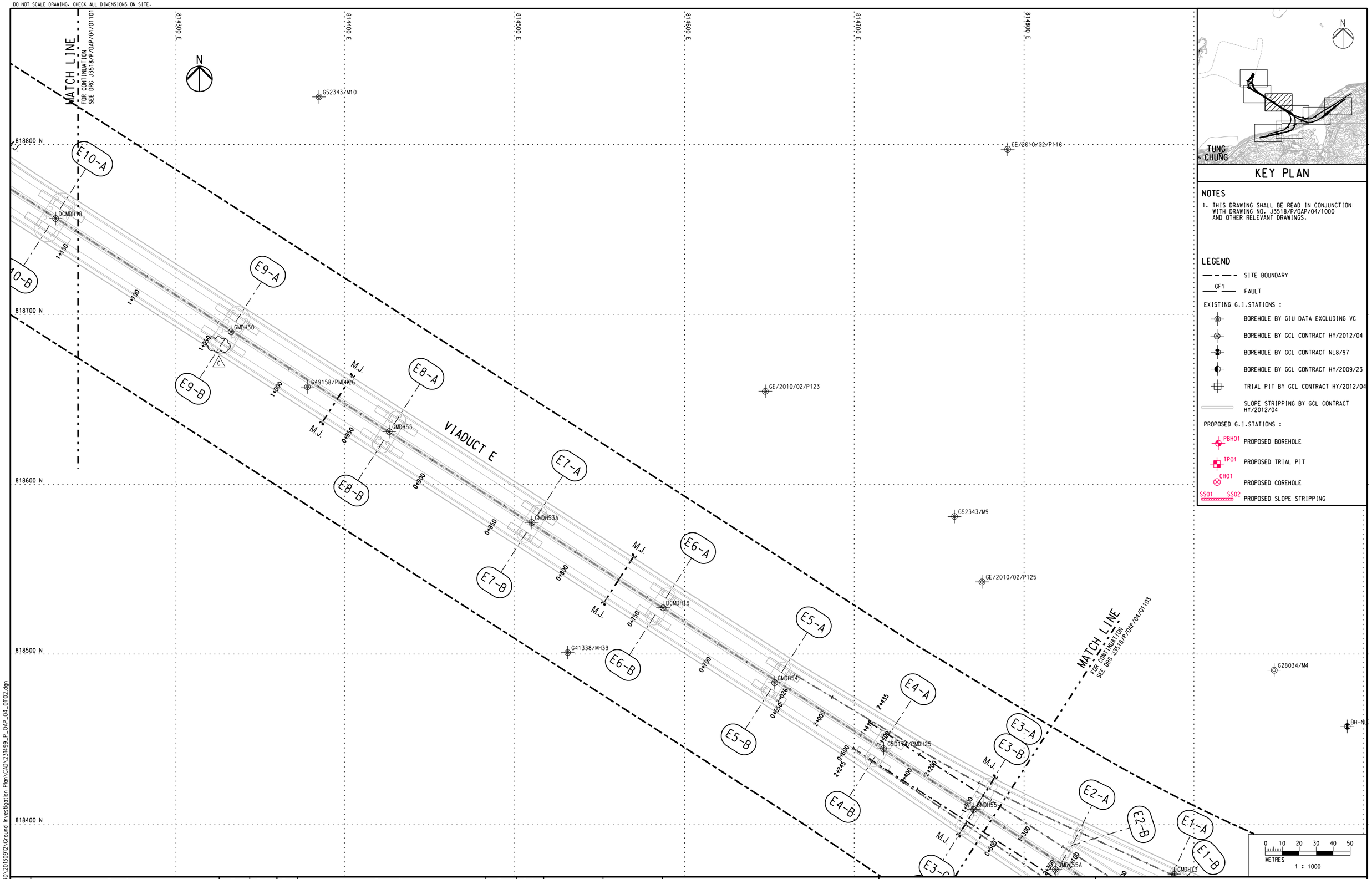

KEY PLAN

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

Rev	Description	By	Date	Rev	Description	By	Date
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B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

Drawn: RL	Date: 07/13
Checked: DS	Approved: DOP
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Client: 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

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

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Drawing title: PROPOSED GROUND INVESTIGATION PLAN (3)

Fig 1.6

Drawing no. J3518/P/OAP/04/01102 Rev. C

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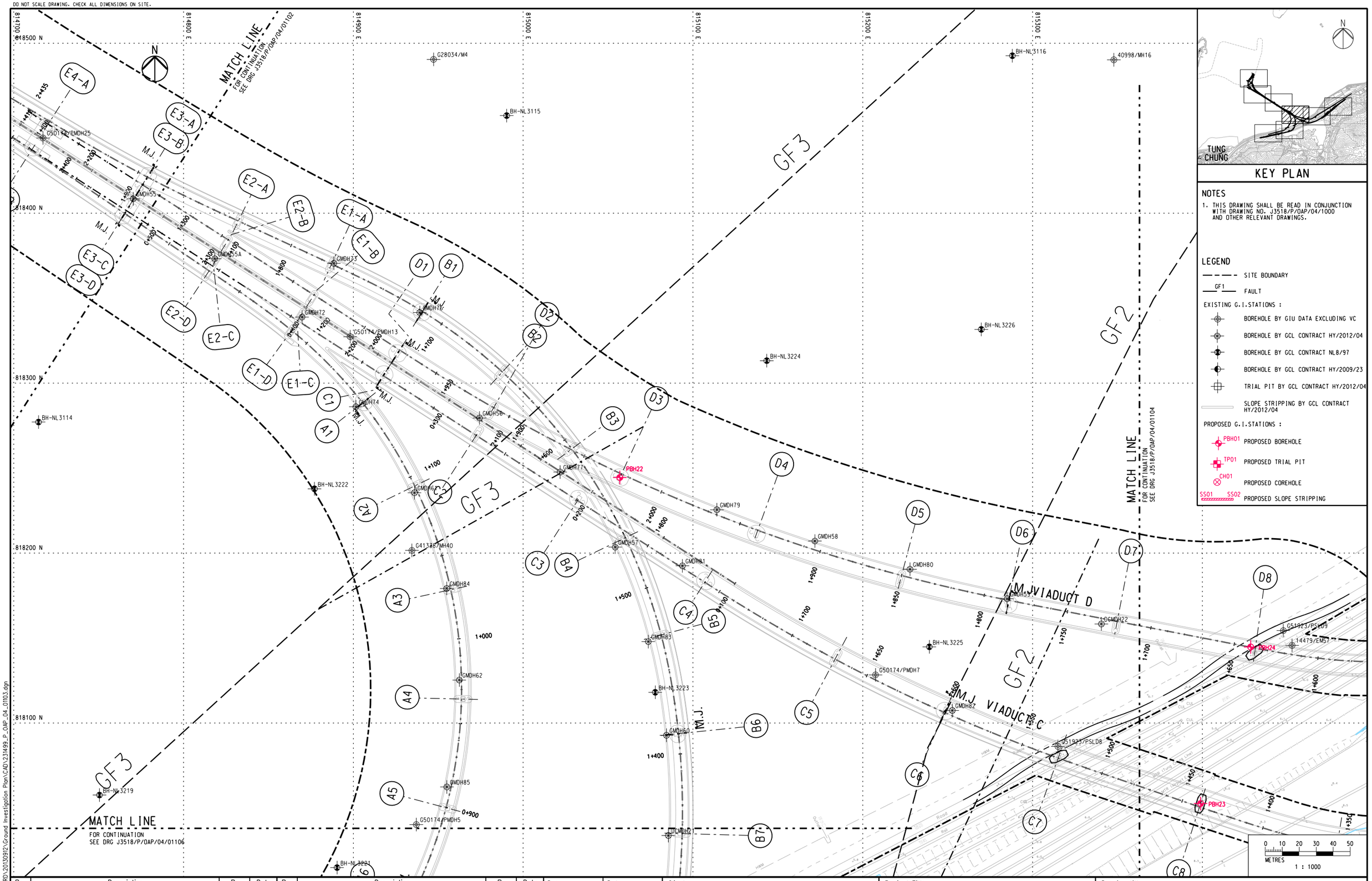


NOTES

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

LEGEND

- SITE BOUNDARY
- GF1 FAULT

EXISTING G.I.STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT NL8/97
- BOREHOLE BY GCL CONTRACT HY/2009/23
- TRIAL PIT BY GCL CONTRACT HY/2012/04
- SLOPE STRIPPING BY GCL CONTRACT HY/2012/04

PROPOSED G.I.STATIONS :

- PBH01 PROPOSED BOREHOLE
- TP01 PROPOSED TRIAL PIT
- CH01 PROPOSED COREHOLE
- SS01 SS02 PROPOSED SLOPE STRIPPING

0 10 20 30 40 50 METRES
1 : 1000

Rev	Description	By	Date	Rev	Description	By	Date
A	SUBMISSION	RC	07/13				
B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

Drawn: RL	Date: 07/13
Checked: DS	Approved: DOP
Scale: 1:1000 @ A1 / 1:2000 @ A3	

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

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

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

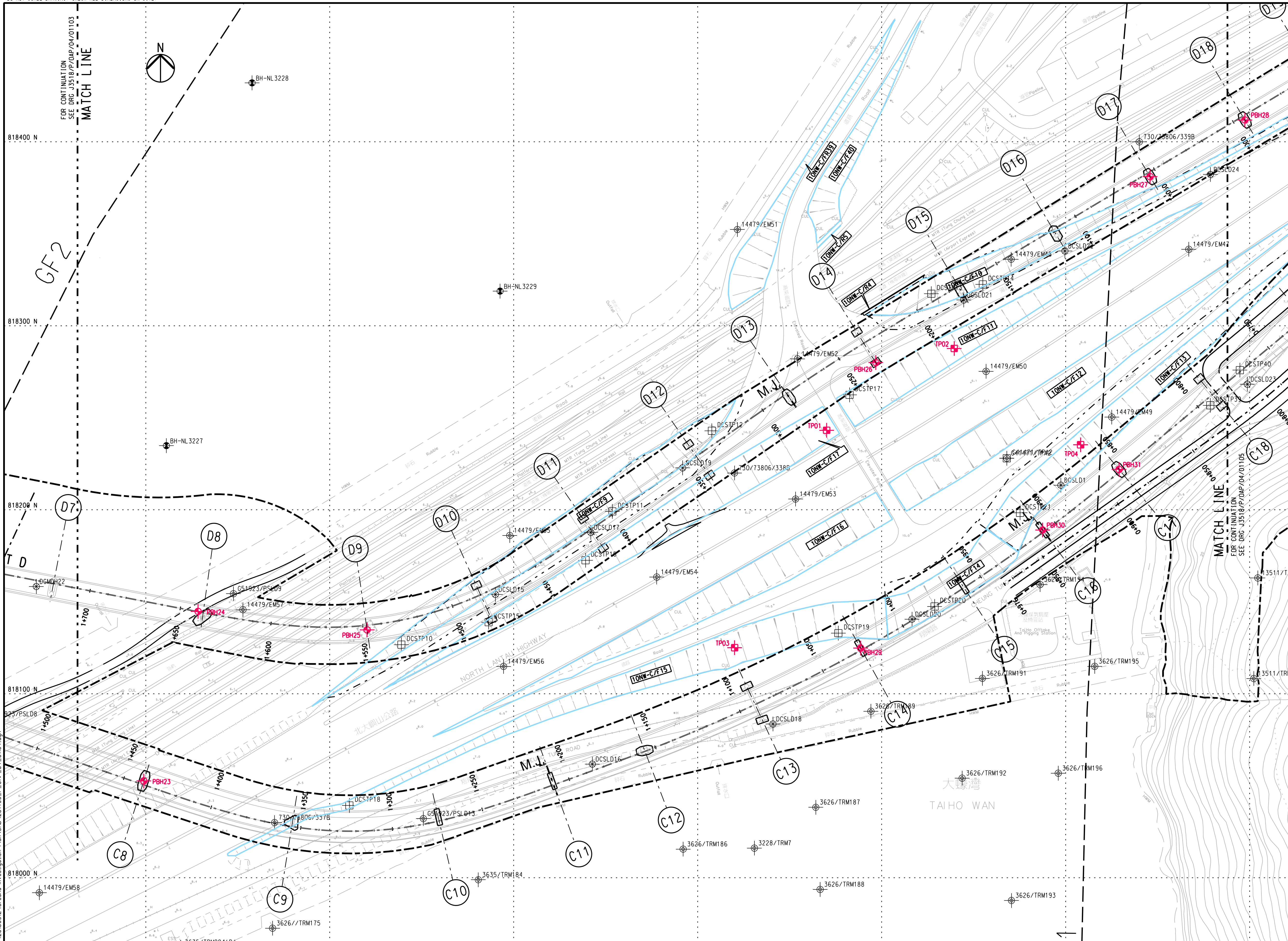
Drawing title: PROPOSED GROUND INVESTIGATION PLAN (4)

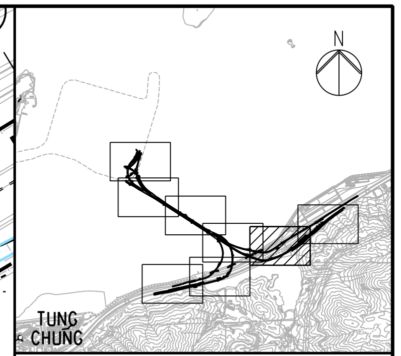
Fig 1.7

Drawing no. J3518/P/OAP/04/01103 Rev. C

Printed by : 13/9/2013
Filename : J:\231499\RECORD\20130912\Ground Investigation Plan\CAD\231499_P_OAP_04_01103.dgn

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.





KEY PLAN

NOTES

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

LEGEND

- SITE BOUNDARY
- GF1 FAULT

EXISTING G.I. STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT 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

0 10 20 30 40 50 METRES 1 : 1000

Rev	Description	By	Date	Rev	Description	By	Date
A	SUBMISSION	RC	07/13				
B	SUBMISSION	RC	07/13				
C	SUBMISSION	RC	09/13				

Drawn: RL — Date: 07/13
Checked: DS — Approved: DOP
Scale: 1:1000 @ A1 / 1:2000 @ A3

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

Supervising Officer: AECOM
Contractor: Gammon
Originator: ARUP

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

Drawing title:
PROPOSED GROUND INVESTIGATION PLAN (5)

Fig 1.8

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

Printed by : 12/9/2013
Filename : J:\231499\RECORD\20130912\Ground Investigation Plan\CAD\231499_P_OAP_04_01104.dgn

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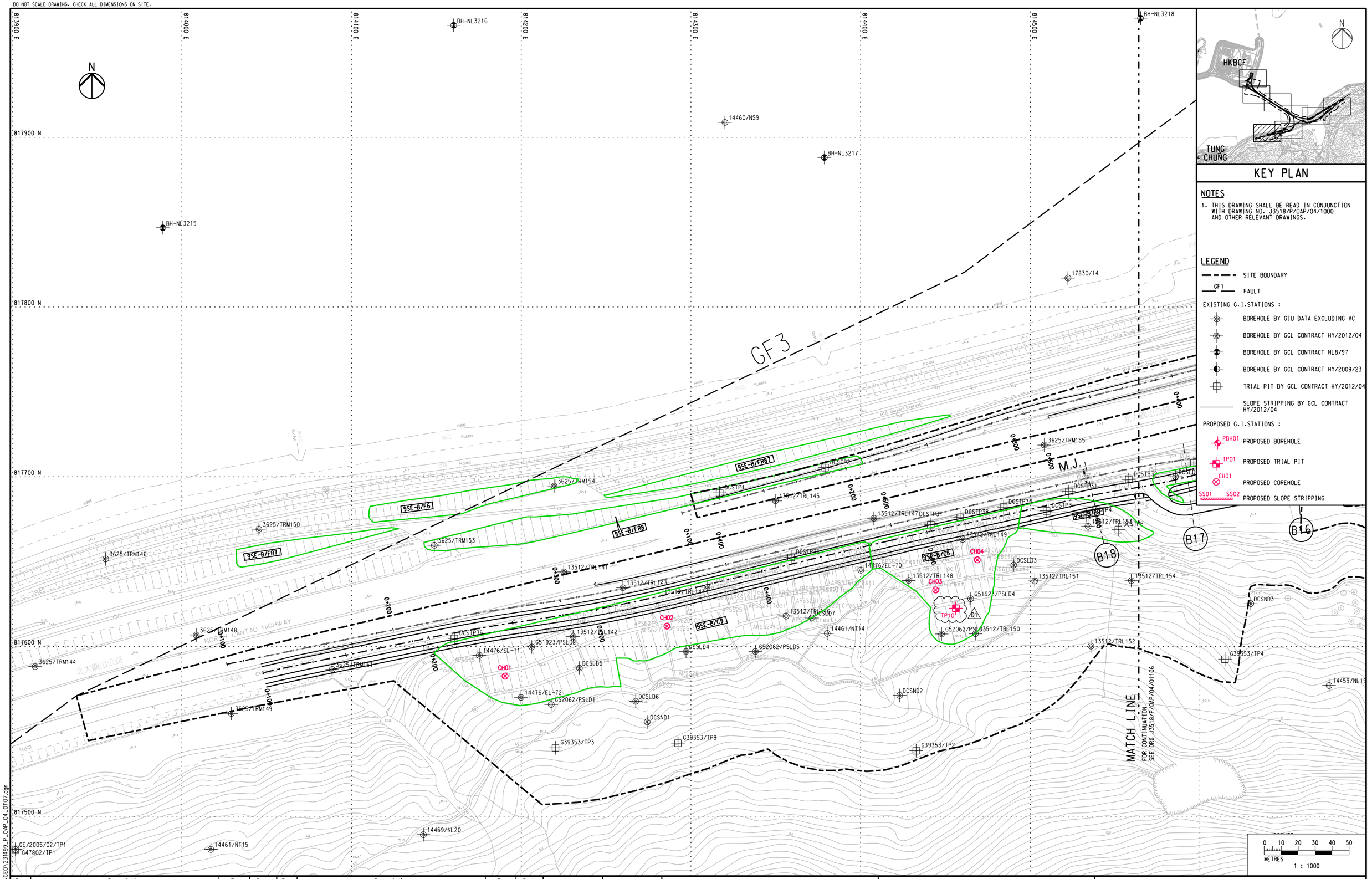

NOTES

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

LEGEND

- SITE BOUNDARY
- GF1 — FAULT

EXISTING G.I.STATIONS :

- BOREHOLE BY GIU DATA EXCLUDING VC
- BOREHOLE BY GCL CONTRACT HY/2012/04
- BOREHOLE BY GCL CONTRACT NL8/97
- BOREHOLE BY GCL CONTRACT HY/2009/23
- TRIAL PIT BY GCL CONTRACT HY/2012/04
- SLOPE STRIPPING BY GCL CONTRACT HY/2012/04

PROPOSED G.I.STATIONS :

- PBH01 — PROPOSED BOREHOLE
- TP01 — PROPOSED TRIAL PIT
- CH01 — PROPOSED COREHOLE
- SS01 SS02 — PROPOSED SLOPE STRIPPING

Rev	Description	By	Date
A	SUBMISSION	RC	07/13
B	SUBMISSION	RC	07/13
C	SUBMISSION	RC	09/13
D1	FOR INTERNAL REVIEW	RC	11/13

Rev	Description	By	Date

Drawn: RL	Date: 07/13
Checked: DS	Approved: DOP
Scale: 1:1000 @ A1 / 1:2000 @ A3	

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

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

Supervising Officer: AECOM

Contractor: Gammon

Originator: ARUP

Drawing title: PROPOSED GROUND INVESTIGATION PLAN (6)

Fig 1.9

Drawing no. J3518/P/OAP/04/01107 Rev. D1

Printed by : 07/11/2013
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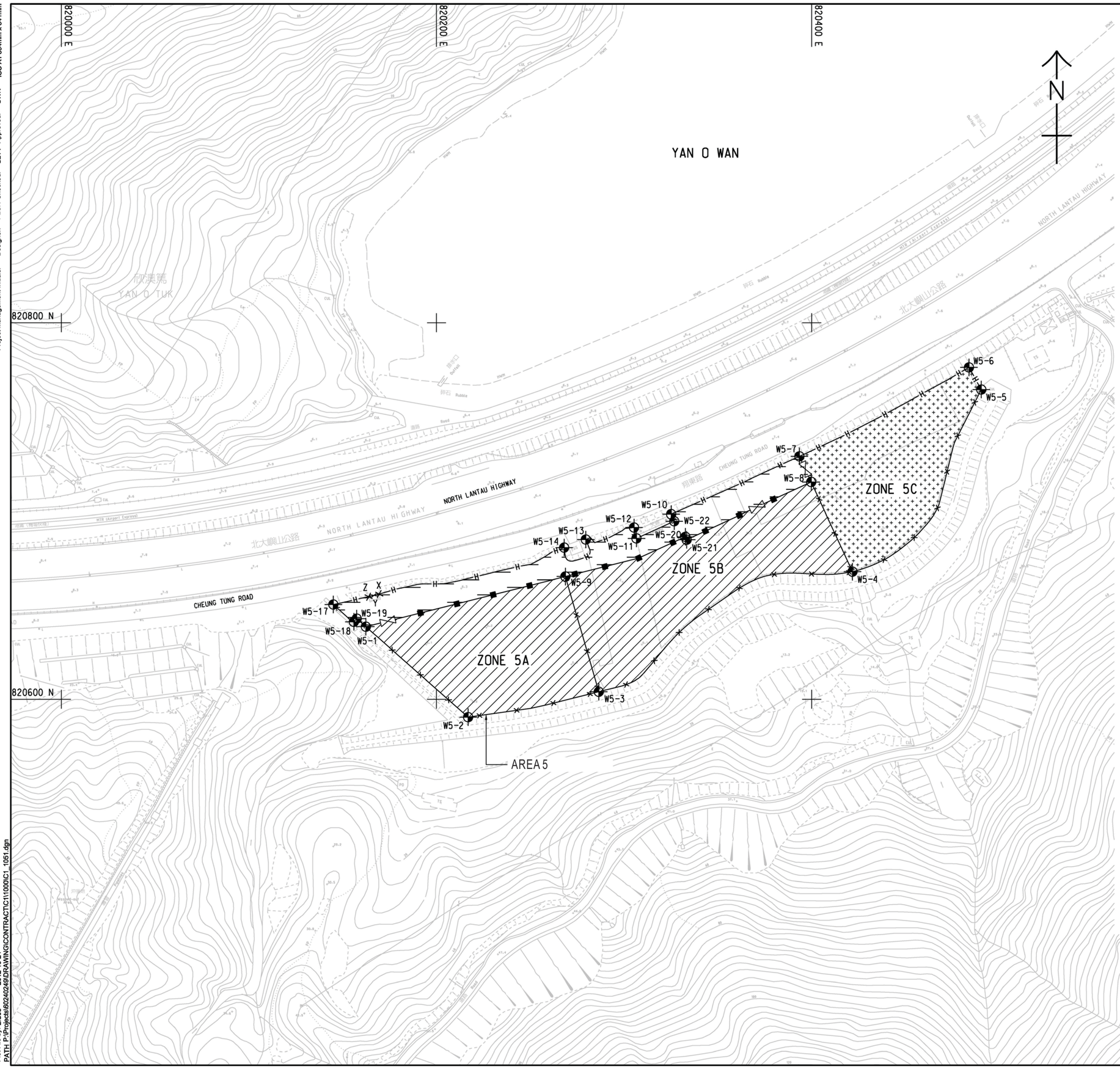

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
2. THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TIS 619. IN CASE OF DISCREPANCY BETWEEN THE BOUNDARY SHOWN ON THIS DRAWING AND THE BOUNDARY INDICATED ON THE ENGINEERING CONDITIONS, THE LATTER SHALL PREVAIL.
3. DEMARCATION OF THE WORKS AREA SHALL BE DETERMINED ON SITE.
4. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6110 AND H6111 FOR DETAILS OF HOARDING.
5. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NOS. H6121 AND H6122 FOR DETAILS OF CHAIN LINK FENCE.
6. REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING NO. H6121 FOR DETAILS OF GATE.
7. 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.
8. THE LOCATION AND WIDTH OF GATE SHOWN ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE SUPERVISING OFFICER.
9. 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.
10. THE TENTATIVE OCCUPATION PERIOD SHALL BE REFERRED TO EMPLOYER'S REQUIREMENTS PART 2 AND PART 14 SECTION 1 CLAUSE 1.45A.
11. THE WORKS AREAS SHOWN ON THIS DRAWING ARE TO BE SHARE-USED AMONG THE CONTRACTS OF TM-CLKL RELATED CONTRACTS.THE AREAS HATCHED WITH ▨ ARE TENTATIVELY ALLOCATED FOR THE USE BY THIS CONTRACT.
12. 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.
- H — HOARDING AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED BY OTHERS)
- CHAIN LINK FENCE AND GATE (TO BE ERECTED AND MAINTAINED UNDER THIS CONTRACT)

SETTING OUT COORDINATES OF AREA 5

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

AECOM

PROJECT 項目

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT 業主

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

CONSULTANT 工程顧問公司

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Fig 1.10

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核
			CWN
-	OCT. 12	TENDER DRAWING	CWN

STATUS 階段

SCALE 比例
A1 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號
60240249

CONTRACT NO. 合約編號
HY/2012/07

SHEET TITLE 圖紙名稱
WORKS AREA AND HOARDING PLAN

SHEET 1 OF 2

SHEET NUMBER 圖紙編號
60240249/C1/1051

Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

Plot File by: LIUJ3 2012-10-24
PATH: P:\Projects\60240249\DRAWING\CONTRACT\C1\1000\C1_1051.dgn

826200 E

826400 E

826600 E

824200 N

824000 N

823800 N

WOK TAI WAN

NORTH WEST TSING YI INTERCHANGE

A

B

W23-C7

W23-C1

AREA 23

W23-C6

ZONE 23A

ZONE 23B
(TO BE USED BY CONTRACTOR FOR CONTRACT NO. HY/2012/08)

W23-C5

W23-C4

W23-C2

W23-C3

ELEVATED ROAD

MTR PROTECTION BOUNDARY

MTR UNDER (TUNG CHUNG LINE/ AIRPORT EXPRESS)

MTR PROTECTION BOUNDARY

MTR PROTECTION BOUNDARY

MTR PROTECTION BOUNDARY

青馬大橋

青嶼幹線

LANTAU LINK

Elevated Road

Bridge Tower

N

NOTES:

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

LEGEND:

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

SETTING OUT COORDINATES OF AREA 23

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

Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

Plot File by: LWJ3 2012-10-24
PATH: P:\Projects\60240249\DRAWING\CONTRACT\C1\1000\C1_1052.dgn

AECOM

PROJECT 項目

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT 業主

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

CONSULTANT 工程顧問公司

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Fig 1.11

ISSUE/REVISION 修訂

			CWN
-	OCT. 12	TENDER DRAWING	CWN
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS 階段

SCALE 比例
A1 1 : 1000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖

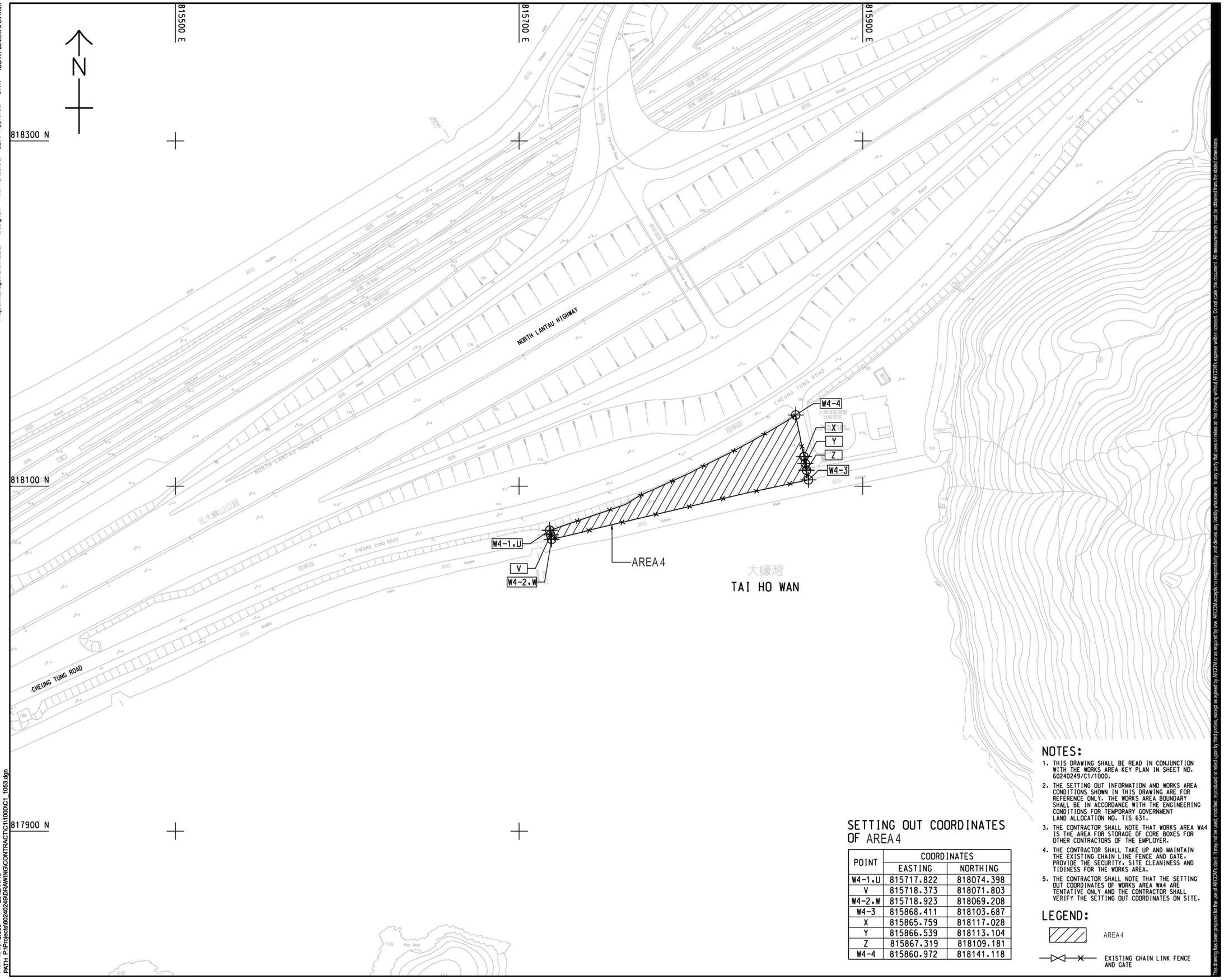
PROJECT NO. 項目編號
60240249

CONTRACT NO. 合約編號
HY/2012/07

SHEET TITLE 圖紙名稱
WORKS AREA AND HOARDING PLAN

SHEET 2 OF 2

SHEET NUMBER 圖紙編號
60240249/C1/1052



SETTING OUT COORDINATES OF AREA 4

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:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WORKS AREA KEY PLAN IN SHEET NO. 60240249/C1/1000.
2. THE SETTING OUT INFORMATION AND WORKS AREA CONDITIONS SHOWN IN THIS DRAWING ARE FOR REFERENCE ONLY. THE WORKS AREA BOUNDARY SHALL BE IN ACCORDANCE WITH THE ENGINEERING CONDITIONS FOR TEMPORARY GOVERNMENT LAND ALLOCATION NO. TIS 631.
3. THE CONTRACTOR SHALL NOTE THAT WORKS AREA WA4 IS THE AREA FOR STORAGE OF CORE BOXES FOR OTHER CONTRACTORS OF THE EMPLOYER.
4. THE CONTRACTOR SHALL TAKE UP AND MAINTAIN THE EXISTING CHAIN LINE FENCE AND GATE, PROVIDE THE SECURITY, SITE CLEANINESS AND TIDINESS FOR THE WORKS AREA.
5. 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:

AREA 4

EXISTING CHAIN LINK FENCE AND GATE

Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

Plot File by: LIUJ3 2012/11/16
PATH: P:\Projects\60240249\DRAWING\CONTRACT\C1\1000\C1_1053.dgn

AECOM

PROJECT 項目

TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT 業主

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

CONSULTANT 工程顧問公司

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Fig 1.12

ISSUE/REVISION 修訂

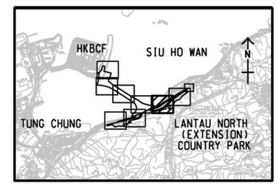
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核准
			CWN
-	NOV. 12	TENDER ADDENDUM NO. 1	CWN

STATUS 階段

SCALE 比例 A1 1 : 1000

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖



PROJECT NO. 項目編號 60240249

CONTRACT NO. 合約編號 HY/2012/07

SHEET TITLE 圖紙名稱

LOCATION OF AREA 4

SHEET NUMBER 圖紙編號

60240249/C1/1053

2 EM&A RESULTS

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

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

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

Table 2.1 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description	Monitoring Dates
ASR 8	Pak Mong Village Watch Tower	Rooftop of the premise	3, 9, 15, 21, 27, 30 January 2014
ASR 8A	Area 4	On ground at the Area 4	

High Volume Samplers (HVSs) were used for carrying out 1-hour and 24-hr TSP monitoring on 3, 9, 15, 21, 27, 30 January 2014 at ASR8 (Pak Mong Village Watch Tower) and ASR8A (Area 4) (*Figure 2.1; Table 2.1*) in accordance with the requirements stipulated in the Updated EM&A Manual. Wind anemometer was installed at the rooftop of Pak Mong Village Watch Tower for logging wind speed and wind direction. Details of the equipment deployed are given in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E.*

Table 2.2 Air Quality Monitoring Equipment

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

Key

- Original Monitoring Station
- Alternative Monitoring Station
- Site Boundary

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

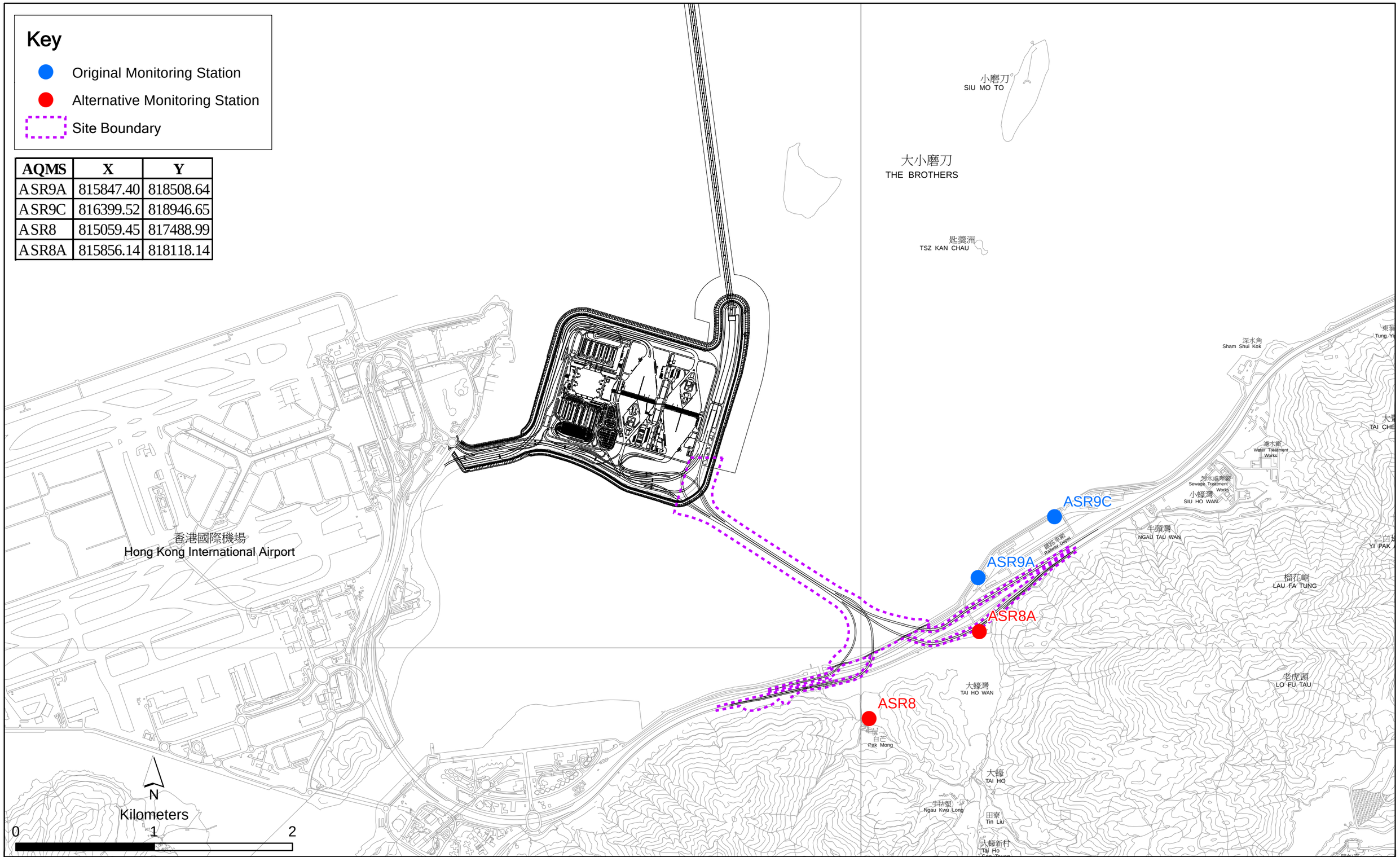


Figure 2.1

Locations of Air Quality Monitoring Stations

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Date: 6/12/2013

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

Environmental Resources Management

ERM

2.1.2 *Monitoring Schedule for the Reporting Month*

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

2.1.3 *Results and Observations*

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

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

	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR 8A	137	50 - 221	394	500
ASR 8	164	77 - 291	393	500

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

	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR 8A	88	35 - 164	178	260
ASR 8	93	52 - 152	178	260

The major dust source 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 level at all monitoring locations in the reporting period. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

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

2.2 *NOISE MONITORING*

2.2.1 *Monitoring Requirements and Equipment*

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

Noise monitoring was performed on 3, 9, 15, 21, 27 and 30 January 2014 using sound level meter at the designated monitoring station NSR 1 (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at

Key

- Noise Monitoring Station
- Site Boundary

NMS	X	Y
NSR1	815059.45	817488.99

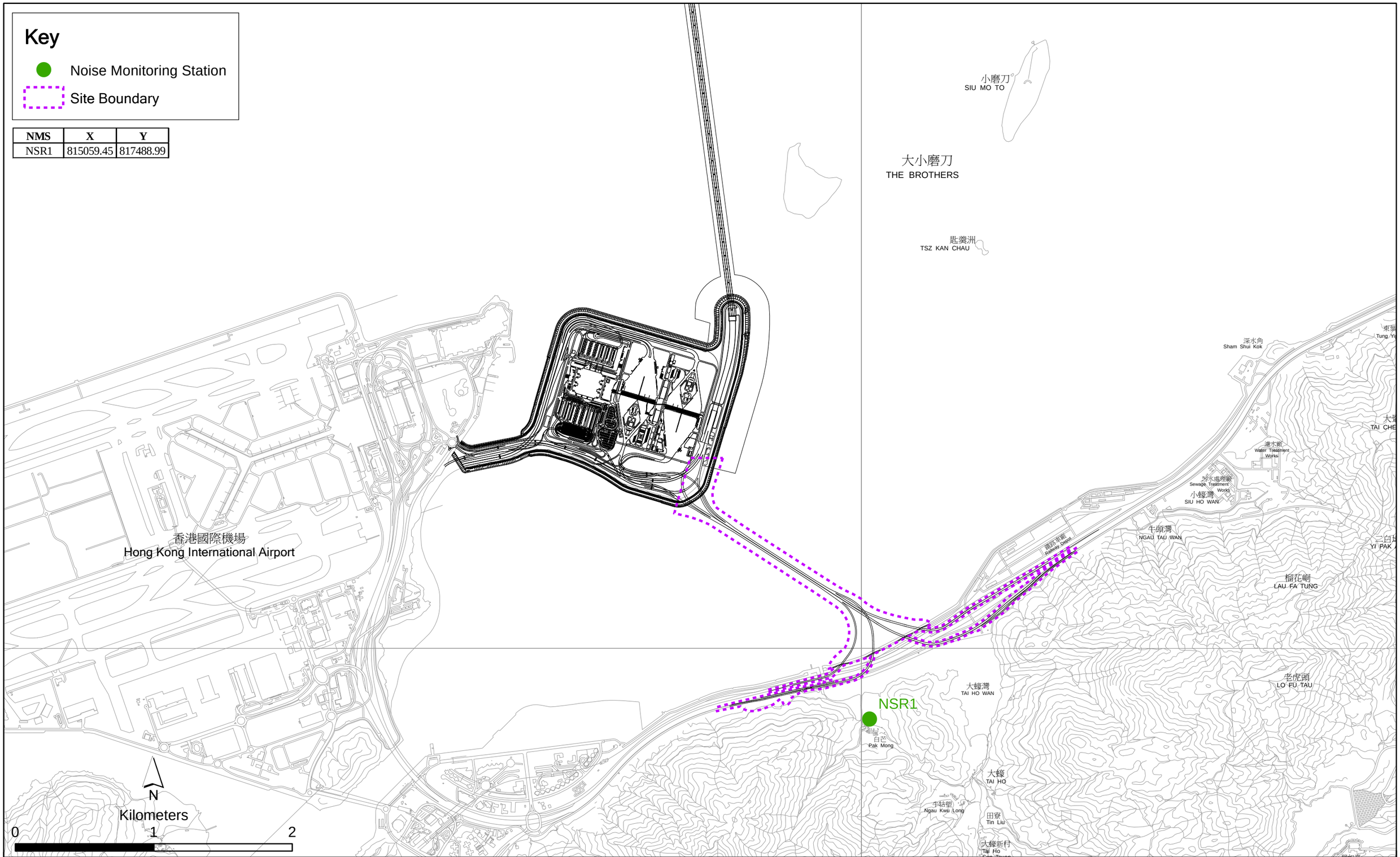


Figure 2.2

Locations of Noise Monitoring Stations

File: T:\GIS\CONTRACT\0215660\Mxd\0215660_NMS.mxd
Date: 10/12/2013

Environmental Resources Management

ERM

a known sound pressure level. Details of the equipment deployed 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 1	Pak Mong Village Watch Tower	Rooftop of the premise	30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq}, L_{10} and L_{90} would be recorded.	At least once per week	3, 9, 15, 21, 27 and 30 January 2014

Table 2.6 Noise Monitoring Equipment

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

2.2.2 Monitoring Schedule for the Reporting Month

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

2.2.3 Monitoring Results

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

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

	Average , dB(A), $L_{eq\ (30mins)}$	Range, dB(A), $L_{eq\ (30mins)}$	Limit Level, dB(A), $L_{eq\ (30mins)}$
NSR 1	59	57 - 60	75

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

Major noise sources during the noise monitoring included construction activities, nearby traffic noise and aircraft noise.

2.3 WATER QUALITY MONITORING

2.3.1 Monitoring Requirements and Equipment

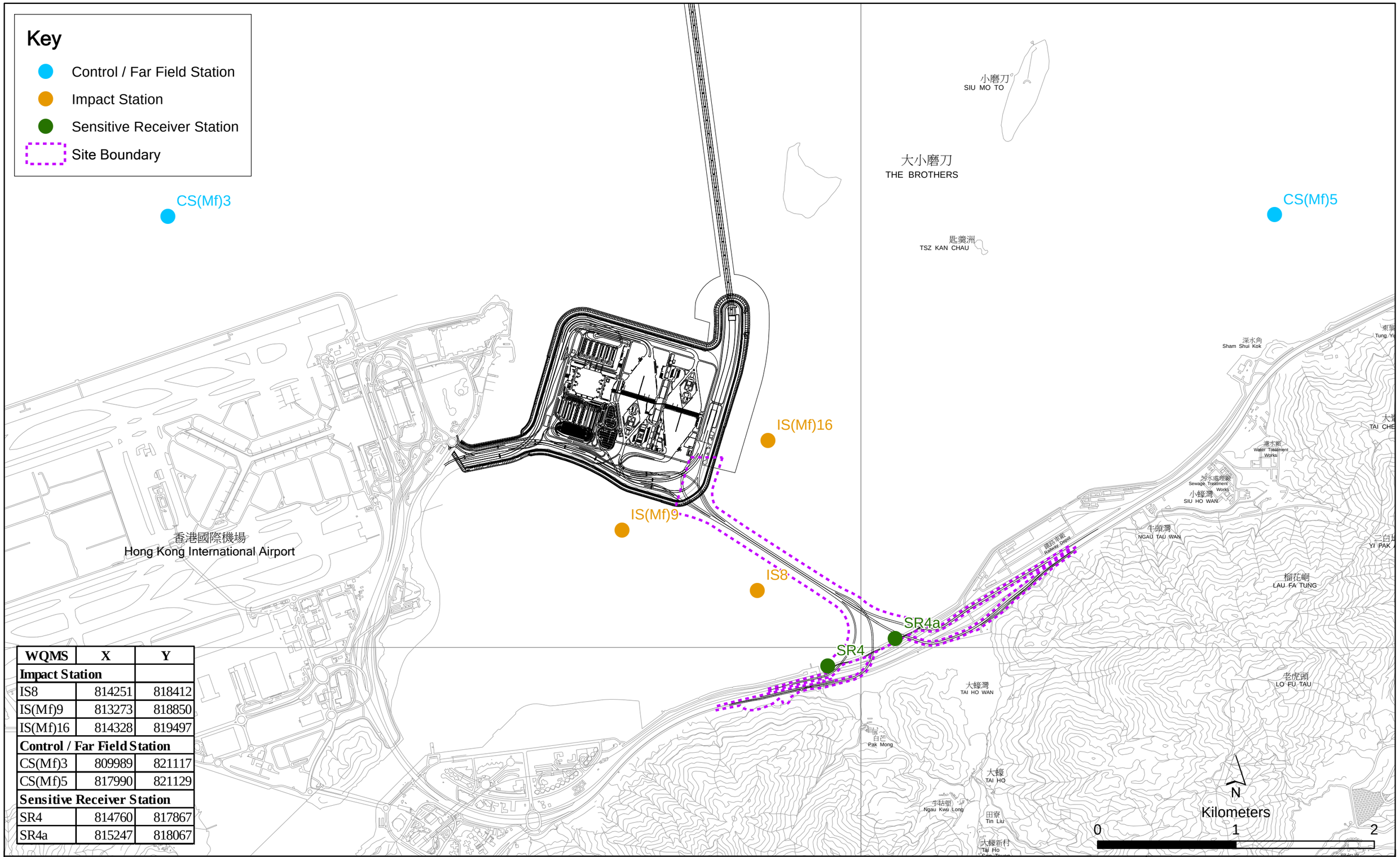
Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. Impact water quality monitoring was undertaken three days per week during the construction period in accordance with the Updated EM&A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

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

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

Station ID	Type	Coordinates		*Parameters, unit	Frequency	Depth
		Easting	Northing			
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850	• 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.



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

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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, Temperature meter and Salinity	YSI Pro2030
Turbidimeter	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 January 2014 is provided in *Appendix F*.

2.3.3 Results and Observations

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

No Action and Limit level exceedance was recorded at all monitoring stations for impact water quality monitoring in the reporting month. 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.

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

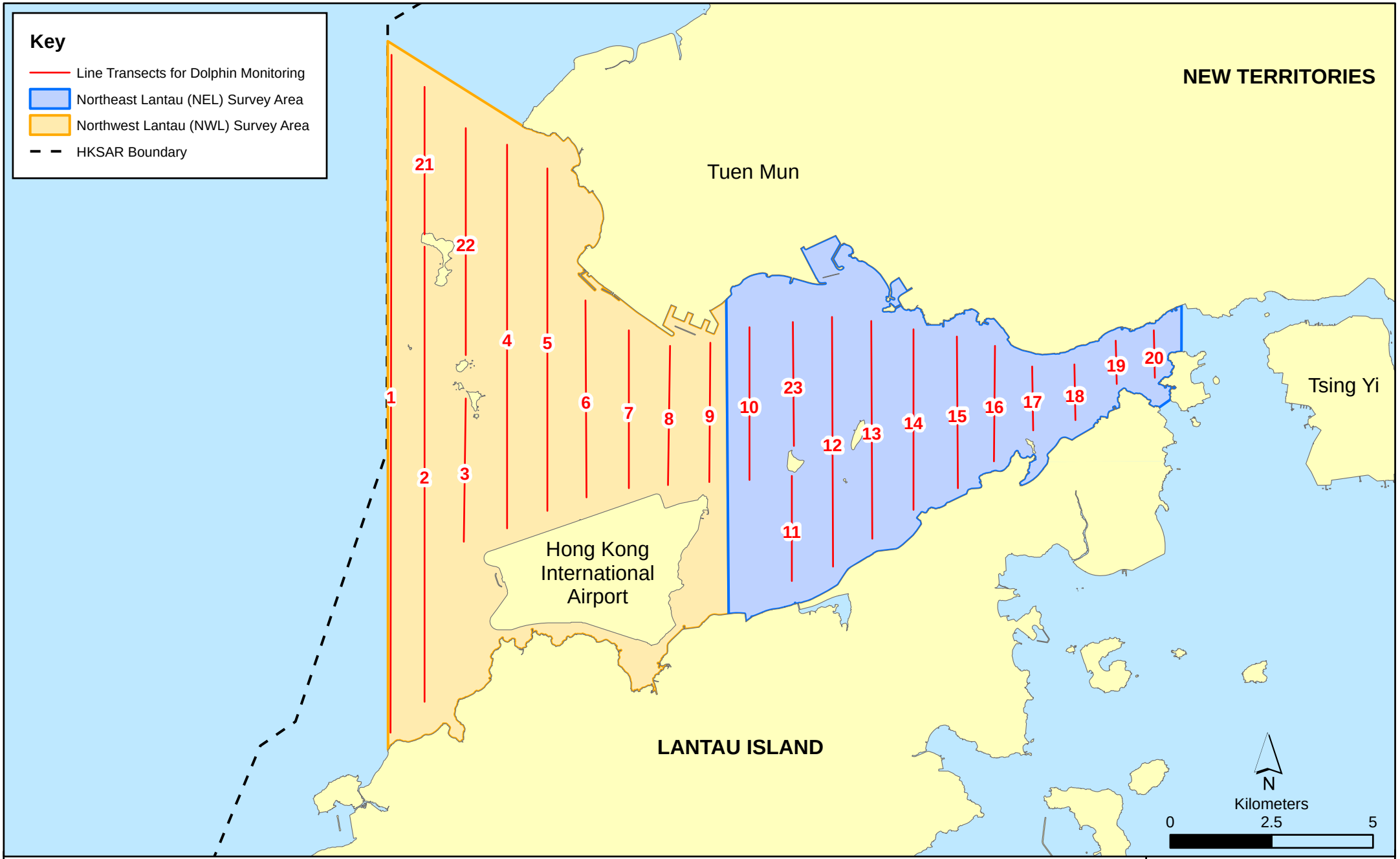

Figure 2.4

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

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Date: 10/12/2013

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

2.4.5 Action & Limit Levels

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

2.4.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 7, 9, 21 and 23 January 2014 (*Appendix F*).

2.4.7 *Results and Observations*

A total of 294.51 km of survey effort was collected, with 98.6% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the January's surveys. Among the two areas, 115.72 km and 178.79 km of survey effort were collected from NEL and NWL survey areas respectively. The total survey effort conducted on primary and secondary lines were 211.86 km and 82.65 km, respectively. The survey efforts are summarized in *Appendix K*.

A total of 19 groups of 78 Chinese White Dolphin sightings were recorded during the two sets of surveys in January 2014. All except one sighting were made in NWL during the two sets of surveys in January, with another group of nine animals being sighted in NEL. All except four sightings were made on primary lines during on-effort search, and none of the dolphin groups was associated with an operating fishing vessel.

The majority of these dolphin sightings in January 2014 were made around Lung Kwu Chau and near Black Point, while a lone sighting was made in the Northeast Lantau near Siu Ho Wan along the north shoreline of Lantau. It is noted that this lone sighting near Siu Ho Wan was located at less than 2 km from TM-CLKL Southern Connection Viaduct Section, which coincides with the dolphin sighting reported by the Marine Mammal Exclusion Zone Monitoring (see *Section 2.4.8*). The distribution of dolphin sightings during the reporting month is shown in *Figure 2.5*.

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

Table 2.12 Individual Survey Event Encounter Rates

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	**Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)**
		Primary Lines Only	Primary Lines Only
NEL	Set 1: Jan 7th / 9th	0.0	0.0
	Set 2: Jan 21st / 23rd	0.0	0.0
NWL	Set 1: Jan 7th / 9th	10.0	40.0
	Set 2: Jan 21st / 23rd	11.8	50.3

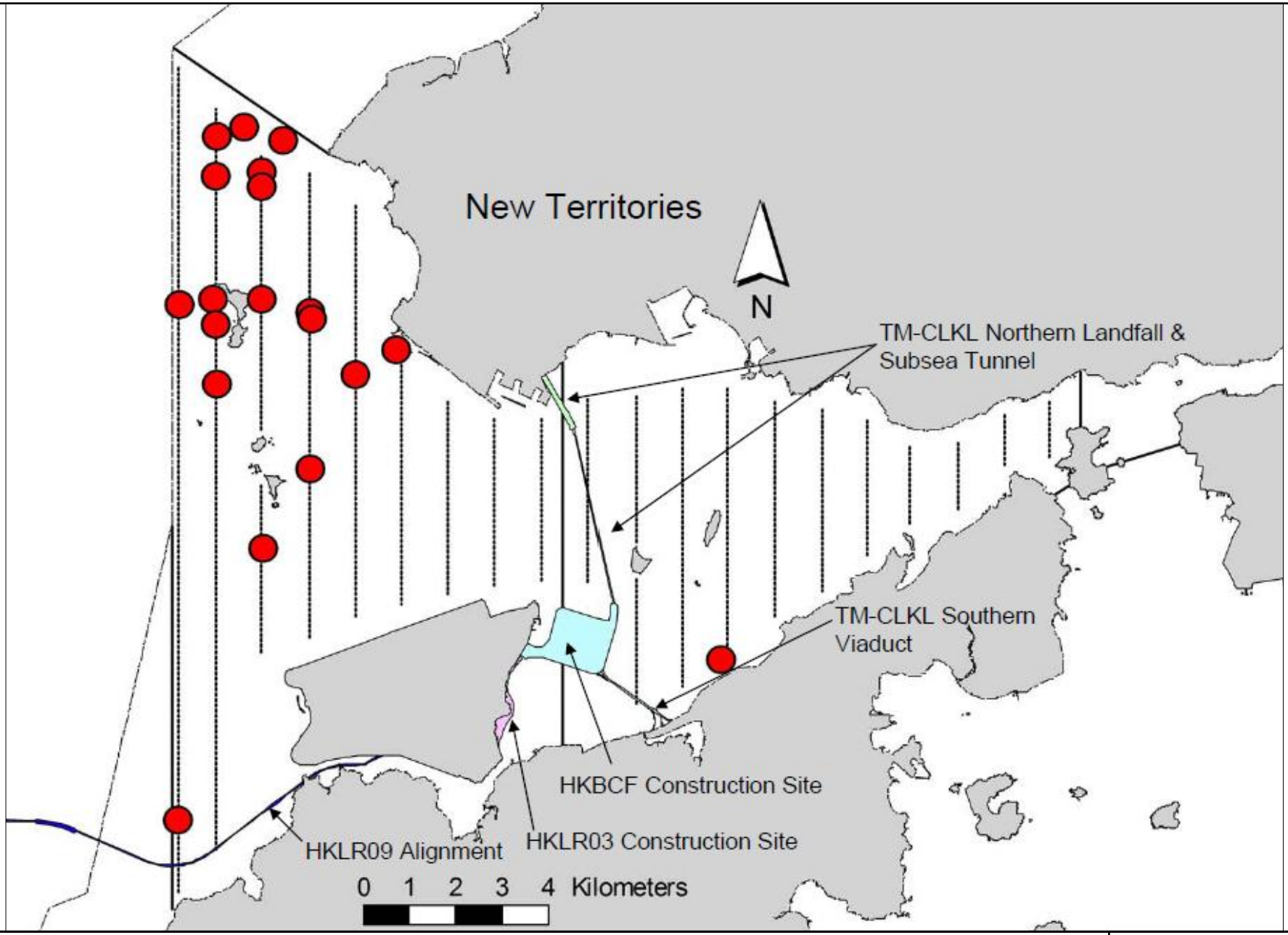

Figure 2.5

DATE: 06/03/2013

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 January 2014)

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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	0.9	0.0	8.0
Northwest Lantau	10.9	10.1	45.1	38.9

Note: Overall dolphin encounter rates (sightings per 100km of survey effort) from all four surveys are conducted in January 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 January 2014 was 4.11 individuals per group. Most dolphin groups were composed of only 1 – 4 animals, while several larger groups sighted around Lung Kwu Chau and near Siu Ho Wan were composed of 9 – 10 animals per group. Detailed results of dolphin monitoring in this reporting month are presented in *Appendix K*.

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

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

2.4.8 Marine Mammal Exclusion Zone Monitoring

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of dredging activities being undertaken. Sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* within the 250 m marine mammal exclusion zone of the landing platform workfront at TAB D was recorded on 23 January 2014 during the daylight hours and the *Dolphin Intrusion Report* is provided in *Appendix K*.

2.5 *CORAL MONITORING*

The first quarterly Post-Translocation Monitoring for coral was conducted on 17 January 2014, and the results of the monitoring were provided in the *First Quarterly Post-Translocation Monitoring Report*.

2.6 *EM&A SITE INSPECTION*

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, five (5) site inspections were carried out on 2, 9, 15, 22 and 29 January 2014.

Key observations during the site inspections are described below:

Air Quality

No adverse observation was identified in the reporting month.

Noise

No adverse observation was identified in the reporting month.

Water Quality

No adverse observation was identified in the reporting month.

Chemical and Waste Management

Floating trash was observed in the close proximity of dredging barge.

Sandy excavated materials were observed in the ditch next to the trial pits. The Contractor was reminded to clear it away.

Landscape and Visual Impact

The existing tree within the Project Area shall not be part of the fencing structure. The Contractor was reminded to avoid the use of trees for fencing purpose.

Miscellaneous

The Environmental Permit was displayed at the site entrance.

The Contractor has rectified all observations as identified during environmental site inspection in the reporting month. Rectifications of remaining identified items are undertaken by the Contractor. Follow-up inspections on the status on provision of mitigation measures will be conducted to ensure all identified items are mitigated properly.

2.7 *WASTE MANAGEMENT STATUS*

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

As advised by the Contractor, 138 m^3 of inert C&D Materials are generated and disposed of in the reporting period and 30 m^3 of inert C&D Materials are disposed of as public fill. 22.38 tonnes of general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in *Appendix M*.

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

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

2.8 *ENVIRONMENTAL LICENSES AND PERMITS*

The status of environmental licensing and permit is summarized in *Table 2.14* below.

Table 2.14 Summary of Environmental Licensing and Permit Status

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

Statutory Reference	License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
NCO	Construction Noise Permit	GW-RW0660-13	27 Sep 2013	02 Feb 2014	GCL	For night works and works in general holidays
NCO	Construction Noise Permit	GW-RS1129-13	31 Oct 2013	30 Apr 2014	GCL	For night works and works in general holidays
NCO	Construction Noise Permit	GW-RS1186-13	23 Oct 2013	24 Dec 2013	GCL	For night works and works in general holidays
NCO	Construction Noise Permit	GW-RS1187-13	24 Oct 2013	28 Feb 2014	GCL	For night
NCO	Construction Noise Permit	GW-RW0925-13	19 Dec 2013	17 Apr 2014	GCL	Renewal of WA5 site office erection
NCO	Construction Noise Permit	GW-RS1423-13	11 Dec 2013	30 Apr 2014	GCL	Renewal for marine portion
NCO	Construction Noise Permit	GW-RS1413-13	18 Dec 2013	26 Mar 2014	GCL	For loading and unloading on NLH near viaduct A & B
NCO	Construction Noise Permit	GW-RS0034-14	14 Jan 2014	29 Mar 2014	GCL	For night works and works in general holiday
DASO	Dumping Permit/ Loading Permit (Type 1 – Open Sea Disposal)	(4) in EP/MD/14-075	25 Sep 2013	NA	GCL	-
DASO	Marine Dumping Permit	EP/MD/14-075	28 January 2014	27 July 2014	GCL	-

2.9 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

2.10 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

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

2.11 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

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

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

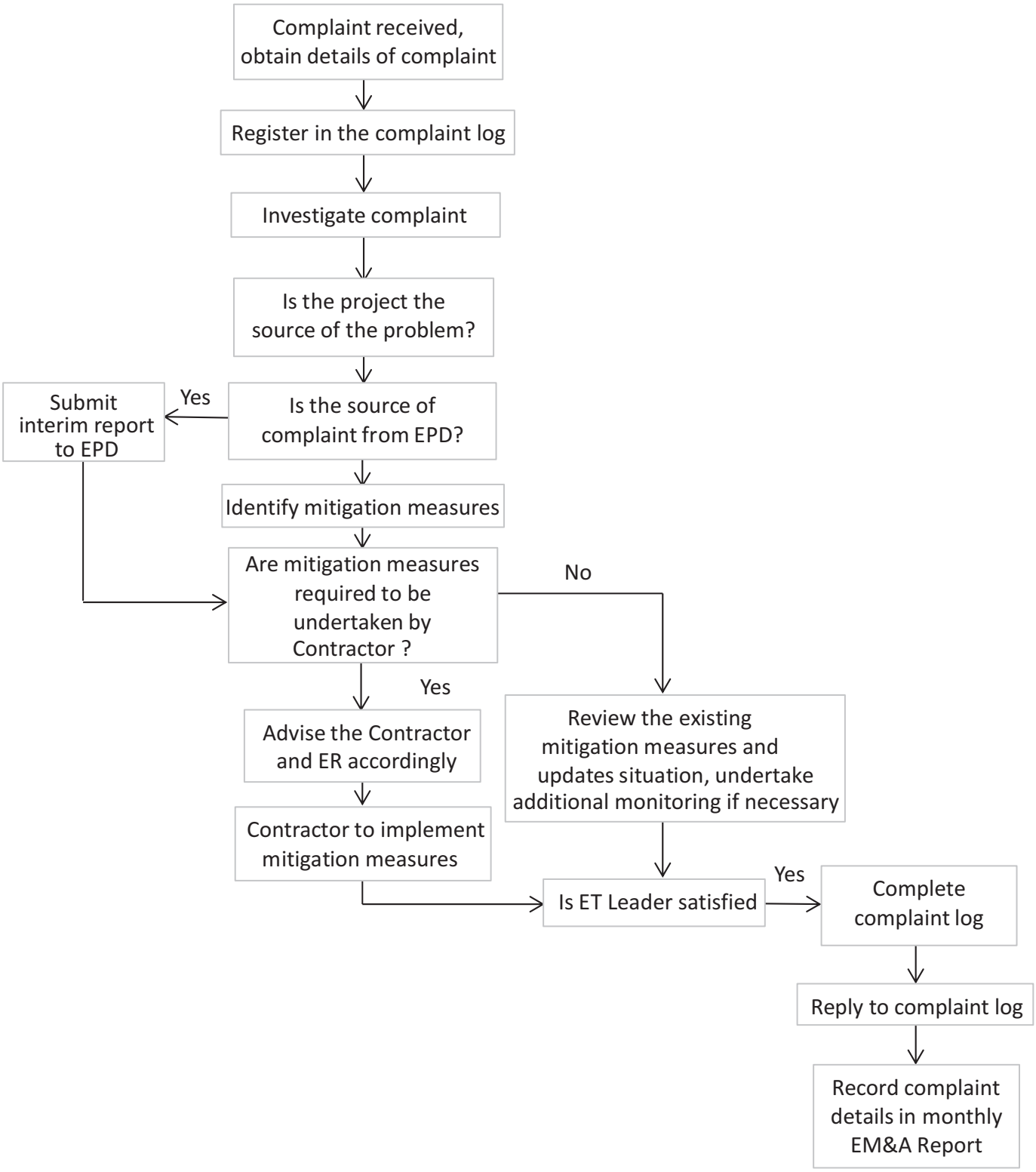

Figure 2.6 Environmental Complaint Handling Procedure

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3 FUTURE KEY ISSUES

3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTHS

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

Marine Works

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

Land-based Works

- SOR's site offices erection at Area 5;
- Satellite container offices erection along seawall (i.e. CEDD Access Road);
- Fence relocation for Viaducts A, B, C & D;
- Erect platform for ELS for Viaduct B;
- Piling platform installation for Viaduct B & D;
- Additional land GI, trial pits and laboratory testing; and
- Utility surveys.

3.2 KEY ISSUES FOR THE COMING MONTH

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

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

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

Marine bored piling works and the related marine bored piling monitoring programme for dolphins (ie Land-based Theodolite Tracking, Underwater Noise Monitoring and Acoustic Behavioural Monitoring) will tentatively be commenced on 26 February 2014. The preliminary schedule for the marine bored piling monitoring in the coming reporting month is provide in *Appendix F*.

4.1 CONCLUSIONS

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

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

A total of nineteen (19) groups of seventy-eight (78) dolphin sightings were recorded during the two sets of surveys. All except one sighting were made in NWL during the two sets of surveys in January, with another group of nine animals being sighted in NEL. A lone sighting of dolphin was recorded near Siu Ho Wan which is located at less than 2 km from TM-CLKL Southern Connection Viaduct Section. During this reporting period of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations.

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

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

4.2 RECOMMENDATIONS

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

Air Quality Impact

- All working plants and vessels on site should be regularly inspected and properly maintained by the Contractor to avoid dark smoke emission.
- Open stockpiles should be properly covered by the Contractor.
- The Contractor should provide water spraying to suppress fugitive dust for any dusty construction activity.

Construction Noise Impact

- Vessels and equipment operating should be checked regularly and properly maintained by the Contractor.

Water Quality Impact

- The Contractor should regularly review and maintain drainage systems to make sure they are functioning effectively.

- Proper drainage channels, bunds and set-up should be provided by the Contractor at the site to collect/ intercept the surface run-off or waste water generated from works area to ensure no direct discharge from site to surrounding water bodies.

Chemical and Waste Management

- All types of wastes should be collected and sorted accordingly and removed timely by the Contractor. They should be properly stored in designated areas within the works areas temporarily.

- All plants and vehicles on site should be properly maintained by the Contractor and drip trays should be provided where appropriate to prevent oil leakage.

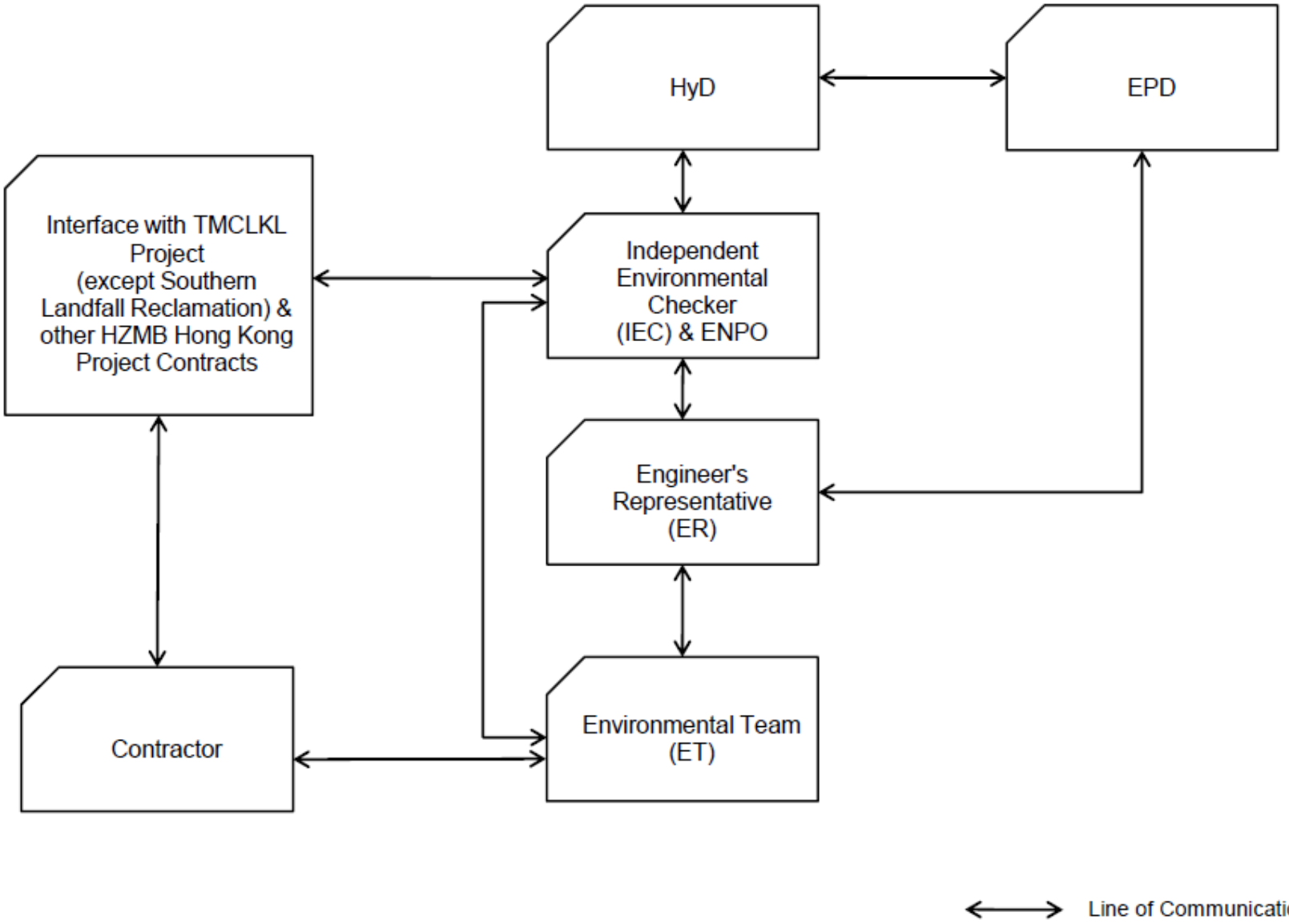
- All drain holes of the drip trays within the works areas should be properly plugged by the Contractor to avoid any oil and chemical waste leakage.

- Oil stains on soil surface should be cleared and disposed of as chemical waste by the Contractor.

- Floating debris and trash observed within the silt curtain and around the working barge should be collected as far as possible to maintain the cleanliness of the surrounding sea.

Appendix A

Project Organization for Environmental Works



Appendix A1

Contract No. HY/2012/07 Southern Connection Viaduct Section
Project Organization

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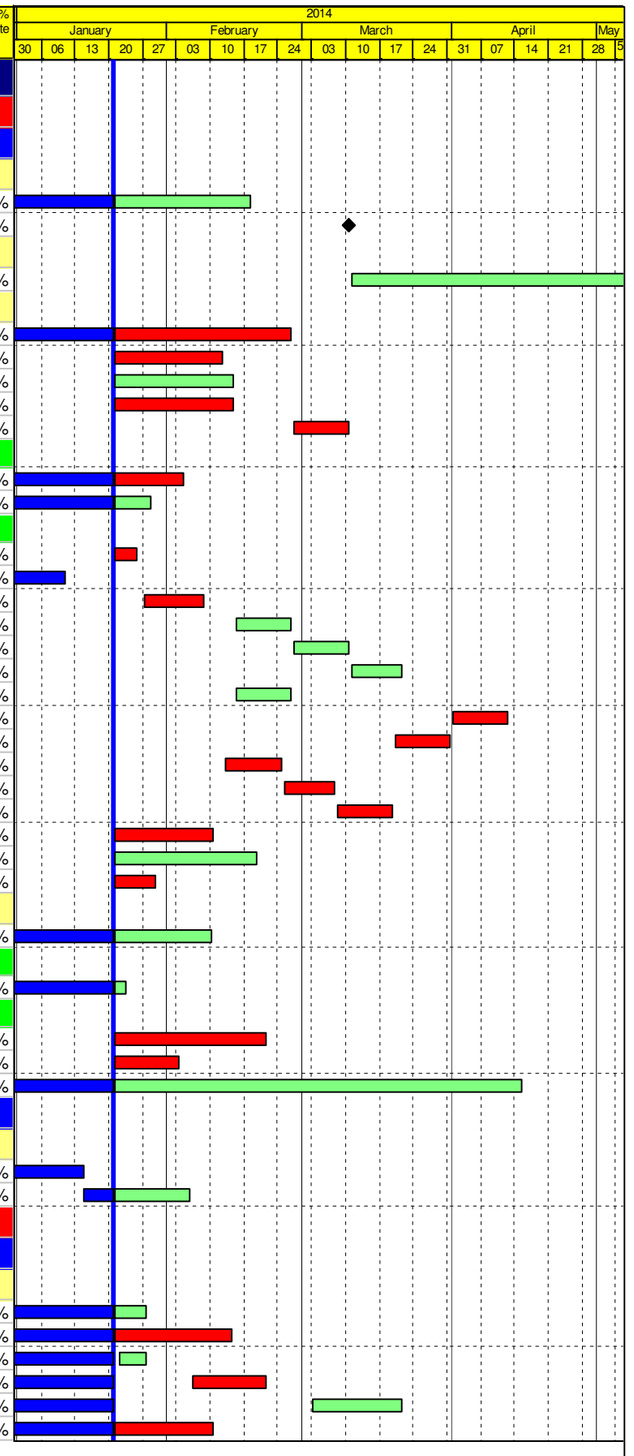
Appendix B

Three-Month Rolling Construction Programme

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
HY/2012/07 - TM-CLK Link-SC [DWP rC-1] - 3MRP Status Update 23-01-2014										
General Submission										
General Requirements										
General Management										
PR01430	Produce interface management plan	Chris Ma	25	123	23	23-Aug-13 A	18-Feb-14	23-Aug-13		10%
PR9000	Completion of initial general submissions, mobilisation & setup coordination with external pa		0	0	0		10-Mar-14			0%
Temporary Works Design										
PR00130	Unloading Jetty at HKBCF - Working Platform design and approval	David Sein	90	0	90	11-Mar-14	02-Jul-14			0%
Land Works										
PR03130	Apply for land between Viaduct C & D (between Pier C8 and D9)	K M Chiang	75	123	30	23-Aug-13 A	26-Feb-14	23-Aug-13		60%
PR03150	Fence relocation Viaduct D	K M Chiang	18	0	18	21-Jan-14	12-Feb-14			0%
PR03160	Fence relocation Viaduct A	K M Chiang	20	0	20	21-Jan-14	14-Feb-14			0%
PR03170	Fence relocation Viaduct C	K M Chiang	20	0	20	21-Jan-14	14-Feb-14			0%
PR03180	Fencing for working area connecting Viaduct C & D	K M Chiang	10	0	10	27-Feb-14	10-Mar-14			0%
Surveys										
PR01290-2	Viaduct B - EBS condition/structural surveys of existing structures	K M Chiang	102	145	10	29-Jul-13 A	04-Feb-14	29-Jul-13		90%
PR01300-1	Carry out investigation/surveys to locate existing utilities/services	K M Chiang	72	163	7	08-Jul-13 A	28-Jan-14	08-Jul-13		90.28%
Additional Land GI										
PR03189-1	PBH23 (Pier C8) - MTR area	Hans Sundstro	5	0	5	21-Jan-14	25-Jan-14			0%
PR03190	PBH42 (Pier B9) - MTR area	Hans Sundstro	5	19	0	17-Dec-13 A	11-Jan-14 A	17-Dec-13	11-Jan-14	100%
PR03200-4	PBH25 (Pier D9) - MTR area	Hans Sundstro	10	0	10	27-Jan-14	08-Feb-14			0%
PR03210-1	PBH38 (Abutment A) - MTR area	Hans Sundstro	10	0	10	15-Feb-14	26-Feb-14			0%
PR03210-2	PBH39 (Pier A11) - MTR area	Hans Sundstro	10	0	10	27-Feb-14	10-Mar-14			0%
PR03210-3	PBH40 (Pier A10) - MTR area	Hans Sundstro	10	0	10	11-Mar-14	21-Mar-14			0%
PR03210-4	PBH41 (Pier A9) - MTR area	Hans Sundstro	10	0	10	15-Feb-14	26-Feb-14			0%
PR03221	PBH27 (Pier D17) - MTR area	Hans Sundstro	10	0	10	01-Apr-14	12-Apr-14			0%
PR03222	PBH28 (Pier D18) - MTR area	Hans Sundstro	10	0	10	20-Mar-14	31-Mar-14			0%
PR03223	PBH32 (Abutment D) - MTR area	Hans Sundstro	10	0	10	13-Feb-14	24-Feb-14			0%
PR03224	PBH33 (Abutment D) - MTR area	Hans Sundstro	10	0	10	25-Feb-14	07-Mar-14			0%
PR03225	PBH34 (Abutment D) - MTR area	Hans Sundstro	10	0	10	08-Mar-14	19-Mar-14			0%
PR03231	Trial Pits TP05 & 6 (10SW-A/F52)	Hans Sundstro	16	0	16	21-Jan-14	10-Feb-14			0%
PR03232	Trial Pits TP07 (10NW-C/C26), TP08 (10NW-C/C27), TP09 (10NW-C/C22)	Hans Sundstro	24	0	24	21-Jan-14	19-Feb-14			0%
PR03233	Trial Pits TP010 (9SE-B/C8)	Hans Sundstro	8	0	8	21-Jan-14	29-Jan-14			0%
Marine Works										
PR01120	Apply for DASO permits for the dumping of sediments in Hong Kong waters	Hans Sundstro	76	117	15	30-Aug-13 A	10-Feb-14	30-Aug-13		80%
Surveys										
PR01260	Record survey existg grnd/seabed levels w/in Site, photo survey/existg drain surveys prior t	Hans Sundstro	13	157	3	15-Jul-13 A	23-Jan-14	15-Jul-13		80%
Additional Marine GI										
PR02154-2	PBH17B & PHB17C - Pier E13-B (E7c)	Hans Sundstro	26	0	26	21-Jan-14	21-Feb-14			0%
PR02155-2	PBH18A - Pier E13-A	Hans Sundstro	10	0	10	21-Jan-14	03-Feb-14			0%
PR02200-2	PBH01 to PBH12 in Portion A (by Jackup Barge 1)	Hans Sundstro	72	25	70	19-Dec-13 A	15-Apr-14	19-Dec-13		2.78%
EM&A Works										
3. Works Prior to Construction Commencement										
EN0070-22	EM&A Works Baseline Monitoring Reporting	Brian Kam	24	65	0	28-Oct-13 A	15-Jan-14 A	28-Oct-13	15-Jan-14	100%
EN0070-23	ENPO/SO approval of EM&A Works Baseline Monitoring Reporting	Brian Kam	24	5	12	15-Jan-14 A	05-Feb-14	15-Jan-14		50%
Design Submission										
Detailed Design (v16)										
Ground Investigation										
ARDD0009	Consultation with GEO	Arup	20	115	5	13-Aug-13 A	27-Jan-14	13-Aug-13		75%
ARDD0010	IC/SO Approval of Ground Investigation Interpretative Report - AP03.00	Arup	75	115	19	13-Aug-13 A	14-Feb-14	13-Aug-13		75%
ARDD0012	IC/SO Approval of Additional GI Requirements	Arup	20	122	4	02-Aug-13 A	27-Jan-14	02-Aug-13		80%
ARDD0013-1	Additional GI Fieldwork, Lab Testing and Permitting E5-E8	Arup	45	95	11	10-Sep-13 A	21-Feb-14	10-Sep-13		75%
ARDD0013-2	Additional GI Fieldwork, Lab Testing and Permitting - Viaduct A	Arup	60	110	15	20-Aug-13 A	21-Mar-14	20-Aug-13		75%
ARDD0013-3	Additional GI Fieldwork, Lab Testing and Permitting - Viaduct B	Arup	60	110	15	20-Aug-13 A	10-Feb-14	20-Aug-13		75%



Actual Work
Planned Bar
Critical Bar
Milestone

Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 1 of 12 Pages)

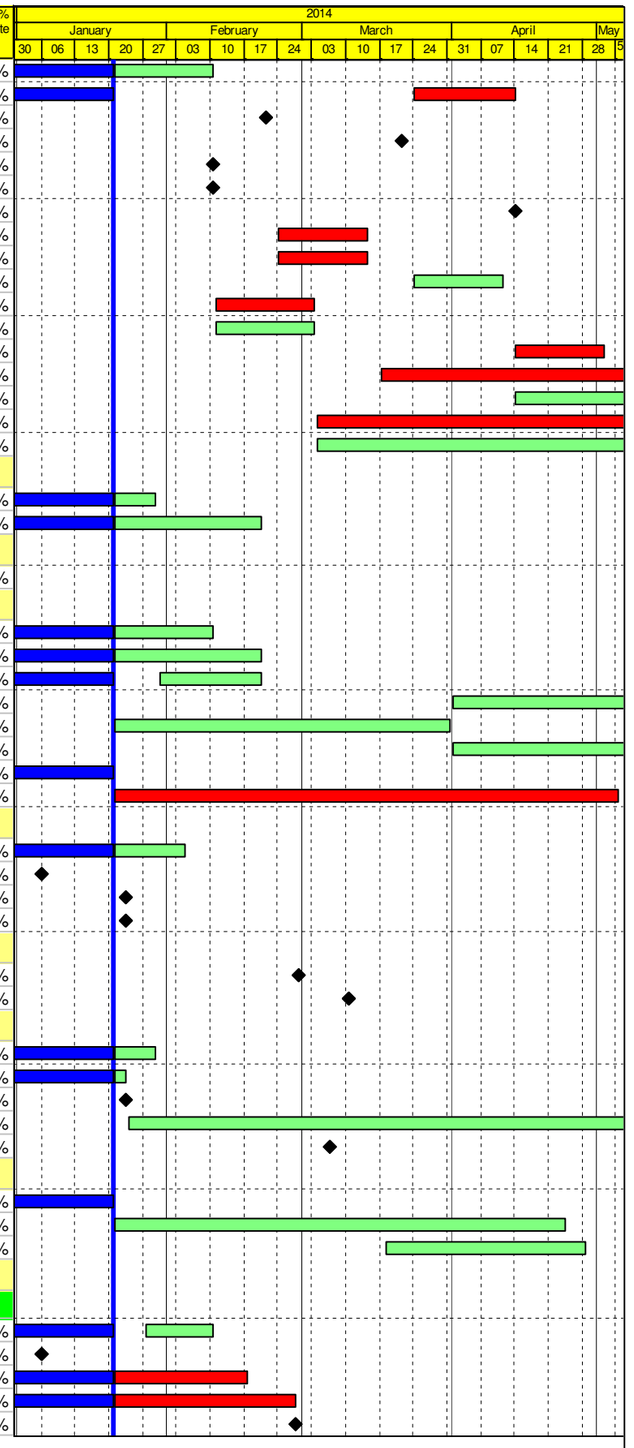
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
ARDD0013-4	Additional GI Fieldwork, Lab Testing and Permitting - Viaduct C	Arup	60	110	15	20-Aug-13 A	10-Feb-14	20-Aug-13		75%
ARDD0013-5	Additional GI Fieldwork, Lab Testing and Permitting - Viaduct D	Arup	60	110	15	20-Aug-13 A	14-Apr-14	20-Aug-13		75%
ARDD0014-1	Receipt of Additional GI Data E5-E8	Arup	0	0	0		21-Feb-14			0%
ARDD0014-2	Receipt of Additional GI Data - Viaduct A	Arup	0	0	0		21-Mar-14			0%
ARDD0014-3	Receipt of Additional GI Data - Viaduct B	Arup	0	0	0		10-Feb-14			0%
ARDD0014-4	Receipt of Additional GI Data - Viaduct C	Arup	0	0	0		10-Feb-14			0%
ARDD0014-5	Receipt of Additional GI Data - Viaduct D	Arup	0	0	0		14-Apr-14			0%
ARDD0015-1	E5-E8 Interpretation	Arup	15	0	15	24-Feb-14	14-Mar-14			0%
ARDD0015-2	Additional GI Interpretative Report - AP03.00 for E1, E2, E5 to E8	Arup	15	0	15	24-Feb-14	14-Mar-14			0%
ARDD0015-3	Additional GI Interpretative Report - AP03.00 for Viaducts A	Arup	15	0	15	24-Mar-14	11-Apr-14			0%
ARDD0015-4	Additional GI Interpretative Report - AP03.00 for Viaducts B	Arup	15	0	15	11-Feb-14	03-Mar-14			0%
ARDD0015-5	Additional GI Interpretative Report - AP03.00 for Viaducts C	Arup	15	0	15	11-Feb-14	03-Mar-14			0%
ARDD0015-6	Additional GI Interpretative Report - AP03.00 for Viaducts D	Arup	15	0	15	14-Apr-14	02-May-14			0%
ARDD0017-2	IC/SO Approval of Additional GI Interpretative Report - AP03.00 for E1, E2, E5 to E8	Arup	75	0	75	17-Mar-14	27-Jun-14			0%
ARDD0017-3	IC/SO Approval of Additional GI Interpretative Report - AP03.00 for Viaducts A	Arup	75	0	75	14-Apr-14	25-Jul-14			0%
ARDD0017-4	IC/SO Approval of Additional GI Interpretative Report - AP03.00 for Viaducts B	Arup	75	0	75	04-Mar-14	16-Jun-14			0%
ARDD0017-5	IC/SO Approval of Additional GI Interpretative Report - AP03.00 for Viaducts C	Arup	75	0	75	04-Mar-14	16-Jun-14			0%
Surveys and Investigations										
ARDD0022	Fieldwork and Permitting	Arup	60	141	7	08-Jul-13 A	29-Jan-14	08-Jul-13		88.33%
ARDD0025	IC/SO Approval of Utility Report - AP04.00	Arup	75	65	23	22-Oct-13 A	20-Feb-14	22-Oct-13		70%
Interface with BCF Contract										
ARDD0027	Finalise all Interface Details	Arup	60	60	0	30-Sep-13 A	23-Dec-13 A	30-Sep-13	23-Dec-13	100%
General Submissions										
ARDD0033	IC/SO Approval of Design Memo - AP02.00	Arup	75	122	15	02-Aug-13 A	10-Feb-14	02-Aug-13		80%
ARDD0035	IC/SO Approval of of Durability Assessment Report - AP06.00	Arup	75	118	23	08-Aug-13 A	20-Feb-14	08-Aug-13		70%
ARDD0037	IC/SO Approval of Seismic Impact Report - AP11.00	Arup	75	109	15	21-Aug-13 A	20-Feb-14	21-Aug-13		80%
ARDD0038	Preparation of Maintenance Matrix - AP07.00	Arup	30	0	30	01-Apr-14	12-May-14			0%
ARDD0042-1	Preparation of O&M Facility Provisions AIP - BP11.00	Arup	50	0	50	21-Jan-14*	31-Mar-14			0%
ARDD0042-2	IC/SO Approval of of O&M Facility Provisions AIP - BP11.00	Arup	75	0	75	01-Apr-14	14-Jul-14			0%
ARDD0462	Prepare Construction TIA submission - AP05.00	Arup	20	41	0	25-Nov-13 A	21-Jan-14 A	25-Nov-13	21-Jan-14	100%
ARDD0462-1	IC/SO approval of Construction TIA submission - AP05.00	Arup	75	0	75	21-Jan-14	05-May-14			0%
ACABAS Submission										
ARDD0051	Prepare Updated Submission	Arup	30	40	11	26-Nov-13 A	04-Feb-14	26-Nov-13		63.33%
ARDD0052	Submission to ACABAS	Arup	0	0	0		06-Jan-14 A		06-Jan-14	100%
ARDD0063	Approval of ACABAS - AP09.00	Arup	0	0	0		23-Jan-14			0%
ARDD0064	ACABAS Meeting	Arup	0	0	0		23-Jan-14			0%
GCL Erection Sequence and Method										
ARDD0060-4	Receipt of Final Erection Sequence and Loads - Bridge C	Arup	0	0	0		28-Feb-14			0%
ARDD0060-7	Receipt of Final Erection Sequence and Loads - Bridge F	Arup	0	0	0		10-Mar-14			0%
Gazette and Alignment (assume no gazette change)										
ARDD0068	IC/SO Approval of Alignment AIP - BP01.00	Arup	68	120	7	06-Aug-13 A	29-Jan-14	06-Aug-13		90%
ARDD0069	Finalise Alignment DDA	Arup	15	81	3	30-Sep-13 A	23-Jan-14	30-Sep-13		80%
ARDD0070	Submission of Alignment DDA - BP01.01	Arup	0	0	0		23-Jan-14			0%
ARDD0071	IC/SO Approval of Alignment DDA - BP01.01	Arup	75	0	75	24-Jan-14	08-May-14			0%
ARDD0071-1	Earliest Approval of Alignment DDA - BP01.01	Arup	0	0	0		06-Mar-14			0%
General Viaduct Submission										
ARDD0075	Preparation of Viaduct E&M Works AIP - BP21.00	Arup	50	81	0	30-Sep-13 A	21-Jan-14 A	30-Sep-13	21-Jan-14	100%
ARDD0076	IC/SO Approval of AIP - BP21.00	Arup	68	0	68	21-Jan-14	24-Apr-14			0%
ARDD0077	Preparation of Viaduct E&M Works DDA - BP21.01	Arup	30	0	30	18-Mar-14	28-Apr-14			0%
Viaduct B										
Viaduct Design										
ARDD0089	Viaduct B - IC/SO Approval of Sub & Superstructure AIP - DP12.00	Arup	68	100	10	03-Sep-13 A	10-Feb-14	03-Sep-13		85%
ARDD0094	Viaduct B - Earliest IC Certificate for Foundation DDA DP12.01	Arup	0	0	0		06-Jan-14 A		06-Jan-14	100%
ARDD0096	Viaduct B - Preparation of Substructure DDA - DP12.03	Arup	50	56	20	04-Nov-13 A	17-Feb-14	04-Nov-13		60%
ARDD0097	Viaduct B - Preparation of Superstructure DDA - DP12.03	Arup	70	56	28	04-Nov-13 A	27-Feb-14	04-Nov-13		60%
ARDD0098	Viaduct B - Submission of Sub & Superstructure DDA - DP12.03	Arup	0	0	0		27-Feb-14			0%



Actual Work
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Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 2 of 12 Pages)

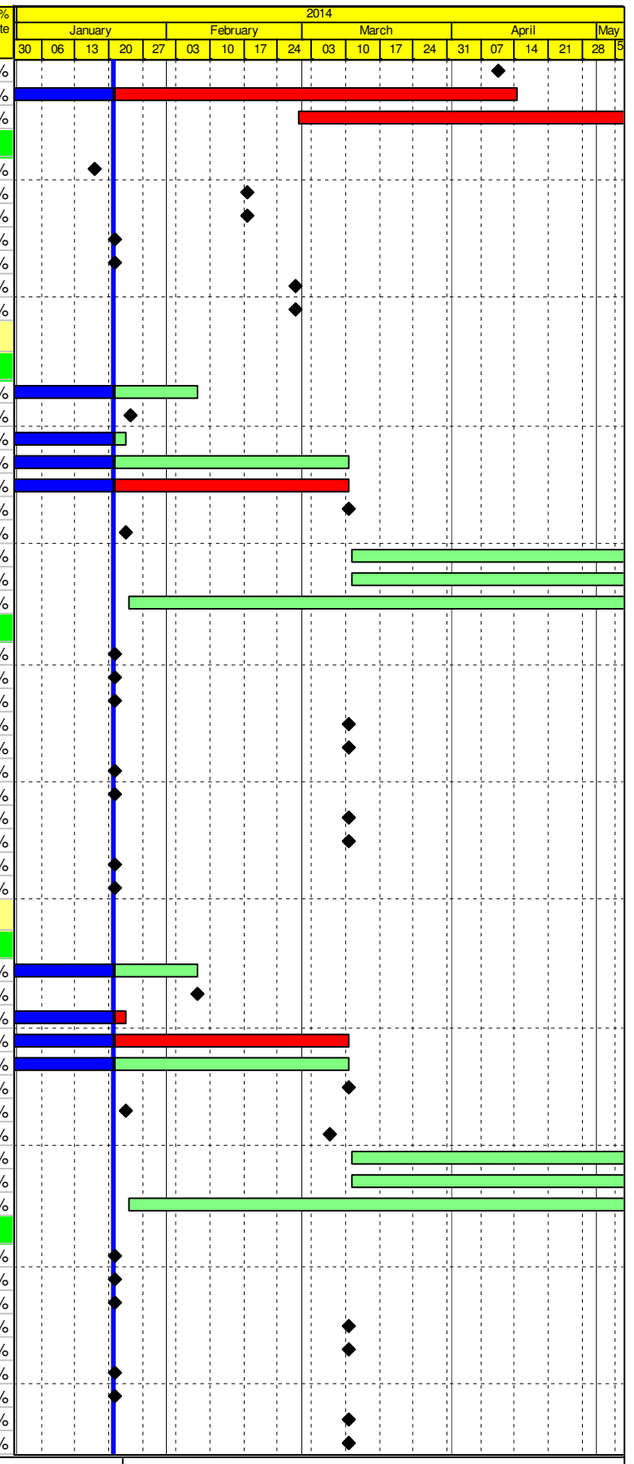
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
ARDD0099	Viaduct B - Earliest IC Certificate for DP12.03	Arup	0	0	0		10-Apr-14			0%
ARDD0099	Viaduct B - IC/SO Approval Pile Cap Precast Shells of DDA DP12.02	Arup	75	36	60	30-Nov-13 A	14-Apr-14	30-Nov-13		20%
ARDD0099	Viaduct B - IC/SO Approval of Sub & Superstrucrue DDA - DP12.03	Arup	75	0	75	28-Feb-14	12-Jun-14			0%
Information to Contractor										
ARDD0108	Viaduct B - Typical Pilecap Reinforcement - Regular Rebar	Arup	0	0	0		17-Jan-14 A		17-Jan-14	100%
ARDD0109	Viaduct B - Final Pilecap Reinforcement	Arup	0	0	0		17-Feb-14			0%
ARDD0111	Viaduct B - Final Pier Shapes and Reinforcement	Arup	0	0	0		17-Feb-14			0%
ARDD0112	Viaduct B - Typical Segment Shapes for Moulds	Arup	0	0	0		21-Jan-14			0%
ARDD0113	Viaduct B - Typical Segment Reinforcement	Arup	0	0	0		21-Jan-14			0%
ARDD0114	Viaduct B - Final Segment Types and Reinforcement	Arup	0	0	0		27-Feb-14			0%
ARDD0116	Viaduct B - Final Anchorage and PT Requirements	Arup	0	0	0		27-Feb-14			0%
Viaduct E5 and E6										
Viaduct Design										
ARDD0140	Viaduct E5 & E6 - IC/SO Approval of Sub & Superstructure AIP - DP15.00	Arup	68	80	14	01-Oct-13 A	07-Feb-14	01-Oct-13		80%
ARDD0145	Viaduct E5 & E6 - Earliest IC/SO Certificate for Foundation DDA - DP15.07	Arup	0	0	0		24-Jan-14			0%
ARDD0146	Viaduct E5 & E6 - Preparation of Pilecap Precast Shells DDA - DP15.08	Arup	40	56	3	04-Nov-13 A	23-Jan-14	04-Nov-13		92.5%
ARDD0147	Viaduct E5 & E6 - Preparation of Substructure DDA - DP15.09	Arup	60	56	35	04-Nov-13 A	10-Mar-14	04-Nov-13		41.67%
ARDD0148	Viaduct E5 & E6 - Preparation of Superstructure DDA - DP15.09	Arup	90	56	35	04-Nov-13 A	10-Mar-14	04-Nov-13		61.11%
ARDD0149	Viaduct E5 & E6 - Submission of DDA for Viaduct Sub & Superstructure E5 & E6 - DP15.0	Arup	0	0	0		10-Mar-14			0%
ARDD0149	Viaduct E5 & E6 - Submission of DDA for Viaduct Pile Cap Precast Shells E5 & E6 - DP15	Arup	0	0	0		23-Jan-14			0%
ARDD0150	Viaduct E5 & E6 - IC/SO Approval (Early) of Sub & Superstructure DDA - DP15.09	Arup	55	0	55	11-Mar-14	26-May-14			0%
ARDD0150	Viaduct E5 & E6 - IC/SO Approval (late) of Sub & Superstructure DDA DP15.09	Arup	75	0	75	11-Mar-14	23-Jun-14			0%
ARDD0150	Viaduct E5 & E6 - IC/SO Approval of Pile Cap Precast Shells DDA DP15.08	Arup	75	0	75	24-Jan-14	08-May-14			0%
Information to Contractor										
ARDD0155	Viaduct E5 & E6 - Final Pile Reinforcement and Socket H Pile Details	Arup	0	0	0		21-Jan-14			0%
ARDD0158	Viaduct E5 & E6 - Typical Pilecap Reinforcement - Stainless Steel Rebar	Arup	0	0	0		21-Jan-14			0%
ARDD0159	Viaduct E5 & E6 - Typical Pilecap Reinforcement - Regular Rebar	Arup	0	0	0		21-Jan-14			0%
ARDD0160	Viaduct E5 & E6 - Final Pilecap Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0162	Viaduct E5 & E6 - Final Pier Shapes and Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0163	Viaduct E5 & E6 - Typical Segment Shapes for Moulds	Arup	0	0	0		21-Jan-14			0%
ARDD0164	Viaduct E5 & E6 - Typical Segment Reinforcement	Arup	0	0	0		21-Jan-14			0%
ARDD0165	Viaduct E5 & E6 - Final Segment Types and Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0167	Viaduct E5 & E6 - Final Anchorage and PT Requirements	Arup	0	0	0		10-Mar-14			0%
ARDD0169	Viaduct E5 & E6 - Final Bearing Schedule	Arup	0	0	0		21-Jan-14			0%
ARDD0171	Viaduct E5 & E6 - Final Movement Joint (MJ) Schedule	Arup	0	0	0		21-Jan-14			0%
Viaduct E7 & E8										
Viaduct Design										
ARDD0185	Viaduct E7 & E8 - IC/SO Approval of Sub & Superstructure AIP - DP15.00	Arup	68	80	14	01-Oct-13 A	07-Feb-14	01-Oct-13		80%
ARDD0190	Viaduct E7 & E8 - Earliest IC Certificate for Foundation DDA- DP15.07	Arup	0	0	0		07-Feb-14			0%
ARDD0191	Viaduct E7 & E8 - Preparation of Pilecap Precast Shells DDA - DP15.08	Arup	40	56	3	04-Nov-13 A	23-Jan-14	04-Nov-13		92.5%
ARDD0192	Viaduct E7 & E8 - Preparation of Substructure DDA - 15.09	Arup	60	56	35	04-Nov-13 A	10-Mar-14	04-Nov-13		41.67%
ARDD0193	Viaduct E7 & E8 - Preparation of Superstructure DDA - DP15.09	Arup	90	56	35	04-Nov-13 A	10-Mar-14	04-Nov-13		61.11%
ARDD0194	Viaduct E7 & E8 - Submission of Sub & Superstructure DDA - DP15.09	Arup	0	0	0		10-Mar-14			0%
ARDD0194	Viaduct E7 & E8 - Submission of Pilecap Precast Shells DDA - DP15.08	Arup	0	0	0		23-Jan-14			0%
ARDD0195	Viaduct E7 & E8 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.08	Arup	0	0	0		06-Mar-14			0%
ARDD0195	Viaduct E7 & E8 - IC/SO Approval (Early) of Sub & Superstructure DDA DP15.09	Arup	55	0	55	11-Mar-14	26-May-14			0%
ARDD0195	Viaduct E7 & E8 - IC/SO Approval (Late) of Sub & Superstructure DDA - DP15.09	Arup	75	0	75	11-Mar-14	23-Jun-14			0%
ARDD0195	Viaduct E7 & E8 - IC/SO Approval of Pilecap Precast Shells DDA - DP15.08	Arup	75	0	75	24-Jan-14	08-May-14			0%
Information to Contractor										
ARDD0200	Viaduct E7 & E8 - Final Pile Reinforcement and Socket H Pile Details	Arup	0	0	0		21-Jan-14			0%
ARDD0203	Viaduct E7 & E8 - Typical Pilecap Reinforcement - Stainless Steel Rebar	Arup	0	0	0		21-Jan-14			0%
ARDD0204	Viaduct E7 & E8 - Typical Pilecap Reinforcement - Regular Rebar	Arup	0	0	0		21-Jan-14			0%
ARDD0205	Viaduct E7 & E8 - Final Pilecap Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0207	Viaduct E7 & E8 - Final Pier Shapes and Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0208	Viaduct E7 & E8 - Typical Segment Shapes for Moulds	Arup	0	0	0		21-Jan-14			0%
ARDD0209	Viaduct E7 & E8 - Typical Segment Reinforcement	Arup	0	0	0		21-Jan-14			0%
ARDD0210	Viaduct E7 & E8 - Final Segment Types and Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0212	Viaduct E7 & E8 - Final Anchorage and PT Requirements	Arup	0	0	0		10-Mar-14			0%



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23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 3 of 12 Pages)

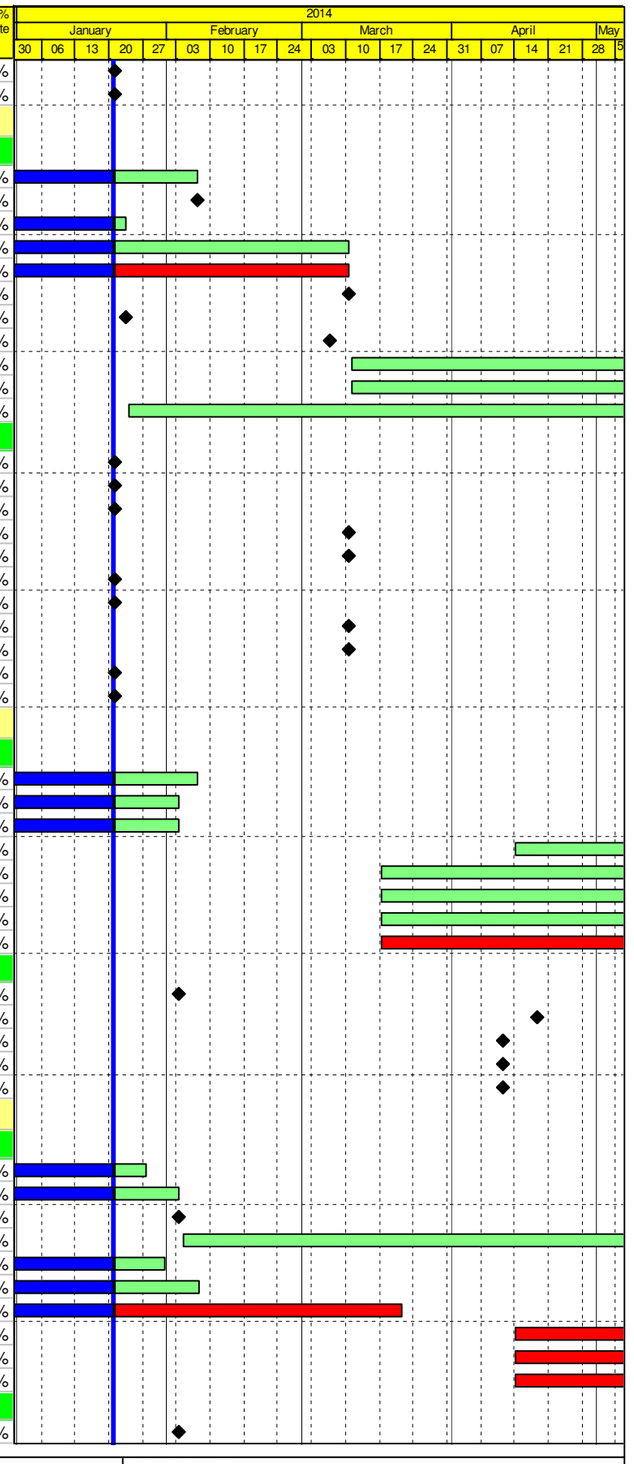
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
ARDD0214	Viaduct E7 & E8 - Final Bearing Schedule	Arup	0	0	0		21-Jan-14			0%
ARDD0216	Viaduct E7 & E8 - Final Movement Joint (MJ) Schedule	Arup	0	0	0		21-Jan-14			0%
Viaduct E2										
Viaduct Design										
ARDD0231	Viaduct E2 - IC/SO Approval of Sub & Superstructure AIP - DP15.00	Arup	68	80	14	01-Oct-13 A	07-Feb-14	01-Oct-13		80%
ARDD0236	Viaduct E2 - Earliest IC Certificate for Foundation DDA - DP15.04	Arup	0	0	0		07-Feb-14			0%
ARDD0237	Viaduct E2 - Preparation of Pilecap Precast Shells DDA - DP15.05	Arup	40	56	3	04-Nov-13 A	23-Jan-14	04-Nov-13		92.5%
ARDD0238	Viaduct E2 - Preparation of Substructure DDA - DP15.06	Arup	60	56	35	04-Nov-13 A	10-Mar-14	04-Nov-13		41.67%
ARDD0239	Viaduct E2 - Preparation of Superstructure DDA - DP15.06	Arup	90	56	35	04-Nov-13 A	10-Mar-14	04-Nov-13		61.11%
ARDD0240	Viaduct E2 - Submission of Sub & Superstructure DDA - DP15.06	Arup	0	0	0		10-Mar-14			0%
ARDD0240	Viaduct E2 - Submission of Pilecap Precast Shell DDA - DP15.05	Arup	0	0	0		23-Jan-14			0%
ARDD0241	Viaduct E2 - Earliest IC certificate for Pilecap Precast Shells DDA - DP15.05	Arup	0	0	0		06-Mar-14			0%
ARDD0241	Viaduct E2 - IC/SO Approval (Early) of Sub & Superstructure DDA - DP15.06	Arup	55	0	55	11-Mar-14	26-May-14			0%
ARDD0241	Viaduct E2 - IC/SO Approval (Late) of Sub & Superstructure DDA - DP15.06	Arup	75	0	75	11-Mar-14	23-Jun-14			0%
ARDD0241	Viaduct E2 - IC/SO Approval Pilecap Precast Shells DDA - DP15.05	Arup	75	0	75	24-Jan-14	08-May-14			0%
Information to Contractor										
ARDD0246	Viaduct E2 - Final Pile Reinforcement and Socket H Pile Details	Arup	0	0	0		21-Jan-14			0%
ARDD0249	Viaduct E2 - Typical Pilecap Reinforcement - Stainless Steel Rebar	Arup	0	0	0		21-Jan-14			0%
ARDD0250	Viaduct E2 - Typical Pilecap Reinforcement - Regular Rebar	Arup	0	0	0		21-Jan-14			0%
ARDD0251	Viaduct E2 - Final Pilecap Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0253	Viaduct E2 - Final Pier Shapes and Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0254	Viaduct E2 - Typical Segment Shapes for Moulds	Arup	0	0	0		21-Jan-14			0%
ARDD0255	Viaduct E2 - Typical Segment Reinforcement	Arup	0	0	0		21-Jan-14			0%
ARDD0256	Viaduct E2 - Final Segment Types and Reinforcement	Arup	0	0	0		10-Mar-14			0%
ARDD0258	Viaduct E2 - Final Anchorage and PT Requirements	Arup	0	0	0		10-Mar-14			0%
ARDD0260	Viaduct E2 - Final Bearing Schedule	Arup	0	0	0		21-Jan-14			0%
ARDD0262	Viaduct E2 - Final Movement Joint (MJ) Schedule	Arup	0	0	0		21-Jan-14			0%
Viaduct E1										
Viaduct Design										
ARDD0277	Viaduct E1 - IC/SO Approval of Viaduct Sub & Superstructure AIP -DP15.00	Arup	68	80	14	01-Oct-13 A	07-Feb-14	01-Oct-13		80%
ARDD0280	Viaduct E1 - Final Pile Loads and Global Analysis	Arup	15	26	10	16-Dec-13 A	03-Feb-14	16-Dec-13		33.33%
ARDD0281	Viaduct E1 - Foundation DDA - DP15.01	Arup	45	36	10	02-Dec-13 A	03-Feb-14	02-Dec-13		77.78%
ARDD0282	Viaduct E1 - IC/SO Approval of Foundation (Early) DDA - DP15.01	Arup	55	0	55	14-Apr-14	27-Jun-14			0%
ARDD0282	Viaduct E1 - IC/SO Approval of Foundation (Late) DDA - DP15.01	Arup	75	0	75	17-Mar-14	27-Jun-14			0%
ARDD0283	Viaduct E1 - Preparation of Pilecap Precast Shells DDA - DP15.02	Arup	40	0	40	17-Mar-14	09-May-14			0%
ARDD0284	Viaduct E1 - Preparation of Substructure DDA -DP15.03	Arup	50	0	50	17-Mar-14	23-May-14			0%
ARDD0285	Viaduct E1 - Preparation of Superstructure DDA -DP15.03	Arup	70	0	70	17-Mar-14	20-Jun-14			0%
Information to Contractor										
ARDD0292	Viaduct E1 - Final Pile Reinforcement and Socket H Pile Details	Arup	0	0	0		03-Feb-14			0%
ARDD0295	Viaduct E1 - Typical Pilecap Reinforcement - Stainless Steel Rebar	Arup	0	0	0		18-Apr-14			0%
ARDD0296	Viaduct E1 - Typical Pilecap Reinforcement - Regular Rebar	Arup	0	0	0		11-Apr-14			0%
ARDD0300	Viaduct E1 - Typical Segment Shapes for Moulds	Arup	0	0	0		11-Apr-14			0%
ARDD0306	Viaduct E1 - Final Bearing Schedule	Arup	0	0	0		11-Apr-14			0%
Viaduct D										
Viaduct Design										
ARDD0320	Viaduct D - Preparation of Foundation Scheme	Arup	10	37	5	29-Nov-13 A	27-Jan-14	29-Nov-13		50%
ARDD0321	Viaduct D - Preparation of Sub & Superstructure Scheme	Arup	20	42	10	22-Nov-13 A	03-Feb-14	22-Nov-13		50%
ARDD0322	Viaduct D - Submission of Sub & Superstructure AIP - DP14.00	Arup	0	0	0		03-Feb-14			0%
ARDD0323	Viaduct D - IC/SO Approval of AIP - DP14.00	Arup	68	0	68	04-Feb-14	08-May-14			0%
ARDD0325	Viaduct D - Update Midas Model	Arup	10	22	9	20-Dec-13 A	31-Jan-14	20-Dec-13		10%
ARDD0326	Viaduct D - Final Pile Loads and Global Analysis	Arup	15	22	14	20-Dec-13 A	07-Feb-14	20-Dec-13		6.67%
ARDD0327	Viaduct D - Foundation DDA - DP14.01	Arup	45	22	44	20-Dec-13 A	21-Mar-14	20-Dec-13		2.22%
ARDD0329	Viaduct D - Preparation of Pilecap Precast Shells DDA DP14.02	Arup	40	0	40	14-Apr-14	06-Jun-14			0%
ARDD0330	Viaduct D - Preparation of Substructure DDA - DP14.03	Arup	50	0	50	14-Apr-14	20-Jun-14			0%
ARDD0331	Viaduct D - Preparation of Superstructure DDA - DP14.03	Arup	70	0	70	14-Apr-14	18-Jul-14			0%
Information to Contractor										
ARDD0335	Viaduct D - Provisional Segment Types and Weights	Arup	0	0	0		03-Feb-14			0%



Actual Work
Planned Bar
Critical Bar
Milestone

Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 4 of 12 Pages)

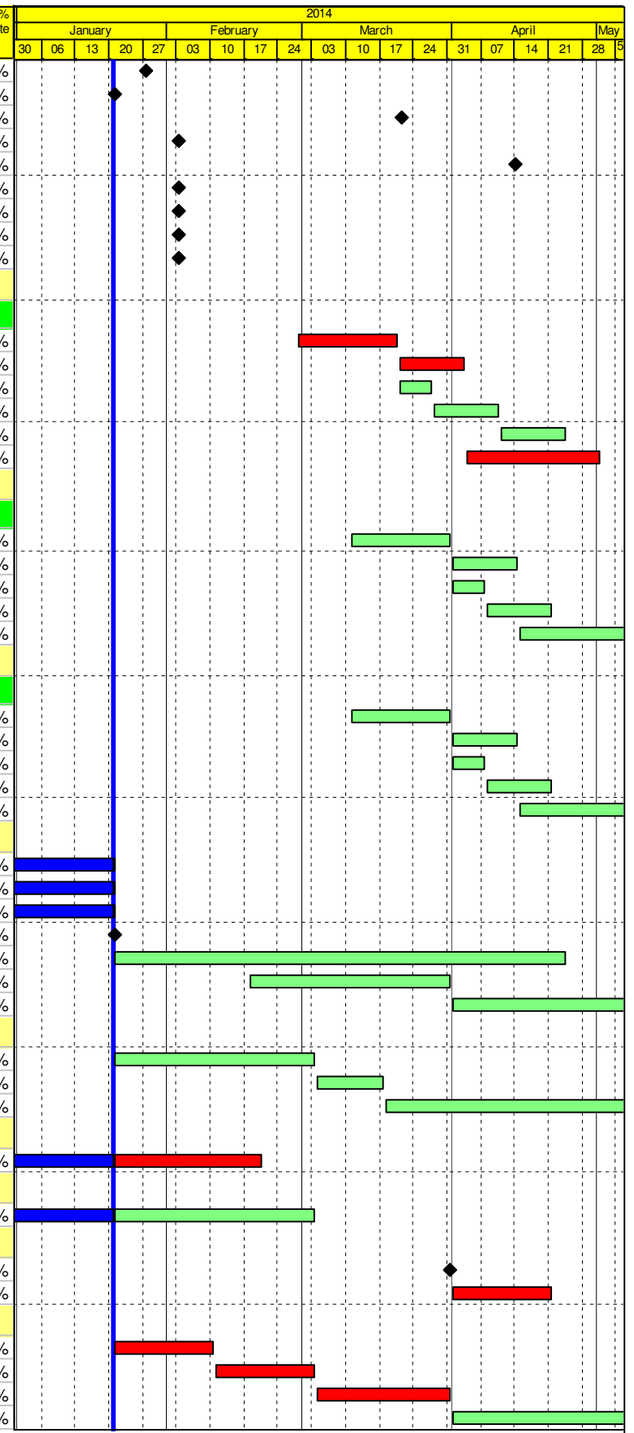
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
ARDD0336	Viaduct D - Pile Spacing and Diameter for Temp Platform Design	Arup	0	0	0		27-Jan-14			0%
ARDD0337	Viaduct D - Typical Pile Reinforcement - Stainless Rebar	Arup	0	0	0		21-Jan-14			0%
ARDD0338	Viaduct D - Final Pile Reinforcement and Socket H Pile Details	Arup	0	0	0		21-Mar-14			0%
ARDD0340	Viaduct D - Typical Pilecap Shapes for Formwork	Arup	0	0	0		03-Feb-14			0%
ARDD0343	Viaduct D - Final Pilecap Reinforcement	Arup	0	0	0		14-Apr-14			0%
ARDD0344	Viaduct D - Typical Pier Shapes for Formwork Planning	Arup	0	0	0		03-Feb-14			0%
ARDD0349	Viaduct D - Typical Anchorage and Tendon Types	Arup	0	0	0		03-Feb-14			0%
ARDD0351	Viaduct D - Provisional Bearing Schedule	Arup	0	0	0		03-Feb-14			0%
ARDD0353	Viaduct D - Provisional Movement Joint (MJ) Schedule	Arup	0	0	0		03-Feb-14			0%
Viaduct C										
Viaduct Design										
ARDD0367	Viaduct C - Setup Midas Model	Arup	15	0	15	28-Feb-14	20-Mar-14			0%
ARDD0368	Viaduct C - Sectional and Segment Dimensional Analysis	Arup	10	0	10	21-Mar-14	03-Apr-14			0%
ARDD0369	Viaduct C - Provisonal Load Rundown and Global Analysis	Arup	5	0	5	21-Mar-14	27-Mar-14			0%
ARDD0370	Viaduct C - Provisional Pile Loads	Arup	10	0	10	28-Mar-14	10-Apr-14			0%
ARDD0371	Viaduct C - Preparation of Foundation Scheme	Arup	10	0	10	11-Apr-14	24-Apr-14			0%
ARDD0372	Viaduct C - Preparation of Sub & Superstructure Scheme	Arup	20	0	20	04-Apr-14	01-May-14			0%
Viaduct F1 & F3										
Viaduct Design										
ARDD0469	Viaduct F1 & F3 - Setup Midas Model	Arup	15	0	15	11-Mar-14	31-Mar-14			0%
ARDD0470	Viaduct F1 & F3 - Sectional and Segment Dimensional Analysis	Arup	10	0	10	01-Apr-14	14-Apr-14			0%
ARDD0471	Viaduct F1 & F3 - Provisonal Load Rundown and Global Analysis	Arup	5	0	5	01-Apr-14	07-Apr-14			0%
ARDD0472	Viaduct F1 & F3 - Provisional Pile Loads	Arup	10	0	10	08-Apr-14	21-Apr-14			0%
ARDD0474	Viaduct F1 & F3 - Preparation of Sub & Superstructure Scheme	Arup	20	0	20	15-Apr-14	12-May-14			0%
Viaduct F2, F4 and F5										
Viaduct Design										
ARDD0513	Viaduct F2, F4 & F5 - Setup Midas Model	Arup	15	0	15	11-Mar-14	31-Mar-14			0%
ARDD0514	Viaduct F2, F4 & F5 - Sectional and Segment Dimensional Analysis	Arup	10	0	10	01-Apr-14	14-Apr-14			0%
ARDD0515	Viaduct F2, F4 & F5 - Provisonal Load Rundown and Global Analysis	Arup	5	0	5	01-Apr-14	07-Apr-14			0%
ARDD0516	Viaduct F2, F4 & F5 - Provisional Pile Loads	Arup	10	0	10	08-Apr-14	21-Apr-14			0%
ARDD0518	Viaduct F2, F4 & F5 - Preparation of Sustructure and Superstructure Scheme	Arup	20	0	20	15-Apr-14	12-May-14			0%
Parapet and Utility Trough										
ARDD0556	Preparation of Parapet Schemes	Arup	60	81	0	30-Sep-13 A	21-Jan-14	30-Sep-13		100%
ARDD0557	Preparation of Utility Trough Scheme	Arup	60	81	0	30-Sep-13 A	21-Jan-14	30-Sep-13		100%
ARDD0558	Preparation of Utility Truss Scheme	Arup	60	61	0	28-Oct-13 A	21-Jan-14	28-Oct-13		100%
ARDD0559	Submission of Parapet and Utility Trough AIP - DP30.00	Arup	0	0	0		21-Jan-14			0%
ARDD0560	IC/SO Approval of AIP - DP30.00	Arup	68	0	68	21-Jan-14	24-Apr-14			0%
ARDD0562	Preparation of Utility Trough DDA	Arup	30	0	30	18-Feb-14	31-Mar-14			0%
ARDD0563	Preparation of Utility Truss DDA	Arup	60	0	60	01-Apr-14	23-Jun-14			0%
TCSS Provisions										
ARDD0568	Identification of TCSS Civil Provisions	Arup	30	0	30	21-Jan-14	03-Mar-14			0%
ARDD0569	Preparation of AIP for TCSS civil provisions - BP10.00	Arup	10	0	10	04-Mar-14	17-Mar-14			0%
ARDD0570	IC/SO Approval of AIP for TCSS civil provisions - BP10.00	Arup	68	0	68	18-Mar-14	19-Jun-14			0%
Slopeworks for Viaduct B: 9SE- B/C8, B/C9, B/F9, B/F85+ 10SW-A/F52, A/F53										
ARDD0579	IC/SO Approval of Slope Combined AIP/DDA-CP12.01	Arup	75	76	23	05-Oct-13 A	20-Feb-14	05-Oct-13		70%
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	Arup	75	44	30	20-Nov-13 A	03-Mar-14	20-Nov-13		60%
Slopeworks for Viaduct A: 9SE-B/FR8, B/R1, B/R2										
ARDD0592	Receipt of Topo & Ground Investigation	Arup	0	0	0		31-Mar-14			0%
ARDD0593	Slope Analysis	Arup	15	0	15	01-Apr-14	21-Apr-14			0%
Slopeworks for Viaduct D: 10NW -C/R4, C/F9, C/F10, C/F11, C/F17, C/F50										
ARDD0600	Receipt of Topo & Ground Investigation	Arup	15	0	15	21-Jan-14	10-Feb-14			0%
ARDD0601	Slope Analysis	Arup	15	0	15	11-Feb-14	03-Mar-14			0%
ARDD0602	Preparation of Slope Combined AIP/DDA - CP14.01	Arup	20	0	20	04-Mar-14	31-Mar-14			0%
ARDD0603	IC/SO Approval of Slope Combined AIP/DDA -CP14.01	Arup	75	0	75	01-Apr-14	14-Jul-14			0%



Actual Work
Planned Bar
Critical Bar
Milestone

Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 5 of 12 Pages)

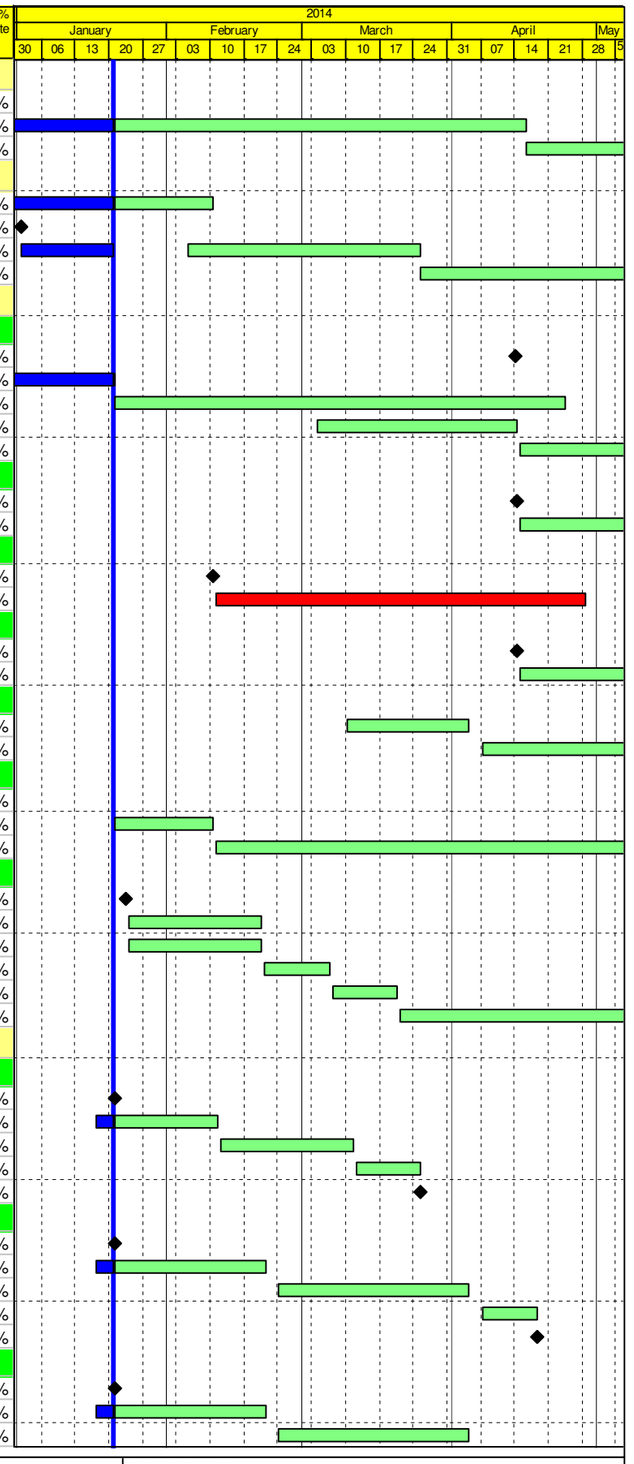
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
Natural Terrian Hazard Assessment										
ARDD0611	Preparation of Combined NTHA General Submission - CP20.01, CP21.01	Arup	20	45	0	28-Oct-13 A	30-Dec-13 A	28-Oct-13	30-Dec-13	100%
ARDD0612	IC/SO Approval of Combined NTHA General Submission - CP20.01, CP21.01	Arup	68	16	61	30-Dec-13 A	16-Apr-14	30-Dec-13		10%
ARDD0612-2	Natural Terrain Hazard Mitigation	Arup	20	0	20	16-Apr-14	14-May-14			0%
Waterworks, Drainage & Utilities										
ARDD0619	Preparation of Waterworks, Drainage & Utilities AIP - BP20.00	Arup	30	66	15	21-Oct-13 A	10-Feb-14	21-Oct-13		50%
ARDD0621	Submission of AIP for Waterworks, Drainage & Utility Diversions	Arup	0	0	0		02-Jan-14 A		02-Jan-14	100%
ARDD0622	IC/SO Approval of AIP for Waterworks, Drainage & Utility Diversions	Arup	68	13	34	02-Jan-14 A	25-Mar-14	02-Jan-14		50%
ARDD0624	Preparation of Waterworks, Drainage & Utility DDA - BP20.01	Arup	40	0	40	25-Mar-14	20-May-14			0%
Viaduct Approach Ramp Retaining Walls										
Approach Ramp D										
ARDD0648	Approach D - Receipt of Topographic and Utility Survey	Arup	0	0	0		14-Apr-14			0%
ARDD0649	Approach D - Preparation of Approach Ramp D AIP Submission - DP20.00	Arup	55	56	0	04-Nov-13 A	21-Jan-14	04-Nov-13		100%
ARDD0650	Approach D - IC/SO Approval of Approach Ramp D AIP - DP20.00	Arup	68	0	68	21-Jan-14	24-Apr-14			0%
ARDD0651	Approach D - Preparation of Approach Ramp D DDA Submission - DP20.04	Arup	30	0	30	04-Mar-14	14-Apr-14			0%
ARDD0652	Approach D - IC/SO Approval of Approach Ramp D DDA - DP20.04	Arup	75	0	75	15-Apr-14	28-Jul-14			0%
Approach Ramp C										
ARDD0654	Approach C - Receipt of Topographic and Utility Survey	Arup	0	0	0		14-Apr-14			0%
ARDD0655	Approach C - Preparation of Approach Ramp C AIP Submission -DP20.00 Update	Arup	30	0	30	15-Apr-14	26-May-14			0%
Approach Ramp B										
ARDD0660	Approach B - Receipt of Topographic and Utility Survey	Arup	0	0	0		10-Feb-14			0%
ARDD0661	Approach B - Preparation of Approach Ramp B AIP Submission - DP20.00 Update	Arup	55	0	55	11-Feb-14	28-Apr-14			0%
Approach F										
ARDD0672	Approach F - Receipt of Topographic and Utility Survey	Arup	0	0	0		14-Apr-14			0%
ARDD0673	Approach F - Preparation of Approach Ramp F AIP Submission -DP21.00 Update	Arup	40	0	40	15-Apr-14	09-Jun-14			0%
Viaduct Pavement										
ARDD865	Viaduct Pavement - Preparation of AIP Submission - BP02.00	Arup	20	0	20	10-Mar-14*	04-Apr-14			0%
ARDD867	Viaduct Pavement - IC/SO Approval of AIP - BP02.00	Arup	68	0	68	07-Apr-14	09-Jul-14			0%
Signs, Markings and Street Furniture										
ARDD0681	Preparation of Typical Gantry Structure Design	Arup	60	3	0	23-Dec-13 A	26-Dec-13 A	23-Dec-13	26-Dec-13	100%
ARDD0682	Preparation of AIP Submission - BP03.00	Arup	15	0	15	21-Jan-14	10-Feb-14			0%
ARDD0683	IC/SO Approval of Signs, Markings & Street Furniture AIP - BP03.00	Arup	68	0	68	11-Feb-14	15-May-14			0%
Landscape										
ARDD0691	Confirm Acceptance of Reference Design LVIA	Arup	0	0	0		23-Jan-14			0%
ARDD0692	Prepare Outline Planting Plans	Arup	20	0	20	24-Jan-14	20-Feb-14			0%
ARDD0693	Prepare Outline Irrigtaion Plans	Arup	20	0	20	24-Jan-14	20-Feb-14			0%
ARDD0694	Preparation of AIP Submission for landscape works	Arup	10	0	10	21-Feb-14	06-Mar-14			0%
ARDD0695	Updated LVIA Submission to Gov't Depts	Arup	10	0	10	07-Mar-14	20-Mar-14			0%
ARDD0696	IC/SO Approval of AIP for landscape works - BP22.00	Arup	68	0	68	21-Mar-14	24-Jun-14			0%
Segment Target Geometry And Erection Engineering										
Viaduct B										
ARDD0711	Viaduct B - Confirmation of Erection Sequence from Freyssinet	Arup	0	0	0		21-Jan-14			0%
ARDD0712	Viaduct B - Erection Sequence Analysis	Arup	20	2	16	17-Jan-14 A	11-Feb-14	17-Jan-14		20%
ARDD0713	Viaduct B - Target Geomtery Analysis	Arup	20	0	20	12-Feb-14	11-Mar-14			0%
ARDD0714	Viaduct B - Segment Geometry Schedules	Arup	10	0	10	12-Mar-14	25-Mar-14			0%
ARDD0714·	Viaduct B - Final Erection Geometry	Arup	0	0	0		25-Mar-14			0%
Viaduct E5 and E6										
ARDD0731	Viaduct E5 & E6 - Confirmation of Erection Sequence from Freyssinet	Arup	0	0	0		21-Jan-14			0%
ARDD0732	Viaduct E5 & E6 - Erection Sequence Analysis	Arup	30	2	24	17-Jan-14 A	21-Feb-14	17-Jan-14		20%
ARDD0733	Viaduct E5 & E6 - Target Geometry Analysis	Arup	30	0	30	24-Feb-14	04-Apr-14			0%
ARDD0734	Viaduct E5 & E6 - Segment Geometry Schedules	Arup	10	0	10	07-Apr-14	18-Apr-14			0%
ARDD0734·	Viaduct E5 & E6 - Final Erection Geometry	Arup	0	0	0		18-Apr-14			0%
Viaduct E7 & E8										
ARDD0736	Viaduct E7 & E8 - Confirmation of Erection Sequence from Freyssinet	Arup	0	0	0		21-Jan-14			0%
ARDD0737	Viaduct E7 & E8 - Erection Sequence Analysis	Arup	30	2	24	17-Jan-14 A	21-Feb-14	17-Jan-14		20%
ARDD0738	Viaduct E7 & E8 - Target Geometry Analysis	Arup	30	0	30	24-Feb-14	04-Apr-14			0%



Actual Work
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Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 6 of 12 Pages)

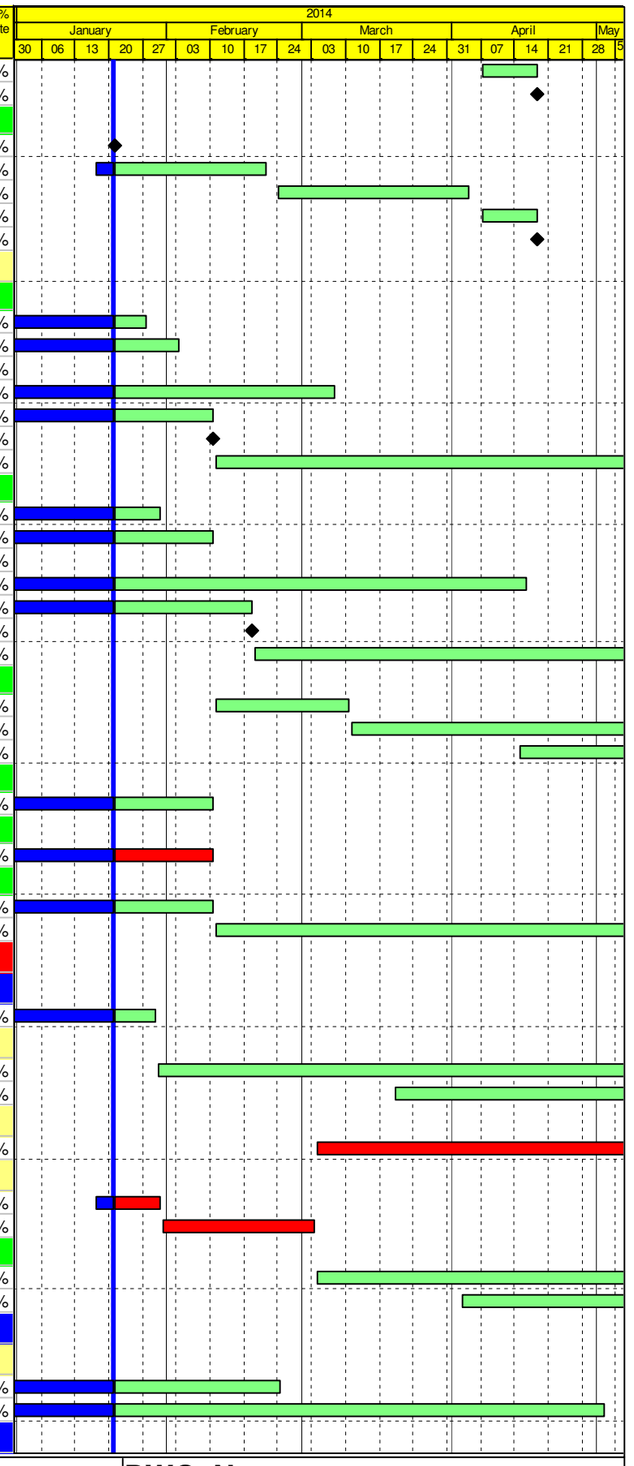
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
ARDD0739	Viaduct E7 & E8 - Segment Geometry Schedules	Arup	10	0	10	07-Apr-14	18-Apr-14			0%
ARDD0739	Viaduct E7 & E8 - Final Erection Geometry	Arup	0	0	0		18-Apr-14			0%
Viaduct E2										
ARDD0746	Viaduct E2 - Confirmation of Erection Sequence from Freyssinet	Arup	0	0	0		21-Jan-14			0%
ARDD0747	Viaduct E2 - Erection Sequence Analysis	Arup	30	2	24	17-Jan-14 A	21-Feb-14	17-Jan-14		20%
ARDD0748	Viaduct E2 - Target Geometry Analysis	Arup	30	0	30	24-Feb-14	04-Apr-14			0%
ARDD0749	Viaduct E2 - Segment Geometry Schedules	Arup	10	0	10	07-Apr-14	18-Apr-14			0%
ARDD0749	Viaduct E2 - Final Erection Geometry	Arup	0	0	0		18-Apr-14			0%
Reprovisioning Works										
Chung Tung Road Realignment Viaduct B										
ARDD0801	Viaduct B - Preparation of Roadworks for Realignment of CTR	Arup	10	96	5	09-Sep-13 A	27-Jan-14	09-Sep-13		50%
ARDD0802	Viaduct B - Preparation of Associated Civil Reprovisioning	Arup	20	86	10	23-Sep-13 A	03-Feb-14	23-Sep-13		50%
ARDD0803	Viaduct B - Submission of CTR Reprovisioning Works AIP - BP33.00	Arup	0	0	0		30-Dec-13 A		30-Dec-13	100%
ARDD0804	Viaduct B - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP33.00	Arup	68	16	34	30-Dec-13 A	07-Mar-14	30-Dec-13		50%
ARDD0805	Viaduct B - Preparation of CTR Reprovisioning Works DDA - BP33.01	Arup	30	18	15	26-Dec-13 A	10-Feb-14	26-Dec-13		50%
ARDD0806	Viaduct B - Submission of CTR Reprovisioning Works DDA - BP33.01	Arup	0	0	0		10-Feb-14			0%
ARDD0807	Viaduct B - IC/SO Approval of CTR Reprovisioning Works DDA - BP33.01	Arup	75	0	75	11-Feb-14	26-May-14			0%
Chung Tung Road Realignment Viaduct C										
ARDD0875	Viaduct C - Preparation of Roadworks for Realignment of CTR	Arup	10	66	8	21-Oct-13 A	30-Jan-14	21-Oct-13		25%
ARDD0877	Viaduct C - Preparation of Associated Civil Reprovisioning	Arup	20	56	15	04-Nov-13 A	10-Feb-14	04-Nov-13		25%
ARDD0879	Viaduct C - Submission of CTR Reprovisioning Works AIP - BP34.00	Arup	0	0	0		26-Dec-13 A		26-Dec-13	100%
ARDD0881	Viaduct C - IC/SO Approval of AIP of CTR Reprovisioning Works AIP - BP34.00	Arup	68	18	61	26-Dec-13 A	16-Apr-14	26-Dec-13		10%
ARDD0883	Viaduct C - Preparation of CTR Reprovisioning Works DDA - BP34.01	Arup	30	18	21	26-Dec-13 A	18-Feb-14	26-Dec-13		30%
ARDD0885	Viaduct C - Submission of CTR Reprovisioning Works DDA - BP34.01	Arup	0	0	0		18-Feb-14			0%
ARDD0887	Viaduct C - IC/SO Approval of CTR Reprovisioning Works DDA - BP34.01	Arup	75	0	75	19-Feb-14	03-Jun-14			0%
Remaining Reprovisioning Works (Viaduct A&D)										
ARDD0812	Viaduct A&D - Preparation of AIP Remaining Reprovisioning Works V-A&D BP35.00	Arup	20	0	20	11-Feb-14	10-Mar-14			0%
ARDD0813	Viaduct A&D - IC/SO Approval of AIP for Remaining Reprovisioning Works V-A&D BP35.0	Arup	68	0	68	11-Mar-14	12-Jun-14			0%
ARDD0814	Viaduct A&D - Preparation of DDA of Remaining Reprovisioning Works V-A&D BP35.01	Arup	20	0	20	15-Apr-14	12-May-14			0%
Emergency Gates										
ARDD0854	IC/SO Approval of Combined AIP/DDA for Emergency Gates - BP30.01	Arup	75	40	15	26-Nov-13 A	10-Feb-14	26-Nov-13		80%
ESS Substation										
ARDD855	IC/SO Approval of Combined AIP/DDA for ESS Substation - BP31.01	Arup	75	50	15	12-Nov-13 A	10-Feb-14	12-Nov-13		80%
CEDD Access Track										
ARDD0808	Preparation of Combined AIP/DDA for CEDD Access Track - BP32.01	Arup	30	96	15	09-Sep-13 A	10-Feb-14	09-Sep-13		50%
ARDD0809	IC/SO Approval of Combined AIP/DDA for CEDD Access Track - BP32.01	Arup	75	0	75	11-Feb-14	26-May-14			0%
Major Procurement										
Deck Segment Installation Equipment										
PR60076	Gantry procurement		100	122	9	21-Sep-13 A	29-Jan-14	21-Sep-13		91%
Launching Gantry 1										
PR60078-2	Launching Gantry 1 Design		122	0	122	30-Jan-14	31-May-14			0%
PR60078-4	Launching Gantry 1 Fabrication		151	0	151	20-Mar-14	17-Aug-14			0%
Lifting Frames										
PR60098	Lifting Frame Technical Specs & Order		76	0	76	04-Mar-14	18-May-14			0%
Unloading Gantries										
PR60102	Unloading Gantries Technical Specs / Discussion		14	4	10	17-Jan-14 A	30-Jan-14	17-Jan-14		28.57%
PR60103	Unloading Gantries Procurement Review & Order		32	0	32	31-Jan-14	03-Mar-14			0%
Type 1										
PR60104	Unloading Gantry Type 1 Design		122	0	122	04-Mar-14	03-Jul-14			0%
PR60106	Unloading Gantry Type 1 Fabrication		185	0	185	03-Apr-14	04-Oct-14			0%
Deck Segments & Precast Pile Cap Shells										
Preliminaries										
MBBC0010	Set Up Pile Cap Casting Yard & Beds etc	Patrick Chan	93	40	28	02-Dec-13 A	24-Feb-14	02-Dec-13		70%
MBBE0010	Set Up Segment Casting Yard & Beds etc	Patrick Chan	165	81	81	15-Oct-13 A	02-May-14	15-Oct-13		50.91%
General										



Actual Work
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Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 7 of 12 Pages)

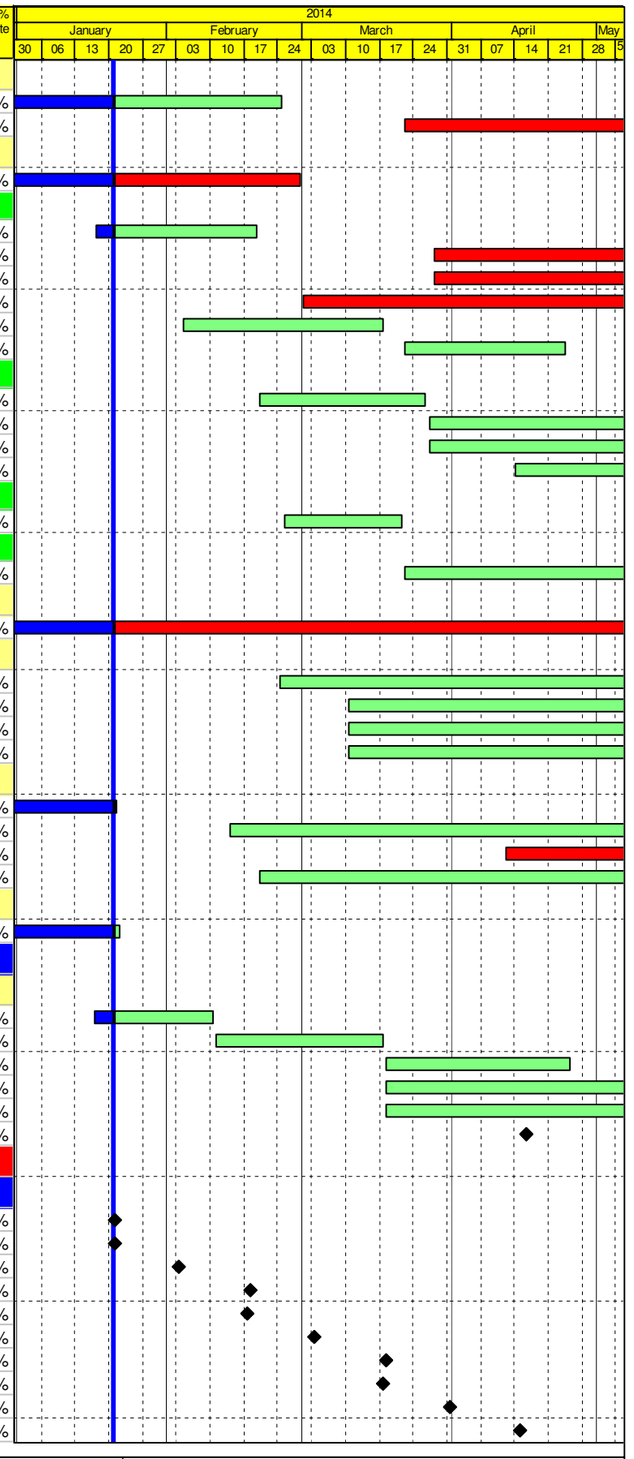
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
H-Piles										
PP7030	Procurement of Viaduct B Socketted H-Piles	Hans Sundstro	70	62	28	06-Nov-13 A	24-Feb-14	06-Nov-13		60%
PP7390	Procurement of Viaduct D Socketted H-Piles	Hans Sundstro	70	0	70	22-Mar-14	19-Jun-14			0%
Reinforcement										
PPRB02	Rebar Delivery	Hans Sundstro	48	36	32	06-Dec-13 A	28-Feb-14	06-Dec-13		33.33%
Bored Piles										
PP7020	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct B Piles	Hans Sundstro	24	3	24	17-Jan-14 A	19-Feb-14	17-Jan-14		0%
PP7100	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E5 & E6 Piles	Hans Sundstro	153	0	153	28-Mar-14	04-Oct-14			0%
PP7170	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E7 & E8 Piles	Hans Sundstro	70	0	70	28-Mar-14	25-Jun-14			0%
PP7240	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E2 Piles	Hans Sundstro	106	0	106	01-Mar-14	11-Jul-14			0%
PP7310	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct E1 Piles	Hans Sundstro	36	0	36	04-Feb-14	17-Mar-14			0%
PP7380	Rebar - Cut, Bend & Fabricate Pile Cage for Viaduct D Piles	Hans Sundstro	25	0	25	22-Mar-14	24-Apr-14			0%
Marine Pile Caps										
PP7040	Rebar - Cut, Bend & Fabricate for Viaduct B Marine Pile Caps	W T Ho	30	0	30	20-Feb-14	26-Mar-14			0%
PP7110	Rebar - Cut, Bend & Fabricate for Viaduct E5 & E6 Pile Caps	Richard Gibbs	204	0	204	27-Mar-14	02-Dec-14			0%
PP7250	Rebar - Cut, Bend & Fabricate for Viaduct E2 Pile Caps	Richard Gibbs	154	0	154	27-Mar-14	04-Oct-14			0%
PP7400	Rebar - Cut, Bend & Fabricate for Viaduct D Marine Pile Caps	W T Ho	35	0	35	14-Apr-14	29-May-14			0%
Land Pile Caps										
PP7752	Rebar - Cut, Bend & Fabricate for Viaduct B Land Pile Caps	K M Chiang	22	0	22	25-Feb-14	21-Mar-14			0%
Land / Marine Piers - Viaduct A, B, C, D & F										
PP7060	Bending of Rebar for Viaduct B Piers	K M Chiang	64	0	64	22-Mar-14	12-Jun-14			0%
In-Situ Formworks / Falseworks										
PPPF00	Procurement of Falsework / Formwork Supplier	Simon Parry	115	37	98	05-Dec-13 A	23-May-14	05-Dec-13		15%
Pre-cast Formworks										
PP7050	Production of Viaduct B Marine Precast Pile Cap Shells	W T Ho	100	0	100	24-Feb-14	28-Jun-14			0%
PP7120	Production of Viaduct E5 & E6 Marine Precast Pile Cap Shells	Richard Gibbs	140	0	140	10-Mar-14	29-Aug-14			0%
PP7190	Production of Viaduct E7 & E8 Marine Precast Pile Cap Shells	Richard Gibbs	140	0	140	10-Mar-14	29-Aug-14			0%
PP7260	Production of Viaduct E2 Marine Precast Pile Cap Shells	Richard Gibbs	100	0	100	10-Mar-14	14-Jul-14			0%
Bearings										
PPBR00	Procurement of Bearings Supplier	Ben Leung	46	72	0	10-Nov-13 A	21-Jan-14	10-Nov-13		99%
PPBRB1	Design & Approval of Bearings Viaduct B, E5 & E6, E7 & E8	Carol K	90	0	90	14-Feb-14	14-May-14			0%
PPBRE1-1	Design & Approval of Bearings Viaduct E1	Carol K	90	0	90	12-Apr-14	10-Jul-14			0%
PPBRE2-1	Design & Approval of Bearings Viaduct E2	Carol K	90	0	90	20-Feb-14	20-May-14			0%
Movement Joints										
PPMJ00	Procurement of MJ Supplier	Ben Leung	120	71	1	11-Nov-13 A	22-Jan-14	11-Nov-13		99%
Other Sub-Contract Procurement										
Structural Health Monitoring System (SHMS)										
PP7770	Procure SHMS Sub-Contractor	Ben Leung	32	3	16	17-Jan-14 A	10-Feb-14	17-Jan-14		50%
PP7772	SHMS - Prepare & Submit Preliminary System Proposal		30	0	30	11-Feb-14	17-Mar-14			0%
PP7774	SHMS - SO approval of Preliminary System Proposal		30	0	30	18-Mar-14	25-Apr-14			0%
PP7776	SHMS - Prepare & Submit Final System Proposal		48	0	48	18-Mar-14	19-May-14			0%
PP7780	SHMS - Prepare Civil Work Provision		90	0	90	18-Mar-14	09-Jul-14			0%
PP7782	SHMS - Submit Precast Pile Cap Shell SHMS details for E5-E6-E7-E8		0	0	0	16-Apr-14				0%
Site Preparation / Mobilisations										
Temp Traffic Mgt Submission & Approval										
TTM00220	Earliest TTM implementation after TMLG Meeting No. 4	K M Chiang	0	0	0	21-Jan-14				0%
TTM00230	Send TTMs to SO & Govt Depts for TMLG Meeting No. 5	K M Chiang	0	0	0		21-Jan-14			0%
TTM00240	TMLG Meeting No. 5	K M Chiang	0	0	0		03-Feb-14*			0%
TTM00250	Earliest Implementation of TTM after TMLG Meeting No. 5	K M Chiang	0	0	0	18-Feb-14				0%
TTM00260	Send TTMs to SO & Govt Depts for TMLG Meeting No. 6	K M Chiang	0	0	0		17-Feb-14			0%
TTM00270	TMLG Meeting No. 6	K M Chiang	0	0	0		03-Mar-14*			0%
TTM00280	Earliest Implementation of TTM after TMLG Meeting No. 6	K M Chiang	0	0	0	18-Mar-14				0%
TTM00290	Send TTMs to SO & Govt Depts for TMLG Meeting No. 7	K M Chiang	0	0	0		17-Mar-14			0%
TTM00300	TMLG Meeting No. 7	K M Chiang	0	0	0		31-Mar-14*			0%
TTM00310	Earliest Implementation of TTM after TMLG Meeting No. 7	K M Chiang	0	0	0	15-Apr-14				0%



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Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 8 of 12 Pages)

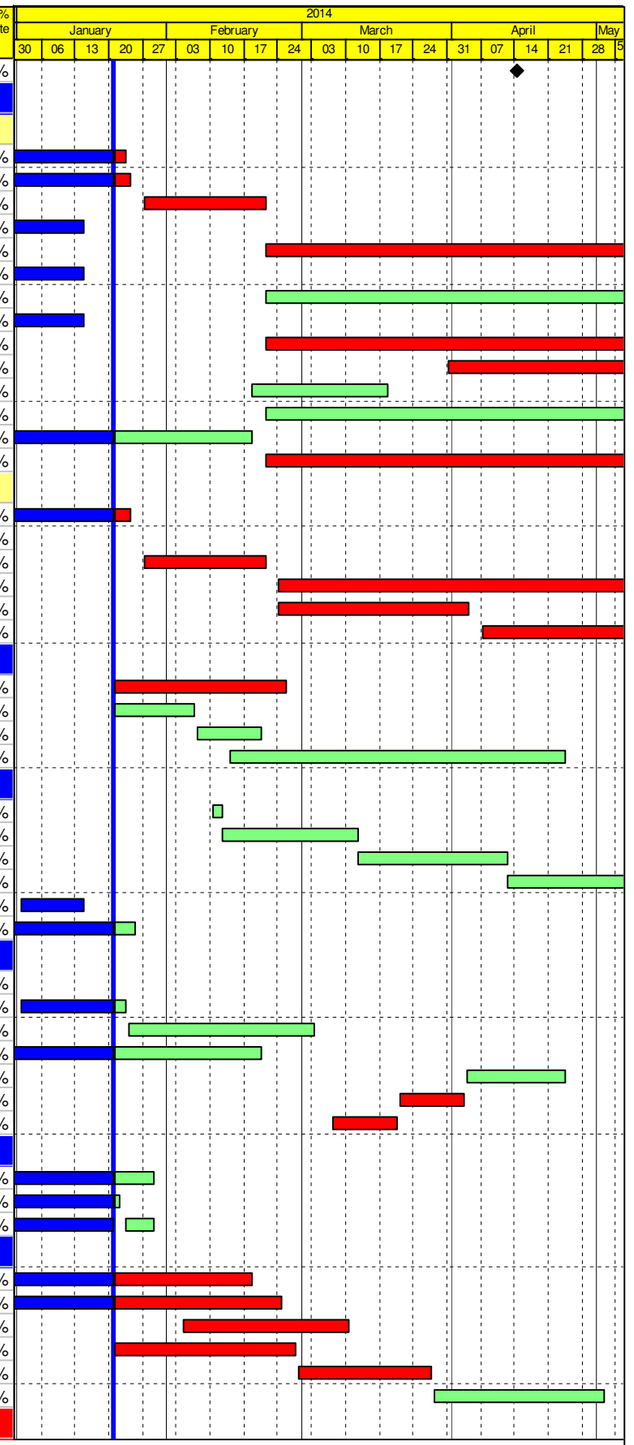
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
TTM00320	Send TTMs to SO & Govt Depts for TMLG Meeting No. 8	K M Chiang	0	0	0		14-Apr-14			0%
Tree Felling / Transplant										
Approved Trees in Contract										
TR00140	SO Approval of Base Tree Survey Report	K M Chiang	30	71	3	14-Oct-13 A	23-Jan-14	14-Oct-13		90%
TR00170	Prepare / submit tree transplant method statement	K M Chiang	20	74	4	09-Oct-13 A	24-Jan-14	09-Oct-13		80%
TR00180	SO Approval of tree transplant method statement	K M Chiang	20	0	20	27-Jan-14	21-Feb-14			0%
TR00190	Tree felling for Viaduct B - affecting Piers B11 to B17	K M Chiang	3	25	0	13-Dec-13 A	15-Jan-14 A	13-Dec-13	15-Jan-14	100%
TR00200	Tree transplant for Viaduct B - affecting Piers B11 to B17	K M Chiang	90	0	90	21-Feb-14	25-Jun-14			0%
TR00210	Tree felling for Viaduct B - affecting Pier B18 & Abutment B	K M Chiang	24	25	0	13-Dec-13 A	15-Jan-14 A	13-Dec-13	15-Jan-14	100%
TR00220	Tree transplant for Viaduct B - affecting Pier B18 & Abutment B	K M Chiang	90	0	90	21-Feb-14	25-Jun-14			0%
TR00230	Tree felling for Viaduct B - affecting realigned CTR	K M Chiang	24	25	0	13-Dec-13 A	15-Jan-14 A	13-Dec-13	15-Jan-14	100%
TR00240	Tree transplant for Viaduct B - affecting realigned CTR	K M Chiang	90	0	90	21-Feb-14	25-Jun-14			0%
TR00250	Tree felling for Viaduct B - affecting Slopes 9SE-B/F9, C8 & C9	K M Chiang	48	0	48	31-Mar-14	07-Jun-14			0%
TR00260	Tree felling for Viaduct C - affecting Piers C9 to Abutment C	K M Chiang	24	0	24	18-Feb-14	18-Mar-14			0%
TR00270	Tree transplant for Viaduct C - affecting Piers C9 to Abutment C	K M Chiang	90	0	90	21-Feb-14	25-Jun-14			0%
TR00280	Tree felling for Viaduct C - affecting realigned CTR	K M Chiang	30	30	22	13-Dec-13 A	18-Feb-14	13-Dec-13		27%
TR00290	Tree transplant for Viaduct C - affecting realigned CTR	K M Chiang	90	0	90	21-Feb-14	25-Jun-14			0%
Additional Trees										
TR00310	SO Approval of Additional Tree Survey Report Submission	K M Chiang	20	40	4	26-Nov-13 A	24-Jan-14	26-Nov-13		80%
TR00320	Prepare / submit Supplementary Tree Removal Application	K M Chiang	24	23	0	21-Nov-13 A	24-Dec-13 A	21-Nov-13	24-Dec-13	100%
TR00330	SO Approval of Supplementary Tree Removal Application	K M Chiang	20	0	20	27-Jan-14	21-Feb-14			0%
TR00340	Govt Approval of Supplementary Tree Removal Application	K M Chiang	120	0	120	24-Feb-14	08-Aug-14			0%
TR00350	Prepare / submit Supplementary Planting Proposal	K M Chiang	30	0	30	24-Feb-14	04-Apr-14			0%
TR00360	Govt Approval of Supplementary Planting Proposal	K M Chiang	90	0	90	07-Apr-14	08-Aug-14			0%
Site Set Up for Works Area 2										
PR20040	Pedestrian and bus stop diversion	K M Chiang	28	0	28	21-Jan-14	25-Feb-14			0%
PR20050	Works Area 2 - Construct access road to site compound off CTR	K M Chiang	12	0	12	21-Jan-14	06-Feb-14			0%
PR20060	Works Area 2 - Erect hoarding / fencing & install gates	K M Chiang	12	0	12	07-Feb-14	20-Feb-14			0%
PR20070	Works Area 2 - Site formation, paving and set up site offices / storage area	K M Chiang	54	0	54	14-Feb-14	24-Apr-14			0%
Site Set Up for Works Area along CTR for Viaduct B										
PR22040-1	Pier B10 (B2c) - Implement TTM for constructing new Emergency Access Gates G8 & G9	K M Chiang	2	0	2	10-Feb-14	12-Feb-14			0%
PR22040-2	Pier B10 (B2c) - Construct fencing / roadside beam barriers between new Gates G8 & G9	K M Chiang	24	0	24	12-Feb-14	12-Mar-14			0%
PR22040-3	Pier B10 (B2c) - Construct new Gate G9	K M Chiang	24	0	24	12-Mar-14	12-Apr-14			0%
PR22040-4	Pier B10 (B2c) - Construct new Gate G8	K M Chiang	24	0	24	12-Apr-14	17-May-14			0%
PR22040-7	Pier B10 (B2c) - Prepare TTM for constructing new Emergency Access Gates G8 & G9	K M Chiang	24	11	0	02-Jan-14 A	15-Jan-14 A	02-Jan-14	15-Jan-14	100%
ZB40260	Abutment B - Trial trench	K M Chiang	24	40	5	02-Dec-13 A	25-Jan-14	02-Dec-13		80%
Site Set Up for Works Area 3 and Site Offices along CEDD Access Road										
PR30010	Works Area 3-A1/A2/A3 - Approval from CEDD for land provision	Hans Sundstro	0	0	0		23-Dec-13 A		23-Dec-13	100%
PR30020	Works Area 3-A1/3-A2/A3 - Erect fencing / set up site security	Hans Sundstro	12	16	3	02-Jan-14 A	23-Jan-14	02-Jan-14		75%
PR30030	Works Area 3-A1/3-A2 - Construct 1.5m steel access bridge	Hans Sundstro	30	0	30	24-Jan-14	03-Mar-14			0%
PR30040	Set up container site offices at crest of CEDD Seawall	Hans Sundstro	60	79	24	16-Oct-13 A	20-Feb-14	16-Oct-13		60%
PR30050-2	Construct temp. road at CEDD track for piling at C7	Hans Sundstro	12	0	12	04-Apr-14	24-Apr-14			0%
PR30050-3	Construct temp. road at CEDD track for piling at D8	Hans Sundstro	12	0	12	21-Mar-14	03-Apr-14			0%
PR30050-4	Construct temp. road at CEDD track for piling at B8	Hans Sundstro	12	0	12	07-Mar-14	20-Mar-14			0%
Site Set Up for Works Area 5										
PR01520	Facilities for SO - procurement, including permanent and temporary offices	K M Chiang	142	165	7	22-Jun-13 A	29-Jan-14	22-Jun-13		95%
PR50020	Works Area 5 - Site formation, drainage, paving	K M Chiang	24	138	1	30-Jul-13 A	22-Jan-14	30-Jul-13		95%
PR50030	Works Area 5 - Erect site offices, workshop and storage area	K M Chiang	85	138	4	30-Jul-13 A	29-Jan-14	30-Jul-13		95%
Temporary Working Platform at North Lantau										
PR08030	Temp. Working Platform at N.Lantau - Modify top of existing seawall	Hans Sundstro	24	46	22	25-Nov-13 A	18-Feb-14	25-Nov-13		10%
PR08040	Temp. Working Platform at N.Lantau - Temp. seawall & cover slab for culvert outfall extn.	Hans Sundstro	30	46	27	25-Nov-13 A	24-Feb-14	25-Nov-13		10%
PR08050	Temp. Working Platform at N.Lantau - Temp. rockfill & paving between existing and temp.	Hans Sundstro	30	0	30	04-Feb-14	10-Mar-14			0%
PR08060	Temp. Working Platform at N.Lantau - Install pipe piles for steel platform	Hans Sundstro	30	0	30	21-Jan-14	27-Feb-14			0%
PR08070	Temp. Working Platform at N.Lantau - Construct steel deck / bollards / fenders	Hans Sundstro	24	0	24	28-Feb-14	27-Mar-14			0%
PR08080	Temp. Working Platform at N.Lantau - Install Lifting Gantry incl. testing/commissioning for s	Hans Sundstro	24	0	24	28-Mar-14	02-May-14			0%
Construction										



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Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 9 of 12 Pages)

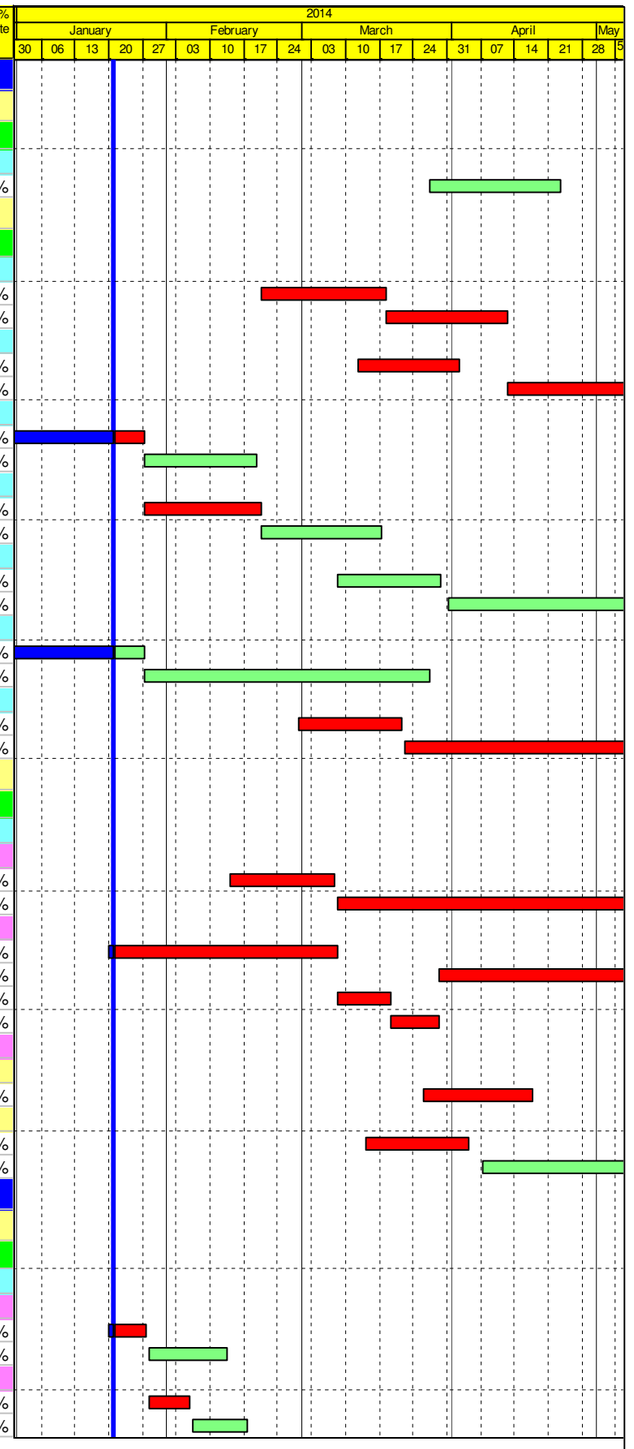
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
Main Marine Crossing										
Viaduct E1										
Viaduct E1 - Marine Foundation										
Pier E1 (E1a1-2-3-4)										
GFXX021	E01 (E1a) - Install Temp. Working Platform	Hans Sundstro	19	0	19	27-Mar-14	23-Apr-14			0%
Viaduct E2										
Viaduct E2 - Marine Foundation										
Pier E3 (E2a)										
GFXX035	E03 (E2a) - Install Temp. Working Platform	Hans Sundstro	22	0	22	20-Feb-14	18-Mar-14			0%
GFXX036	E03 (E2a) - Predrilling (6 nos)	Hans Sundstro	21	0	21	18-Mar-14	12-Apr-14			0%
Pier E4 (E2b)										
GFXX040	E04 (E2b) - Install Temp. Working Platform	Hans Sundstro	18	0	18	12-Mar-14	02-Apr-14			0%
GFXX041	E04 (E2b) - Predrilling (4 nos)	Hans Sundstro	24	0	24	12-Apr-14	16-May-14			0%
Pier E5 (E2c)										
GFXX045	E05 (E2c) - Install Temp. Working Platform	Hans Sundstro	19	18	6	30-Dec-13 A	27-Jan-14	30-Dec-13		70%
GFXX046	E05 (E2c) - Predrilling (4 nos)	Hans Sundstro	18	0	18	27-Jan-14	19-Feb-14			0%
Pier E6 (E2d)										
GFXX050	E06 (E2d) - Install Temp. Working Platform	Hans Sundstro	19	0	19	27-Jan-14	20-Feb-14			0%
GFXX051	E06 (E2d) - Predrilling (5 nos)	Hans Sundstro	21	0	21	20-Feb-14	17-Mar-14			0%
Pier E7 (E2e)										
GFXX055	E07 (E2e) - Install Temp. Working Platform	Hans Sundstro	19	0	19	08-Mar-14	29-Mar-14			0%
GFXX056	E07 (E2e) - Predrilling (5 nos)	Hans Sundstro	39	0	39	31-Mar-14	21-May-14			0%
Pier E9 (E2g)										
GFXX065	E09 (E2g) - Install Temp. Working Platform	Hans Sundstro	19	31	6	12-Dec-13 A	27-Jan-14	12-Dec-13		70%
GFXX066	E09 (E2g) - Predrilling (8 nos)	Hans Sundstro	49	0	49	27-Jan-14	27-Mar-14			0%
Pier E10 (E2h)										
GFXX070	E10 (E2h) - Install Temp. Working Platform	Hans Sundstro	19	0	19	28-Feb-14	21-Mar-14			0%
GFXX071	E10 (E2h) - Predrilling (8 nos)	Hans Sundstro	48	0	48	22-Mar-14	23-May-14			0%
Viaduct E5, E6, E7 & E8										
E5 to E8 Foundation Works										
Viaduct E5 to E8 - Marine Foundation										
Pier E11 (E5E6a/E7E8a)										
GFXX082	E11 (E5E6a/E7E8a) - Install Temp. Working Platform	Hans Sundstro	19	0	19	14-Feb-14	07-Mar-14			0%
GFXX083	E11 (E5E6a/E7E8a) - Predrilling (8 nos)	Hans Sundstro	70	0	70	08-Mar-14	05-Jun-14			0%
Pier E12 (E5b/E6b + E7b/E8b + Dolphin E5b/E8b)										
GFXX087	E12 (E5b/E6b, E7b/E8b, Dolphin E5b & E8b) - Install Temp. Working Platform	Hans Sundstro	43	1	39	20-Jan-14 A	08-Mar-14	20-Jan-14		10%
GFXX088	E12 (E5b/E6b/E7b/E8b) - Predrilling (14 nos)	Hans Sundstro	42	0	42	29-Mar-14	24-May-14			0%
GFXX088	E12 (E5b Dolphin) - Predrilling (3 nos)	Hans Sundstro	9	0	9	08-Mar-14	19-Mar-14			0%
GFXX088	E12 (E5b Dolphin) - Predrilling (3 nos)	Hans Sundstro	9	0	9	19-Mar-14	29-Mar-14			0%
Pier E13										
E13 (E5cE6c)										
GFXX093	E13C/D (E5c/E6c/Dolphin E5c) - Install Temp. Working Platform	Hans Sundstro	19	0	19	26-Mar-14	17-Apr-14			0%
E13 (E7cE8c)										
GFXX099	E13A/B (E7c/E8c/Dolphin E8c) - Install Temp. Working Platform	Hans Sundstro	19	0	19	14-Mar-14	04-Apr-14			0%
GFXX100	E13 (E7c/E8c Dolphin E8c) - Predrilling (13 nos)	Hans Sundstro	58	0	58	07-Apr-14	19-Jun-14			0%
Approach from Lantau										
Viaduct B										
Viaduct B Foundation Works										
Viaduct B - Marine Foundation										
Pier B1 (B3f)										
GFXX181	B01 (B3f) - Install Temp. Working Platform	Hans Sundstro	12	1	6	20-Jan-14 A	27-Jan-14	20-Jan-14		50%
GFXX182	B01 (B3f) - Pre-drilling for Piles (3 nos)	Hans Sundstro	13	0	13	28-Jan-14	13-Feb-14			0%
Pier B2 (B3e)										
GFXX176	B02 (B3e) - Install Temp. Working Platform	Hans Sundstro	6	0	6	28-Jan-14	05-Feb-14			0%
GFXX177	B02 (B3e) - Predrilling (2 nos)	Hans Sundstro	10	0	10	06-Feb-14	17-Feb-14			0%



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Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

3-Months Rolling Programme (Page 10 of 12 Pages)

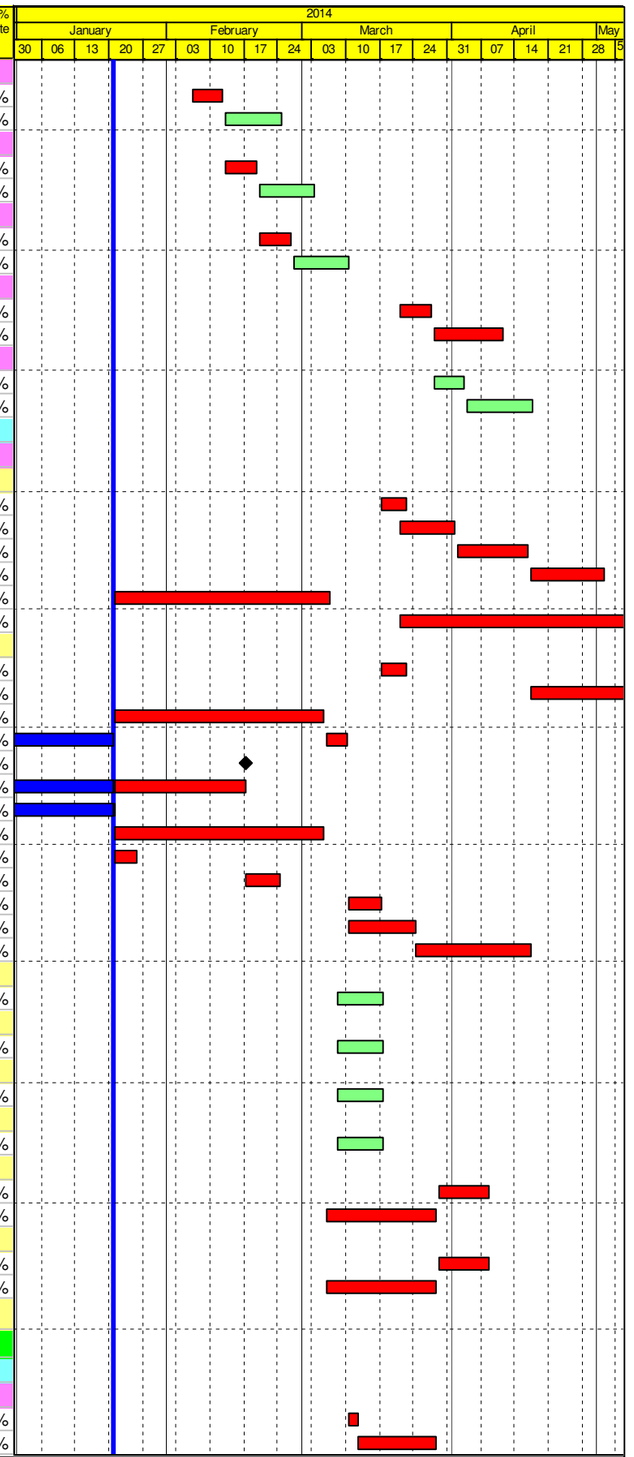
(Progress as of 23-Jan-13)

Gammon ARUP LAMBETH

DWG. No.:

J3518/GCL/PGM/3MRP-W033

Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
Pier B3 (B3d)										
GFXX171	B03 (B3d) - Install Temp. Working Platform	Hans Sundstro	6	0	6	06-Feb-14	12-Feb-14			0%
GFXX172	B03 (B3d) - Predrilling (2 nos)	Hans Sundstro	10	0	10	13-Feb-14	24-Feb-14			0%
Pier B4 (B3c)										
GFXX166	B04 (B3c) - Install Temp. Working Platform	Hans Sundstro	6	0	6	13-Feb-14	19-Feb-14			0%
GFXX167	B04 (B3c) - Predrilling (2 nos)	Hans Sundstro	10	0	10	20-Feb-14	03-Mar-14			0%
Pier B5 (B3b)										
GFXX161	B05 (B3b) - Install Temp. Working Platform	Hans Sundstro	6	0	6	20-Feb-14	26-Feb-14			0%
GFXX162	B05 (B3b) - Predrilling (2 nos)	Hans Sundstro	10	0	10	27-Feb-14	10-Mar-14			0%
Pier B6 (B3a)										
GFXX156	B06 (B3a) - Install Temp. Working Platform	Hans Sundstro	6	0	6	21-Mar-14	27-Mar-14			0%
GFXX157	B06 (B3a) - Predrilling for Piles (3 nos)	Hans Sundstro	12	0	12	28-Mar-14	11-Apr-14			0%
Pier B7 (B2f)										
GFXX151	B07 (B2f) - Install Temp. Working Platform	Hans Sundstro	6	0	6	28-Mar-14	03-Apr-14			0%
GFXX152	B07 (B2f) - Predrilling (2 nos)	Hans Sundstro	11	0	11	04-Apr-14	17-Apr-14			0%
Viaduct B - Land Foundation - North Lantau										
Socketted H-Pile Installation (132nos.; 1no. Rig)										
Pier B8 (B2e) - Workfront no. Bwf7 - Phase 1										
GFXX30	B8 (B2e) - Mobilization for Pregrouting (B8 and B9)	Hans Sundstro	5	0	5	17-Mar-14	22-Mar-14			0%
ZB20020	B8 (B2e) - Relocate MTR fence	K M Chiang	10	0	10	21-Mar-14	01-Apr-14			0%
ZB20030	B8 (B2e) - Install protection fence	K M Chiang	10	0	10	02-Apr-14	16-Apr-14			0%
ZB20040	B8 (B2e) - Set up piling platform	K M Chiang	10	0	10	17-Apr-14	02-May-14			0%
ZB3000(	B8 (B2e) - MTRC Approval for Piling Fence Design	K M Chiang	36	0	36	21-Jan-14	06-Mar-14			0%
ZB3001(	B8 (B2e) - Install Geo. Instrumentation & Baseline Monitoring	Hans Sundstro	36	0	36	21-Mar-14	08-May-14			0%
Pier B9 (B2d) - Workfront no. Bwf6 - Phase 1										
GFXX309	B9 (B2d) - Mobilization for Pregrouting	Hans Sundstro	5	0	5	17-Mar-14	22-Mar-14			0%
GFXX31	B09 (B2d) - Pre-grouting Works B9	Hans Sundstro	12	0	12	17-Apr-14	07-May-14			0%
ZB3000(	B9 (B2d) - MTRC Approval for Piling Fence Design/Method Statement	K M Chiang	36	0	36	21-Jan-14	05-Mar-14			0%
ZB3000(	B9 (B2d) - Procure Temp.Mtrls & Fabricate Pile Fence & Delivery	K M Chiang	36	76	4	21-Oct-13 A	10-Mar-14	21-Oct-13		90%
ZB3000(	B9 (B2d) - Implement TTM Stage 2	K M Chiang	0	0	0		17-Feb-14			0%
ZB3000(	B9 (B2d) - Temp.Works Design & Approval	K M Chiang	36	87	22	07-Oct-13 A	17-Feb-14	07-Oct-13		40%
ZB3001(	B9 (B2d) - GI & Trial Pit works	K M Chiang	6	26	0	18-Dec-13 A	21-Jan-14	18-Dec-13		100%
ZB3001(	B9 (B2d) - Install Geo. Instrumentation & Baseline Monitoring	Hans Sundstro	36	0	36	21-Jan-14	05-Mar-14			0%
ZB3002(	B9 (B2d) - Remove existing MTRC Security Fence	K M Chiang	5	0	5	21-Jan-14	25-Jan-14			0%
ZB3002(	B9 (B2d) - Setup platform for erecting MTRC Security Fence	K M Chiang	6	0	6	17-Feb-14	24-Feb-14			0%
ZB30030	B9 (B2d) - Erect MTR Piling Protection Fence	K M Chiang	6	0	6	10-Mar-14	17-Mar-14			0%
ZB30040	B9 (B2d) - Erect platform for ELS	K M Chiang	12	0	12	10-Mar-14	24-Mar-14			0%
ZB3005(	B9 (B2d) - Install Temp.Timber Platform for access	K M Chiang	18	0	18	24-Mar-14	17-Apr-14			0%
Pier B11 (B2b) - Workfront no. Bwf3 - Phase 1										
GFXX33	B11 (B2b) - Predrilling	Hans Sundstro	8	0	8	08-Mar-14	17-Mar-14			0%
Pier B12 (B2a) - Workfront no. Bwf3 - Phase 1										
GFXX33	B12 (B2a) - Predrilling	Hans Sundstro	8	0	8	08-Mar-14	17-Mar-14			0%
Pier B13 (B1g) - Workfront no. Bwf3 - Phase 1										
GFXX33	B13 (B1g) - Predrilling	Hans Sundstro	8	0	8	08-Mar-14	17-Mar-14			0%
Pier B14 (B1f) - Workfront no. Bwf3 - Phase 1										
GFXX33	B14 (B1f) - Predrilling	Hans Sundstro	8	0	8	08-Mar-14	17-Mar-14			0%
Pier B15 (B1e) - Workfront no. Bwf1 - Phase 1										
GFXX31	B15 (B1e) - Predrilling	Hans Sundstro	8	0	8	29-Mar-14	08-Apr-14			0%
ZB15000	B15 (B1e) Set up piling platform	Hans Sundstro	20	0	20	06-Mar-14	28-Mar-14			0%
Pier B16 (B1d) - Workfront no. Bwf1 - Phase 1										
GFXX31	B16 (B1d) - Predrilling	Hans Sundstro	8	0	8	29-Mar-14	08-Apr-14			0%
ZB16000	Set up piling platform for B16 (B1d)	K M Chiang	20	0	20	06-Mar-14	28-Mar-14			0%
Viaduct D										
Viaduct D Foundation Works										
Viaduct D - Land Foundation - North Lantau										
Preliminary Works for Land Piling										
ZD20010	Viaduct D works area between MTR and NLH - Setup TTM	K M Chiang	2	0	2	10-Mar-14	12-Mar-14			0%
ZD20020	Viaduct D works area between MTR and NLH - General site clearance	K M Chiang	14	0	14	12-Mar-14	28-Mar-14			0%



Actual Work
Planned Bar
Critical Bar
Milestone

Date	Revision	Checked	Approved
23-Jan-14	3W-Rolling Progr Up...	SMC	

Tuen Mun - Chek Lap Kok Southern Connection

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Gammon ARUP LAMBETH

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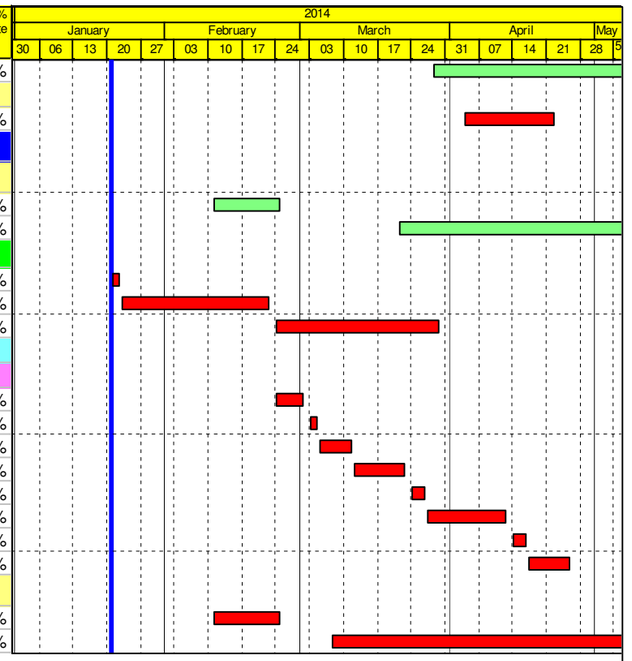
Activity ID	Activity Name	Responsible Person	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Actual Start	Actual Finish	Duration % Complete
ZD20030	Viaduct D works area between MTR and NLH - Set up piling platform	K M Chiang	30	0	30	28-Mar-14	12-May-14			0%
Pier D8										
ZD10030	D8 (D3d) - Relocate MTR fence	K M Chiang	10	0	10	04-Apr-14	22-Apr-14			0%
At-Grade Roadworks and Other Works along Cheung Tung Road										
Re-alignment of Cheung Tung Road adjacent to Viaduct B										
RP00010	Apply for relocation of ESS affected by CTR re-alignment adj. to Viaduct B	K M Chiang	12	0	12	11-Feb-14	24-Feb-14			0%
RP00020	Construct new ESS adjacent to Viaduct B	K M Chiang	60	0	60	21-Mar-14	16-Jun-14			0%
Viaduct B Slope Works										
SWVB0010	Setup TTM for slopework for Slope 9SE-B/C8, B/C9, B/F9	K M Chiang	2	0	2	21-Jan-14	22-Jan-14			0%
SWVB0020	Slope 9SE-B/C8, B/C9, B/F9 - Erect safety fence on CTR	K M Chiang	24	0	24	23-Jan-14	22-Feb-14			0%
SWVB0030	Slope 9SE-B/C8, B/C9, B/F9 - Form haul road	K M Chiang	30	0	30	24-Feb-14	29-Mar-14			0%
Slope 9SE-B/C9										
Zone A										
SWVB10	9SE-B/C9 Zone A - Form access track over crest of slope	K M Chiang	6	0	6	24-Feb-14	01-Mar-14			0%
SWVB10	9SE-B/C9 Zone A - Excav. to +25.00	K M Chiang	2	0	2	03-Mar-14	04-Mar-14			0%
SWVB10	9SE-B/C9 Zone A - Soil nail pull out test	K M Chiang	6	0	6	05-Mar-14	11-Mar-14			0%
SWVB10	9SE-B/C9 Zone A - Soil nail 18 nr.@ +26.5	K M Chiang	10	0	10	12-Mar-14	22-Mar-14			0%
SWVB10	9SE-B/C9 Zone A - Excav. to +23.00	K M Chiang	3	0	3	24-Mar-14	26-Mar-14			0%
SWVB10	9SE-B/C9 Zone A - Soil nail 24 nr.@ +24.5	K M Chiang	11	0	11	27-Mar-14	12-Apr-14			0%
SWVB10	9SE-B/C9 Zone A - Excav. to +22.00	K M Chiang	3	0	3	14-Apr-14	16-Apr-14			0%
SWVB10	9SE-B/C9 Zone A - Raking Drain 11 nr @ +23.5	K M Chiang	4	0	4	17-Apr-14	25-Apr-14			0%
Re-alignment of Cheung Tung Road adjacent to Viaduct C										
RP10010	Apply for relocation of ESS near Viaduct C	K M Chiang	12	0	12	11-Feb-14	24-Feb-14			0%
RP10020	Construct new ESS adjacent to Viaduct C	K M Chiang	60	0	60	07-Mar-14	27-May-14			0%



Actual Work
Planned Bar
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Milestone

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Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
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	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		shall be dampened or covered before transport.							
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
NOISE									
5.11	Section 4	Noise monitoring	All existing representative sensitive receivers / during North Lantau Viaduct construction	Contractor	EM&A Manual		Y		n/a
WATER QUALITY									
General Marine Works									
6.10	-	Bored piling to be undertaken within a metal casing.	Marine viaducts of TM-CLKL and HKLR/ bored piling	Contractor	TM-EIAO		Y		n/a
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		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
					permit conditions.				
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
Temporary Staging work									
	5.2	Regular inspection for the accumulation of floating refuse and collection of floating refuse if required	During temporary staging works	Contractor			Y		n/a
	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		n/a
	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		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
	5.2	One additional water quality monitoring station is 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,	During temporary staging works	Contractor			Y		n/a
Land Works									
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		n/a
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		n/a
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		n/a
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		n/a
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
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		n/a
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		system.							
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		n/a
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		n/a
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal	All areas/ throughout	Contractor	TM-EIAO Waste		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		Ordinance.	construction period		Disposal Ordinance				
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		n/a
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		n/a
6.10	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	n/a
6.10	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		n/a
Water Quality Monitoring									
6.10	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations	Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year.	Contractor	EM&A Manual		Y	Y	n/a
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	n/a
8.14	6.3	Specification for bored piling monitoring	Detailed Design	Design Consultant	TMEIA	Y			n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
8.14	6.3	Implement any recommendations of the bored piling monitoring	Southern marine viaduct/Throughout construction during bored piling	Contractor	TMEIA		Y		n/a
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		n/a
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600m2 in an area where fishing activities are prohibited.	Area of prohibited fishing activities/Detailed Design/towards end of construction period	TM-CLKL/ HKBCF Design Consultant/ TM-CLKL/ HKBCF Contractor	TMEIA	Y		Y	AFCD
8.14	6.3, 6.5	Specification and implementation of marine vessel control specifications	All areas/Detailed Design/during construction works	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
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		n/a
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Tai Ho Wan (donar site) and Yam Tsui Wan (receptor site) /Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
8.15	6.5	Audit coral translocation success	Yam Tsui Wan (receptor site)/Post translocation	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
7.13	6.5	Undertaken gabion wall works in Stream NL1 in the dry season	North Lantau slope works/dry season/construction phase	Contractor	TMEIA		Y		n/a
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		AFCD/LCSD
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
7.13	6.5	Construction activities should be restricted to the proposed works boundary	All areas / Throughout construction period	Contractor	TMEIA		Y		n/a
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		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
10.9	7.6	Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a
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		n/a
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	AFCD/HyD/ 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	HyD/LCSD
10.9	7.6	Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	HyD/LCSD
10.9	7.6	Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement (OM4)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	HyD/LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	HyD
WASTE									

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		n/a
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		n/a
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		n/a
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		n/a
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		n/a
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		n/a
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
			construction period						
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			n/a
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
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		n/a
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		n/a
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		n/a
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		n/a
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper	All areas / throughout construction period	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		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.							
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
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: - suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately	All areas / throughout construction period	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
		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		n/a
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		n/a
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		n/a
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		n/a
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	Site Offices/ throughout construction period	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Maintenance Agency
						D	C	O	
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		n/a
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

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 µg/m³	ASR9A/ASR8A = 178 ASR9C/ASR8 = 178	260
1 Hour TSP Level in µg /m³	ASR9A/ASR8A = 394 ASR9C/ASR8 = 393	500

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

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

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

Parameter	Action Level#	Limit Level#
DO in mg/L [(a)]	Surface and Middle **5.0 mg/L** Bottom **4.7 mg/L**	Surface and Middle **4.2 mg/L** Bottom **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

Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No.	:	ET/EW/008/005	Manufacturer	:	YSI
Model No.	:	Pro 2030	Serial No.	:	12A 100353
Date of Calibration	:	29/10/2013	Calibration Due Date	:	28/01/2014

Temperature Verification

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

Ref. No. of Water Bath : ---

	Temperature (°C)			
Reference Thermometer reading	Measured	20.3	Corrected	19.9
DO Meter reading	Measured	19.8	Difference	0.1

Standardization of sodium thiosulphate ($Na_2S_2O_3$) solution

Reagent No. of $Na_2S_2O_3$ titrant	CPE/012/4.5/001/7	Reagent No. of 0.025N $K_2Cr_2O_7$	CPE/012/4.4/001/22

	Trial 1	Trial 2
Initial Vol. of $Na_2S_2O_3$ (ml)	1.00	12.00
Final Vol. of $Na_2S_2O_3$ (ml)	11.55	22.50
Vol. of $Na_2S_2O_3$ used (ml)	10.55	10.50
Normality of $Na_2S_2O_3$ solution (N)	0.02370	0.02381
Average Normality (**N**) of $Na_2S_2O_3$ solution (N)	0.02376	
Acceptance criteria, Deviation	Less than ± 0.001N	

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

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	11.80	23.40	0.00	8.00	13.00
Final Vol. of $Na_2S_2O_3$ (ml)	11.80	23.40	31.50	8.00	13.00	18.10
Vol. (**V**) of $Na_2S_2O_3$ used (ml)	11.80	11.60	8.10	8.00	5.00	5.10
Dissolved Oxygen (**DO**), mg/L	7.53	7.40	5.17	5.10	3.19	3.25
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	7.66	7.41	7.54	7.53	7.40	7.47	0.93
5	5.31	5.23	5.27	5.17	5.10	5.14	2.50
10	3.20	3.10	3.15	3.19	3.25	3.22	2.20
Linear regression coefficient				0.9987			

Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00

Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/002/11	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/11

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
Trial	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	12.40	24.50	35.80
Final Vol. of $Na_2S_2O_3$ (ml)	12.40	24.50	35.80	47.00
Vol. (**V**) of $Na_2S_2O_3$ used (ml)	12.40	12.10	11.30	11.20
Dissolved Oxygen (**DO**), mg/L	7.91	7.72	7.21	7.14
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	7.82	7.63	7.73	7.91	7.72	7.82	1.16
30	7.22	7.16	7.19	7.21	7.14	7.18	0.14

Acceptance Criteria

(1) Differenc 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 : _____

Internal Calibration Report of Dissolved Oxygen Meter

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

Temperature Verification

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

Ref. No. of Water Bath : ---

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

Standardization of sodium thiosulphate ($Na_2S_2O_3$) solution

Reagent No. of $Na_2S_2O_3$ titrant	CPE/012/4.5/001/8	Reagent No. of 0.025N $K_2Cr_2O_7$	CPE/012/4.4/001/24

	Trial 1	Trial 2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	10.50
Final Vol. of $Na_2S_2O_3$ (ml)	10.50	20.95
Vol. of $Na_2S_2O_3$ used (ml)	10.50	10.45
Normality of $Na_2S_2O_3$ solution (N)	0.02381	0.02392
Average Normality (N) of $Na_2S_2O_3$ solution (N)	0.02387	
Acceptance criteria, Deviation	Less than ± 0.001N	

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

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	11.90	23.50	0.00	8.20	13.20
Final Vol. of $Na_2S_2O_3$ (ml)	11.90	23.50	31.90	8.20	13.20	17.90
Vol. (V) of $Na_2S_2O_3$ used (ml)	11.90	11.60	8.40	8.20	5.00	4.70
Dissolved Oxygen (DO), mg/L	7.63	7.43	5.38	5.25	3.20	3.01
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: 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	7.65	7.41	7.53	7.63	7.43	7.53	0.00
5	5.38	5.21	5.30	5.38	5.25	5.32	0.38
10	3.22	3.09	3.16	3.20	3.01	3.11	1.59
Linear regression coefficient				0.9998			

Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00

Salinity Checking

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

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
Trial	1	2	1	2
Initial Vol. of $Na_2S_2O_3$ (ml)	0.00	12.30	24.40	35.80
Final Vol. of $Na_2S_2O_3$ (ml)	12.30	24.40	35.80	47.00
Vol. (V) of $Na_2S_2O_3$ used (ml)	12.30	12.10	11.40	11.20
Dissolved Oxygen (DO), mg/L	7.88	7.75	7.31	7.18
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: 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	7.88	7.65	7.77	7.88	7.75	7.82	0.64
30	7.23	7.14	7.19	7.31	7.18	7.25	0.83

Acceptance Criteria

(1) Differenc 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 :

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. :	ET/EW/007/003	Manufacturer :	HANNA
Model No. :	HI 8314	Serial No. :	674469
Date of Calibration :	10/01/2014 & 10/11/2014	Calibration Due Date :	09/02/2014 & 10/11/2014

Liquid Junction Error

Primary Standard Solution Used : Phosphate — Ref No. of Primary Solution: 003/5.2/001/17

Temperature of Solution : 20.0 — $\Delta pH_{½}$ = +0.08

pH value of diluted buffer : 6.80 — pH (S) = 6.881

ΔpH = pH(S) - pH of diluted buffer = 0.081 (Observed Deviation)

Liquid Junction Error (ΔpH_j) = ΔpH - $\Delta pH_{½}$ = 0.001

Shift on Stirring

pH of buffer solution (with stirring), pH_s = 6.87

Shift on stirring, ΔpH_s= pH_s - pH(S) - ΔpH_j = -0.012

Noise

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

Verification of ATC

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

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

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

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

Acceptance Criteria

Performance Characteristic		Acceptable Range
Liquid Junction Error	ΔpHj	≤0.05
Shift on Stirring	ΔpHs	≤0.02
Noise	ΔpHn	≤0.02
Verifcation of ATC	Temperature Difference	≤0.5°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 : _____

東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/005 Manufacturer : YSI

Model No. : Pro 2030 Serial No. : 12A 100353

Date of Calibration : ~~29/08/2013~~ 29/10/2013 & 29/01/2013 Due Date : 28/01/2014

Ref. No. of Salinity Standard used (30ppt)	S/001/4

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.8	2.63

Acceptance Criteria

Difference : <10 %

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

Checked by : _____ Approved by : _____

Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/005 Manufacturer : YSI

Model No. : Pro 2030 Serial No. : 12A 100353

Date of Calibration : 29/01/2014 Due Date : 28/04/2014

Ref. No. of Salinity Standard used (30ppt)	S/001/5

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

Acceptance Criteria

Difference : <10 %

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

Checked by : _____ Approved by : _____

Performance Check of Turbidity Meter

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

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

Date of Calibration : 07/01/2014 Due Date : 06/04/2014

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

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

Acceptance Criteria

Difference : -5 % to 5 %

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

Prepared by : _____ Checked by : _____

TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

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

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

DATA TABULATION

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

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

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. : C133573
證書編號

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

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

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 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 : 14 June 2013

TEST RESULTS / 測試結果

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

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試 : K C Lee

Certified By 核證 : K K Wong

Date of Issue 簽發日期 : 17 June 2013

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 – 校正及檢測實驗所
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. : C133573
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 :

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

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

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 – 校正及檢測實驗所
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. : C133573
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

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

6.3.2 C-Weighting

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

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

- Mfr's Spec. : IEC 61672 Class 1

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

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

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

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 – 校正及檢測實驗所
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

High-Volume TSP Sampler
5-Point Calibration Record

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

Sampler

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

Calibration Orfice and Standard Calibration Relationship

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

Standard Condition

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

Calibration Condition

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

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

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

Sampler Calibration Relationship (Linear Regression)

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

Checked by: Magnum Fan Date: 08/01/2014

High-Volume TSP Sampler
5-Point Calibration Record

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

Sampler

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

Calibration Orfice and Standard Calibration Relationship

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

Standard Condition

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

Calibration Condition

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

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

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

Sampler Calibration Relationship (Linear Regression)

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

Checked by: Magnum Fan Date: 08/01/2014

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 (Jan 14)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Jan	02-Jan	03-Jan	04-Jan
				WQM Mid-Ebb 13:52 (12:07 - 15:37) Mid-Flood 19:00 (17:15 - 20:45)		**WQM** Mid-Flood 9:53 (08:08 - 11:28) Mid-Ebb 15:25 (13:40 - 17:10)
05-Jan	06-Jan	07-Jan	08-Jan	09-Jan	10-Jan	11-Jan
		WQM Mid-Flood 12:06 (10:21 - 13:51) Mid-Ebb 18:19 (16:34 - 20:04)		**WQM** Mid-Flood 13:43 (11:58 - 15:28) Mid-Ebb 20:43 (18:57 - 21:57)		**WQM** Mid-Ebb 9:46 (08:01 - 11:01) Mid-Flood 15:16 (13:31 - 17:01)
12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
		WQM Mid-Ebb 12:12 (10:27 - 13:42) Mid-Flood 17:22 (15:27 - 18:57)		**WQM** Mid-Ebb 13:15 (11:30 - 15:00) Mid-Flood 18:34 (16:49 - 20:19)		**WQM** Mid-Ebb 14:14 (12:29 - 15:59) Mid-Flood 19:44 (17:59 - 21:00)
19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
		WQM Mid-Flood 10:17 (08:32 - 12:02) Mid-Ebb 16:01 (14:16 - 17:46)		**WQM** Mid-Flood 11:30 (09:45 - 13:15) Mid-Ebb 17:48 (16:03 - 19:33)		**WQM** Mid-Flood 13:06 (11:21 - 14:51) Mid-Ebb 20:14 (18:29 - 21:29)
26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	
		WQM Mid-Ebb 11:13 (09:28 - 12:28) Mid-Flood 16:15 (14:30 - 18:00)		**WQM** Mid-Ebb 12:51 (11:06 - 14:36) Mid-Flood 18:04 (16:19 - 19:49)		

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Feb
					No marine works	No marine works
02-Feb	03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb
No marine works	No marine works	**WQM** Mid-Flood 10:30 (08:45 - 12:15) Mid-Ebb 16:35 (14:50 - 18:20)		**WQM** Mid-Flood 11:39 (09:54 - 13:24) Mid-Ebb 18:29 (16:44 - 20:14)		**WQM** Mid-Flood 13:11 (11:26 - 14:56) Mid-Ebb 21:15 (19:30 - 22:30)
09-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
		WQM Mid-Ebb 11:25 (09:40 - 13:10) Mid-Flood 16:27 (14:42 - 18:12)		**WQM** Mid-Ebb 12:25 (10:40 - 14:10) Mid-Flood 17:50 (16:05 - 19:35)		**WQM** Mid-Ebb 13:20 (11:35 - 15:05) Mid-Flood 19:04 (17:19 - 20:49)
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
		WQM Mid-Flood 9:02 (07:17 - 10:47) Mid-Ebb 14:55 (13:10 - 16:40)		**WQM** Mid-Flood 9:59 (08:14 - 11:44) Mid-Ebb 16:12 (14:27 - 17:57)		**WQM** Mid-Flood 11:12 (09:27 - 12:57) Mid-Ebb 18:07 (16:22 - 19:52)
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
		WQM Mid-Ebb 10:06 (08:21 - 11:51) Mid-Flood 14:57 (13:12 - 16:42)		**WQM** Mid-Ebb 11:53 (10:08 - 13:38) Mid-Flood 17:08 (15:23 - 18:53)		

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

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

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Dolphin Monitoring Survey Schedule (1 Feb to 28 Feb 2014)

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

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 Noise Monitoring Schedule (1 Jan to 31 Jan 2014)

Noise Monitoring at the rooftop of Pak Mong Village Watch Tower

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

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

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

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

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

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Noise Monitoring Schedule (1 Feb - 28 Feb 2014)

Noise Monitoring at the rooftop of Pak Mong Village Watch Tower

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

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Impact Air Quality Monitoring Schedule (1 Feb to 28 Feb 2014)

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

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

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section
Tentative Marine Bored Piling Monitoring Schedule (1 Feb to 28 Feb 2014)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Feb
02-Feb	03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb
09-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
			Marine Bored Piling Monitoring*	Marine Bored Piling Monitoring*	Marine Bored Piling Monitoring*	

* Marine Bored Piling Monitoring - Land-based Theodolite Tracking, Underwater Noise Monitoring and Acoustic Behavioural Monitoring

The schedule is subject to the actual marine bored piling construction activities. 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	2014-01-03	ASR8A	8:11	1-hr TSP	99	394	500
TMCLKL	HY/2012/07	2014-01-03	ASR8A	9:13	1-hr TSP	216		
TMCLKL	HY/2012/07	2014-01-03	ASR8A	10:15	1-hr TSP	221		
TMCLKL	HY/2012/07	2014-01-09	ASR8A	8:30	1-hr TSP	201		
TMCLKL	HY/2012/07	2014-01-09	ASR8A	9:32	1-hr TSP	114		
TMCLKL	HY/2012/07	2014-01-09	ASR8A	10:34	1-hr TSP	92		
TMCLKL	HY/2012/07	2014-01-15	ASR8A	10:00	1-hr TSP	101		
TMCLKL	HY/2012/07	2014-01-15	ASR8A	11:02	1-hr TSP	82		
TMCLKL	HY/2012/07	2014-01-15	ASR8A	12:04	1-hr TSP	61		
TMCLKL	HY/2012/07	2014-01-21	ASR8A	10:02	1-hr TSP	138		
TMCLKL	HY/2012/07	2014-01-21	ASR8A	11:04	1-hr TSP	67		
TMCLKL	HY/2012/07	2014-01-21	ASR8A	12:06	1-hr TSP	129		
TMCLKL	HY/2012/07	2014-01-27	ASR8A	8:00	1-hr TSP	201		
TMCLKL	HY/2012/07	2014-01-27	ASR8A	9:02	1-hr TSP	210		
TMCLKL	HY/2012/07	2014-01-27	ASR8A	10:04	1-hr TSP	143		
TMCLKL	HY/2012/07	2014-01-30	ASR8A	8:00	1-hr TSP	204		
TMCLKL	HY/2012/07	2014-01-30	ASR8A	9:02	1-hr TSP	50		
TMCLKL	HY/2012/07	2014-01-30	ASR8A	10:04	1-hr TSP	133		
					Average	137		
					Min.	50		
					Max.	221		

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

Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-01-03	ASR8	8:30	1-hr TSP	161	393	500
TMCLKL	HY/2012/07	2014-01-03	ASR8	9:32	1-hr TSP	77		
TMCLKL	HY/2012/07	2014-01-03	ASR8	10:34	1-hr TSP	77		
TMCLKL	HY/2012/07	2014-01-09	ASR8	8:40	1-hr TSP	209		
TMCLKL	HY/2012/07	2014-01-09	ASR8	9:42	1-hr TSP	216		
TMCLKL	HY/2012/07	2014-01-09	ASR8	10:44	1-hr TSP	91		
TMCLKL	HY/2012/07	2014-01-15	ASR8	10:11	1-hr TSP	146		
TMCLKL	HY/2012/07	2014-01-15	ASR8	11:13	1-hr TSP	291		
TMCLKL	HY/2012/07	2014-01-15	ASR8	12:15	1-hr TSP	83		
TMCLKL	HY/2012/07	2014-01-21	ASR8	9:10	1-hr TSP	143		
TMCLKL	HY/2012/07	2014-01-21	ASR8	10:02	1-hr TSP	202		
TMCLKL	HY/2012/07	2014-01-21	ASR8	11:04	1-hr TSP	107		
TMCLKL	HY/2012/07	2014-01-27	ASR8	8:10	1-hr TSP	126		
TMCLKL	HY/2012/07	2014-01-27	ASR8	9:12	1-hr TSP	147		
TMCLKL	HY/2012/07	2014-01-27	ASR8	10:14	1-hr TSP	222		
TMCLKL	HY/2012/07	2014-01-30	ASR8	8:12	1-hr TSP	177		
TMCLKL	HY/2012/07	2014-01-30	ASR8	9:14	1-hr TSP	234		
TMCLKL	HY/2012/07	2014-01-30	ASR8	10:16	1-hr TSP	241		
					Average	164		
					Min.	77		
					Max.	291		

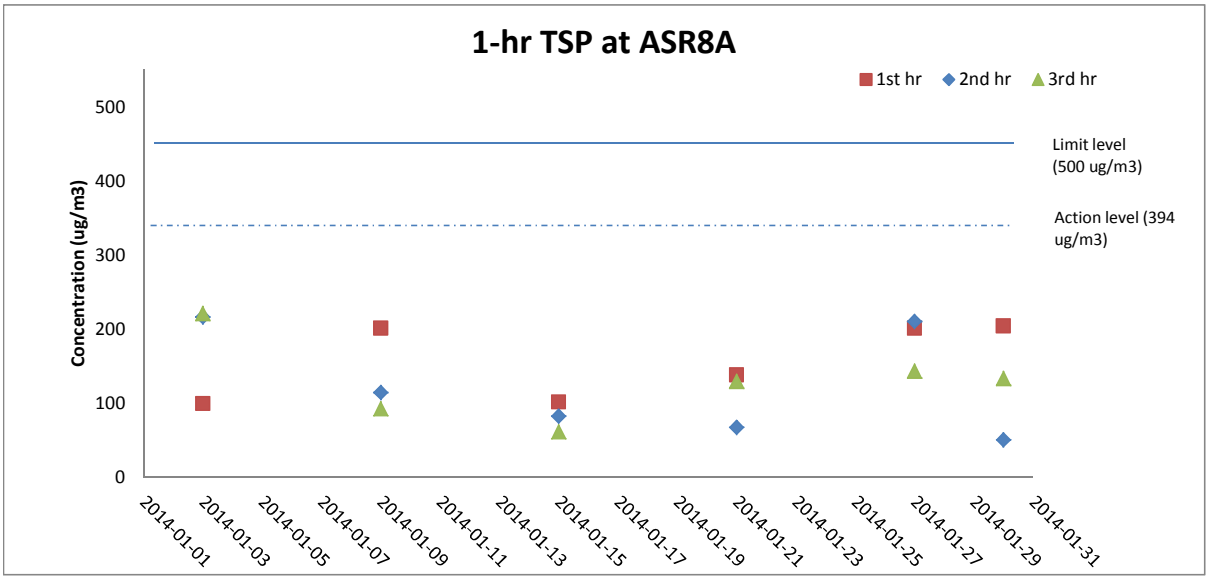
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A

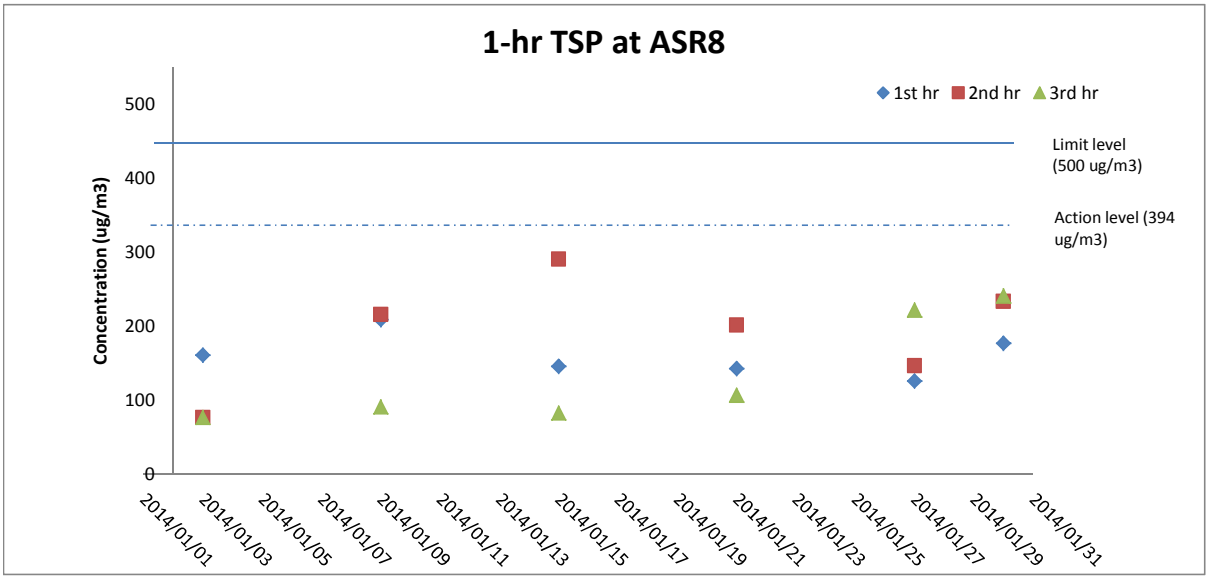
Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-01-03	ASR8A	11:06	24-hr TSP	164	178	260
TMCLKL	HY/2012/07	2014-01-09	ASR8A	11:36	24-hr TSP	95		
TMCLKL	HY/2012/07	2014-01-15	ASR8A	13:06	24-hr TSP	64		
TMCLKL	HY/2012/07	2014-01-21	ASR8A	12:06	24-hr TSP	129		
TMCLKL	HY/2012/07	2014-01-27	ASR8A	11:06	24-hr TSP	42		
TMCLKL	HY/2012/07	2014-01-30	ASR8A	11:06	24-hr TSP	35		
					Average	88		
					Min.	35		
					Max.	164		

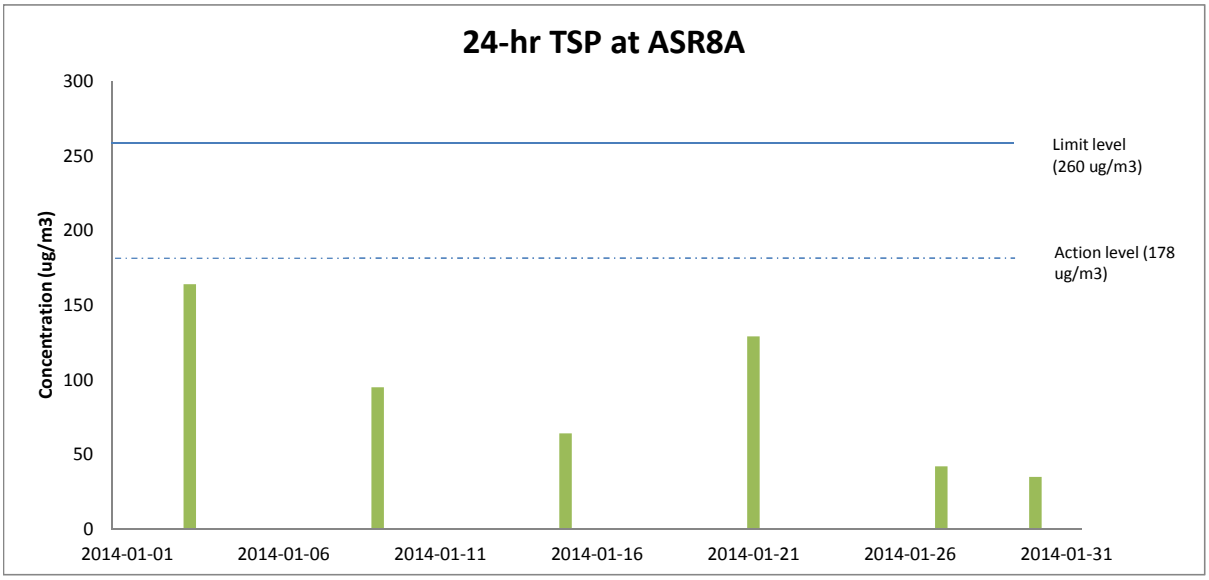
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8

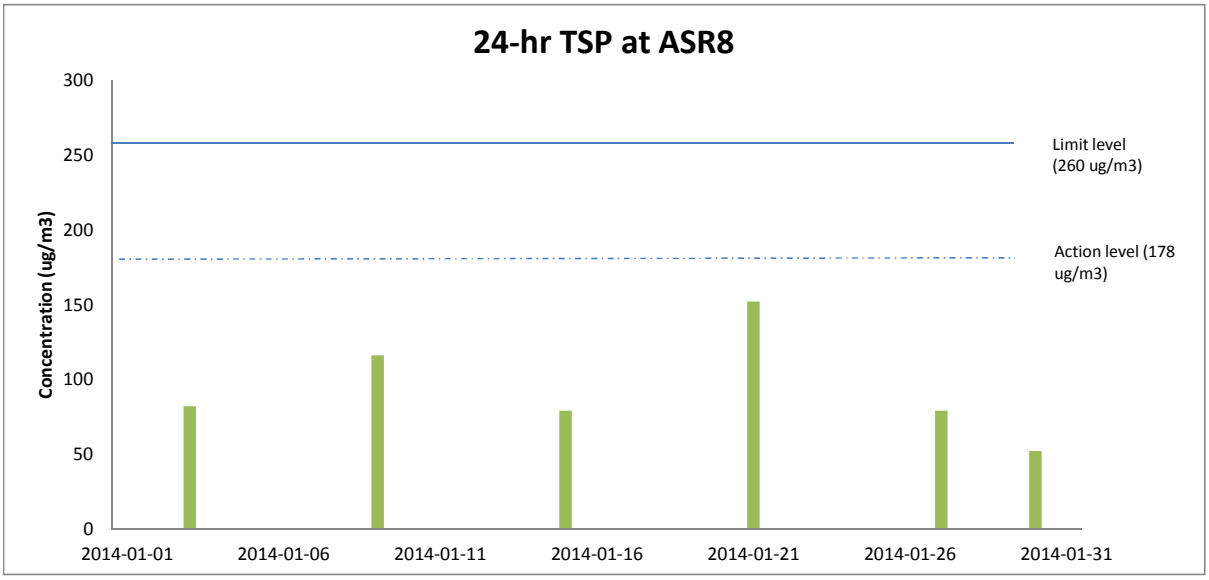
Project	Works	Date (yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2014-01-03	ASR8	11:17	24-hr TSP	82	178	260
TMCLKL	HY/2012/07	2014-01-09	ASR8	11:46	24-hr TSP	116		
TMCLKL	HY/2012/07	2014-01-15	ASR8	13:17	24-hr TSP	79		
TMCLKL	HY/2012/07	2014-01-21	ASR8	12:16	24-hr TSP	152		
TMCLKL	HY/2012/07	2014-01-27	ASR8	11:16	24-hr TSP	79		
TMCLKL	HY/2012/07	2014-01-30	ASR8	11:18	24-hr TSP	52		
					Average	93		
					Min.	52		
					Max.	152		

Action Level Exceedance
Limit Level Exceedance


1-hr TSP at ASR8A
1st hr
2nd hr
3rd hr
Concentration (ug/m3)
500
400
300
200
100
0
Limit level (500 ug/m3)
Action level (394 ug/m3)
2014-01-01
2014-01-03
2014-01-05
2014-01-07
2014-01-09
2014-01-11
2014-01-13
2014-01-15
2014-01-17
2014-01-19
2014-01-21
2014-01-23
2014-01-25
2014-01-27
2014-01-29
2014-01-31


1-hr TSP at ASR8
1st hr
2nd hr
3rd hr
Concentration (ug/m3)
500
400
300
200
100
0
Limit level (500 ug/m3)
Action level (394 ug/m3)
2014/01/01
2014/01/03
2014/01/05
2014/01/07
2014/01/09
2014/01/11
2014/01/13
2014/01/15
2014/01/17
2014/01/19
2014/01/21
2014/01/23
2014/01/25
2014/01/27
2014/01/29
2014/01/31


24-hr TSP at ASR8A
Concentration (ug/m3)
300
250
200
150
100
50
0
2014-01-01
2014-01-06
2014-01-11
2014-01-16
2014-01-21
2014-01-26
2014-01-31
Limit level (260 ug/m3)
Action level (178 ug/m3)


24-hr TSP at ASR8
Concentration (ug/m3)
300
250
200
150
100
50
0
2014-01-01
2014-01-06
2014-01-11
2014-01-16
2014-01-21
2014-01-26
2014-01-31
Limit level (260 ug/m3)
Action level (178 ug/m3)

Appendix H

Meteorological Data for the Reporting Month

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/3	00:00:07	0.02	122.45
2014/1/3	00:05:07	0.02	123.01
2014/1/3	00:10:07	0.02	152.53
2014/1/3	00:15:07	0.02	197.99
2014/1/3	00:20:07	0.02	197.99
2014/1/3	00:25:07	0.02	187.19
2014/1/3	00:30:07	0.02	217.83
2014/1/3	00:35:07	0.02	217.83
2014/1/3	00:40:07	0.23	217.94
2014/1/3	00:45:07	0.02	217.38
2014/1/3	00:50:07	0.02	171.14
2014/1/3	00:55:07	0.02	146.52
2014/1/3	01:00:07	0.02	146.52
2014/1/3	01:05:07	0.02	146.52
2014/1/3	01:10:07	0.02	137.72
2014/1/3	01:15:07	0.02	141.84
2014/1/3	01:20:07	0.02	142.06
2014/1/3	01:25:07	0.02	142.06
2014/1/3	01:30:07	0.02	142.06
2014/1/3	01:35:07	0.02	204.12
2014/1/3	01:40:07	0.02	204.12
2014/1/3	01:45:07	0.02	204.12
2014/1/3	01:50:07	0.02	204.12
2014/1/3	01:55:07	0.02	204.12
2014/1/3	02:00:07	0.02	204.23
2014/1/3	02:05:07	0.02	204.12
2014/1/3	02:10:07	0.02	204.12
2014/1/3	02:15:07	0.02	204.12
2014/1/3	02:20:07	0.02	204.23
2014/1/3	02:25:07	0.02	204.23
2014/1/3	02:30:07	0.02	204.23
2014/1/3	02:35:07	0.02	204.23
2014/1/3	02:40:07	0.02	204.23
2014/1/3	02:45:07	0.02	204.23
2014/1/3	02:50:07	0.02	204.23
2014/1/3	02:55:07	0.02	204.23
2014/1/3	03:00:07	0.02	208.13
2014/1/3	03:05:07	0.02	207.69
2014/1/3	03:10:07	0.02	207.69
2014/1/3	03:15:07	0.02	207.69
2014/1/3	03:20:07	0.02	208.47
2014/1/3	03:25:07	0.02	208.47
2014/1/3	03:30:07	0.02	208.47
2014/1/3	03:35:07	0.02	208.47
2014/1/3	03:40:07	0.02	208.47
2014/1/3	03:45:07	0.02	208.47

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/3	03:50:07	0.02	208.47
2014/1/3	03:55:07	0.02	208.47
2014/1/3	04:00:07	0.02	208.47
2014/1/3	04:05:07	0.02	208.58
2014/1/3	04:10:07	0.02	208.58
2014/1/3	04:15:07	0.02	208.47
2014/1/3	04:20:07	0.02	208.47
2014/1/3	04:25:07	0.02	208.47
2014/1/3	04:30:07	0.02	208.47
2014/1/3	04:35:07	0.02	208.47
2014/1/3	04:40:07	0.02	208.47
2014/1/3	04:45:07	0.02	208.58
2014/1/3	04:50:07	0.02	208.47
2014/1/3	04:55:07	0.02	208.58
2014/1/3	05:00:07	0.02	208.47
2014/1/3	05:05:07	0.02	210.14
2014/1/3	05:10:07	0.02	51.03
2014/1/3	05:15:07	0.02	51.03
2014/1/3	05:20:07	0.02	47.02
2014/1/3	05:25:07	0.02	17.94
2014/1/3	05:30:07	0.02	17.83
2014/1/3	05:35:07	0.02	17.94
2014/1/3	05:40:07	0.02	197.55
2014/1/3	05:45:07	0.02	57.05
2014/1/3	05:50:07	0.02	57.05
2014/1/3	05:55:07	0.02	56.94
2014/1/3	06:00:07	0.02	56.94
2014/1/3	06:05:07	0.02	210.36
2014/1/3	06:10:07	0.02	210.47
2014/1/3	06:15:07	0.02	210.36
2014/1/3	06:20:07	0.02	210.36
2014/1/3	06:25:07	0.09	225.52
2014/1/3	06:30:07	0.02	212.92
2014/1/3	06:35:07	0.02	212.92
2014/1/3	06:40:07	0.02	212.92
2014/1/3	06:45:07	0.02	212.92
2014/1/3	06:50:07	0.02	212.92
2014/1/3	06:55:07	0.02	212.92
2014/1/3	07:00:07	0.02	212.92
2014/1/3	07:05:07	0.02	212.92
2014/1/3	07:10:07	0.02	212.92
2014/1/3	07:15:07	0.02	212.92
2014/1/3	07:20:07	0.02	213.04
2014/1/3	07:25:07	0.02	212.92
2014/1/3	07:30:07	0.02	211.03
2014/1/3	07:35:07	0.02	211.03

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/3	07:40:07	0.02	211.03
2014/1/3	07:45:07	0.02	211.03
2014/1/3	07:50:07	0.02	211.03
2014/1/3	07:55:07	0.02	52.92
2014/1/3	08:00:07	0.02	52.81
2014/1/3	08:05:07	0.02	52.81
2014/1/3	08:10:07	0.02	350.86
2014/1/3	08:15:07	0.02	11.36
2014/1/3	08:20:07	0.02	11.25
2014/1/3	08:25:07	0.02	9.92
2014/1/3	08:30:07	0.02	358.55
2014/1/3	08:35:07	0.02	358.44
2014/1/3	08:40:07	0.02	-0.45
2014/1/3	08:45:07	0.02	22.84
2014/1/3	08:50:07	0.02	23.84
2014/1/3	08:55:07	0.02	291.59
2014/1/3	09:00:07	0.11	134.82
2014/1/3	09:05:07	0.02	99.05
2014/1/3	09:10:07	0.02	77.88
2014/1/3	09:15:07	0.09	40.33
2014/1/3	09:20:07	0.02	40.33
2014/1/3	09:25:07	0.02	40.22
2014/1/3	09:30:07	0.02	40.22
2014/1/3	09:35:07	0.02	40.22
2014/1/3	09:40:07	0.02	40.11
2014/1/3	09:45:07	0.02	40.00
2014/1/3	09:50:07	0.21	356.43
2014/1/3	09:55:07	0.02	356.88
2014/1/3	10:00:07	0.02	-48.47
2014/1/3	10:05:07	0.24	353.09
2014/1/3	10:10:07	0.02	340.84
2014/1/3	10:15:07	0.02	69.42
2014/1/3	10:20:07	0.02	353.09
2014/1/3	10:25:07	0.40	347.63
2014/1/3	10:30:07	0.60	-0.11
2014/1/3	10:35:07	0.02	342.17
2014/1/3	10:40:07	0.35	351.87
2014/1/3	10:45:07	0.05	0.00
2014/1/3	10:50:07	0.32	349.30
2014/1/3	10:55:07	0.28	355.99
2014/1/3	11:00:07	0.02	269.42
2014/1/3	11:05:07	0.02	327.91
2014/1/3	11:10:07	0.35	247.58
2014/1/3	11:15:07	0.02	253.26
2014/1/3	11:20:07	0.15	244.90
2014/1/3	11:25:07	0.05	224.96

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/3	11:30:07	0.02	304.07
2014/1/3	11:35:07	0.03	242.56
2014/1/3	11:40:07	0.14	232.65
2014/1/3	11:45:07	0.18	249.58
2014/1/3	11:50:07	0.06	291.48
2014/1/3	11:55:07	0.05	278.55
2014/1/3	12:00:07	0.17	261.17
2014/1/3	12:05:07	0.31	87.02
2014/1/3	12:10:07	0.32	230.97
2014/1/3	12:15:07	0.02	262.62
2014/1/3	12:20:07	0.02	275.77
2014/1/3	12:25:07	0.02	262.62
2014/1/3	12:30:07	0.02	76.77
2014/1/3	12:35:07	0.02	231.87
2014/1/3	12:40:07	0.02	262.51
2014/1/3	12:45:07	1.25	242.45
2014/1/3	12:50:07	0.15	293.82
2014/1/3	12:55:07	0.73	16.16
2014/1/3	13:00:07	0.02	329.92
2014/1/3	13:05:07	0.37	256.60
2014/1/3	13:10:07	0.05	292.26
2014/1/3	13:15:07	0.06	289.25
2014/1/3	13:20:07	0.02	236.77
2014/1/3	13:25:07	0.28	241.23
2014/1/3	13:30:07	0.31	223.96
2014/1/3	13:35:07	0.41	295.60
2014/1/3	13:40:07	0.02	269.08
2014/1/3	13:45:07	0.32	312.42
2014/1/3	13:50:07	0.02	30.42
2014/1/3	13:55:07	0.12	0.45
2014/1/3	14:00:07	0.02	339.39
2014/1/3	14:05:07	0.02	346.41
2014/1/3	14:10:07	0.06	243.68
2014/1/3	14:15:07	0.15	223.18
2014/1/3	14:20:07	0.09	256.16
2014/1/3	14:25:07	1.53	315.88
2014/1/3	14:30:07	0.02	12.59
2014/1/3	14:35:07	0.47	221.73
2014/1/3	14:40:07	0.02	260.28
2014/1/3	14:45:07	0.02	28.19
2014/1/3	14:50:07	0.02	222.51
2014/1/3	14:55:07	0.02	258.27
2014/1/3	15:00:07	0.15	224.29
2014/1/3	15:05:07	0.49	254.93
2014/1/3	15:10:07	0.09	277.55
2014/1/3	15:15:07	0.02	312.65

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/3	15:20:07	0.02	292.92
2014/1/3	15:25:07	0.02	253.37
2014/1/3	15:30:07	0.02	252.48
2014/1/3	15:35:07	0.35	267.41
2014/1/3	15:40:07	0.11	226.96
2014/1/3	15:45:07	0.02	299.83
2014/1/3	15:50:07	0.02	355.10
2014/1/3	15:55:07	0.03	328.02
2014/1/3	16:00:07	0.02	337.49
2014/1/3	16:05:07	0.02	272.53
2014/1/3	16:10:07	0.02	163.01
2014/1/3	16:15:07	0.02	276.32
2014/1/3	16:20:07	0.02	331.03
2014/1/3	16:25:07	0.02	247.91
2014/1/3	16:30:07	0.02	238.44
2014/1/3	16:35:07	0.02	275.77
2014/1/3	16:40:07	0.02	268.97
2014/1/3	16:45:07	0.02	278.44
2014/1/3	16:50:07	0.02	261.28
2014/1/3	16:55:07	0.02	227.86
2014/1/3	17:00:07	0.02	279.44
2014/1/3	17:05:07	0.02	279.33
2014/1/3	17:10:07	0.02	279.89
2014/1/3	17:15:07	0.02	279.89
2014/1/3	17:20:07	0.02	279.89
2014/1/3	17:25:07	0.02	217.05
2014/1/3	17:30:07	0.02	210.81
2014/1/3	17:35:07	0.02	299.05
2014/1/3	17:40:07	0.02	231.87
2014/1/3	17:45:07	0.02	232.09
2014/1/3	17:50:07	0.02	244.01
2014/1/3	17:55:07	0.02	250.36
2014/1/3	18:00:07	0.02	250.03
2014/1/3	18:05:07	0.02	296.04
2014/1/3	18:10:07	0.06	246.57
2014/1/3	18:15:07	0.02	256.38
2014/1/3	18:20:07	0.47	267.97
2014/1/3	18:25:07	0.02	277.33
2014/1/3	18:30:07	0.67	285.46
2014/1/3	18:35:07	0.41	254.93
2014/1/3	18:40:07	0.02	198.66
2014/1/3	18:45:07	0.21	245.57
2014/1/3	18:50:07	0.02	252.70
2014/1/3	18:55:07	0.02	251.36
2014/1/3	19:00:07	0.02	310.42
2014/1/3	19:05:07	0.02	229.97

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/3	19:10:07	0.02	209.92
2014/1/3	19:15:07	0.21	255.38
2014/1/3	19:20:07	0.02	270.42
2014/1/3	19:25:07	0.03	235.43
2014/1/3	19:30:07	0.02	243.68
2014/1/3	19:35:07	0.02	228.08
2014/1/3	19:40:07	0.02	243.45
2014/1/3	19:45:07	0.02	243.45
2014/1/3	19:50:07	0.02	245.13
2014/1/3	19:55:07	0.96	232.53
2014/1/3	20:00:07	0.06	203.12
2014/1/3	20:05:07	0.05	262.84
2014/1/3	20:10:07	0.02	242.23
2014/1/3	20:15:07	0.02	239.78
2014/1/3	20:20:07	0.02	227.08
2014/1/3	20:25:07	0.02	226.96
2014/1/3	20:30:07	0.29	205.68
2014/1/3	20:35:07	0.02	229.86
2014/1/3	20:40:07	0.02	229.86
2014/1/3	20:45:07	0.02	229.86
2014/1/3	20:50:07	0.02	223.40
2014/1/3	20:55:07	0.02	228.52
2014/1/3	21:00:07	0.80	241.89
2014/1/3	21:05:07	0.02	219.28
2014/1/3	21:10:07	0.02	209.14
2014/1/3	21:15:07	0.02	217.05
2014/1/3	21:20:07	0.02	205.46
2014/1/3	21:25:07	0.02	208.25
2014/1/3	21:30:07	0.02	148.08
2014/1/3	21:35:07	0.02	162.56
2014/1/3	21:40:07	0.02	222.06
2014/1/3	21:45:07	0.02	182.95
2014/1/3	21:50:07	0.02	170.03
2014/1/3	21:55:07	0.03	138.05
2014/1/3	22:00:07	0.02	193.31
2014/1/3	22:05:07	0.02	180.72
2014/1/3	22:10:07	0.02	197.99
2014/1/3	22:15:07	0.02	213.15
2014/1/3	22:20:07	0.02	148.64
2014/1/3	22:25:07	0.09	173.82
2014/1/3	22:30:07	0.02	239.22
2014/1/3	22:35:07	0.08	205.24
2014/1/3	22:40:07	0.15	281.00
2014/1/3	22:45:07	0.08	214.71
2014/1/3	22:50:07	0.02	214.82
2014/1/3	22:55:07	0.02	214.71

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/3	23:00:07	0.02	214.71
2014/1/3	23:05:07	0.02	214.71
2014/1/3	23:10:07	0.02	227.19
2014/1/3	23:15:07	0.05	223.62
2014/1/3	23:20:07	0.02	266.41
2014/1/3	23:25:07	0.02	228.64
2014/1/3	23:30:07	0.14	222.06
2014/1/3	23:35:07	0.02	222.06
2014/1/3	23:40:07	0.02	222.06
2014/1/3	23:45:07	0.02	211.48
2014/1/3	23:50:07	0.02	231.20
2014/1/3	23:55:07	0.02	234.65
2014/1/9	00:02:26	0.61	321.00
2014/1/9	00:07:26	0.02	237.77
2014/1/9	00:12:26	0.06	345.96
2014/1/9	00:17:26	0.55	260.17
2014/1/9	00:22:26	0.67	260.84
2014/1/9	00:27:26	0.03	276.21
2014/1/9	00:32:26	0.02	251.03
2014/1/9	00:37:26	0.05	248.25
2014/1/9	00:42:26	0.23	109.97
2014/1/9	00:47:26	0.02	299.83
2014/1/9	00:52:26	0.02	352.42
2014/1/9	00:57:26	0.29	291.81
2014/1/9	01:02:26	0.02	258.72
2014/1/9	01:07:26	0.02	276.21
2014/1/9	01:12:26	0.70	241.45
2014/1/9	01:17:26	0.17	272.31
2014/1/9	01:22:26	0.02	154.43
2014/1/9	01:27:26	0.28	293.70
2014/1/9	01:32:26	0.05	300.50
2014/1/9	01:37:26	0.50	328.91
2014/1/9	01:42:26	0.02	229.97
2014/1/9	01:47:26	0.02	347.41
2014/1/9	01:52:26	0.11	311.42
2014/1/9	01:57:26	0.06	270.97
2014/1/9	02:02:26	0.02	248.69
2014/1/9	02:07:26	0.05	212.81
2014/1/9	02:12:26	0.02	5.24
2014/1/9	02:17:26	0.02	276.66
2014/1/9	02:22:26	0.06	356.21
2014/1/9	02:27:26	0.14	17.60
2014/1/9	02:32:26	1.16	349.97
2014/1/9	02:37:26	0.08	246.57
2014/1/9	02:42:26	2.23	5.01
2014/1/9	02:47:26	0.02	17.60

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/9	02:52:26	0.02	296.94
2014/1/9	02:57:26	0.02	76.55
2014/1/9	03:02:26	0.31	314.09
2014/1/9	03:07:26	0.02	320.67
2014/1/9	03:12:26	0.14	284.12
2014/1/9	03:17:26	0.02	84.12
2014/1/9	03:22:26	0.21	225.18
2014/1/9	03:27:26	0.23	202.79
2014/1/9	03:32:26	0.03	321.23
2014/1/9	03:37:26	0.20	248.80
2014/1/9	03:42:26	0.02	287.80
2014/1/9	03:47:26	0.38	358.33
2014/1/9	03:52:26	0.14	229.75
2014/1/9	03:57:26	0.02	231.31
2014/1/9	04:02:26	0.02	359.00
2014/1/9	04:07:26	0.02	219.72
2014/1/9	04:12:26	0.24	334.60
2014/1/9	04:17:26	1.70	-2.67
2014/1/9	04:22:26	0.20	176.27
2014/1/9	04:27:26	1.02	347.86
2014/1/9	04:32:26	0.02	260.95
2014/1/9	04:37:26	0.02	249.92
2014/1/9	04:42:26	0.15	211.03
2014/1/9	04:47:26	0.02	283.79
2014/1/9	04:52:26	0.18	332.70
2014/1/9	04:57:26	0.05	283.45
2014/1/9	05:02:26	0.43	1.89
2014/1/9	05:07:26	0.02	263.62
2014/1/9	05:12:26	0.72	42.12
2014/1/9	05:17:26	1.27	53.15
2014/1/9	05:22:26	0.28	70.19
2014/1/9	05:27:26	0.05	234.43
2014/1/9	05:32:26	1.16	58.05
2014/1/9	05:37:26	0.12	18.72
2014/1/9	05:42:26	0.28	19.83
2014/1/9	05:47:26	0.35	32.65
2014/1/9	05:52:26	0.02	41.67
2014/1/9	05:57:26	0.02	108.19
2014/1/9	06:02:26	0.11	43.01
2014/1/9	06:07:26	0.17	40.45
2014/1/9	06:12:26	0.03	45.57
2014/1/9	06:17:26	0.23	45.68
2014/1/9	06:22:26	0.15	197.99
2014/1/9	06:27:26	0.02	25.52
2014/1/9	06:32:26	0.02	35.32
2014/1/9	06:37:26	0.02	238.89

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/9	06:42:26	0.02	339.39
2014/1/9	06:47:26	0.02	346.74
2014/1/9	06:52:26	0.52	240.89
2014/1/9	06:57:26	0.02	251.03
2014/1/9	07:02:26	0.02	32.87
2014/1/9	07:07:26	0.02	201.00
2014/1/9	07:12:26	0.02	230.64
2014/1/9	07:17:26	0.02	230.53
2014/1/9	07:22:26	0.02	230.64
2014/1/9	07:27:26	0.02	85.46
2014/1/9	07:32:26	0.02	34.65
2014/1/9	07:37:26	0.02	58.05
2014/1/9	07:42:26	0.02	76.55
2014/1/9	07:47:26	0.02	76.55
2014/1/9	07:52:26	0.02	190.31
2014/1/9	07:57:26	0.02	190.31
2014/1/9	08:02:26	0.32	47.24
2014/1/9	08:07:26	0.02	124.68
2014/1/9	08:12:26	0.02	91.70
2014/1/9	08:17:26	0.05	80.67
2014/1/9	08:22:26	0.02	37.21
2014/1/9	08:27:26	0.02	37.21
2014/1/9	08:32:26	0.02	37.10
2014/1/9	08:37:26	0.02	157.10
2014/1/9	08:42:26	0.02	157.10
2014/1/9	08:47:26	0.02	17.16
2014/1/9	08:52:26	0.02	57.60
2014/1/9	08:57:26	0.02	57.49
2014/1/9	09:02:26	0.02	350.97
2014/1/9	09:07:26	0.02	256.38
2014/1/9	09:12:26	0.02	287.13
2014/1/9	09:17:26	0.02	287.24
2014/1/9	09:22:26	0.02	286.91
2014/1/9	09:27:26	0.02	215.04
2014/1/9	09:32:26	0.02	272.65
2014/1/9	09:37:26	0.02	-16.49
2014/1/9	09:42:26	0.02	353.87
2014/1/9	09:47:26	0.02	243.01
2014/1/9	09:52:26	0.02	350.53
2014/1/9	09:57:26	0.09	346.18
2014/1/9	10:02:26	0.20	336.16
2014/1/9	10:07:26	0.02	24.62
2014/1/9	10:12:26	0.02	42.01
2014/1/9	10:17:26	0.02	-46.91
2014/1/9	10:22:26	0.02	-46.91
2014/1/9	10:27:26	0.02	28.86

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/9	10:32:26	0.02	279.11
2014/1/9	10:37:26	0.02	338.16
2014/1/9	10:42:26	0.02	271.53
2014/1/9	10:47:26	0.02	234.65
2014/1/9	10:52:26	0.31	32.42
2014/1/9	10:57:26	0.02	352.20
2014/1/9	11:02:26	0.05	3.90
2014/1/9	11:07:26	0.02	31.42
2014/1/9	11:12:26	0.57	336.49
2014/1/9	11:17:26	0.02	279.44
2014/1/9	11:22:26	0.02	316.77
2014/1/9	11:27:26	0.02	346.30
2014/1/9	11:32:26	0.02	45.57
2014/1/9	11:37:26	0.02	271.75
2014/1/9	11:42:26	0.02	262.84
2014/1/9	11:47:26	0.02	227.19
2014/1/9	11:52:26	0.02	3.34
2014/1/9	11:57:26	0.02	305.74
2014/1/9	12:02:26	0.02	357.10
2014/1/9	12:07:26	0.02	48.25
2014/1/9	12:12:26	0.02	357.66
2014/1/9	12:17:26	0.02	7.69
2014/1/9	12:22:26	0.02	0.56
2014/1/9	12:27:26	0.02	0.56
2014/1/9	12:32:26	0.02	0.56
2014/1/9	12:37:26	0.02	344.51
2014/1/9	12:42:26	0.02	271.20
2014/1/9	12:47:26	0.02	319.11
2014/1/9	12:52:26	0.11	68.86
2014/1/9	12:57:26	0.02	215.60
2014/1/9	13:02:26	0.14	357.10
2014/1/9	13:07:26	0.02	230.42
2014/1/9	13:12:26	0.02	261.39
2014/1/9	13:17:26	0.14	356.88
2014/1/9	13:22:26	0.02	353.54
2014/1/9	13:27:26	0.02	353.65
2014/1/9	13:32:26	0.02	318.77
2014/1/9	13:37:26	0.02	241.89
2014/1/9	13:42:26	0.02	246.35
2014/1/9	13:47:26	0.02	276.99
2014/1/9	13:52:26	0.02	81.45
2014/1/9	13:57:26	0.02	238.11
2014/1/9	14:02:26	0.02	240.00
2014/1/9	14:07:26	0.02	44.01
2014/1/9	14:12:26	0.02	44.01
2014/1/9	14:17:26	0.02	27.19

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/9	14:22:26	0.02	273.65
2014/1/9	14:27:26	0.02	247.91
2014/1/9	14:32:26	0.02	247.91
2014/1/9	14:37:26	0.02	247.91
2014/1/9	14:42:26	0.17	13.04
2014/1/9	14:47:26	0.02	4.57
2014/1/9	14:52:26	0.02	30.31
2014/1/9	14:57:26	0.55	58.72
2014/1/9	15:02:26	0.02	347.30
2014/1/9	15:07:26	0.49	20.50
2014/1/9	15:12:26	0.02	62.84
2014/1/9	15:17:26	0.03	61.50
2014/1/9	15:22:26	0.02	3.68
2014/1/9	15:27:26	0.31	346.41
2014/1/9	15:32:26	0.02	28.19
2014/1/9	15:37:26	0.11	35.43
2014/1/9	15:42:26	0.24	348.30
2014/1/9	15:47:26	0.02	331.92
2014/1/9	15:52:26	0.12	327.47
2014/1/9	15:57:26	0.06	344.07
2014/1/9	16:02:26	0.02	225.29
2014/1/9	16:07:26	0.02	357.66
2014/1/9	16:12:26	0.02	357.66
2014/1/9	16:17:26	0.23	325.57
2014/1/9	16:22:26	0.02	38.55
2014/1/9	16:27:26	0.32	345.40
2014/1/9	16:32:26	0.02	357.77
2014/1/9	16:37:26	0.12	327.69
2014/1/9	16:42:26	0.02	17.60
2014/1/9	16:47:26	1.45	351.42
2014/1/9	16:52:26	0.02	346.18
2014/1/9	16:57:26	0.02	3.34
2014/1/9	17:02:26	0.02	264.96
2014/1/9	17:07:26	0.02	318.55
2014/1/9	17:12:26	0.35	50.92
2014/1/9	17:17:26	0.03	5.35
2014/1/9	17:22:26	0.02	21.73
2014/1/9	17:27:26	0.73	57.49
2014/1/9	17:32:26	0.02	38.77
2014/1/9	17:37:26	0.06	9.81
2014/1/9	17:42:26	0.90	4.35
2014/1/9	17:47:26	0.02	31.98
2014/1/9	17:52:26	0.02	24.29
2014/1/9	17:57:26	1.06	355.54
2014/1/9	18:02:26	0.87	72.53
2014/1/9	18:07:26	0.02	42.90

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/9	18:12:26	0.18	66.74
2014/1/9	18:17:26	1.51	69.30
2014/1/9	18:22:26	0.84	52.37
2014/1/9	18:27:26	0.15	6.91
2014/1/9	18:32:26	0.02	351.64
2014/1/9	18:37:26	0.31	49.14
2014/1/9	18:42:26	0.69	38.55
2014/1/9	18:47:26	0.37	35.10
2014/1/9	18:52:26	1.53	52.14
2014/1/9	18:57:26	0.03	247.58
2014/1/9	19:02:26	0.02	354.99
2014/1/9	19:07:26	0.02	49.58
2014/1/9	19:12:26	0.17	0.45
2014/1/9	19:17:26	0.02	27.19
2014/1/9	19:22:26	0.02	29.42
2014/1/9	19:27:26	0.02	257.72
2014/1/9	19:32:26	0.49	355.88
2014/1/9	19:37:26	0.40	8.02
2014/1/9	19:42:26	0.02	56.82
2014/1/9	19:47:26	0.02	28.97
2014/1/9	19:52:26	0.15	256.82
2014/1/9	19:57:26	0.02	35.65
2014/1/9	20:02:26	0.02	99.05
2014/1/9	20:07:26	0.02	119.78
2014/1/9	20:12:26	0.02	106.30
2014/1/9	20:17:26	0.02	129.36
2014/1/9	20:22:26	0.02	76.21
2014/1/9	20:27:26	0.02	166.13
2014/1/9	20:32:26	0.02	84.01
2014/1/9	20:37:26	0.02	83.90
2014/1/9	20:42:26	0.02	158.77
2014/1/9	20:47:26	0.08	129.47
2014/1/9	20:52:26	0.02	74.54
2014/1/9	20:57:26	0.02	-46.57
2014/1/9	21:02:26	0.50	74.32
2014/1/9	21:07:26	0.05	50.92
2014/1/9	21:12:26	1.38	120.56
2014/1/9	21:17:26	0.02	75.77
2014/1/9	21:22:26	0.54	152.31
2014/1/9	21:27:26	0.06	105.07
2014/1/9	21:32:26	0.75	178.16
2014/1/9	21:37:26	0.43	217.49
2014/1/9	21:42:26	0.05	191.64
2014/1/9	21:47:26	0.67	158.33
2014/1/9	21:52:26	1.45	293.93
2014/1/9	21:57:26	1.96	227.19

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/9	22:02:26	1.45	194.54
2014/1/9	22:07:26	0.08	294.15
2014/1/9	22:12:26	0.02	87.35
2014/1/9	22:17:26	0.02	68.08
2014/1/9	22:22:26	0.02	138.61
2014/1/9	22:27:26	0.02	55.38
2014/1/9	22:32:26	0.02	139.05
2014/1/9	22:37:26	0.15	132.26
2014/1/9	22:42:26	0.38	177.94
2014/1/9	22:47:26	1.48	235.43
2014/1/9	22:52:26	0.14	177.27
2014/1/9	22:57:26	0.05	87.13
2014/1/9	23:02:26	0.99	165.35
2014/1/9	23:07:26	0.34	108.19
2014/1/9	23:12:26	0.02	301.95
2014/1/9	23:17:26	0.96	204.68
2014/1/9	23:22:26	1.06	261.95
2014/1/9	23:27:26	0.32	105.07
2014/1/9	23:32:26	1.09	159.22
2014/1/9	23:37:26	0.02	165.91
2014/1/9	23:42:26	0.02	317.55
2014/1/9	23:47:26	0.02	17.94
2014/1/9	23:52:26	0.64	78.55
2014/1/9	23:57:26	0.24	204.46
2014/1/15	00:02:26	0.02	28.19
2014/1/15	00:07:26	0.37	249.69
2014/1/15	00:12:26	0.02	23.51
2014/1/15	00:17:26	0.02	56.94
2014/1/15	00:22:26	0.03	-6.69
2014/1/15	00:27:26	0.17	5.01
2014/1/15	00:32:26	0.02	74.87
2014/1/15	00:37:26	0.02	235.10
2014/1/15	00:42:26	0.02	132.14
2014/1/15	00:47:26	0.26	16.49
2014/1/15	00:52:26	0.02	252.59
2014/1/15	00:57:26	0.09	233.98
2014/1/15	01:02:26	0.02	334.82
2014/1/15	01:07:26	0.02	240.22
2014/1/15	01:12:26	0.02	276.88
2014/1/15	01:17:26	0.02	241.45
2014/1/15	01:22:26	0.02	77.10
2014/1/15	01:27:26	0.02	217.94
2014/1/15	01:32:26	0.61	205.79
2014/1/15	01:37:26	0.15	227.74
2014/1/15	01:42:26	0.02	357.88
2014/1/15	01:47:26	0.02	226.18

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/15	01:52:26	0.02	202.12
2014/1/15	01:57:26	1.06	262.40
2014/1/15	02:02:26	0.03	243.79
2014/1/15	02:07:26	0.02	239.22
2014/1/15	02:12:26	0.02	198.66
2014/1/15	02:17:26	0.15	291.81
2014/1/15	02:22:26	0.78	248.69
2014/1/15	02:27:26	0.02	234.09
2014/1/15	02:32:26	0.08	226.18
2014/1/15	02:37:26	0.11	300.95
2014/1/15	02:42:26	0.02	256.49
2014/1/15	02:47:26	0.29	306.96
2014/1/15	02:52:26	0.02	292.48
2014/1/15	02:57:26	0.09	251.81
2014/1/15	03:02:26	0.09	234.99
2014/1/15	03:07:26	0.02	233.43
2014/1/15	03:12:26	0.02	6.46
2014/1/15	03:17:26	0.11	292.81
2014/1/15	03:22:26	0.14	344.29
2014/1/15	03:27:26	0.12	231.31
2014/1/15	03:32:26	0.21	349.19
2014/1/15	03:37:26	0.02	100.06
2014/1/15	03:42:26	0.02	182.73
2014/1/15	03:47:26	0.31	211.81
2014/1/15	03:52:26	0.02	85.35
2014/1/15	03:57:26	0.02	214.93
2014/1/15	04:02:26	0.08	42.67
2014/1/15	04:07:26	0.28	11.03
2014/1/15	04:12:26	0.02	152.87
2014/1/15	04:17:26	0.02	230.08
2014/1/15	04:22:26	0.02	150.08
2014/1/15	04:27:26	0.23	159.22
2014/1/15	04:32:26	0.02	193.20
2014/1/15	04:37:26	0.02	86.57
2014/1/15	04:42:26	0.02	54.37
2014/1/15	04:47:26	0.02	27.63
2014/1/15	04:52:26	0.02	119.33
2014/1/15	04:57:26	0.02	86.80
2014/1/15	05:02:26	0.02	107.08
2014/1/15	05:07:26	0.02	28.86
2014/1/15	05:12:26	0.02	51.25
2014/1/15	05:17:26	0.02	250.03
2014/1/15	05:22:26	0.05	222.73
2014/1/15	05:27:26	0.05	117.66
2014/1/15	05:32:26	0.02	190.31
2014/1/15	05:37:26	0.64	234.99

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/15	05:42:26	0.73	220.95
2014/1/15	05:47:26	0.02	212.59
2014/1/15	05:52:26	0.20	170.36
2014/1/15	05:57:26	0.02	182.28
2014/1/15	06:02:26	0.08	4.01
2014/1/15	06:07:26	0.66	5.24
2014/1/15	06:12:26	0.29	169.03
2014/1/15	06:17:26	0.02	64.96
2014/1/15	06:22:26	0.18	125.91
2014/1/15	06:27:26	0.02	33.43
2014/1/15	06:32:26	0.41	62.62
2014/1/15	06:37:26	1.10	25.74
2014/1/15	06:42:26	0.87	225.52
2014/1/15	06:47:26	0.02	264.85
2014/1/15	06:52:26	0.40	199.78
2014/1/15	06:57:26	0.08	225.85
2014/1/15	07:02:26	0.02	77.77
2014/1/15	07:07:26	0.21	294.93
2014/1/15	07:12:26	0.03	284.46
2014/1/15	07:17:26	0.03	271.20
2014/1/15	07:22:26	0.02	151.64
2014/1/15	07:27:26	0.09	66.52
2014/1/15	07:32:26	0.18	225.18
2014/1/15	07:37:26	0.02	54.48
2014/1/15	07:42:26	0.24	228.41
2014/1/15	07:47:26	0.02	229.97
2014/1/15	07:52:26	0.57	207.91
2014/1/15	07:57:26	0.02	314.76
2014/1/15	08:02:26	0.02	237.33
2014/1/15	08:07:26	0.02	342.73
2014/1/15	08:12:26	0.23	263.18
2014/1/15	08:17:26	0.02	70.08
2014/1/15	08:22:26	0.02	340.84
2014/1/15	08:27:26	1.85	138.72
2014/1/15	08:32:26	0.02	256.71
2014/1/15	08:37:26	0.09	225.18
2014/1/15	08:42:26	0.02	143.40
2014/1/15	08:47:26	0.02	72.87
2014/1/15	08:52:26	0.02	130.14
2014/1/15	08:57:26	0.02	0.22
2014/1/15	09:02:26	0.02	283.57
2014/1/15	09:07:26	0.02	59.61
2014/1/15	09:12:26	0.02	349.86
2014/1/15	09:17:26	0.23	35.10
2014/1/15	09:22:26	1.01	28.41
2014/1/15	09:27:26	0.02	319.33

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/15	09:32:26	0.69	24.40
2014/1/15	09:37:26	0.81	13.70
2014/1/15	09:42:26	0.46	10.58
2014/1/15	09:47:26	0.02	351.31
2014/1/15	09:52:26	0.31	32.20
2014/1/15	09:57:26	0.03	17.49
2014/1/15	10:02:26	0.78	67.74
2014/1/15	10:07:26	0.92	79.67
2014/1/15	10:12:26	1.64	71.64
2014/1/15	10:17:26	0.76	58.16
2014/1/15	10:22:26	0.26	341.28
2014/1/15	10:27:26	2.05	34.21
2014/1/15	10:32:26	1.30	85.46
2014/1/15	10:37:26	0.12	355.99
2014/1/15	10:42:26	0.44	353.54
2014/1/15	10:47:26	0.87	62.28
2014/1/15	10:52:26	0.70	58.50
2014/1/15	10:57:26	1.41	344.40
2014/1/15	11:02:26	0.11	80.11
2014/1/15	11:07:26	1.64	64.85
2014/1/15	11:12:26	0.37	35.10
2014/1/15	11:17:26	0.06	324.68
2014/1/15	11:22:26	0.41	36.32
2014/1/15	11:27:26	0.02	334.15
2014/1/15	11:32:26	0.02	356.10
2014/1/15	11:37:26	0.49	54.26
2014/1/15	11:42:26	0.24	206.69
2014/1/15	11:47:26	0.02	224.07
2014/1/15	11:52:26	0.02	230.19
2014/1/15	11:57:26	0.02	285.35
2014/1/15	12:02:26	0.72	61.50
2014/1/15	12:07:26	0.06	136.82
2014/1/15	12:12:26	1.19	42.01
2014/1/15	12:17:26	0.03	112.65
2014/1/15	12:22:26	1.44	150.97
2014/1/15	12:27:26	1.61	85.68
2014/1/15	12:32:26	1.99	80.11
2014/1/15	12:37:26	1.10	55.60
2014/1/15	12:42:26	0.11	177.83
2014/1/15	12:47:26	0.89	49.92
2014/1/15	12:52:26	0.15	125.46
2014/1/15	12:57:26	0.09	31.20
2014/1/15	13:02:26	0.93	127.47
2014/1/15	13:07:26	0.38	256.60
2014/1/15	13:12:26	1.76	71.64
2014/1/15	13:17:26	1.22	41.00

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/15	13:22:26	0.06	45.01
2014/1/15	13:27:26	0.26	118.77
2014/1/15	13:32:26	1.06	93.48
2014/1/15	13:37:26	0.44	119.55
2014/1/15	13:42:26	0.60	247.69
2014/1/15	13:47:26	1.41	225.85
2014/1/15	13:52:26	0.61	162.45
2014/1/15	13:57:26	2.06	289.47
2014/1/15	14:02:26	0.95	155.77
2014/1/15	14:07:26	0.06	321.34
2014/1/15	14:12:26	1.65	286.57
2014/1/15	14:17:26	0.02	272.31
2014/1/15	14:22:26	0.06	201.89
2014/1/15	14:27:26	0.92	118.55
2014/1/15	14:32:26	1.02	33.20
2014/1/15	14:37:26	0.34	38.33
2014/1/15	14:42:26	0.03	290.25
2014/1/15	14:47:26	3.59	87.47
2014/1/15	14:52:26	1.97	186.30
2014/1/15	14:57:26	1.07	134.04
2014/1/15	15:02:26	0.41	284.79
2014/1/15	15:07:26	0.43	126.35
2014/1/15	15:12:26	0.21	250.92
2014/1/15	15:17:26	0.95	156.66
2014/1/15	15:22:26	0.95	92.48
2014/1/15	15:27:26	1.01	151.75
2014/1/15	15:32:26	0.03	114.76
2014/1/15	15:37:26	0.08	177.60
2014/1/15	15:42:26	0.35	81.67
2014/1/15	15:47:26	0.64	210.14
2014/1/15	15:52:26	0.11	122.79
2014/1/15	15:57:26	1.80	89.69
2014/1/15	16:02:26	1.54	99.16
2014/1/15	16:07:26	0.32	139.50
2014/1/15	16:12:26	0.81	120.33
2014/1/15	16:17:26	2.65	138.61
2014/1/15	16:22:26	0.06	165.57
2014/1/15	16:27:26	3.20	189.97
2014/1/15	16:32:26	0.15	192.20
2014/1/15	16:37:26	1.06	139.28
2014/1/15	16:42:26	0.03	275.21
2014/1/15	16:47:26	0.75	258.50
2014/1/15	16:52:26	0.43	114.65
2014/1/15	16:57:26	0.02	165.24
2014/1/15	17:02:26	0.47	289.92
2014/1/15	17:07:26	1.04	168.58

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/15	17:12:26	0.24	219.61
2014/1/15	17:17:26	0.02	355.99
2014/1/15	17:22:26	2.14	169.47
2014/1/15	17:27:26	0.08	219.39
2014/1/15	17:32:26	0.02	126.91
2014/1/15	17:37:26	0.08	222.51
2014/1/15	17:42:26	0.15	203.57
2014/1/15	17:47:26	0.02	178.83
2014/1/15	17:52:26	0.02	173.04
2014/1/15	17:57:26	0.93	239.00
2014/1/15	18:02:26	0.03	178.61
2014/1/15	18:07:26	0.34	218.27
2014/1/15	18:12:26	0.02	135.49
2014/1/15	18:17:26	0.02	167.13
2014/1/15	18:22:26	0.31	193.65
2014/1/15	18:27:26	0.67	247.35
2014/1/15	18:32:26	0.02	100.28
2014/1/15	18:37:26	0.02	119.55
2014/1/15	18:42:26	0.02	151.53
2014/1/15	18:47:26	0.37	190.53
2014/1/15	18:52:26	0.12	113.87
2014/1/15	18:57:26	0.02	126.80
2014/1/15	19:02:26	0.02	113.65
2014/1/15	19:07:26	0.21	195.65
2014/1/15	19:12:26	0.02	179.61
2014/1/15	19:17:26	0.57	225.40
2014/1/15	19:22:26	0.02	101.62
2014/1/15	19:27:26	0.24	140.61
2014/1/15	19:32:26	0.08	167.69
2014/1/15	19:37:26	0.20	69.97
2014/1/15	19:42:26	0.37	66.74
2014/1/15	19:47:26	0.41	100.17
2014/1/15	19:52:26	0.12	234.09
2014/1/15	19:57:26	0.61	65.07
2014/1/15	20:02:26	0.90	142.84
2014/1/15	20:07:26	0.02	91.25
2014/1/15	20:12:26	0.18	49.47
2014/1/15	20:17:26	0.08	112.42
2014/1/15	20:22:26	0.14	96.16
2014/1/15	20:27:26	0.60	181.17
2014/1/15	20:32:26	0.02	143.06
2014/1/15	20:37:26	0.34	176.60
2014/1/15	20:42:26	0.02	42.23
2014/1/15	20:47:26	0.02	167.58
2014/1/15	20:52:26	0.08	153.65
2014/1/15	20:57:26	0.05	114.54

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/15	21:02:26	0.95	164.46
2014/1/15	21:07:26	0.31	64.74
2014/1/15	21:12:26	0.05	67.86
2014/1/15	21:17:26	0.02	96.60
2014/1/15	21:22:26	0.02	88.25
2014/1/15	21:27:26	0.02	214.26
2014/1/15	21:32:26	0.08	109.97
2014/1/15	21:37:26	0.55	143.96
2014/1/15	21:42:26	0.02	120.67
2014/1/15	21:47:26	0.02	101.17
2014/1/15	21:52:26	0.50	100.39
2014/1/15	21:57:26	0.44	115.99
2014/1/15	22:02:26	0.20	102.06
2014/1/15	22:07:26	0.02	181.39
2014/1/15	22:12:26	1.51	81.11
2014/1/15	22:17:26	1.32	119.22
2014/1/15	22:22:26	0.18	61.28
2014/1/15	22:27:26	0.55	111.53
2014/1/15	22:32:26	0.08	96.82
2014/1/15	22:37:26	0.46	175.26
2014/1/15	22:42:26	0.02	110.86
2014/1/15	22:47:26	0.61	156.77
2014/1/15	22:52:26	0.02	27.08
2014/1/15	22:57:26	0.29	124.23
2014/1/15	23:02:26	0.11	88.91
2014/1/15	23:07:26	0.26	129.36
2014/1/15	23:12:26	0.17	209.92
2014/1/15	23:17:26	0.32	172.03
2014/1/15	23:22:26	0.02	72.76
2014/1/15	23:27:26	0.03	75.10
2014/1/15	23:32:26	0.32	88.91
2014/1/15	23:37:26	0.05	70.19
2014/1/15	23:42:26	0.02	65.85
2014/1/15	23:47:26	0.02	60.50
2014/1/15	23:52:26	0.03	44.90
2014/1/15	23:57:26	0.08	109.19
2014/1/21	00:02:26	0.24	219.39
2014/1/21	00:07:26	0.02	306.74
2014/1/21	00:12:26	0.02	287.24
2014/1/21	00:17:26	0.02	268.86
2014/1/21	00:22:26	0.05	35.21
2014/1/21	00:27:26	0.11	39.67
2014/1/21	00:32:26	0.05	226.18
2014/1/21	00:37:26	0.06	224.29
2014/1/21	00:42:26	0.02	235.65
2014/1/21	00:47:26	0.05	272.20

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/21	00:52:26	0.02	248.13
2014/1/21	00:57:26	0.72	32.31
2014/1/21	01:02:26	0.12	217.72
2014/1/21	01:07:26	0.17	275.88
2014/1/21	01:12:26	1.22	240.56
2014/1/21	01:17:26	0.02	238.77
2014/1/21	01:22:26	0.02	301.73
2014/1/21	01:27:26	0.12	245.57
2014/1/21	01:32:26	0.02	328.25
2014/1/21	01:37:26	0.05	29.08
2014/1/21	01:42:26	0.02	325.46
2014/1/21	01:47:26	0.95	256.71
2014/1/21	01:52:26	0.02	233.65
2014/1/21	01:57:26	0.03	179.94
2014/1/21	02:02:26	0.02	253.59
2014/1/21	02:07:26	0.02	230.64
2014/1/21	02:12:26	1.33	255.38
2014/1/21	02:17:26	0.43	343.96
2014/1/21	02:22:26	0.02	343.18
2014/1/21	02:27:26	0.02	249.03
2014/1/21	02:32:26	0.02	46.02
2014/1/21	02:37:26	0.02	210.47
2014/1/21	02:42:26	0.24	231.09
2014/1/21	02:47:26	0.08	219.05
2014/1/21	02:52:26	0.02	227.41
2014/1/21	02:57:26	0.02	63.40
2014/1/21	03:02:26	0.03	250.58
2014/1/21	03:07:26	0.02	105.07
2014/1/21	03:12:26	0.02	165.13
2014/1/21	03:17:26	0.02	178.83
2014/1/21	03:22:26	0.02	253.59
2014/1/21	03:27:26	0.38	340.72
2014/1/21	03:32:26	0.02	2.34
2014/1/21	03:37:26	1.04	254.26
2014/1/21	03:42:26	0.24	227.41
2014/1/21	03:47:26	0.02	241.56
2014/1/21	03:52:26	0.26	239.55
2014/1/21	03:57:26	2.03	342.17
2014/1/21	04:02:26	0.20	70.53
2014/1/21	04:07:26	0.02	230.19
2014/1/21	04:12:26	0.20	346.07
2014/1/21	04:17:26	0.23	21.50
2014/1/21	04:22:26	0.12	279.11
2014/1/21	04:27:26	0.84	341.50
2014/1/21	04:32:26	0.08	250.70
2014/1/21	04:37:26	0.02	18.83

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/21	04:42:26	0.03	344.51
2014/1/21	04:47:26	0.18	252.59
2014/1/21	04:52:26	0.02	214.71
2014/1/21	04:57:26	0.23	239.55
2014/1/21	05:02:26	0.46	247.47
2014/1/21	05:07:26	0.44	349.75
2014/1/21	05:12:26	0.09	228.86
2014/1/21	05:17:26	0.52	220.28
2014/1/21	05:22:26	0.11	229.53
2014/1/21	05:27:26	0.02	235.54
2014/1/21	05:32:26	0.17	207.91
2014/1/21	05:37:26	0.23	287.91
2014/1/21	05:42:26	0.02	184.07
2014/1/21	05:47:26	0.41	253.70
2014/1/21	05:52:26	0.21	250.36
2014/1/21	05:57:26	0.02	343.96
2014/1/21	06:02:26	0.34	227.63
2014/1/21	06:07:26	0.02	225.63
2014/1/21	06:12:26	0.03	241.89
2014/1/21	06:17:26	0.02	291.92
2014/1/21	06:22:26	0.24	353.09
2014/1/21	06:27:26	0.08	304.51
2014/1/21	06:32:26	0.14	269.86
2014/1/21	06:37:26	0.02	16.94
2014/1/21	06:42:26	0.02	86.35
2014/1/21	06:47:26	0.02	53.26
2014/1/21	06:52:26	0.28	66.52
2014/1/21	06:57:26	0.31	59.61
2014/1/21	07:02:26	0.26	233.76
2014/1/21	07:07:26	0.12	234.76
2014/1/21	07:12:26	0.02	347.19
2014/1/21	07:17:26	0.20	310.86
2014/1/21	07:22:26	0.02	245.35
2014/1/21	07:27:26	0.02	278.11
2014/1/21	07:32:26	0.03	340.95
2014/1/21	07:37:26	0.02	148.30
2014/1/21	07:42:26	0.05	356.77
2014/1/21	07:47:26	0.02	340.50
2014/1/21	07:52:26	0.46	9.03
2014/1/21	07:57:26	0.08	347.74
2014/1/21	08:02:26	3.18	330.25
2014/1/21	08:07:26	0.31	347.19
2014/1/21	08:12:26	1.42	29.30
2014/1/21	08:17:26	0.02	272.53
2014/1/21	08:22:26	0.02	253.26
2014/1/21	08:27:26	0.02	287.58

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/21	08:32:26	0.96	39.22
2014/1/21	08:37:26	0.03	22.62
2014/1/21	08:42:26	0.35	322.23
2014/1/21	08:47:26	0.02	320.67
2014/1/21	08:52:26	2.46	355.88
2014/1/21	08:57:26	0.02	276.10
2014/1/21	09:02:26	0.08	76.66
2014/1/21	09:07:26	0.02	67.41
2014/1/21	09:12:26	0.20	335.71
2014/1/21	09:17:26	0.02	312.42
2014/1/21	09:22:26	0.58	43.12
2014/1/21	09:27:26	0.15	54.60
2014/1/21	09:32:26	0.26	48.91
2014/1/21	09:37:26	1.79	52.59
2014/1/21	09:42:26	1.67	32.65
2014/1/21	09:47:26	0.06	355.32
2014/1/21	09:52:26	2.42	70.53
2014/1/21	09:57:26	0.02	184.96
2014/1/21	10:02:26	1.59	34.87
2014/1/21	10:07:26	0.41	9.47
2014/1/21	10:12:26	0.37	354.43
2014/1/21	10:17:26	1.82	34.54
2014/1/21	10:22:26	1.22	330.14
2014/1/21	10:27:26	0.08	340.39
2014/1/21	10:32:26	0.02	126.13
2014/1/21	10:37:26	2.97	51.14
2014/1/21	10:42:26	1.09	18.16
2014/1/21	10:47:26	0.26	55.49
2014/1/21	10:52:26	0.37	351.42
2014/1/21	10:57:26	1.36	31.09
2014/1/21	11:02:26	1.21	-47.35
2014/1/21	11:07:26	0.47	31.20
2014/1/21	11:12:26	0.02	219.39
2014/1/21	11:17:26	0.23	23.29
2014/1/21	11:22:26	1.10	2.12
2014/1/21	11:27:26	0.76	3.34
2014/1/21	11:30:38	1.04	343.73
2014/1/21	11:35:38	0.02	318.44
2014/1/21	11:40:38	1.59	20.50
2014/1/21	11:45:38	0.05	16.16
2014/1/21	11:50:38	1.76	7.24
2014/1/21	11:55:38	0.21	16.82
2014/1/21	12:00:38	0.99	341.73
2014/1/21	12:05:38	0.02	257.83
2014/1/21	12:10:38	0.17	289.81
2014/1/21	12:15:38	1.09	346.85

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/21	12:20:38	0.58	-26.30
2014/1/21	12:25:38	1.01	353.09
2014/1/21	12:30:38	0.50	42.45
2014/1/21	12:35:38	1.65	354.43
2014/1/21	12:40:38	0.80	325.35
2014/1/21	12:45:38	0.38	41.56
2014/1/21	12:50:38	0.03	76.55
2014/1/21	12:55:38	0.99	320.00
2014/1/21	13:00:38	0.40	23.18
2014/1/21	13:05:38	0.02	283.12
2014/1/21	13:10:38	0.35	217.16
2014/1/21	13:15:38	1.06	313.31
2014/1/21	13:20:38	0.95	346.85
2014/1/21	13:25:38	0.05	306.96
2014/1/21	13:30:38	1.73	350.97
2014/1/21	13:35:38	0.49	23.62
2014/1/21	13:40:38	0.89	55.49
2014/1/21	13:45:38	0.93	347.86
2014/1/21	13:50:38	0.05	341.84
2014/1/21	13:55:38	0.41	339.83
2014/1/21	14:00:38	0.17	69.42
2014/1/21	14:05:38	0.09	346.96
2014/1/21	14:10:38	0.02	28.86
2014/1/21	14:15:38	0.54	317.99
2014/1/21	14:20:38	0.14	323.68
2014/1/21	14:25:38	0.02	350.42
2014/1/21	14:30:38	0.28	23.51
2014/1/21	14:35:38	0.93	350.86
2014/1/21	14:40:38	0.73	33.09
2014/1/21	14:45:38	0.02	198.33
2014/1/21	14:50:38	0.09	16.38
2014/1/21	14:55:38	4.13	350.53
2014/1/21	15:00:38	1.27	353.09
2014/1/21	15:05:38	0.90	339.28
2014/1/21	15:10:38	1.12	1.34
2014/1/21	15:15:38	0.46	10.14
2014/1/21	15:20:38	0.26	342.28
2014/1/21	15:25:38	0.44	345.40
2014/1/21	15:30:38	0.86	55.93
2014/1/21	15:35:38	0.17	354.09
2014/1/21	15:40:38	0.02	283.68
2014/1/21	15:45:38	0.80	350.08
2014/1/21	15:50:38	1.07	6.35
2014/1/21	15:55:38	0.05	11.14
2014/1/21	16:00:38	0.32	68.52
2014/1/21	16:05:38	0.46	348.64

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/21	16:10:38	0.06	9.58
2014/1/21	16:15:38	0.03	8.58
2014/1/21	16:20:38	0.80	-47.58
2014/1/21	16:25:38	0.05	353.87
2014/1/21	16:30:38	0.31	323.34
2014/1/21	16:35:38	0.02	185.96
2014/1/21	16:40:38	0.23	354.76
2014/1/21	16:45:38	0.03	300.06
2014/1/21	16:50:38	0.02	1.23
2014/1/21	16:55:38	1.35	347.86
2014/1/21	17:00:38	0.46	10.36
2014/1/21	17:05:38	0.26	197.44
2014/1/21	17:10:38	0.02	251.92
2014/1/21	17:15:38	0.05	252.48
2014/1/21	17:20:38	0.02	2.56
2014/1/21	17:25:38	0.02	317.33
2014/1/21	17:30:38	0.02	231.64
2014/1/21	17:35:38	0.21	251.59
2014/1/21	17:40:38	0.64	256.16
2014/1/21	17:45:38	0.02	239.11
2014/1/21	17:50:38	0.02	275.32
2014/1/21	17:55:38	0.02	220.28
2014/1/21	18:00:38	0.02	230.19
2014/1/21	18:05:38	0.11	212.70
2014/1/21	18:10:38	0.21	240.33
2014/1/21	18:15:38	0.02	167.69
2014/1/21	18:20:38	0.05	58.83
2014/1/21	18:25:38	0.20	228.30
2014/1/21	18:30:38	0.24	215.04
2014/1/21	18:35:38	0.02	196.99
2014/1/21	18:40:38	0.66	226.63
2014/1/21	18:45:38	0.02	190.64
2014/1/21	18:50:38	0.02	155.54
2014/1/21	18:55:38	0.24	182.51
2014/1/21	19:00:38	0.02	227.30
2014/1/21	19:05:38	0.02	180.84
2014/1/21	19:10:38	0.02	180.72
2014/1/21	19:15:38	0.02	159.78
2014/1/21	19:20:38	0.14	219.72
2014/1/21	19:25:38	0.02	194.32
2014/1/21	19:30:38	0.32	206.24
2014/1/21	19:35:38	0.17	230.53
2014/1/21	19:40:38	0.08	225.07
2014/1/21	19:45:38	0.03	176.27
2014/1/21	19:50:38	0.02	182.06
2014/1/21	19:55:38	0.02	163.34

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/21	20:00:38	0.02	183.29
2014/1/21	20:05:38	0.03	170.14
2014/1/21	20:10:38	0.08	236.32
2014/1/21	20:15:38	0.02	178.38
2014/1/21	20:20:38	0.02	118.77
2014/1/21	20:25:38	0.02	38.89
2014/1/21	20:30:38	0.02	212.81
2014/1/21	20:35:38	0.23	221.39
2014/1/21	20:40:38	0.02	225.07
2014/1/21	20:45:38	0.28	220.50
2014/1/21	20:50:38	0.63	213.04
2014/1/21	20:55:38	0.80	237.44
2014/1/21	21:00:38	0.02	188.75
2014/1/21	21:05:38	0.02	193.20
2014/1/21	21:10:38	0.02	198.44
2014/1/21	21:15:38	0.02	135.38
2014/1/21	21:20:38	0.02	237.44
2014/1/21	21:25:38	0.46	210.81
2014/1/21	21:30:38	0.02	158.55
2014/1/21	21:35:38	0.02	190.08
2014/1/21	21:40:38	0.35	203.12
2014/1/21	21:45:38	0.02	217.16
2014/1/21	21:50:38	0.02	167.69
2014/1/21	21:55:38	0.02	152.20
2014/1/21	22:00:38	0.02	146.07
2014/1/21	22:05:38	0.02	171.70
2014/1/21	22:10:38	0.02	156.10
2014/1/21	22:15:38	0.40	191.09
2014/1/21	22:20:38	0.28	139.61
2014/1/21	22:25:38	0.15	67.52
2014/1/21	22:30:38	0.02	18.05
2014/1/21	22:35:38	0.08	1.34
2014/1/21	22:40:38	0.02	57.94
2014/1/21	22:45:38	0.15	224.18
2014/1/21	22:50:38	0.03	165.01
2014/1/21	22:55:38	0.93	132.70
2014/1/21	23:00:38	0.02	87.69
2014/1/21	23:05:38	0.26	141.62
2014/1/21	23:10:38	0.35	241.34
2014/1/21	23:15:38	0.08	227.97
2014/1/21	23:20:38	0.72	208.47
2014/1/21	23:25:38	0.02	251.59
2014/1/21	23:30:38	0.11	219.61
2014/1/21	23:35:38	0.95	203.12
2014/1/21	23:40:38	0.84	235.65
2014/1/21	23:45:38	0.41	243.57

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/21	23:50:38	0.02	240.11
2014/1/21	23:55:38	0.02	245.01
2014/1/27	00:00:38	0.66	190.86
2014/1/27	00:05:38	3.61	119.22
2014/1/27	00:10:38	0.66	305.40
2014/1/27	00:15:38	0.28	6.35
2014/1/27	00:20:38	0.98	186.63
2014/1/27	00:25:38	3.23	163.79
2014/1/27	00:30:38	2.48	61.06
2014/1/27	00:35:38	1.48	191.20
2014/1/27	00:40:38	1.44	187.08
2014/1/27	00:45:38	3.79	156.43
2014/1/27	00:50:38	0.64	97.16
2014/1/27	00:55:38	3.82	181.28
2014/1/27	01:00:38	0.38	118.77
2014/1/27	01:05:38	5.06	201.23
2014/1/27	01:10:38	4.89	198.55
2014/1/27	01:15:38	5.92	180.72
2014/1/27	01:20:38	7.04	196.32
2014/1/27	01:25:38	5.64	232.42
2014/1/27	01:30:38	2.49	145.63
2014/1/27	01:35:38	0.95	128.47
2014/1/27	01:40:38	5.22	50.25
2014/1/27	01:45:38	0.61	212.48
2014/1/27	01:50:38	1.30	146.52
2014/1/27	01:55:38	0.86	89.25
2014/1/27	02:00:38	4.24	57.49
2014/1/27	02:05:38	4.62	136.60
2014/1/27	02:10:38	3.14	77.33
2014/1/27	02:15:38	2.81	84.90
2014/1/27	02:20:38	0.23	14.60
2014/1/27	02:25:38	1.42	-3.12
2014/1/27	02:30:38	0.02	117.33
2014/1/27	02:35:38	0.06	61.73
2014/1/27	02:40:38	0.34	238.77
2014/1/27	02:45:38	0.81	314.87
2014/1/27	02:50:38	0.37	134.15
2014/1/27	02:55:38	0.66	88.13
2014/1/27	03:00:38	1.41	13.70
2014/1/27	03:05:38	0.54	28.97
2014/1/27	03:10:38	0.61	132.48
2014/1/27	03:15:38	0.63	36.21
2014/1/27	03:20:38	0.11	121.23
2014/1/27	03:25:38	5.84	151.09
2014/1/27	03:30:38	3.49	196.55
2014/1/27	03:35:38	1.58	133.15

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/27	03:40:38	1.33	140.72
2014/1/27	03:45:38	3.55	202.12
2014/1/27	03:50:38	5.15	211.92
2014/1/27	03:55:38	1.30	195.43
2014/1/27	04:00:38	1.16	233.87
2014/1/27	04:05:38	3.21	35.77
2014/1/27	04:10:38	11.38	66.74
2014/1/27	04:15:38	2.95	168.80
2014/1/27	04:20:38	0.98	254.37
2014/1/27	04:25:38	1.42	96.49
2014/1/27	04:30:38	0.63	264.29
2014/1/27	04:35:38	1.76	121.11
2014/1/27	04:40:38	4.40	290.47
2014/1/27	04:45:38	6.61	158.33
2014/1/27	04:50:38	3.62	144.51
2014/1/27	04:55:38	4.31	143.73
2014/1/27	05:00:38	2.40	173.70
2014/1/27	05:05:38	7.48	73.65
2014/1/27	05:10:38	2.17	80.33
2014/1/27	05:15:38	1.21	60.28
2014/1/27	05:20:38	0.06	70.75
2014/1/27	05:25:38	4.25	158.66
2014/1/27	05:30:38	0.06	113.43
2014/1/27	05:35:38	1.35	106.41
2014/1/27	05:40:38	3.61	122.79
2014/1/27	05:45:38	3.14	145.74
2014/1/27	05:50:38	2.54	162.12
2014/1/27	05:55:38	0.14	347.19
2014/1/27	06:00:38	0.81	127.80
2014/1/27	06:05:38	0.90	155.32
2014/1/27	06:10:38	1.15	202.45
2014/1/27	06:15:38	1.32	80.22
2014/1/27	06:20:38	3.87	164.35
2014/1/27	06:25:38	1.07	87.13
2014/1/27	06:30:38	0.76	190.75
2014/1/27	06:35:38	0.47	217.16
2014/1/27	06:40:38	0.72	224.18
2014/1/27	06:45:38	2.06	197.10
2014/1/27	06:50:38	0.84	122.23
2014/1/27	06:55:38	1.97	177.72
2014/1/27	07:00:38	0.12	50.58
2014/1/27	07:05:38	0.67	170.36
2014/1/27	07:10:38	2.36	218.61
2014/1/27	07:15:38	0.60	66.74
2014/1/27	07:20:38	0.44	146.18
2014/1/27	07:25:38	1.24	53.26

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/27	07:30:38	0.81	63.73
2014/1/27	07:35:38	3.99	85.91
2014/1/27	07:40:38	0.21	312.65
2014/1/27	07:45:38	0.20	77.99
2014/1/27	07:50:38	0.75	166.46
2014/1/27	07:55:38	0.02	174.26
2014/1/27	08:00:38	0.02	97.05
2014/1/27	08:05:38	0.02	285.91
2014/1/27	08:10:38	0.28	142.51
2014/1/27	08:15:38	0.02	95.26
2014/1/27	08:20:38	0.15	139.05
2014/1/27	08:25:38	0.02	98.16
2014/1/27	08:30:38	1.30	123.12
2014/1/27	08:35:38	0.17	54.04
2014/1/27	08:40:38	1.09	168.25
2014/1/27	08:45:38	0.46	44.57
2014/1/27	08:50:38	0.86	139.39
2014/1/27	08:55:38	0.95	135.71
2014/1/27	09:00:38	0.63	139.72
2014/1/27	09:05:38	0.24	107.86
2014/1/27	09:10:38	0.02	270.75
2014/1/27	09:15:38	0.02	106.41
2014/1/27	09:20:38	0.28	91.81
2014/1/27	09:25:38	0.41	55.71
2014/1/27	09:30:38	0.32	103.06
2014/1/27	09:35:38	1.35	47.80
2014/1/27	09:40:38	0.23	78.66
2014/1/27	09:45:38	0.12	49.92
2014/1/27	09:50:38	0.80	64.40
2014/1/27	09:55:38	1.32	103.29
2014/1/27	10:00:38	1.50	151.31
2014/1/27	10:05:38	0.78	85.01
2014/1/27	10:10:38	1.70	130.81
2014/1/27	10:15:38	1.02	194.65
2014/1/27	10:20:38	0.05	160.78
2014/1/27	10:25:38	0.40	113.43
2014/1/27	10:30:38	2.08	62.06
2014/1/27	10:35:38	0.44	28.97
2014/1/27	10:40:38	0.02	69.42
2014/1/27	10:45:38	0.89	71.31
2014/1/27	10:50:38	0.60	124.01
2014/1/27	10:55:38	0.02	196.66
2014/1/27	11:00:38	0.02	7.80
2014/1/27	11:05:38	0.02	145.07
2014/1/27	11:10:38	0.02	284.46
2014/1/27	11:15:38	0.23	8.58

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/27	11:20:38	0.73	116.99
2014/1/27	11:25:38	0.26	152.20
2014/1/27	11:30:38	0.95	202.90
2014/1/27	11:35:38	1.77	189.08
2014/1/27	11:40:38	1.79	129.92
2014/1/27	11:45:38	0.21	149.64
2014/1/27	11:50:38	2.42	182.28
2014/1/27	11:55:38	1.22	97.27
2014/1/27	12:00:38	0.86	141.62
2014/1/27	12:05:38	0.02	348.64
2014/1/27	12:10:38	0.70	75.21
2014/1/27	12:15:38	1.28	181.39
2014/1/27	12:20:38	0.11	89.36
2014/1/27	12:25:38	0.46	127.02
2014/1/27	12:30:38	1.67	182.17
2014/1/27	12:35:38	0.44	106.18
2014/1/27	12:40:38	2.88	65.29
2014/1/27	12:45:38	0.69	191.31
2014/1/27	12:50:38	0.72	206.02
2014/1/27	12:55:38	2.08	208.25
2014/1/27	13:00:38	0.34	65.74
2014/1/27	13:05:38	0.49	232.65
2014/1/27	13:10:38	0.02	325.46
2014/1/27	13:15:38	1.84	168.80
2014/1/27	13:20:38	0.70	258.50
2014/1/27	13:25:38	1.36	159.89
2014/1/27	13:30:38	0.02	135.26
2014/1/27	13:35:38	0.11	88.13
2014/1/27	13:40:38	0.14	185.96
2014/1/27	13:45:38	0.03	177.60
2014/1/27	13:50:38	0.15	46.02
2014/1/27	13:55:38	0.09	15.71
2014/1/27	14:00:38	2.16	187.86
2014/1/27	14:05:38	0.55	56.82
2014/1/27	14:10:38	0.02	197.88
2014/1/27	14:15:38	0.49	105.40
2014/1/27	14:20:38	0.76	64.85
2014/1/27	14:25:38	0.02	233.65
2014/1/27	14:30:38	0.58	157.21
2014/1/27	14:35:38	0.02	177.05
2014/1/27	14:40:38	0.44	152.20
2014/1/27	14:45:38	0.02	26.85
2014/1/27	14:50:38	0.58	232.98
2014/1/27	14:55:38	1.15	149.08
2014/1/27	15:00:38	0.20	57.83
2014/1/27	15:05:38	0.05	85.46

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/27	15:10:38	0.02	189.97
2014/1/27	15:15:38	0.02	157.21
2014/1/27	15:20:38	0.02	83.57
2014/1/27	15:25:38	0.38	176.71
2014/1/27	15:30:38	0.70	117.77
2014/1/27	15:35:38	0.37	193.76
2014/1/27	15:40:38	0.03	101.50
2014/1/27	15:45:38	0.46	192.42
2014/1/27	15:50:38	0.40	159.55
2014/1/27	15:55:38	0.02	117.44
2014/1/27	16:00:38	0.44	157.44
2014/1/27	16:05:38	0.02	50.36
2014/1/27	16:10:38	0.11	311.75
2014/1/27	16:15:38	0.43	132.81
2014/1/27	16:20:38	0.03	205.13
2014/1/27	16:25:38	0.02	36.43
2014/1/27	16:30:38	0.23	139.61
2014/1/27	16:35:38	0.02	120.67
2014/1/27	16:40:38	0.02	38.77
2014/1/27	16:45:38	0.02	246.57
2014/1/27	16:50:38	0.02	14.93
2014/1/27	16:55:38	0.02	170.03
2014/1/27	17:00:38	0.02	179.16
2014/1/27	17:05:38	0.02	112.98
2014/1/27	17:10:38	0.12	185.63
2014/1/27	17:15:38	0.02	163.12
2014/1/27	17:20:38	0.67	37.21
2014/1/27	17:25:38	0.02	105.29
2014/1/27	17:30:38	0.02	116.66
2014/1/27	17:35:38	0.29	156.66
2014/1/27	17:40:38	0.06	113.20
2014/1/27	17:45:38	0.28	91.70
2014/1/27	17:50:38	0.84	129.58
2014/1/27	17:55:38	0.02	167.24
2014/1/27	18:00:38	0.02	221.50
2014/1/27	18:05:38	0.02	101.39
2014/1/27	18:10:38	0.20	100.50
2014/1/27	18:15:38	0.44	123.34
2014/1/27	18:20:38	0.02	81.56
2014/1/27	18:25:38	0.41	68.30
2014/1/27	18:30:38	0.78	167.35
2014/1/27	18:35:38	0.11	133.82
2014/1/27	18:40:38	0.32	58.27
2014/1/27	18:45:38	0.66	105.29
2014/1/27	18:50:38	0.24	107.19
2014/1/27	18:55:38	0.47	122.67

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/27	19:00:38	0.29	146.63
2014/1/27	19:05:38	0.02	224.29
2014/1/27	19:10:38	1.04	205.68
2014/1/27	19:15:38	0.02	154.76
2014/1/27	19:20:38	0.38	111.31
2014/1/27	19:25:38	0.73	167.13
2014/1/27	19:30:38	0.02	97.60
2014/1/27	19:35:38	0.03	125.01
2014/1/27	19:40:38	0.02	41.78
2014/1/27	19:45:38	0.02	105.07
2014/1/27	19:50:38	0.03	139.16
2014/1/27	19:55:38	0.02	60.06
2014/1/27	20:00:38	0.02	122.45
2014/1/27	20:05:38	0.90	38.11
2014/1/27	20:10:38	0.90	128.02
2014/1/27	20:15:38	0.35	156.66
2014/1/27	20:20:38	0.03	230.42
2014/1/27	20:25:38	0.02	127.13
2014/1/27	20:30:38	0.55	130.25
2014/1/27	20:35:38	0.02	3.68
2014/1/27	20:40:38	0.34	171.03
2014/1/27	20:45:38	0.02	99.28
2014/1/27	20:50:38	0.02	13.93
2014/1/27	20:55:38	0.83	80.11
2014/1/27	21:00:38	0.08	128.25
2014/1/27	21:05:38	0.69	146.74
2014/1/27	21:10:38	0.60	104.96
2014/1/27	21:15:38	0.06	145.07
2014/1/27	21:20:38	0.02	183.96
2014/1/27	21:25:38	0.02	254.71
2014/1/27	21:30:38	0.02	67.08
2014/1/27	21:35:38	0.02	25.52
2014/1/27	21:40:38	0.02	54.82
2014/1/27	21:45:38	0.73	81.45
2014/1/27	21:50:38	0.18	71.20
2014/1/27	21:55:38	1.61	60.61
2014/1/27	22:00:38	0.02	48.58
2014/1/27	22:05:38	0.26	56.49
2014/1/27	22:10:38	0.99	72.53
2014/1/27	22:15:38	0.02	98.16
2014/1/27	22:20:38	1.25	47.02
2014/1/27	22:25:38	1.10	69.97
2014/1/27	22:30:38	0.21	55.60
2014/1/27	22:35:38	0.05	92.70
2014/1/27	22:40:38	0.31	162.90
2014/1/27	22:45:38	0.05	108.30

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/27	22:50:38	0.50	106.41
2014/1/27	22:55:38	0.21	104.51
2014/1/27	23:00:38	0.61	83.79
2014/1/27	23:05:38	0.02	31.31
2014/1/27	23:10:38	0.21	114.54
2014/1/27	23:15:38	0.38	71.64
2014/1/27	23:20:38	0.08	58.38
2014/1/27	23:25:38	0.23	94.37
2014/1/27	23:30:38	0.50	71.53
2014/1/27	23:35:38	0.05	102.17
2014/1/27	23:40:38	0.02	126.35
2014/1/27	23:45:38	0.02	41.34
2014/1/27	23:50:38	0.41	46.13
2014/1/27	23:55:38	0.81	62.06
2014/1/30	00:00:38	0.02	210.03
2014/1/30	00:05:38	0.02	212.59
2014/1/30	00:10:38	0.02	186.52
2014/1/30	00:15:38	0.67	215.15
2014/1/30	00:20:38	0.02	210.70
2014/1/30	00:25:38	0.02	189.19
2014/1/30	00:30:38	0.02	191.64
2014/1/30	00:35:38	0.15	243.23
2014/1/30	00:40:38	0.52	208.69
2014/1/30	00:45:38	0.02	176.16
2014/1/30	00:50:38	0.02	220.61
2014/1/30	00:55:38	0.05	216.71
2014/1/30	01:00:38	0.02	187.41
2014/1/30	01:05:38	0.05	217.16
2014/1/30	01:10:38	0.02	219.16
2014/1/30	01:15:38	0.02	215.04
2014/1/30	01:20:38	0.02	215.04
2014/1/30	01:25:38	0.02	215.04
2014/1/30	01:30:38	0.02	215.04
2014/1/30	01:35:38	0.02	215.04
2014/1/30	01:40:38	0.02	215.04
2014/1/30	01:45:38	0.02	233.98
2014/1/30	01:50:38	0.02	233.98
2014/1/30	01:55:38	0.02	233.98
2014/1/30	02:00:38	0.21	217.38
2014/1/30	02:05:38	0.02	213.59
2014/1/30	02:10:38	0.02	213.48
2014/1/30	02:15:38	0.02	190.64
2014/1/30	02:20:38	0.02	228.19
2014/1/30	02:25:38	0.02	248.25
2014/1/30	02:30:38	0.02	233.98
2014/1/30	02:35:38	0.02	233.98

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/30	02:40:38	0.02	233.20
2014/1/30	02:45:38	0.02	219.72
2014/1/30	02:50:38	0.02	220.28
2014/1/30	02:55:38	0.02	220.39
2014/1/30	03:00:38	0.02	211.36
2014/1/30	03:05:38	0.02	229.08
2014/1/30	03:10:38	0.02	229.08
2014/1/30	03:15:38	0.02	229.08
2014/1/30	03:20:38	0.02	229.08
2014/1/30	03:25:38	0.02	229.19
2014/1/30	03:30:38	0.02	229.19
2014/1/30	03:35:38	0.02	229.19
2014/1/30	03:40:38	0.08	229.08
2014/1/30	03:45:38	0.02	220.39
2014/1/30	03:50:38	0.02	220.39
2014/1/30	03:55:38	0.02	217.94
2014/1/30	04:00:38	0.02	217.94
2014/1/30	04:05:38	0.05	202.79
2014/1/30	04:10:38	0.02	190.86
2014/1/30	04:15:38	0.02	190.86
2014/1/30	04:20:38	0.02	190.97
2014/1/30	04:25:38	0.02	190.97
2014/1/30	04:30:38	0.02	190.97
2014/1/30	04:35:38	0.02	208.91
2014/1/30	04:40:38	0.02	212.81
2014/1/30	04:45:38	0.02	227.63
2014/1/30	04:50:38	0.02	199.33
2014/1/30	04:55:38	0.02	200.11
2014/1/30	05:00:38	0.02	200.11
2014/1/30	05:05:38	0.02	178.72
2014/1/30	05:10:38	0.47	176.60
2014/1/30	05:15:38	0.21	219.61
2014/1/30	05:20:38	0.02	211.59
2014/1/30	05:25:38	0.02	187.08
2014/1/30	05:30:38	0.02	186.63
2014/1/30	05:35:38	0.02	173.26
2014/1/30	05:40:38	0.02	173.37
2014/1/30	05:45:38	0.03	208.58
2014/1/30	05:50:38	0.02	208.91
2014/1/30	05:55:38	0.02	209.03
2014/1/30	06:00:38	0.02	135.15
2014/1/30	06:05:38	0.02	176.38
2014/1/30	06:10:38	0.02	160.22
2014/1/30	06:15:38	0.02	211.92
2014/1/30	06:20:38	0.02	155.54
2014/1/30	06:25:38	0.02	193.43

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/30	06:30:38	0.02	222.95
2014/1/30	06:35:38	0.02	160.22
2014/1/30	06:40:38	0.02	206.80
2014/1/30	06:45:38	0.02	210.14
2014/1/30	06:50:38	0.02	205.35
2014/1/30	06:55:38	0.02	214.37
2014/1/30	07:00:38	0.32	213.15
2014/1/30	07:05:38	0.02	216.71
2014/1/30	07:10:38	0.02	186.18
2014/1/30	07:15:38	0.02	177.16
2014/1/30	07:20:38	0.02	177.16
2014/1/30	07:25:38	0.11	224.18
2014/1/30	07:30:38	0.02	213.70
2014/1/30	07:35:38	0.02	234.76
2014/1/30	07:40:38	0.02	234.65
2014/1/30	07:45:38	0.02	234.54
2014/1/30	07:50:38	0.02	234.54
2014/1/30	07:55:38	0.02	234.43
2014/1/30	08:00:38	0.02	234.32
2014/1/30	08:05:38	0.02	234.32
2014/1/30	08:10:38	0.02	234.21
2014/1/30	08:15:38	0.02	234.09
2014/1/30	08:20:38	0.02	233.98
2014/1/30	08:25:38	0.02	233.87
2014/1/30	08:30:38	0.02	233.76
2014/1/30	08:35:38	0.02	148.41
2014/1/30	08:40:38	0.02	148.41
2014/1/30	08:45:38	0.02	148.19
2014/1/30	08:50:38	0.02	148.08
2014/1/30	08:55:38	0.02	93.48
2014/1/30	09:00:38	0.02	93.70
2014/1/30	09:05:38	0.02	93.59
2014/1/30	09:10:38	0.02	31.20
2014/1/30	09:15:38	0.02	26.63
2014/1/30	09:20:38	0.02	17.72
2014/1/30	09:25:38	0.02	341.17
2014/1/30	09:30:38	0.02	277.44
2014/1/30	09:35:38	0.08	52.59
2014/1/30	09:40:38	0.02	115.32
2014/1/30	09:45:38	0.54	356.77
2014/1/30	09:50:38	0.02	323.12
2014/1/30	09:55:38	0.02	347.41
2014/1/30	09:59:40	0.02	28.52
2014/1/30	10:04:40	0.02	4.46
2014/1/30	10:09:40	0.02	8.47
2014/1/30	10:14:40	0.02	289.03

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/30	10:19:40	0.02	300.28
2014/1/30	10:24:40	0.02	3.01
2014/1/30	10:29:40	0.02	309.75
2014/1/30	10:34:40	0.02	334.26
2014/1/30	10:39:40	0.02	269.64
2014/1/30	10:44:40	0.41	19.50
2014/1/30	10:49:40	0.02	37.55
2014/1/30	10:54:40	0.02	21.50
2014/1/30	10:59:40	0.02	-48.25
2014/1/30	11:04:40	0.03	320.11
2014/1/30	11:09:40	0.03	345.29
2014/1/30	11:14:40	0.02	348.52
2014/1/30	11:19:40	0.02	351.42
2014/1/30	11:24:40	0.02	56.71
2014/1/30	11:29:40	0.12	254.48
2014/1/30	11:34:40	0.02	255.93
2014/1/30	11:39:40	0.02	247.47
2014/1/30	11:44:40	0.02	-48.69
2014/1/30	11:49:40	0.02	0.22
2014/1/30	11:54:40	0.11	353.76
2014/1/30	11:59:40	0.41	8.25
2014/1/30	12:04:40	0.02	3.23
2014/1/30	12:09:40	0.02	349.64
2014/1/30	12:14:40	0.46	0.33
2014/1/30	12:19:40	0.02	49.92
2014/1/30	12:24:40	0.02	345.18
2014/1/30	12:29:40	0.02	9.92
2014/1/30	12:34:40	0.02	245.35
2014/1/30	12:39:40	0.02	313.09
2014/1/30	12:44:40	0.02	234.87
2014/1/30	12:49:40	0.02	-48.69
2014/1/30	12:54:40	0.02	335.71
2014/1/30	12:59:40	0.02	328.69
2014/1/30	13:04:40	0.02	296.38
2014/1/30	13:09:40	0.02	310.64
2014/1/30	13:14:40	0.02	299.50
2014/1/30	13:19:40	1.36	352.65
2014/1/30	13:24:40	1.13	6.02
2014/1/30	13:29:40	0.02	350.31
2014/1/30	13:34:40	0.31	25.74
2014/1/30	13:39:40	0.11	5.13
2014/1/30	13:44:40	0.02	308.30
2014/1/30	13:49:40	0.02	5.91
2014/1/30	13:54:40	0.02	24.85
2014/1/30	13:59:40	0.02	303.29
2014/1/30	14:04:40	0.02	332.37

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Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/30	14:09:40	0.02	53.82
2014/1/30	14:14:40	0.24	28.30
2014/1/30	14:19:40	0.02	334.37
2014/1/30	14:24:40	0.02	290.47
2014/1/30	14:29:40	0.02	335.49
2014/1/30	14:34:40	0.05	340.84
2014/1/30	14:39:40	0.02	285.79
2014/1/30	14:44:40	0.90	-48.36
2014/1/30	14:49:40	0.02	9.36
2014/1/30	14:54:40	0.02	350.08
2014/1/30	14:59:40	0.00	9.36
2014/1/30	15:04:40	0.02	300.06
2014/1/30	15:09:40	0.06	6.57
2014/1/30	15:14:40	0.06	343.18
2014/1/30	15:19:40	0.05	0.45
2014/1/30	15:24:40	0.03	23.40
2014/1/30	15:29:40	0.21	64.07
2014/1/30	15:34:40	0.02	313.87
2014/1/30	15:39:40	0.02	344.85
2014/1/30	15:44:40	0.02	44.35
2014/1/30	15:49:40	0.02	337.72
2014/1/30	15:54:40	0.02	13.59
2014/1/30	15:59:40	0.02	15.04
2014/1/30	16:04:40	0.03	61.73
2014/1/30	16:09:40	0.02	355.21
2014/1/30	16:14:40	0.02	29.64
2014/1/30	16:19:40	0.02	27.08
2014/1/30	16:24:40	0.02	1.11
2014/1/30	16:29:40	0.02	355.32
2014/1/30	16:34:40	0.02	323.34
2014/1/30	16:39:40	0.02	337.49
2014/1/30	16:44:40	0.02	337.38
2014/1/30	16:49:40	0.02	199.78
2014/1/30	16:54:40	0.02	215.60
2014/1/30	16:59:40	0.02	199.44
2014/1/30	17:04:40	0.02	209.69
2014/1/30	17:09:40	0.02	209.69
2014/1/30	17:14:40	0.02	201.00
2014/1/30	17:19:40	0.12	197.99
2014/1/30	17:24:40	0.05	204.12
2014/1/30	17:29:40	0.02	180.06
2014/1/30	17:34:40	0.09	204.12
2014/1/30	17:39:40	0.02	237.44
2014/1/30	17:44:40	0.02	225.96
2014/1/30	17:49:40	0.06	216.27
2014/1/30	17:54:40	0.02	156.32

Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/30	17:59:40	0.02	185.52
2014/1/30	18:04:40	0.12	154.76
2014/1/30	18:09:40	0.11	201.23
2014/1/30	18:14:40	0.02	184.74
2014/1/30	18:19:40	0.37	147.19
2014/1/30	18:24:40	0.52	203.79
2014/1/30	18:29:40	0.41	206.91
2014/1/30	18:34:40	0.17	204.23
2014/1/30	18:39:40	0.20	212.59
2014/1/30	18:44:40	0.12	204.90
2014/1/30	18:49:40	0.20	212.03
2014/1/30	18:54:40	0.02	192.87
2014/1/30	18:59:40	0.02	210.36
2014/1/30	19:04:40	0.02	201.11
2014/1/30	19:09:40	0.06	216.94
2014/1/30	19:14:40	0.02	206.91
2014/1/30	19:19:40	0.02	183.73
2014/1/30	19:24:40	0.08	185.40
2014/1/30	19:29:40	0.66	189.19
2014/1/30	19:34:40	0.02	222.51
2014/1/30	19:39:40	0.32	224.74
2014/1/30	19:44:40	0.02	199.22
2014/1/30	19:49:40	0.28	223.51
2014/1/30	19:54:40	0.02	243.34
2014/1/30	19:59:40	0.02	269.42
2014/1/30	20:04:40	0.02	206.35
2014/1/30	20:09:40	0.02	206.35
2014/1/30	20:14:40	0.02	180.95
2014/1/30	20:19:40	0.02	213.82
2014/1/30	20:24:40	0.32	198.44
2014/1/30	20:29:40	0.78	207.13
2014/1/30	20:34:40	0.02	218.05
2014/1/30	20:39:40	0.02	221.17
2014/1/30	20:44:40	0.02	214.48
2014/1/30	20:49:40	0.02	224.62
2014/1/30	20:54:40	0.02	224.29
2014/1/30	20:59:40	0.02	215.71
2014/1/30	21:04:40	0.02	215.60
2014/1/30	21:09:40	0.02	182.28
2014/1/30	21:14:40	0.02	184.07
2014/1/30	21:19:40	0.02	228.19
2014/1/30	21:24:40	0.02	217.38
2014/1/30	21:29:40	0.02	217.38
2014/1/30	21:34:40	0.02	217.38
2014/1/30	21:39:40	0.02	217.49
2014/1/30	21:44:40	0.02	217.60

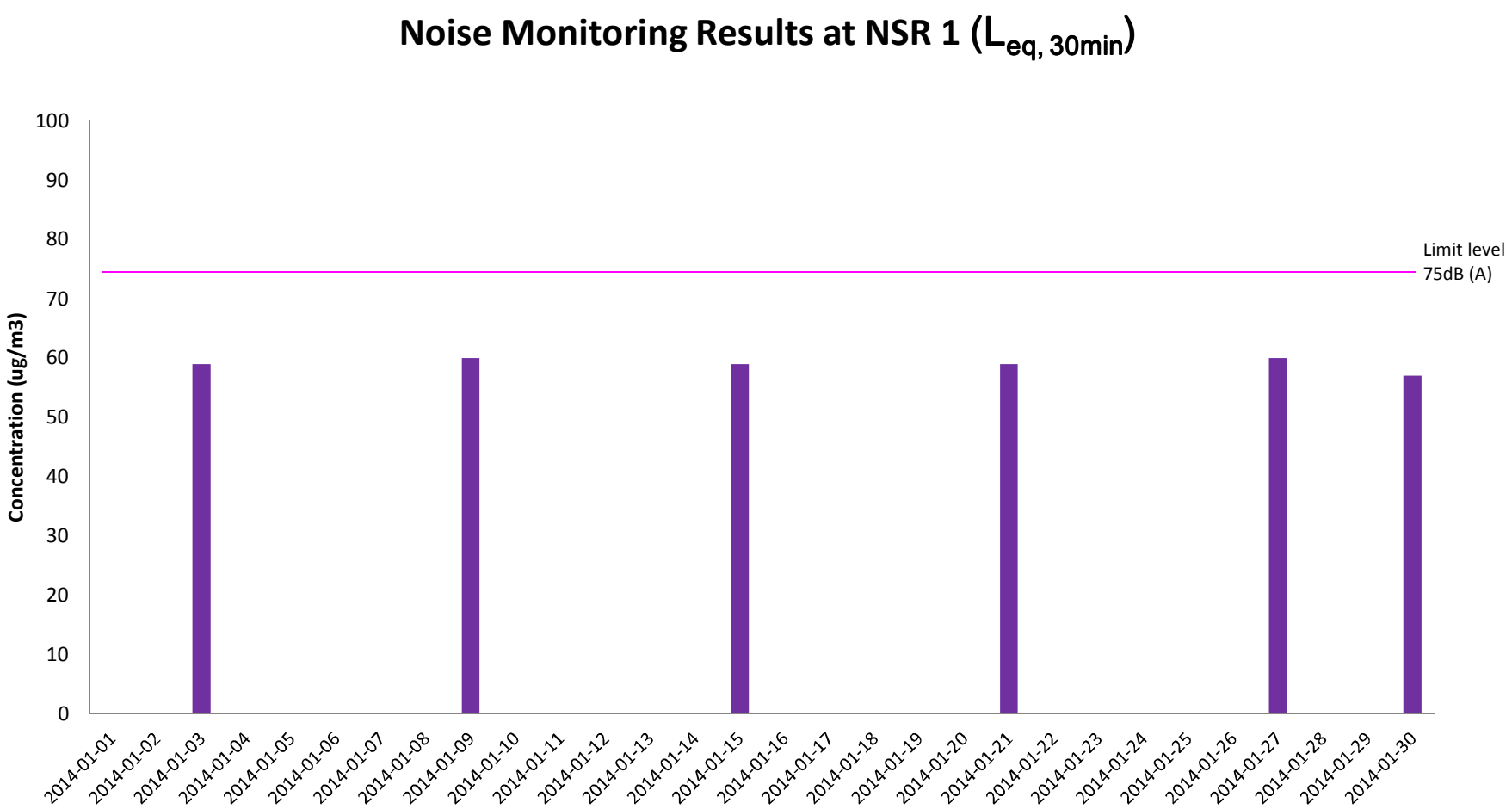
Appendix H Meteorological Data for Impact Monitoring in the reporting period

Date	Time (24hrs)	Wind Speed (m/s)	Wind Direction (degree)
2014/1/30	21:49:40	0.02	208.13
2014/1/30	21:54:40	0.02	173.59
2014/1/30	21:59:40	0.02	234.54
2014/1/30	22:04:40	0.02	187.41
2014/1/30	22:09:40	0.02	196.66
2014/1/30	22:14:40	0.02	178.05
2014/1/30	22:19:40	0.32	203.57
2014/1/30	22:24:40	0.02	152.20
2014/1/30	22:29:40	0.43	215.26
2014/1/30	22:34:40	0.28	188.52
2014/1/30	22:39:40	0.02	186.74
2014/1/30	22:44:40	0.02	184.29
2014/1/30	22:49:40	0.15	253.70
2014/1/30	22:54:40	0.34	180.39
2014/1/30	22:59:40	0.03	194.32
2014/1/30	23:04:40	0.34	241.11
2014/1/30	23:09:40	0.02	248.13
2014/1/30	23:14:40	0.02	228.41
2014/1/30	23:19:40	0.32	226.74
2014/1/30	23:24:40	0.02	200.11
2014/1/30	23:29:40	0.02	219.16
2014/1/30	23:34:40	0.02	219.16
2014/1/30	23:39:40	0.02	219.16
2014/1/30	23:44:40	0.02	219.16
2014/1/30	23:49:40	0.02	219.28
2014/1/30	23:54:40	0.02	219.28
2014/1/30	23:59:40	0.02	219.16

Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Noise Level for 30-min, dB(A)			Limit Level dB(A)	Temp (°C)	Wind Speed (m/s)	Noise Meter Model/ID	Calibrator Model/ID
						Leq	L10	L90					
TMCLKL	HY/2012/07	2014-01-03	NSR1	Sunny	10:18	59	61	56	75	19	0.4	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-01-09	NSR1	Sunny	10:50	60	64	53	75	15	0.4	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-01-15	NSR1	Sunny	11:14	59	62	52	75	12	0.3	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-01-21	NSR1	Sunny	11:16	59	60	55	75	15	0.3	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-01-27	NSR1	Sunny	10:17	60	64	50	75	19	0.7	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
TMCLKL	HY/2012/07	2014-01-30	NSR1	Sunny	10:19	57	58	53	75	20	0.2	RION NL31 (S/N 00410224)	RION NC73 (S/N 10997142)
					Min.	57							
					Max.	60							
					Average	59							


Noise Monitoring Results at NSR 1 ($L_{eq, 30min}$)
Concentration (ug/m3)
100
90
80
70
60
50
40
30
20
10
0
Limit level
75dB (A)
2014-01-01
2014-01-02
2014-01-03
2014-01-04
2014-01-05
2014-01-06
2014-01-07
2014-01-08
2014-01-09
2014-01-10
2014-01-11
2014-01-12
2014-01-13
2014-01-14
2014-01-15
2014-01-16
2014-01-17
2014-01-18
2014-01-19
2014-01-20
2014-01-21
2014-01-22
2014-01-23
2014-01-24
2014-01-25
2014-01-26
2014-01-27
2014-01-28
2014-01-29
2014-01-30

Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	17:15	19.2	7.58	27.1	6.61	5.83	3.1	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	17:15	19.1	7.56	27.2	6.63	5.98	2.7	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.2	2	1	17:15	19.3	7.64	27.3	6.58	5.41	3.1	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.2	2	2	17:15	19.3	7.65	27.2	6.57	5.58	4.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.4	3	1	17:15	19.4	7.72	27.4	6.71	7.76	2.7	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.4	3	2	17:15	19.5	7.74	27.5	6.72	7.81	3.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	1	17:55	19.2	7.48	27.1	6.65	7.28	2.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	2	17:55	19.3	7.5	27	6.63	7.13	3.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	1	17:55							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	2	17:55							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	3.8	3	1	17:55	19.3	7.73	27.4	6.56	5.79	4.1	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	3.8	3	2	17:55	19.4	7.8	27.3	6.55	5.85	3.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	1	18:25	19.2	7.77	27.2	6.52	6.56	4.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	2	18:25	19.2	7.78	27.1	6.50	6.7	3.4	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	1	18:25							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	2	18:25							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.4	3	1	18:25	19.3	7.6	27.4	6.63	5.82	2.9	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.4	3	2	18:25	19.4	7.68	27.4	6.61	5.79	3.2	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	1	18:55	19.2	7.58	27.1	6.67	6.04	3.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	2	18:55	19.3	7.6	27	6.65	6.16	2.7	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	1	18:55							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	2	18:55							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.6	3	1	18:55	19.4	7.73	27.2	6.57	6.25	2.8	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.6	3	2	18:55	19.3	7.75	27.3	6.56	6.2	2.7	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	19:25	19.1	7.64	27.2	6.86	5.88	2.8	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	19:25	19.2	7.66	27.2	6.89	5.93	2.1	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	1	19:25	19.3	7.79	27.3	6.36	5.96	3.5	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	2	19:25	19.4	7.81	27.2	6.39	6.03	3.7	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.2	3	1	19:25	19.5	7.9	27.3	6.41	5.69	3.6	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.2	3	2	19:25	19.4	7.89	27.4	6.43	5.68	2.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	19:55	19.2	7.62	27.2	6.61	5.73	3.2	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	19:55	19.1	7.65	27.3	6.63	5.69	3.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	19:55							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	19:55							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.4	3	1	19:55	19.3	7.85	27.4	6.69	5.65	2.6	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.4	3	2	19:55	19.4	7.82	27.3	6.72	5.6	3.5	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	20:25	19.1	7.64	27.2	6.45	5.8	3.5	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	20:25	19.1	7.66	27.1	6.46	5.92	3.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	6.4	2	1	20:25	19.3	7.69	27.3	6.59	5.77	4.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	6.4	2	2	20:25	19.2	7.71	27.3	6.60	5.86	4.2	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	11.8	3	1	20:25	19.4	7.62	27.4	6.43	5.22	3.4	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	11.8	3	2	20:25	19.5	7.63	27.3	6.41	5.38	3.1	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	12:07	19.1	7.58	27.1	6.38	5.89	2.4	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	12:07	19.2	7.6	27	6.39	6.01	2.9	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	6.1	2	1	12:07	19.2	7.63	27.1	6.52	5.86	2.9	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	6.1	2	2	12:07	19.3	7.65	27.2	6.53	5.95	2.5	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	11.2	3	1	12:07	19.4	7.56	27.3	6.36	5.31	3.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	11.2	3	2	12:07	19.3	7.57	27.2	6.34	5.47	2.7	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	1	14:37	19.2	7.42	27.2	6.59	7.37	2.6	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	2	14:37	19.1	7.44	27.2	6.57	7.22	4.2	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	1	14:37							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	2	14:37							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.2	3	1	14:37	19.2	7.67	27.2	6.50	5.88	3.4	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.2	3	2	14:37	19.3	7.74	27.3	6.49	5.94	2.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	1	14:07	19	7.71	27.1	6.45	6.65	4.6	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	2	14:07	19.1	7.72	27.1	6.43	6.79	4.2	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	1	14:07							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	2	14:07							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	3.8	3	1	14:07	19.2	7.54	27.3	6.56	5.91	3.6	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	3.8	3	2	14:07	19.1	7.62	27.2	6.54	5.88	4.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	1	13:37	19.1	7.52	27.1	6.60	6.13	3.7	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	2	13:37	19.1	7.54	27.2	6.58	6.25	2.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	1	13:37							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	2	13:37							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.2	3	1	13:37	19.3	7.67	27.3	6.50	6.29	4.8	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.2	3	2	13:37	19.2	7.69	27.4	6.49	6.34	3.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	13:07	19.2	7.58	27.2	6.79	5.97	3.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	13:07	19.1	7.6	27.3	6.82	6.02	2.2	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	3.9	2	1	13:07	19.2	7.73	27.4	6.29	6.05	3.4	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	3.9	2	2	13:07	19.3	7.75	27.3	6.32	6.12	4.8	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	6.8	3	1	13:07	19.4	7.84	27.5	6.34	5.69	4.9	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	6.8	3	2	13:07	19.5	7.83	27.4	6.36	5.77	4.8	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	12:37	19	7.56	27.1	6.54	5.82	2.9	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	12:37	19.1	7.59	27.2	6.56	5.78	3.8	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	12:37							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	12:37							13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Bottom	3.8	3	1	12:37	19.3	7.79	27.3	6.62	5.74	2.8	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Bottom	3.8	3	2	12:37	19.3	7.76	27.2	6.65	5.69	3.0	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	15:17	19.1	7.52	27.2	6.54	5.92	2.6	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	15:17	19.1	7.5	27.1	6.56	6.07	2.6	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Middle	4.8	2	1	15:17	19.3	7.58	27.3	6.52	5.5	4.2	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Middle	4.8	2	2	15:17	19.2	7.59	27.3	6.50	5.67	3.3	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Bottom	8.6	3	1	15:17	19.3	7.66	27.3	6.64	7.85	4.1	13-01-2014
TM-CLK Southern	HY/2012/07	02-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Bottom	8.6	3	2	15:17	19.4	7.68	27.4	6.65	7.9	3.8	13-01-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	8:08	17.2	7.8	28.5	6.94	17.7	11.1	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	8:08	17.3	7.8	28.6	6.91	17.3	10.8	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	4.9	2	1	8:08	17.3	7.9	28.7	6.51	18	11.7	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	4.9	2	2	8:08	17.3	7.9	28.8	6.50	18.4	11.6	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	8.8	3	1	8:08	17.3	7.9	28.8	6.79	18.5	13.0	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	8.8	3	2	8:08	17.4	7.9	28.8	6.78	18.1	11.6	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	1	8:43	17.1	7.7	28.4	6.56	15.6	16.5	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	2	8:43	17.1	7.7	28.5	6.55	15.4	16.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	1	8:43							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	2	8:43							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3	3	1	8:43	17.2	7.8	28.7	6.63	16.4	16.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3	3	2	8:43	17.3	7.8	28.7	6.64	16.6	16.0	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	1	9:13	17.2	7.8	28.5	6.87	15.4	15.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	2	9:13	17.1	7.8	28.6	6.83	15	14.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	1	9:13							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	2	9:13							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	3.4	3	1	9:13	17.3	7.9	28.7	6.72	16.7	14.9	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	3.4	3	2	9:13	17.2	7.9	28.7	6.70	16.9	16.1	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	1	9:43	17.2	7.7	28.6	6.73	15.8	16.0	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	2	9:43	17.2	7.8	28.6	6.71	16	14.5	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	1	9:43							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	2	9:43							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	3.8	3	1	9:43	17.3	7.8	28.8	6.63	14.2	14.7	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	3.8	3	2	9:43	17.3	7.8	28.7	6.61	14.8	14.8	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	10:13	17.2	7.9	28.5	6.87	18.7	11.9	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	10:13	17.1	7.9	28.6	6.81	18	11.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	3.5	2	1	10:13	17.3	7.9	28.7	6.88	17.7	10.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	3.5	2	2	10:13	17.3	8	28.7	6.90	17.3	10.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	6	3	1	10:13	17.3	7.8	28.8	6.62	15.8	13.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	6	3	2	10:13	17.3	7.8	28.8	6.60	15.9	13.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	10:43	17.2	7.9	28.7	6.93	16.4	17.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	10:43	17.2	7.8	28.6	6.97	16.1	17.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	1	10:43							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	2	10:43							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4	3	1	10:43	17.3	7.8	28.7	6.72	17.2	19.6	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4	3	2	10:43	17.3	7.8	28.8	6.76	17	21.1	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	11:08	17.2	7.9	28.5	6.82	17.8	10.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	11:08	17.3	7.9	28.6	6.83	17.9	9.9	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.5	2	1	11:08	17.3	7.9	28.7	6.98	18.4	12.5	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.5	2	2	11:08	17.4	8	28.7	6.92	18	11.9	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8	3	1	11:08	17.4	7.9	28.8	6.57	17.4	12.9	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8	3	2	11:08	17.4	7.9	28.7	6.60	17.2	12.7	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	13:40	17.2	7.8	28.6	6.86	17	11.5	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	13:40	17.3	7.8	28.6	6.82	17.6	11.6	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.3	2	1	13:40	17.3	7.9	28.7	6.57	19.1	12.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.3	2	2	13:40	17.4	7.9	28.7	6.60	18.8	12.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.6	3	1	13:40	17.4	7.9	28.8	6.50	18.2	11.8	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.6	3	2	13:40	17.4	8	28.9	6.54	18.6	11.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	1	16:10	17.3	7.5	28.6	6.73	16.7	15.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	2	16:10	17.2	7.5	28.6	6.71	16.9	14.1	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	1	16:10							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	2	16:10							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	2.8	3	1	16:10	17.4	7.6	28.8	6.58	15.1	15.0	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	2.8	3	2	16:10	17.4	7.6	28.9	6.60	14.9	15.0	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	1	15:40	17.3	7.8	28.9	6.79	16.6	15.7	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	2	15:40	17.2	7.8	28.8	6.71	16.8	15.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	1	15:40							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	2	15:40							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3	3	1	15:40	17.4	7.9	28.9	6.79	15.8	16.8	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3	3	2	15:40	17.4	7.9	28.9	6.81	16	18.5	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	1	15:12	17.3	7.8	28.8	6.63	16	14.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	2	15:12	17.3	7.8	28.7	6.65	15.8	15.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	1	15:12							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	2	15:12							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3.6	3	1	15:12	17.4	7.9	28.8	6.59	14.5	15.0	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3.6	3	2	15:12	17.4	7.9	28.9	6.51	14.9	15.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	14:45	17.3	7.7	28.7	6.78	18.2	11.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	14:45	17.2	7.8	28.7	6.80	18	11.1	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	3.4	2	1	14:45	17.3	7.7	28.8	6.47	19.2	12.7	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	3.4	2	2	14:45	17.4	7.7	28.9	6.49	19	13.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	5.8	3	1	14:45	17.4	7.9	28.9	6.65	18.5	13.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	5.8	3	2	14:45	17.4	7.9	28.9	6.64	18.6	13.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	14:15	17.2	7.8	28.5	6.99	14.7	16.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	14:15	17.2	7.8	28.6	7.01	14.3	17.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	1	14:15							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	2	14:15							17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	3.8	3	1	14:15	17.4	7.8	28.7	6.82	15	19.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	3.8	3	2	14:15	17.3	7.8	28.8	6.87	15.8	17.3	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	16:45	17.4	7.7	28.7	6.82	19	12.4	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	16:45	17.4	7.7	28.6	6.88	18.8	11.2	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.8	2	1	16:45	17.5	7.7	28.9	7.03	17.2	11.8	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.8	2	2	16:45	17.6	7.7	28.8	7.01	17.8	13.0	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8.6	3	1	16:45	17.5	7.7	28.9	6.92	18.3	11.9	17-01-2014
TM-CLK Southern	HY/2012/07	04-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8.6	3	2	16:45	17.4	7.8	28.9	6.96	18	13.1	17-01-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	1	10:21	18.8	7.3	27.1	6.67	9.8	5.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	2	10:21	18.9	7.3	27	6.65	9.8	6.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.3	2	1	10:21	19	7.3	27.2	6.39	8.8	5.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Middle	5.3	2	2	10:21	19	7.3	27.3	6.38	8.8	5.0	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	9.5	3	1	10:21	19.1	7.5	27.5	6.58	7.9	6.4	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)5	Bottom	9.5	3	2	10:21	19.2	7.6	27.4	6.59	7.9	7.5	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	1	11:01	18.7	7.3	27.1	6.16	10.2	6.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4a	Surface	1	1	2	11:01	18.8	7.4	27.2	6.17	10.3	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	1	11:01							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4a	Middle		2	2	11:01							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.9	3	1	11:01	18.8	7.7	27.3	6.25	9.8	5.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4a	Bottom	4.9	3	2	11:01	18.9	7.7	27.4	6.26	9.8	5.7	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	1	11:31	18.8	7.5	27.2	6.52	9.9	6.4	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4	Surface	1	1	2	11:31	18.9	7.5	27.1	6.53	9.9	7.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	1	11:31							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4	Middle		2	2	11:31							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.7	3	1	11:31	19.2	7.7	27.1	6.81	9.8	6.5	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	SR4	Bottom	4.7	3	2	11:31	19.2	7.7	27.3	6.82	9.8	7.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	1	12:01	18.9	7.4	27	6.67	13.9	7.4	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS8	Surface	1	1	2	12:01	19	7.4	27.1	6.68	13.7	7.2	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	1	12:01							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS8	Middle		2	2	12:01							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.8	3	1	12:01	19.2	7.5	27.3	6.41	10.7	7.5	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS8	Bottom	4.8	3	2	12:01	19.2	7.5	27.4	6.42	10.8	7.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	12:31	18.9	7.4	27.1	6.79	9.5	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	12:31	19	7.4	27.2	6.80	9.6	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	1	12:31	19	7.5	27.1	6.45	8.5	4.0	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	2	12:31	19.1	7.5	27.2	6.46	8.5	3.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	7.4	3	1	12:31	19.2	7.3	27.5	6.38	8.3	4.4	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)16	Bottom	7.4	3	2	12:31	19.3	7.3	27.4	6.39	8.3	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	1	13:01	19	7.4	27.2	6.35	10.5	5.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	2	13:01	19.1	7.4	27.1	6.33	10.4	5.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	1	13:01							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Middle		2	2	13:01							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.5	3	1	13:01	19.1	7.6	27.4	6.67	9.9	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	IS(Mf)9	Bottom	4.5	3	2	13:01	19.2	7.6	27.3	6.64	9.9	5.5	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	13:31	18.9	7.1	27.1	6.36	6.7	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	13:31	19	7.1	27.1	6.35	6.6	4.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	6.6	2	1	13:31	19.1	7.3	27.3	6.41	9.1	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Middle	6.6	2	2	13:31	19.2	7.3	27.2	6.43	9.1	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	12.1	3	1	13:31	19.3	7.2	27.3	6.35	7.4	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Flood	Cloudy	Great Wave	CS(Mf)3	Bottom	12.1	3	2	13:31	19.2	7.2	27.4	6.36	7.4	4.1	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	1	16:34	18.8	7.1	27	6.21	7.7	6.3	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Surface	1	1	2	16:34	18.9	7.1	27.1	6.23	7.7	6.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	6.5	2	1	16:34	19	7.3	27.3	6.47	9.3	5.7	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Middle	6.5	2	2	16:34	19.1	7.3	27.3	6.48	9.4	6.4	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	11.9	3	1	16:34	19.3	7.1	27.4	6.27	7.7	5.1	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)3	Bottom	11.9	3	2	16:34	19.4	7.1	27.4	6.29	7.7	5.1	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	1	19:10	18.8	7.4	27	6.32	10.4	7.5	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4a	Surface	1	1	2	19:10	18.9	7.5	27.1	6.33	10.2	7.0	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	1	19:10							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4a	Middle		2	2	19:10							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	3.9	3	1	19:10	19.3	7.8	27.4	6.42	10.3	6.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4a	Bottom	3.9	3	2	19:10	19.3	7.9	27.5	6.43	10.6	7.1	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	1	18:34	18.8	7.6	27.1	6.40	9.8	6.0	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4	Surface	1	1	2	18:34	18.9	7.6	27.2	6.41	9.8	5.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	1	18:34							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4	Middle		2	2	18:34							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.3	3	1	18:34	19.2	7.4	27.3	6.72	10.5	5.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	SR4	Bottom	4.3	3	2	18:34	19.1	7.4	27.4	6.73	10.3	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	1	18:04	18.8	7.5	27.1	6.56	14.7	3.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS8	Surface	1	1	2	18:04	18.9	7.5	27	6.54	14.5	4.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	1	18:04							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS8	Middle		2	2	18:04							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.5	3	1	18:04	19.1	7.6	27.2	6.31	11.4	4.2	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS8	Bottom	4.5	3	2	18:04	19	7.6	27.4	6.32	11.2	4.7	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	1	17:34	18.9	7.4	27.1	6.67	10.7	4.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Surface	1	1	2	17:34	18.9	7.4	27.2	6.68	10.6	5.0	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	1	17:34	19	7.5	27.3	6.21	8.5	5.6	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Middle	4.2	2	2	17:34	19.1	7.6	27.2	6.23	8.5	4.8	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	7.3	3	1	17:34	19.3	7.6	27.4	6.15	8.4	4.3	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)16	Bottom	7.3	3	2	17:34	19.2	7.6	27.5	6.16	8.4	4.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	1	17:04	18.9	7.4	27.1	6.50	11	6.4	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)9	Surface	1	1	2	17:04	19	7.4	27.2	6.51	10.8	6.0	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)9	Middle		2	1	17:04							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)9	Middle		2	2	17:04							23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)9	Bottom	4.3	3	1	17:04	19.1	7.6	27.4	6.74	10	5.0	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	IS(Mf)9	Bottom	4.3	3	2	17:04	19.2	7.6	27.3	6.75	10.4	6.5	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	1	19:40	18.8	7.3	27	6.50	10	5.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)5	Surface	1	1	2	19:40	18.9	7.3	27.1	6.51	10.2	5.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)5	Middle	5.1	2	1	19:40	19	7.5	27.2	6.41	9.2	6.1	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)5	Middle	5.1	2	2	19:40	19.1	7.5	27.3	6.42	9.2	5.7	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)5	Bottom	9.2	3	1	19:40	19.3	7.6	27.4	6.64	8.1	5.9	23-01-2014
TM-CLK Southern	HY/2012/07	07-01-2014	Mid-Ebb	Cloudy	Great Wave	CS(Mf)5	Bottom	9.2	3	2	19:40	19.4	7.6	27.5	6.67	8.2	5.6	23-01-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	11:58	18.7	7.4	27.1	6.59	3.4	2.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	11:58	18.8	7.4	27	6.60	3.4	3.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.3	2	1	11:58	18.9	7.5	27.1	6.51	3	4.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.3	2	2	11:58	18.8	7.6	27.2	6.49	3.1	3.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	6.6	3	1	11:58	19.1	7.7	27.4	6.73	2.3	3.0	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	6.6	3	2	11:58	19.2	7.7	27.3	6.76	3.4	3.1	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	1	12:33	18.8	7.5	27.1	6.41	4	3.7	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	2	12:33	18.7	7.5	27.2	6.42	4	3.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	1	12:33							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	2	12:33							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.4	3	1	12:33	19.1	7.8	27.4	6.51	4.9	3.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.4	3	2	12:33	19.1	7.8	27.4	6.53	5.1	3.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	1	13:03	18.7	7.7	27.1	6.49	3.7	3.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	2	13:03	18.8	7.7	27.1	6.50	3.7	3.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	1	13:03							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	2	13:03							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.6	3	1	13:03	19	7.5	27.3	6.81	3.3	3.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.6	3	2	13:03	19.1	7.5	27.2	6.82	3.2	3.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	1	13:33	18.8	7.6	27.2	6.65	2.7	3.8	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	2	13:33	18.9	7.6	27.1	6.63	2.8	3.9	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	1	13:33							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	2	13:33							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	5.8	3	1	13:33	19.1	7.7	27.3	6.40	2.8	3.9	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	5.8	3	2	13:33	19.2	7.6	27.4	6.41	2.9	3.1	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	14:03	18.7	7.5	27	6.76	2.1	2.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	14:03	18.8	7.5	27.1	6.77	2.1	2.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.3	2	1	14:03	19	7.6	27.2	6.30	2.4	2.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.3	2	2	14:03	18.9	7.7	27.1	6.32	2.5	2.7	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.6	3	1	14:03	19.2	7.7	27.3	6.24	3	2.8	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.6	3	2	14:03	19.1	7.7	27.4	6.25	2.9	2.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	14:33	18.8	7.5	27.2	6.59	3.2	3.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	14:33	18.9	7.5	27.3	6.61	3.3	2.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	14:33							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	14:33							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.6	3	1	14:33	19.1	7.7	27.4	6.83	3.1	2.1	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.6	3	2	14:33	19.2	7.7	27.3	6.84	3.2	2.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	15:08	18.7	7.2	27.1	6.30	3	3.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	15:08	18.8	7.2	27.2	6.32	3.1	3.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	6.7	2	1	15:08	19	7.4	27.4	6.56	3.1	3.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	6.7	2	2	15:08	19.1	7.4	27.3	6.57	3.2	3.1	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	12.4	3	1	15:08	19.3	7.2	27.4	6.36	2.7	3.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	12.4	3	2	15:08	19.2	7.2	27.5	6.38	2.8	2.9	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	18:57	18.8	7.3	27.1	6.24	3.2	3.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	18:57	18.9	7.3	27.1	6.26	3.2	2.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	6.5	2	1	18:57	19	7.5	27.3	6.50	3.2	3.0	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	6.5	2	2	18:57	18.9	7.5	27.2	6.52	3.3	2.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	12.2	3	1	18:57	19.2	7.2	27.3	6.31	2.8	2.7	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	12.2	3	2	18:57	19.2	7.3	27.4	6.32	2.8	2.0	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	1	20:57	18.7	7.6	27.1	6.35	4.1	2.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	2	20:57	18.6	7.6	27	6.36	4.1	2.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	1	20:57							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	2	20:57							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.8	3	1	20:57	18.9	7.8	27.2	6.45	5	2.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	3.8	3	2	20:57	18.8	7.8	27.3	6.47	5.1	4.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	1	20:32	18.6	7.8	27.1	6.43	3.8	4.1	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	2	20:32	18.7	7.8	27.2	6.45	3.7	3.9	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	1	20:32							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	2	20:32							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4.2	3	1	20:32	18.9	7.6	27.2	6.75	3.4	3.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4.2	3	2	20:32	18.8	7.6	27.3	6.76	3.3	3.9	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	1	20:07	18.7	7.6	27.1	6.51	2.8	3.0	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	2	20:07	18.8	7.6	27.1	6.57	2.9	3.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	1	20:07							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	2	20:07							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.4	3	1	20:07	19.1	7.7	27.3	6.34	2.9	3.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.4	3	2	20:07	19	7.7	27.2	6.35	3	3.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	19:42	18.6	7.6	27.1	6.70	2.2	3.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	19:42	18.7	7.6	27.2	6.71	2.2	3.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	1	19:42	18.9	7.7	27.3	6.24	2.5	4.4	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	2	19:42	19	7.7	27.2	6.26	2.6	3.2	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	7.2	3	1	19:42	19	7.8	27.4	6.18	3.1	2.7	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	7.2	3	2	19:42	19.1	7.8	27.4	6.20	3	2.7	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	19:17	18.9	7.6	27.2	6.65	3.3	4.5	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	19:17	18.9	7.6	27.1	6.67	3.3	4.0	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	19:17							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	19:17							20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Bottom	4.4	3	1	19:17	19.2	7.8	27.2	6.89	3.2	3.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Bottom	4.4	3	2	19:17	19.3	7.8	27.3	6.90	3.2	3.6	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	21:37	18.7	7.5	27.1	6.53	3.5	4.3	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	21:37	18.7	7.5	27.2	6.54	3.5	3.0	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Middle	5.1	2	1	21:37	18.8	7.6	27.3	6.45	3	3.7	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Middle	5.1	2	2	21:37	18.8	7.6	27.2	6.43	3.2	3.8	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Bottom	8.6	3	1	21:37	19.1	7.8	27.4	6.67	2.4	2.9	20-01-2014
TM-CLK Southern	HY/2012/07	09-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Bottom	8.6	3	2	21:37	19	7.8	27.4	6.69	2.5	4.3	20-01-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	13:31	17.5	8	26.8	7.07	4.1	3.7	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	13:31	17.6	8	26.9	7.03	4.1	3.6	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	4.8	2	1	13:31	17.5	8	26.9	7.12	4	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	4.8	2	2	13:31	17.5	8	26.9	7.15	3.9	2.6	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	8.6	3	1	13:31	17.6	8	27	7.08	3.9	4.0	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	8.6	3	2	13:31	17.5	8	27	7.10	3.8	2.5	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	1	13:59	17.6	8	26.8	7.17	4.2	2.3	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	2	13:59	17.6	8	26.8	7.18	4.2	3.5	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	1	13:59							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	2	13:59							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3.6	3	1	13:59	17.5	8.1	26.8	7.23	4.5	3.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3.6	3	2	13:59	17.6	8.1	26.8	7.20	4.4	2.0	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	1	14:28	17.4	8	26.9	7.16	5	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	2	14:28	17.4	8.1	26.9	7.13	5	3.1	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	1	14:28							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	2	14:28							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	3.4	3	1	14:28	17.5	8.1	26.8	7.09	4.7	2.4	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	3.4	3	2	14:28	17.5	8.1	26.8	7.07	4.7	3.0	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	1	14:59	17.6	8.1	26.9	7.23	4.8	3.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	2	14:59	17.6	8.1	26.9	7.20	4.8	3.3	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	1	14:59							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	2	14:59							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	3.8	3	1	14:59	17.5	8.1	27	7.01	4.5	2.3	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	3.8	3	2	14:59	17.6	8.1	27	7.03	4.6	3.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	15:30	17.7	7.9	27	7.39	4.6	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	15:30	17.6	8	27	7.31	4.5	3.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	3.4	2	1	15:30	17.6	8	27	7.11	4.2	3.1	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	3.4	2	2	15:30	17.6	7.9	27	7.13	4.1	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	5.8	3	1	15:30	17.5	7.8	27.1	7.08	4	2.5	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	5.8	3	2	15:30	17.6	7.9	27.1	7.10	4	2.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	16:05	17.5	8.1	26.8	6.82	4.8	2.6	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	16:05	17.4	8.1	26.9	6.86	4.7	3.0	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	1	16:05							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	2	16:05							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.8	3	1	16:05	17.4	8.2	27	6.93	4.9	3.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.8	3	2	16:05	17.3	8.2	27	6.97	4.9	3.0	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	16:38	17.5	8	27	7.13	3.8	2.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	16:38	17.5	8.1	27	7.17	3.8	2.7	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.5	2	1	16:38	17.4	8.1	26.9	7.22	3.7	3.7	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.5	2	2	16:38	17.5	8.1	27	7.28	3.6	3.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8	3	1	16:38	17.4	8.2	27	7.40	3.4	2.6	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8	3	2	16:38	17.4	8.2	27	7.40	3.5	2.5	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	8:08	17.5	8.1	27	7.01	4.1	2.3	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	8:08	17.5	8.2	27	7.03	4.2	2.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.2	2	1	8:08	17.5	8.1	26.9	7.28	4.1	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.2	2	2	8:08	17.5	8.1	27	7.24	4.1	2.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.4	3	1	8:08	17.4	8.2	27.1	7.14	4.2	2.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.4	3	2	8:08	17.4	8.2	27.1	7.16	4.2	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	1	10:05	17.5	8.1	26.8	7.11	4.5	3.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	2	10:05	17.4	8.1	26.8	7.13	4.6	3.7	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	1	10:05							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	2	10:05							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	3	3	1	10:05	17.4	8.1	26.9	7.08	4.8	2.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	3	3	2	10:05	17.4	8.1	27	7.10	4.8	4.3	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	1	9:47	17.6	8	26.8	7.00	4.7	3.7	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	2	9:47	17.6	8.1	26.9	6.98	4.7	4.0	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	1	9:47							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	2	9:47							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3	3	1	9:47	17.5	8	27	6.94	4.9	3.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3	3	2	9:47	17.6	8.1	27	6.96	4.9	3.1	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	1	9:24	17.5	8.1	26.9	6.82	4.7	3.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	2	9:24	17.6	8	26.9	6.88	4.8	3.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	1	9:24							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	2	9:24							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3.2	3	1	9:24	17.5	8	27	6.79	4.5	3.4	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3.2	3	2	9:24	17.5	8	27	6.77	4.5	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	8:59	17.6	8.2	26.9	6.99	4	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	8:59	17.6	8.2	26.9	7.01	4.1	2.9	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	3.2	2	1	8:59	17.5	8.1	27	6.72	3.7	2.6	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	3.2	2	2	8:59	17.4	8.2	27	6.78	3.7	2.7	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	5.4	3	1	8:59	17.4	8.1	27.1	6.80	4	2.8	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	5.4	3	2	8:59	17.4	8.1	27.1	6.84	3.9	2.5	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	8:33	17.6	8.1	26.9	7.16	4.9	2.4	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	8:33	17.6	8.1	26.9	7.20	5	2.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	1	8:33							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	2	8:33							21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4	3	1	8:33	17.5	8.1	26.9	7.42	4.4	2.7	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4	3	2	8:33	17.4	8.1	27	7.40	4.4	3.4	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	10:40	17.4	8	26.9	6.91	4.1	2.5	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	10:40	17.4	8	27	6.99	4.1	2.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.5	2	1	10:40	17.5	8.1	27.1	6.84	4.2	3.2	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.5	2	2	10:40	17.5	8.1	27.1	6.80	4.2	3.3	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8	3	1	10:40	17.5	8.1	27.2	6.81	4.3	3.4	21-01-2014
TM-CLK Southern	HY/2012/07	11-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8	3	2	10:40	17.4	8.1	27.2	6.79	4.4	2.2	21-01-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	15:27	17.4	7.7	27.1	7.71	4.8	3.2	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	15:27	17.3	7.7	27.2	7.72	4.8	4.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	5.2	2	1	15:27	17.5	7.8	27.4	7.63	4.7	3.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	5.2	2	2	15:27	17.4	7.8	27.3	7.61	4.8	4.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	9.4	3	1	15:27	17.5	8	27.4	7.85	4.4	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	9.4	3	2	15:27	17.6	8	27.5	7.87	4.5	3.3	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	1	16:07	17.2	7.7	27.2	7.53	3.7	4.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	2	16:07	17.3	7.8	27.1	7.54	3.8	4.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	1	16:07							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	2	16:07							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	4	3	1	16:07	17.4	8	27.2	7.63	5.1	4.3	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	4	3	2	16:07	17.5	8	27.3	7.65	5	6.3	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	1	16:32	17.2	8	27.1	7.61	5.9	3.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	2	16:32	17.3	8	27.2	7.63	6	4.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	1	16:32							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	2	16:32							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	4.2	3	1	16:32	17.4	7.8	27.4	7.93	7.1	3.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	4.2	3	2	16:32	17.3	7.8	27.3	7.94	7	5.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	1	17:02	17.2	7.8	27.1	7.77	4.8	3.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	2	17:02	17.1	7.8	27.1	7.75	5.4	3.0	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	1	17:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	2	17:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	4.8	3	1	17:02	17.3	7.9	27.2	7.52	5	4.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	4.8	3	2	17:02	17.4	7.9	27.3	7.53	5.1	4.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	17:32	17.1	7.8	27.1	7.88	4.8	3.3	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	17:32	17	7.8	27.2	7.89	4.7	4.0	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	4.6	2	1	17:32	17.2	7.9	27.4	7.42	4.9	4.0	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	4.6	2	2	17:32	17.3	7.9	27.3	7.44	4.8	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	8.2	3	1	17:32	17.4	8	27.4	7.36	4.3	3.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	8.2	3	2	17:32	17.4	8	27.5	7.38	4.4	3.8	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	18:02	17.1	7.8	27.2	7.83	4.2	4.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	18:02	17	7.8	27.2	7.85	4.3	4.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	1	18:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	2	18:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.6	3	1	18:02	17.1	7.9	27.3	8.07	4.9	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.6	3	2	18:02	17.2	8	27.4	8.08	4.8	3.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	18:37	17.1	7.4	27.1	7.42	4.6	4.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	18:37	17.1	7.5	27.2	7.44	4.7	5.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	6.6	2	1	18:37	17.2	7.7	27.3	7.68	4.8	3.8	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	6.6	2	2	18:37	17.3	7.7	27.2	7.70	4.7	3.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	12.2	3	1	18:37	17.4	7.4	27.4	7.49	4.8	4.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	12.2	3	2	18:37	17.4	7.4	27.5	7.50	4.9	5.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	10:27	17.1	7.3	27.1	7.33	4.7	4.8	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	10:27	17	7.4	27	7.35	4.8	3.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	6.4	2	1	10:27	17.1	7.6	27.2	7.59	4.8	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	6.4	2	2	10:27	17.2	7.6	27.1	7.61	4.8	4.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	11.8	3	1	10:27	17.2	7.3	27.3	7.40	4.9	5.3	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	11.8	3	2	10:27	17.3	7.3	27.4	7.41	5	5.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	1	13:02	17.2	7.7	27.2	7.44	3.7	5.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	2	13:02	17.1	7.7	27.1	7.45	3.9	3.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	1	13:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	2	13:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	4.6	3	1	13:02	17.4	7.9	27.4	7.54	5.2	4.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	4.6	3	2	13:02	17.4	7.9	27.3	7.56	5.1	3.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	1	12:32	17.2	7.9	27.1	7.52	5.9	6.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	2	12:32	17.1	7.9	27.1	7.54	6.1	7.0	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	1	12:32							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	2	12:32							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3.8	3	1	12:32	17.4	7.7	27.2	7.84	7.2	5.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	3.8	3	2	12:32	17.3	7.7	27.3	7.85	6.1	5.8	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	1	12:02	17.1	7.7	26.9	7.68	4.8	5.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	2	12:02	17	7.7	27	7.66	5.5	7.0	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	1	12:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	2	12:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	4.2	3	1	12:02	17.2	7.8	27.1	7.43	5.1	6.7	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	4.2	3	2	12:02	17.3	7.8	27.2	7.44	5.1	5.5	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	11:32	17.1	7.7	27	7.79	4.8	4.1	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	11:32	17.1	7.7	27.1	7.80	4.8	3.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	4.2	2	1	11:32	17.1	7.8	27.2	7.33	4.9	3.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	4.2	2	2	11:32	17.2	7.8	27.1	7.35	4.9	4.2	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	7.4	3	1	11:32	17.3	7.9	27.3	7.27	4.3	3.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	7.4	3	2	11:32	17.4	7.9	27.2	7.29	4.5	3.7	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	11:02	17	7.7	27.2	7.74	4.3	4.2	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	11:02	16.9	7.7	27.1	7.76	4.4	4.6	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	1	11:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	2	11:02							23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4.2	3	1	11:02	17.2	7.9	27.3	7.98	4.9	5.7	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4.2	3	2	11:02	17.3	7.9	27.2	7.99	4.9	3.8	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	13:27	17.2	7.6	27	7.62	4.7	4.4	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	13:27	17.3	7.6	27.1	7.63	4.8	3.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.9	2	1	13:27	17.4	7.7	27.3	7.54	4.6	4.9	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.9	2	2	13:27	17.3	7.7	27.2	7.52	4.7	5.2	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8.8	3	1	13:27	17.5	7.9	27.4	7.76	4.3	7.3	23-01-2014
TM-CLK Southern	HY/2012/07	14-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8.8	3	2	13:27	17.4	7.9	27.5	7.78	4.4	6.1	23-01-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	16:50	17	8.1	27	6.76	2.8	4.0	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	16:50	17	8.1	27	6.82	2.8	2.6	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	4.7	2	1	16:50	17	8.1	27	6.74	3	3.2	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	4.7	2	2	16:50	16.9	8.1	27.1	6.70	3	3.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	8.4	3	1	16:50	16.9	8.1	27.1	6.68	3.1	3.5	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	8.4	3	2	16:50	16.9	8.1	27.1	6.62	3.1	4.3	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	1	17:20	17	8.1	27	6.68	3	2.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	2	17:20	17	8.1	27	6.72	3.1	3.1	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	1	17:20							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	2	17:20							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3.6	3	1	17:20	17	8.1	27	6.56	3.1	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3.6	3	2	17:20	17	8.1	27	6.50	3.1	2.3	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	1	17:50	17	8.1	27	6.74	3.1	2.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	2	17:50	17	8.1	27	6.68	3.1	3.6	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	1	17:50							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	2	17:50							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	3.2	3	1	17:50	17	8.1	27	6.62	2.8	2.6	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	3.2	3	2	17:50	17	8.1	27	6.58	2.8	3.0	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	1	18:20	17	8.1	26.9	6.64	2.9	2.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	2	18:20	17	8.1	26.9	6.60	2.9	2.3	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	1	18:20							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	2	18:20							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	3.6	3	1	18:20	17	8.1	27	6.72	2.9	2.3	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	3.6	3	2	18:20	17	8.1	27	6.74	2.8	3.2	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	18:45	17	8.1	27	6.80	2.8	2.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	18:45	17	8.1	27	6.82	2.8	3.2	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	3.5	2	1	18:45	17	8.1	27	6.76	2.9	3.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	3.5	2	2	18:45	17	8.1	27.1	6.72	3	3.4	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	6	3	1	18:45	16.9	8.1	27.1	6.78	3	3.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	6	3	2	18:45	16.9	8.1	27.1	6.70	3	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	19:20	17	8.1	26.9	6.72	3.3	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	19:20	17	8.1	27	6.68	3.3	2.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	1	19:20							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	2	19:20							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.4	3	1	19:20	17	8.1	27	6.62	3.1	3.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.4	3	2	19:20	17	8.1	27	6.58	3.2	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	19:50	17	8.1	26.9	6.74	2.9	2.5	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	19:50	17	8.1	27	6.78	3	3.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.4	2	1	19:50	16.9	8.1	27	6.70	3.4	3.4	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	4.4	2	2	19:50	16.9	8.1	27	6.70	3.5	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	7.8	3	1	19:50	16.9	8.1	27.1	6.62	3.3	3.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	7.8	3	2	19:50	16.9	8.1	27.1	6.66	3.3	3.4	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	11:30	17	8.1	26.9	6.85	2.8	2.5	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	11:30	17	8.1	26.9	6.80	2.9	3.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.1	2	1	11:30	16.9	8.1	27	6.78	3.7	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.1	2	2	11:30	16.9	8.1	27	6.72	3.7	3.1	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.2	3	1	11:30	16.9	8.1	27	6.77	3.6	3.1	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	7.2	3	2	11:30	17	8.1	27	6.70	3.6	4.0	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	1	13:40	17	8.1	27	6.74	2.9	3.0	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	2	13:40	17	8.1	27	6.78	3	2.1	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	1	13:40							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	2	13:40							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	3.2	3	1	13:40	17	8.1	27	6.62	2.9	2.6	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	3.2	3	2	13:40	17	8.1	27	6.66	2.9	3.4	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	1	13:10	17	8.1	27	6.84	3.1	4.2	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	2	13:10	17	8	26.9	6.80	3.1	3.4	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	1	13:10							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	2	13:10							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	2.8	3	1	13:10	17	8.1	27	6.74	2.5	3.2	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	2.8	3	2	13:10	17	8.1	27	6.70	2.5	4.5	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	1	12:50	17	8	26.9	6.77	2.9	3.1	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	2	12:50	17	8	26.9	6.81	3	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	1	12:50							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	2	12:50							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3	3	1	12:50	16.9	8.1	27	6.68	2.4	2.2	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	3	3	2	12:50	16.9	8	27	6.76	2.5	2.9	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	12:20	17	8.1	26.9	6.78	2.5	3.9	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	12:20	17	8.1	26.9	6.84	2.5	2.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	3.3	2	1	12:20	16.9	8.1	27	6.72	3.2	2.8	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	3.3	2	2	12:20	16.9	8.1	27	6.76	3.2	3.1	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	5.6	3	1	12:20	16.9	8.1	27.1	6.70	2.9	3.5	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	5.6	3	2	12:20	17	8.1	27.1	6.66	2.9	2.9	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	12:00	17	8.1	26.9	6.84	3.5	2.6	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	12:00	17	8.1	26.9	6.88	3.6	3.7	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	1	12:00							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	2	12:00							28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4	3	1	12:00	17	8.1	27	6.78	2.9	2.5	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4	3	2	12:00	17	8.1	27	6.82	2.9	2.3	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	14:15	17	8	27	6.84	2.7	3.3	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	14:15	17	8.1	27	6.80	2.7	2.5	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.4	2	1	14:15	17	8.1	27.1	6.76	2.9	2.6	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.4	2	2	14:15	17	8.1	27.1	6.72	3	3.6	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	7.8	3	1	14:15	16.9	8.1	27.2	6.65	2.6	4.2	28-01-2014
TM-CLK Southern	HY/2012/07	16-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	7.8	3	2	14:15	17	8.2	27.2	6.68	2.6	2.9	28-01-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)5	Surface	1	1	1	17:59	16.5	7.6	27.2	7.68	17.4	9.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)5	Surface	1	1	2	17:59	16.4	7.6	27.3	7.72	17.2	10.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)5	Middle	5.2	2	1	17:59	16.6	7.7	27.3	7.56	14.4	10.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)5	Middle	5.2	2	2	17:59	16.6	7.7	27.4	7.58	14.8	8.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)5	Bottom	9.4	3	1	17:59	16.6	7.8	27.4	7.60	13.7	9.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)5	Bottom	9.4	3	2	17:59	16.6	7.8	27.4	7.64	13.7	11.1	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4a	Surface	1	1	1	18:32	16.5	7.6	27.1	7.58	12.8	5.3	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4a	Surface	1	1	2	18:32	16.4	7.7	27.2	7.60	12.9	6.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4a	Middle		2	1	18:32							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4a	Middle		2	2	18:32							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4a	Bottom	4	3	1	18:32	16.5	7.8	27.3	7.66	12.3	6.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4a	Bottom	4	3	2	18:32	16.5	7.8	27.3	7.68	12.5	7.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4	Surface	1	1	1	18:56	16.4	7.8	27.1	7.48	13.4	5.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4	Surface	1	1	2	18:56	16.4	7.8	27.2	7.52	13.3	5.9	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4	Middle		2	1	18:56							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4	Middle		2	2	18:56							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4	Bottom	4.2	3	1	18:56	16.5	7.8	27.3	7.58	13	6.1	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	SR4	Bottom	4.2	3	2	18:56	16.5	7.8	27.3	7.55	13.2	6.6	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS8	Surface	1	1	1	19:20	16.4	7.8	27.2	7.49	12.5	6.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS8	Surface	1	1	2	19:20	16.3	7.7	27.2	7.55	12.3	6.7	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS8	Middle		2	1	19:20							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS8	Middle		2	2	19:20							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS8	Bottom	4.8	3	1	19:20	16.4	7.8	27.3	7.60	13.4	5.7	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS8	Bottom	4.8	3	2	19:20	16.5	7.8	27.3	7.62	13.5	5.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)16	Surface	1	1	1	19:44	16.4	7.7	27.3	7.68	15	6.1	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)16	Surface	1	1	2	19:44	16.4	7.7	27.2	7.72	15.1	7.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)16	Middle	4.6	2	1	19:44	16.5	7.8	27.3	7.54	15.8	9.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)16	Middle	4.6	2	2	19:44	16.4	7.8	27.3	7.52	15.6	8.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)16	Bottom	8.2	3	1	19:44	16.5	7.8	27.3	7.44	13.8	7.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)16	Bottom	8.2	3	2	19:44	16.5	7.8	27.4	7.48	13.9	7.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)9	Surface	1	1	1	20:10	16.3	7.7	27.2	7.71	15.4	5.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)9	Surface	1	1	2	20:10	16.3	7.7	27.3	7.73	15.6	4.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)9	Middle		2	1	20:10							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)9	Middle		2	2	20:10							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)9	Bottom	4.6	3	1	20:10	16.4	7.8	27.3	7.88	15.3	6.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	IS(Mf)9	Bottom	4.6	3	2	20:10	16.4	7.8	27.3	7.86	15.5	4.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)3	Surface	1	1	1	20:40	16.3	7.6	27.2	7.55	15.1	9.5	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)3	Surface	1	1	2	20:40	16.2	7.6	27.2	7.56	15	10.3	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)3	Middle	6.6	2	1	20:40	16.3	7.6	27.3	7.66	14.4	9.7	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)3	Middle	6.6	2	2	20:40	16.3	7.7	27.3	7.68	14.6	9.3	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)3	Bottom	12.2	3	1	20:40	16.4	7.6	27.4	7.58	15.2	12.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Flood	Sunny	Small Wave	CS(Mf)3	Bottom	12.2	3	2	20:40	16.4	7.5	27.3	7.61	15.4	11.5	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)3	Surface	1	1	1	12:29	16.7	7.4	27.2	7.40	15	9.6	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)3	Surface	1	1	2	12:29	16.7	7.4	27.2	7.36	15.2	9.6	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)3	Middle	6.4	2	1	12:29	16.6	7.6	27.3	7.50	15.3	9.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)3	Middle	6.4	2	2	12:29	16.7	7.6	27.3	7.48	15.5	9.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)3	Bottom	11.8	3	1	12:29	16.7	7.5	27.4	7.38	15.4	8.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)3	Bottom	11.8	3	2	12:29	16.7	7.5	27.4	7.42	15.3	8.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4a	Surface	1	1	1	15:05	16.7	7.7	27.3	7.38	12.6	5.1	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4a	Surface	1	1	2	15:05	16.6	7.6	27.2	7.40	12.9	6.3	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4a	Middle		2	1	15:05							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4a	Middle		2	2	15:05							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4a	Bottom	3.6	3	1	15:05	16.7	7.8	27.4	7.44	12.5	6.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4a	Bottom	3.6	3	2	15:05	16.7	7.8	27.4	7.48	12.8	7.9	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4	Surface	1	1	1	14:35	16.6	7.8	27.2	7.48	13.5	4.6	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4	Surface	1	1	2	14:35	16.7	7.8	27.2	7.46	13.6	4.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4	Middle		2	1	14:35							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4	Middle		2	2	14:35							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4	Bottom	3.8	3	1	14:35	16.7	7.8	27.3	7.55	13.1	6.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	SR4	Bottom	3.8	3	2	14:35	16.7	7.8	27.4	7.56	12.8	7.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS8	Surface	1	1	1	14:05	16.7	7.6	27.3	7.56	12.7	4.5	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS8	Surface	1	1	2	14:05	16.7	7.7	27.2	7.54	12.4	4.5	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS8	Middle		2	1	14:05							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS8	Middle		2	2	14:05							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS8	Bottom	4.2	3	1	14:05	16.8	7.7	27.3	7.40	13.3	6.7	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS8	Bottom	4.2	3	2	14:05	16.7	7.7	27.3	7.44	13.6	6.9	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)16	Surface	1	1	1	13:34	16.7	7.7	27.1	7.77	15.1	9.6	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)16	Surface	1	1	2	13:34	16.7	7.7	27.2	7.78	15.5	10.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)16	Middle	4.2	2	1	13:34	16.6	7.7	27.3	7.54	15.6	8.9	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)16	Middle	4.2	2	2	13:34	16.7	7.8	27.3	7.50	16	8.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)16	Bottom	7.4	3	1	13:34	16.7	7.8	27.4	7.41	13.6	8.5	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)16	Bottom	7.4	3	2	13:34	16.8	7.8	27.4	7.36	14.1	8.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)9	Surface	1	1	1	13:04	16.7	7.7	27.3	7.60	15.5	8.1	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)9	Surface	1	1	2	13:04	16.7	7.7	27.2	7.64	15.8	9.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)9	Middle		2	1	13:04							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)9	Middle		2	2	13:04							04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)9	Bottom	4.2	3	1	13:04	16.8	7.8	27.3	7.78	15.5	11.8	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	IS(Mf)9	Bottom	4.2	3	2	13:04	16.7	7.8	27.4	7.82	15.7	11.1	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)5	Surface	1	1	1	15:35	16.6	7.7	27.2	7.48	17.4	8.1	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)5	Surface	1	1	2	15:35	16.8	7.6	27.3	7.50	17.5	9.5	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)5	Middle	4.9	2	1	15:35	16.7	7.7	27.4	7.44	14.3	8.2	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)5	Middle	4.9	2	2	15:35	16.7	7.7	27.4	7.38	14.6	9.4	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)5	Bottom	8.8	3	1	15:35	16.6	7.8	27.5	7.58	13.8	8.0	04-02-2014
TM-CLK Southern	HY/2012/07	18-01-2014	Mid-Ebb	Sunny	Small Wave	CS(Mf)5	Bottom	8.8	3	2	15:35	16.8	7.8	27.5	7.60	13.6	9.2	04-02-2014

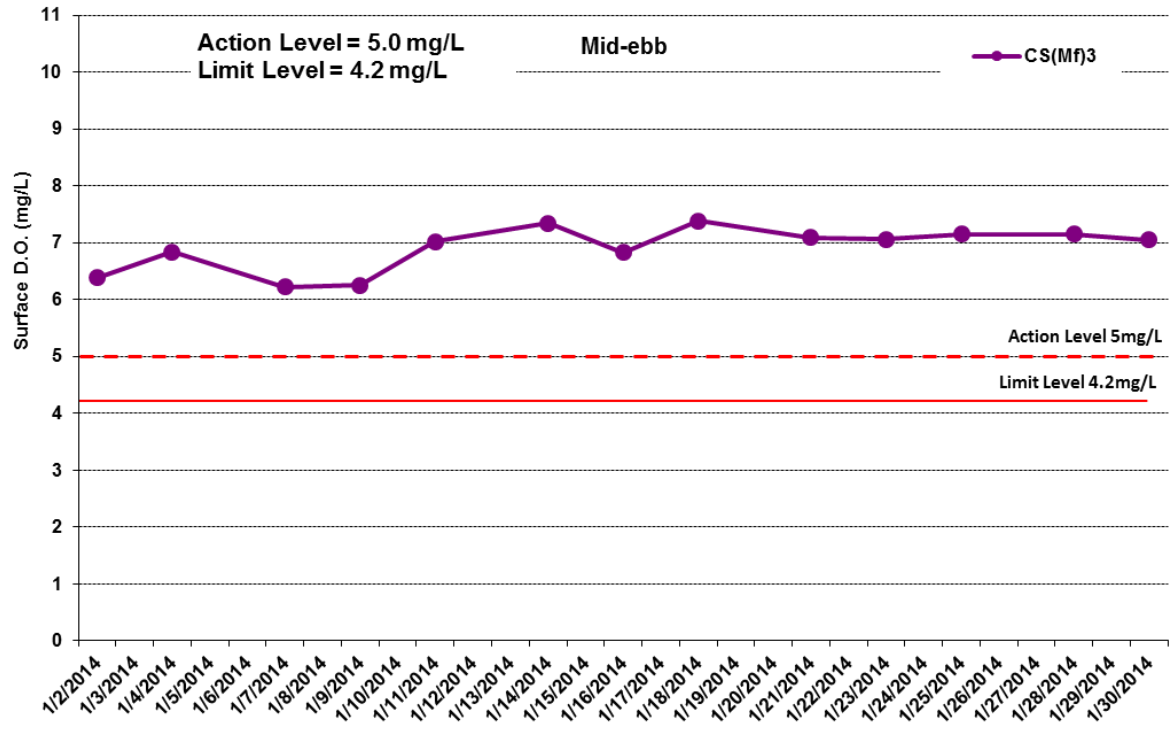
Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Surface	1	1	1	8:32	16.4	8	27.3	7.34	3.4	3.3	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Surface	1	1	2	8:32	16.4	8.1	27.4	7.26	3.5	3.9	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Middle	5	2	1	8:32	16.3	8	27.3	7.16	3.5	3.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Middle	5	2	2	8:32	16.3	8	27.3	7.12	3.6	4.2	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Bottom	9	3	1	8:32	16.3	8	27.3	7.08	3.7	3.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Bottom	9	3	2	8:32	16.2	8	27.4	7.10	3.6	3.5	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Surface	1	1	1	9:15	16.3	8.1	27.3	7.16	3.3	4.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Surface	1	1	2	9:15	16.3	8.1	27.3	7.20	3.3	4.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Middle		2	1	9:15							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Middle		2	2	9:15							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Bottom	3.8	3	1	9:15	16.2	8.1	27.4	7.03	3.2	3.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Bottom	3.8	3	2	9:15	16.2	8.1	27.4	7.10	3.2	3.9	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4	Surface	1	1	1	9:45	16.3	8.1	27.3	7.11	3.3	5.2	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4	Surface	1	1	2	9:45	16.3	8.1	27.3	7.04	3.3	4.7	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4	Middle		2	1	9:45							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4	Middle		2	2	9:45							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4	Bottom	3.6	3	1	9:45	16.3	8.1	27.3	7.06	3.3	4.2	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	SR4	Bottom	3.6	3	2	9:45	16.2	8.1	27.4	7.12	3.2	4.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS8	Surface	1	1	1	10:10	16.3	8.1	27.4	7.04	3.2	3.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS8	Surface	1	1	2	10:10	16.3	8.1	27.3	7.00	3.3	3.1	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS8	Middle		2	1	10:10							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS8	Middle		2	2	10:10							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS8	Bottom	4.2	3	1	10:10	16.3	8.1	27.4	7.11	4	5.9	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS8	Bottom	4.2	3	2	10:10	16.3	8.1	27.4	7.15	4.1	3.9	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Surface	1	1	1	10:35	16.3	8	27.3	7.12	3.6	2.5	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Surface	1	1	2	10:35	16.3	8.1	27.4	7.04	3.7	2.9	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Middle	3.6	2	1	10:35	16.3	8.1	27.4	7.00	3.8	2.9	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Middle	3.6	2	2	10:35	16.2	8	27.4	6.96	3.8	4.1	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Bottom	6.2	3	1	10:35	16.2	8	27.4	6.94	3.8	2.8	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Bottom	6.2	3	2	10:35	16.2	8	27.5	7.00	3.9	2.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Surface	1	1	1	11:08	16.2	8.1	27.3	6.96	3.7	3.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Surface	1	1	2	11:08	16.2	8.1	27.3	7.02	3.6	2.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Middle		2	1	11:08							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Middle		2	2	11:08							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Bottom	4.6	3	1	11:08	16.2	8.1	27.4	7.08	3.5	4.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Bottom	4.6	3	2	11:08	16.2	8	27.4	7.14	3.5	4.8	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Surface	1	1	1	11:43	16.3	8.1	27.3	7.03	3.5	4.1	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Surface	1	1	2	11:43	16.3	8.1	27.3	7.10	3.5	4.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Middle	4.7	2	1	11:43	16.2	8.1	27.4	6.94	3.7	3.2	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Middle	4.7	2	2	11:43	16.2	8.1	27.4	6.98	3.8	4.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Bottom	8.4	3	1	11:43	16.2	8.1	27.4	6.92	3.5	2.8	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Bottom	8.4	3	2	11:43	16.1	8.1	27.4	6.84	3.4	3.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Surface	1	1	1	14:16	16.3	8.1	27.3	7.12	3.5	6.1	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Surface	1	1	2	14:16	16.3	8.1	27.3	7.06	3.5	6.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Middle	4.4	2	1	14:16	16.3	8.1	27.4	7.03	3.6	4.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Middle	4.4	2	2	14:16	16.3	8.1	27.4	7.10	3.6	5.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Bottom	7.8	3	1	14:16	16.2	8.1	27.5	6.94	3.7	6.2	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Bottom	7.8	3	2	14:16	16.2	8.1	27.5	6.88	3.8	6.2	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Surface	1	1	1	16:50	16.3	8.1	27.2	7.08	3.2	5.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Surface	1	1	2	16:50	16.3	8.1	27.2	7.02	3.2	5.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Middle		2	1	16:50							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Middle		2	2	16:50							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Bottom	3.4	3	1	16:50	16.2	8	27.3	7.14	3.3	3.3	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Bottom	3.4	3	2	16:50	16.2	8.1	27.3	7.10	3.4	4.5	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Surface	1	1	1	16:25	16.3	8	27.3	6.98	3.6	5.3	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Surface	1	1	2	16:25	16.2	8.1	27.4	6.92	3.6	4.8	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Middle		2	1	16:25							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Middle		2	2	16:25							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Bottom	3.2	3	1	16:25	16.2	8.1	27.3	7.03	3.5	4.8	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Bottom	3.2	3	2	16:25	16.2	8.1	27.4	7.00	3.5	5.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Surface	1	1	1	15:58	16.3	8.1	27.3	6.88	3.4	5.8	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Surface	1	1	2	15:58	16.2	8.1	27.4	6.94	3.5	5.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Middle		2	1	15:58							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Middle		2	2	15:58							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Bottom	3.8	3	1	15:58	16.3	8	27.3	7.12	3.9	4.7	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Bottom	3.8	3	2	15:58	16.3	8.1	27.4	7.06	3.9	5.9	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Surface	1	1	1	15:25	16.3	8.1	27.3	7.02	3.6	3.3	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Surface	1	1	2	15:25	16.3	8.1	27.3	7.06	3.5	2.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Middle	3.4	2	1	15:25	16.3	8	27.4	7.08	3.7	4.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Middle	3.4	2	2	15:25	16.2	8.1	27.4	7.12	3.7	5.8	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Bottom	5.8	3	1	15:25	16.2	8.1	27.4	7.14	3.7	5.3	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Bottom	5.8	3	2	15:25	16.2	8.1	27.4	7.08	3.7	6.3	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Surface	1	1	1	15:00	16.3	8.1	27.3	7.08	3.5	2.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Surface	1	1	2	15:00	16.3	8.1	27.2	7.14	3.6	3.0	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Middle		2	1	15:00							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Middle		2	2	15:00							04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Bottom	4.2	3	1	15:00	16.3	8.1	27.3	7.02	3.5	5.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Bottom	4.2	3	2	15:00	16.3	8	27.3	7.08	3.4	6.4	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Surface	1	1	1	17:25	16.3	8	27.3	7.10	3.4	3.3	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Surface	1	1	2	17:25	16.3	8.1	27.4	7.14	3.4	4.5	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Middle	4.8	2	1	17:25	16.2	8	27.3	7.08	3.6	3.6	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Middle	4.8	2	2	17:25	16.2	8	27.3	7.02	3.7	4.1	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Bottom	8.6	3	1	17:25	16.1	8	27.3	7.14	3.8	3.5	04-02-2014
TM-CLK Southern	HY/2012/07	21-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Bottom	8.6	3	2	17:25	16.1	8.1	27.4	7.20	3.8	3.7	04-02-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Surface	1	1	1	9:45	16.4	8	27.3	7.43	2.9	3.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Surface	1	1	2	9:45	16.3	7.9	27.2	7.35	3	2.5	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Middle	5.2	2	1	9:45	16.4	8	27.3	7.25	2.4	3.1	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Middle	5.2	2	2	9:45	16.5	8	27.4	7.21	2.5	4.2	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Bottom	9.4	3	1	9:45	16.5	8	27.5	7.17	2.4	3.8	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Bottom	9.4	3	2	9:45	16.4	8	27.4	7.19	2.3	3.3	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Surface	1	1	1	10:20	16.3	8	27.2	7.25	2.5	3.3	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Surface	1	1	2	10:20	16.4	8	27.3	7.29	2.6	3.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Middle		2	1	10:20							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Middle		2	2	10:20							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Bottom	4.2	3	1	10:20	16.4	8	27.4	7.12	2.7	2.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Bottom	4.2	3	2	10:20	16.4	8	27.4	7.19	2.7	2.9	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	FIne	Great Wave	SR4	Surface	1	1	1	10:50	16.4	8	27.3	7.20	2.2	3.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	FIne	Great Wave	SR4	Surface	1	1	2	10:50	16.3	8	27.2	7.13	2.3	3.2	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	FIne	Great Wave	SR4	Middle		2	1	10:50							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	FIne	Great Wave	SR4	Middle		2	2	10:50							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	FIne	Great Wave	SR4	Bottom	3.8	3	1	10:50	16.4	8	27.3	7.15	2.2	3.1	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	FIne	Great Wave	SR4	Bottom	3.8	3	2	10:50	16.5	8	27.4	7.21	2.2	2.3	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS8	Surface	1	1	1	11:30	16.2	8	27.4	7.13	1.9	2.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS8	Surface	1	1	2	11:30	16.3	8	27.4	7.09	2	2.5	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS8	Middle		2	1	11:30							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS8	Middle		2	2	11:30							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS8	Bottom	4.4	3	1	11:30	16.4	8	27.4	7.20	2.3	2.6	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS8	Bottom	4.4	3	2	11:30	16.3	8	27.5	7.24	2.5	2.9	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Surface	1	1	1	12:00	16.3	8	27.3	7.21	2.5	2.3	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Surface	1	1	2	12:00	16.4	8	27.4	7.13	2.6	2.8	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Middle	3.8	2	1	12:00	16.4	8	27.4	7.09	3.1	2.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Middle	3.8	2	2	12:00	16.3	8	27.5	7.05	3	2.8	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Bottom	6.6	3	1	12:00	16.4	8	27.6	7.03	1.8	4.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Bottom	6.6	3	2	12:00	16.5	8	27.5	7.08	2	3.1	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Surface	1	1	1	12:30	16.3	8	27.2	7.02	2.2	4.2	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Surface	1	1	2	12:30	16.2	8	27.1	7.08	2.3	3.6	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Middle		2	1	12:30							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Middle		2	2	12:30							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Bottom	4.8	3	1	12:30	16.3	8	27.2	7.13	2.6	4.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Bottom	4.8	3	2	12:30	16.4	8	27.3	7.20	2.5	3.6	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Surface	1	1	1	13:00	16.3	8	27.2	7.09	3	2.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Surface	1	1	2	13:00	16.4	8	27.3	7.16	3.1	3.1	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Middle	4.6	2	1	13:00	16.4	8	27.4	7.00	2.9	2.5	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Middle	4.6	2	2	13:00	16.3	8	27.3	7.04	3	2.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Bottom	8.2	3	1	13:00	16.4	8	27.5	6.98	2	2.8	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Bottom	8.2	3	2	13:00	16.5	8	27.5	6.90	2.1	3.5	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Surface	1	1	1	16:03	16.3	8	27.3	7.03	3.1	2.2	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Surface	1	1	2	16:03	16.2	8	27.4	7.10	3.1	2.1	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Middle	4.4	2	1	16:03	16.4	8	27.4	6.94	3	2.2	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Middle	4.4	2	2	16:03	16.4	8	27.5	6.98	3	3.2	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Bottom	7.8	3	1	16:03	16.5	8.1	27.5	6.92	2.1	2.6	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Bottom	7.8	3	2	16:03	16.6	8.1	27.4	6.84	2.2	2.6	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Surface	1	1	1	18:33	16.4	8	27.2	7.19	2.5	2.5	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Surface	1	1	2	18:33	16.5	8	27.2	7.23	2.6	2.9	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Middle		2	1	18:33							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Middle		2	2	18:33							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Bottom	3.8	3	1	18:33	16.4	8	27.3	7.06	2.8	2.1	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Bottom	3.8	3	2	18:33	16.4	8	27.4	7.13	2.7	3.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Surface	1	1	1	18:03	16.3	8	27.4	7.14	2.3	2.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Surface	1	1	2	18:03	16.2	8	27.3	7.07	2.3	2.8	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Middle		2	1	18:03							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Middle		2	2	18:03							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Bottom	3.4	3	1	18:03	16.4	8	27.4	7.09	2.3	2.8	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Bottom	3.4	3	2	18:03	16.3	8.1	27.5	7.15	2.2	3.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Surface	1	1	1	17:33	16.3	8	27.4	7.07	2	3.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Surface	1	1	2	17:33	16.4	8	27.5	7.03	2.1	3.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Middle		2	1	17:33							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Middle		2	2	17:33							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Bottom	3.8	3	1	17:33	16.4	8	27.5	7.14	2.4	3.0	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Bottom	3.8	3	2	17:33	16.5	8	27.6	7.18	2.5	2.3	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Surface	1	1	1	17:03	16.5	8	27.5	7.15	2.6	3.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Surface	1	1	2	17:03	16.4	8	27.4	7.07	2.6	4.9	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Middle	3.6	2	1	17:03	16.4	8	27.5	7.03	3.1	3.3	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Middle	3.6	2	2	17:03	16.5	8	27.4	6.99	3.1	3.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Bottom	6.2	3	1	17:03	16.6	8	27.6	6.97	1.9	2.5	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Bottom	6.2	3	2	17:03	16.5	8.1	27.5	7.02	2.1	2.3	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Surface	1	1	1	16:33	16.4	8	27.3	6.96	2.2	3.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Surface	1	1	2	16:33	16.4	8	27.2	7.02	2.3	3.9	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Middle		2	1	16:33							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Middle		2	2	16:33							05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Bottom	4.4	3	1	16:33	16.5	8	27.4	7.07	2.7	3.5	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Bottom	4.4	3	2	16:33	16.4	8.1	27.3	7.14	2.6	3.7	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Surface	1	1	1	Fine	16.3	8	27.2	7.37	3	2.9	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Surface	1	1	2	Fine	16.2	8	27.3	7.29	3.1	2.9	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Middle	4.9	2	1	Fine	16.4	8	27.4	7.19	2.4	4.2	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Middle	4.9	2	2	Fine	16.4	8	27.5	7.15	2.6	2.1	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Bottom	8.8	3	1	Fine	16.4	8	27.5	7.11	2.4	2.8	05-02-2014
TM-CLK Southern	HY/2012/07	23-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Bottom	8.8	3	2	Fine	16.5	8	27.4	7.13	2.4	2.1	05-02-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Surface	1	1	1	11:21	16.3	7.9	27.3	7.52	2.2	4.3	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Surface	1	1	2	11:21	16.2	7.9	27.4	7.44	2.2	3.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Middle	5.4	2	1	11:21	16.4	7.9	27.4	7.34	2.3	4.9	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Middle	5.4	2	2	11:21	16.5	7.9	27.5	7.30	2.3	5.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Bottom	9.8	3	1	11:21	16.5	7.9	27.6	7.26	2.2	4.3	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)5	Bottom	9.8	3	2	11:21	16.6	7.9	27.5	7.28	2.1	3.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Surface	1	1	1	15:51	16.3	7.9	27.3	7.34	1.9	4.7	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Surface	1	1	2	15:51	16.2	7.9	27.3	7.38	1.9	3.4	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Middle		2	1	15:51							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Middle		2	2	15:51							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Bottom	4.4	3	1	15:51	16.4	7.9	27.5	7.21	2.2	3.4	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4a	Bottom	4.4	3	2	15:51	16.5	7.9	27.4	7.28	2.2	3.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4	Surface	1	1	1	12:21	16.3	7.9	27.2	7.29	2.4	3.0	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4	Surface	1	1	2	12:21	16.2	7.9	27.3	7.22	2.5	3.6	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4	Middle		2	1	12:21							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4	Middle		2	2	12:21							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4	Bottom	4.4	3	1	12:21	16.4	7.9	27.4	7.24	2.6	3.3	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	SR4	Bottom	4.4	3	2	12:21	16.3	7.9	27.3	7.30	2.6	4.7	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS8	Surface	1	1	1	12:51	16.3	7.9	27.4	7.22	2.2	3.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS8	Surface	1	1	2	12:51	16.4	7.9	27.3	7.18	2.3	2.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS8	Middle		2	1	12:51							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS8	Middle		2	2	12:51							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS8	Bottom	4.8	3	1	12:51	16.4	7.9	27.4	7.29	2.5	3.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS8	Bottom	4.8	3	2	12:51	16.5	7.9	27.5	7.33	2.5	2.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Surface	1	1	1	13:21	16.3	7.9	27.3	7.30	2.3	3.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Surface	1	1	2	13:21	16.3	7.9	27.4	7.22	2.4	4.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Middle	4.1	2	1	13:21	16.3	7.9	27.5	7.18	2	4.0	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Middle	4.1	2	2	13:21	16.4	7.9	27.4	7.14	2	4.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Bottom	7.2	3	1	13:21	16.5	7.9	27.5	7.12	3.2	3.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)16	Bottom	7.2	3	2	13:21	16.4	7.9	27.6	7.17	3.2	4.1	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Surface	1	1	1	13:51	16.4	7.9	27.2	7.11	2.1	5.0	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Surface	1	1	2	13:51	16.3	7.9	27.3	7.17	2.1	5.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Middle		2	1	13:51							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Middle		2	2	13:51							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Bottom	4.6	3	1	13:51	16.4	7.9	27.4	7.22	2.2	5.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	IS(Mf)9	Bottom	4.6	3	2	13:51	16.5	7.9	27.3	7.29	2.3	4.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Surface	1	1	1	14:31	16.3	7.9	27.3	7.18	2.9	2.0	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Surface	1	1	2	14:31	16.4	7.9	27.2	7.25	3	3.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Middle	4.9	2	1	14:31	16.4	7.9	27.4	7.09	2.1	2.1	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Middle	4.9	2	2	14:31	16.5	7.9	27.5	7.13	2.1	3.4	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Bottom	8.8	3	1	14:31	16.5	7.9	27.5	7.07	2.3	3.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Flood	Fine	Great Wave	CS(Mf)3	Bottom	8.8	3	2	14:31	16.6	7.9	27.4	6.99	2.3	3.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Surface	1	1	1	21:34	16.3	7.9	27.3	7.12	3	3.0	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Surface	1	1	2	21:34	16.3	7.9	27.4	7.19	3	2.6	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Middle	4.7	2	1	21:34	16.4	7.9	27.4	7.00	2.2	2.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Middle	4.7	2	2	21:34	16.3	8	27.3	7.07	2.2	3.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Bottom	8.4	3	1	21:34	16.4	8	27.5	7.01	2.4	2.7	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)3	Bottom	8.4	3	2	21:34	16.5	8	27.4	6.90	2.4	2.3	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Surface	1	1	1	19:04	16.3	7.9	27.4	7.28	2	2.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Surface	1	1	2	19:04	16.2	7.9	27.3	7.32	2	2.9	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Middle		2	1	19:04							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Middle		2	2	19:04							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Bottom	3.8	3	1	19:04	16.4	7.9	27.5	7.15	2.2	3.0	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4a	Bottom	3.8	3	2	19:04	16.3	8	27.5	7.22	2.3	2.7	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Surface	1	1	1	19:34	16.3	7.9	27.3	7.23	2.5	3.0	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Surface	1	1	2	19:34	16.4	7.9	27.4	7.16	2.6	3.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Middle		2	1	19:34							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Middle		2	2	19:34							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Bottom	4.2	3	1	19:34	16.4	8	27.5	7.18	2.7	3.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	SR4	Bottom	4.2	3	2	19:34	16.5	8	27.4	7.24	2.7	3.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Surface	1	1	1	20:04	16.3	7.9	27.3	7.16	2.3	2.7	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Surface	1	1	2	20:04	16.3	7.9	27.2	7.12	2.4	2.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Middle		2	1	20:04							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Middle		2	2	20:04							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Bottom	4.6	3	1	20:04	16.4	7.9	27.4	7.23	2.6	2.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS8	Bottom	4.6	3	2	20:04	16.3	7.9	27.3	7.27	2.6	3.9	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Surface	1	1	1	20:34	16.3	7.9	27.3	7.24	2.4	4.1	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Surface	1	1	2	20:34	16.4	7.9	27.2	7.16	2.4	4.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Middle	3.9	2	1	20:34	16.5	7.9	27.4	7.12	2.1	3.6	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Middle	3.9	2	2	20:34	16.4	7.9	27.4	7.08	2.1	3.3	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Bottom	6.8	3	1	20:34	16.5	8	27.4	7.06	3.3	3.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)16	Bottom	6.8	3	2	20:34	16.5	8	27.5	7.11	3.3	4.7	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Surface	1	1	1	21:04	16.3	7.9	27.3	7.05	2.2	4.1	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Surface	1	1	2	21:04	16.2	7.9	27.4	7.11	2.2	2.5	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Middle		2	1	21:04							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Middle		2	2	21:04							20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Bottom	4.2	3	1	21:04	16.3	8	27.4	7.16	2.3	3.3	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	IS(Mf)9	Bottom	4.2	3	2	21:04	16.4	8	27.5	7.23	2.4	2.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Surface	1	1	1	18:29	16	7.9	27.3	7.46	2.3	2.8	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Surface	1	1	2	18:29	16.1	7.9	27.2	7.38	2.3	3.2	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Middle	5.1	2	1	18:29	16.3	7.9	27.4	7.28	2.4	3.6	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Middle	5.1	2	2	18:29	16.3	7.9	27.3	7.24	2.4	4.1	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Bottom	9.2	3	1	18:29	16.4	7.9	27.4	7.20	2.3	2.1	20-02-2014
TM-CLK Southern	HY/2012/07	25-01-2014	Mid-Ebb	Fine	Great Wave	CS(Mf)5	Bottom	9.2	3	2	18:29	16.5	7.9	27.5	7.22	2.2	2.4	20-02-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	14:30	16.4	7.6	27.1	7.40	4.3	4.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	14:30	16.5	7.7	27.2	7.37	4.3	4.3	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.5	2	1	14:30	16.6	7.7	27.3	7.23	4.5	4.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Middle	5.5	2	2	14:30	16.5	7.7	27.2	7.24	4.5	4.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.9	3	1	14:30	16.7	7.9	27.4	7.37	4.7	4.0	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)5	Bottom	9.9	3	2	14:30	16.8	7.8	27.5	7.38	4.7	5.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	1	15:00	16.4	7.7	27.2	7.25	3.2	3.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Surface	1	1	2	15:00	16.5	7.7	27.1	7.24	3.2	3.5	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	1	15:00							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Middle		2	2	15:00							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.6	3	1	15:00	16.7	7.8	27.2	7.11	28.8	4.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4a	Bottom	4.6	3	2	15:00	16.7	7.8	27.3	7.09	28.5	3.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	1	15:30	16.4	8.2	27.1	7.38	3.4	3.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Surface	1	1	2	15:30	16.5	8.2	27.2	7.41	3.4	4.0	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	1	15:30							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Middle		2	2	15:30							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.6	3	1	15:30	16.6	8.2	27.3	7.49	3.1	3.8	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	SR4	Bottom	4.6	3	2	15:30	16.5	8.2	27.4	7.48	3.1	4.5	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	1	16:00	16.4	8.1	27.2	7.18	3.6	4.8	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Surface	1	1	2	16:00	16.3	8.1	27.3	7.20	3.7	5.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	1	16:00							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Middle		2	2	16:00							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.7	3	1	16:00	16.5	8.2	27.3	7.30	3.6	4.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS8	Bottom	4.7	3	2	16:00	16.6	8.2	27.4	7.32	3.6	5.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	16:30	16.3	7.8	27.2	7.46	4	4.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	16:30	16.4	7.8	27.3	7.49	4	4.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.2	2	1	16:30	16.5	7.8	27.4	7.30	4.6	4.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Middle	4.2	2	2	16:30	16.6	7.8	27.4	7.33	4.7	3.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.4	3	1	16:30	16.6	7.9	27.5	7.28	4.1	5.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)16	Bottom	7.4	3	2	16:30	16.7	7.9	27.5	7.25	4.2	4.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	17:00	16.4	7.6	27.1	7.38	3	2.7	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	17:00	16.3	7.7	27.2	7.36	3	3.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	17:00							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	17:00							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.8	3	1	17:00	16.4	7.7	27.2	7.30	2.8	3.9	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	IS(Mf)9	Bottom	4.8	3	2	17:00	16.5	7.8	27.3	7.28	2.8	3.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	17:30	16.4	7.7	27.2	7.28	4.1	5.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	17:30	16.5	7.8	27.3	7.30	4.1	3.8	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	5	2	1	17:30	16.5	7.8	27.4	7.14	4.8	5.5	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Middle	5	2	2	17:30	16.6	7.8	27.5	7.13	4.8	4.8	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	9	3	1	17:30	16.7	7.9	27.6	7.23	4.1	6.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Flood	Cloudy	Small Wave	CS(Mf)3	Bottom	9	3	2	17:30	16.7	7.9	27.5	7.28	4.1	5.6	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	1	12:05	16.4	7.7	27.4	7.16	4.2	4.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Surface	1	1	2	12:05	16.3	7.7	27.3	7.15	4.2	5.3	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.9	2	1	12:05	16.4	7.8	27.5	7.04	4.9	3.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Middle	4.9	2	2	12:05	16.5	7.8	27.5	7.03	4.9	5.8	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	8.7	3	1	12:05	16.6	7.8	27.6	7.10	4.1	4.3	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)3	Bottom	8.7	3	2	12:05	16.7	7.8	27.6	7.12	4.2	4.5	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	1	9:57	16.2	7.6	27.2	7.11	3.3	2.6	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Surface	1	1	2	9:57	16.2	7.6	27.3	7.08	3.3	3.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	1	9:57							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Middle		2	2	9:57							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	4.5	3	1	9:57	16.4	7.8	27.4	7.03	2.9	4.9	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4a	Bottom	4.5	3	2	9:57	16.5	7.8	27.5	7.04	3	4.6	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	1	10:25	16.3	7.6	27.2	7.22	3.5	4.6	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Surface	1	1	2	10:25	16.4	7.6	27.3	7.20	3.5	4.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	1	10:25							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Middle		2	2	10:25							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4.4	3	1	10:25	16.4	7.8	27.4	7.31	3.2	4.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	SR4	Bottom	4.4	3	2	10:25	16.5	7.8	27.4	7.30	3.2	4.0	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	1	10:50	16.3	7.6	27.3	7.02	3.8	4.9	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Surface	1	1	2	10:50	16.3	7.6	27.3	7.03	3.8	4.7	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	1	10:50							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Middle		2	2	10:50							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.6	3	1	10:50	16.4	7.7	27.4	7.14	3.7	4.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS8	Bottom	4.6	3	2	10:50	16.5	7.7	27.5	7.16	3.7	4.3	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	1	11:12	16.2	7.6	27.1	7.30	4.2	5.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Surface	1	1	2	11:12	16.3	7.6	27.2	7.31	4.2	4.8	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	1	11:12	16.4	7.6	27.3	7.22	4.8	5.0	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Middle	4.1	2	2	11:12	16.4	7.6	27.4	7.24	4.8	4.6	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	7.1	3	1	11:12	16.5	7.7	27.5	7.16	4.2	4.0	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)16	Bottom	7.1	3	2	11:12	16.6	7.7	27.4	7.15	4.2	4.4	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	1	11:40	16.3	7.5	27.2	7.26	3.2	2.8	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Surface	1	1	2	11:40	16.4	7.5	27.3	7.27	3.2	2.5	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Middle		2	1	11:40							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Middle		2	2	11:40							07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Bottom	4.6	3	1	11:40	16.4	7.6	27.4	7.18	2.9	2.9	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	IS(Mf)9	Bottom	4.6	3	2	11:40	16.5	7.6	27.5	7.17	2.9	3.3	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	1	9:28	16.2	7.7	27.3	7.27	4.4	7.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Surface	1	1	2	9:28	16.3	7.8	27.4	7.28	4.5	7.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Middle	5.4	2	1	9:28	16.4	7.8	27.4	7.10	4.7	5.1	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Middle	5.4	2	2	9:28	16.4	7.8	27.4	7.09	4.6	6.2	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Bottom	9.7	3	1	9:28	16.5	7.9	27.5	7.19	4.7	8.3	07-02-2014
TM-CLK Southern	HY/2012/07	28-01-2014	Mid-Ebb	Cloudy	Small Wave	CS(Mf)5	Bottom	9.7	3	2	9:28	16.6	7.9	27.6	7.21	4.8	6.2	07-02-2014

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(° C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)	Received Date (SS)
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	16:19	16.5	7.6	27.2	7.50	2.5	3.6	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	16:19	16.6	7.6	27.3	7.52	2.5	4.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	5.1	2	1	16:19	16.5	7.7	27.3	7.38	2.1	3.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Middle	5.1	2	2	16:19	16.4	7.7	27.4	7.40	2.2	2.5	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	9.1	3	1	16:19	16.4	7.8	27.4	7.23	2.6	2.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)5	Bottom	9.1	3	2	16:19	16.5	7.8	27.5	7.24	2.7	3.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	1	16:50	16.4	7.8	27.2	7.28	2.4	4.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Surface	1	1	2	16:50	16.3	7.8	27.3	7.30	2.5	4.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	1	16:50							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Middle		2	2	16:50							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3.6	3	1	16:50	16.4	7.7	27.4	7.15	2.1	3.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4a	Bottom	3.6	3	2	16:50	16.3	7.8	27.3	7.13	2.2	3.5	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	1	17:13	16.6	7.7	27.2	7.30	1.9	2.1	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4	Surface	1	1	2	17:13	16.7	7.7	27.1	7.32	1.9	2.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	1	17:13							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4	Middle		2	2	17:13							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	4.4	3	1	17:13	16.5	7.8	27.3	7.21	2.3	2.6	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	SR4	Bottom	4.4	3	2	17:13	16.6	7.8	27.4	7.25	2.3	2.9	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	1	17:40	16.7	7.9	27.2	7.15	2.1	2.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS8	Surface	1	1	2	17:40	16.8	7.9	27.2	7.16	2.1	2.6	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	1	17:40							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS8	Middle		2	2	17:40							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	4.7	3	1	17:40	16.5	7.9	27.3	7.20	3.3	3.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS8	Bottom	4.7	3	2	17:40	16.6	7.9	27.4	7.21	3.3	2.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	18:10	16.7	7.6	27.2	7.30	2.7	3.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	18:10	16.8	7.7	27.3	7.32	2.6	2.7	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	4.2	2	1	18:10	16.6	7.8	27.3	7.18	2.2	4.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Middle	4.2	2	2	18:10	16.7	7.8	27.3	7.19	2.3	2.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	7.4	3	1	18:10	16.5	7.8	27.4	7.28	3.1	3.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)16	Bottom	7.4	3	2	18:10	16.4	7.8	27.5	7.29	3.2	2.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	18:45	16.2	7.7	27.3	7.05	1.9	3.1	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	18:45	16.1	7.7	27.4	7.09	2	3.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	1	18:45							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Middle		2	2	18:45							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.7	3	1	18:45	16.3	7.9	27.4	7.23	2.2	2.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	IS(Mf)9	Bottom	4.7	3	2	18:45	16.2	7.9	27.5	7.26	2.2	2.9	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	19:28	16.1	7.7	27.1	7.24	2.1	3.5	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	19:28	16.2	7.6	27.2	7.27	2.2	2.9	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	5	2	1	19:28	16.3	7.7	27.3	7.05	3	3.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Middle	5	2	2	19:28	16.3	7.8	27.2	7.07	3.1	3.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8.9	3	1	19:28	16.4	7.9	27.4	7.13	2.2	3.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Flood	Fine	Small Wave	CS(Mf)3	Bottom	8.9	3	2	19:28	16.5	7.9	27.4	7.15	2.2	2.6	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	1	11:06	16.3	7.8	27.3	7.03	2.5	3.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Surface	1	1	2	11:06	16.2	7.8	27.2	7.08	2.5	2.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.8	2	1	11:06	16.3	7.9	27.4	6.92	3.2	3.2	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Middle	4.8	2	2	11:06	16.4	7.9	27.3	6.98	3.2	3.9	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	8.6	3	1	11:06	16.5	7.9	27.4	6.89	2.4	3.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)3	Bottom	8.6	3	2	11:06	16.5	7.9	27.5	6.81	2.3	2.7	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	1	13:41	16.3	7.8	27.4	7.19	2.6	2.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Surface	1	1	2	13:41	16.4	7.8	27.3	7.23	2.6	2.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	1	13:41							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Middle		2	2	13:41							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	3.4	3	1	13:41	16.4	7.8	27.4	7.06	2.4	3.5	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4a	Bottom	3.4	3	2	13:41	16.5	7.8	27.5	7.13	2.3	3.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	1	13:11	16.4	7.8	27.3	7.14	2.1	3.5	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Surface	1	1	2	13:11	16.3	7.8	27.2	7.09	2.1	3.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	1	13:11							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Middle		2	2	13:11							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	4	3	1	13:11	16.4	7.9	27.5	7.09	2.6	3.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	SR4	Bottom	4	3	2	13:11	16.5	7.9	27.4	7.05	2.6	3.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	1	12:41	16.3	7.8	27.3	7.07	2.2	3.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Surface	1	1	2	12:41	16.4	7.8	27.4	7.03	2.3	3.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	1	12:41							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Middle		2	2	12:41							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	4.4	3	1	12:41	16.4	7.8	27.4	7.14	3.6	2.5	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS8	Bottom	4.4	3	2	12:41	16.3	7.9	27.5	7.18	3.6	3.5	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	1	12:11	16.4	7.8	27.3	7.15	2.7	3.9	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Surface	1	1	2	12:11	16.5	7.8	27.4	7.06	2.8	3.2	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	4.1	2	1	12:11	16.5	7.8	27.5	7.03	2.5	3.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Middle	4.1	2	2	12:11	16.4	7.8	27.4	6.99	2.4	3.1	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	7.2	3	1	12:11	16.5	7.9	27.5	6.97	3.5	5.1	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)16	Bottom	7.2	3	2	12:11	16.6	7.9	27.6	7.02	3.4	2.6	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	1	11:41	16.4	7.8	27.2	6.96	2	3.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Surface	1	1	2	11:41	16.3	7.9	27.3	6.98	2.1	3.1	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	1	11:41							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Middle		2	2	11:41							12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4.4	3	1	11:41	16.4	7.9	27.4	7.07	2.4	3.4	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	IS(Mf)9	Bottom	4.4	3	2	11:41	16.5	7.9	27.3	7.14	2.4	3.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	1	14:16	16.3	7.8	27.3	7.37	2.8	3.8	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Surface	1	1	2	11:06	16.3	7.8	27.2	7.29	2.8	3.3	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.9	2	1	11:06	16.3	7.8	27.3	7.19	2.2	3.0	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Middle	4.9	2	2	11:06	16.4	7.8	27.4	7.15	2.3	3.6	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8.8	3	1	11:06	16.5	7.8	27.5	7.11	2.8	3.7	12-02-2014
TM-CLK Southern	HY/2012/07	30-01-2014	Mid-Ebb	Fine	Small Wave	CS(Mf)5	Bottom	8.8	3	2	11:06	16.4	7.8	27.5	7.13	2.8	3.5	12-02-2014



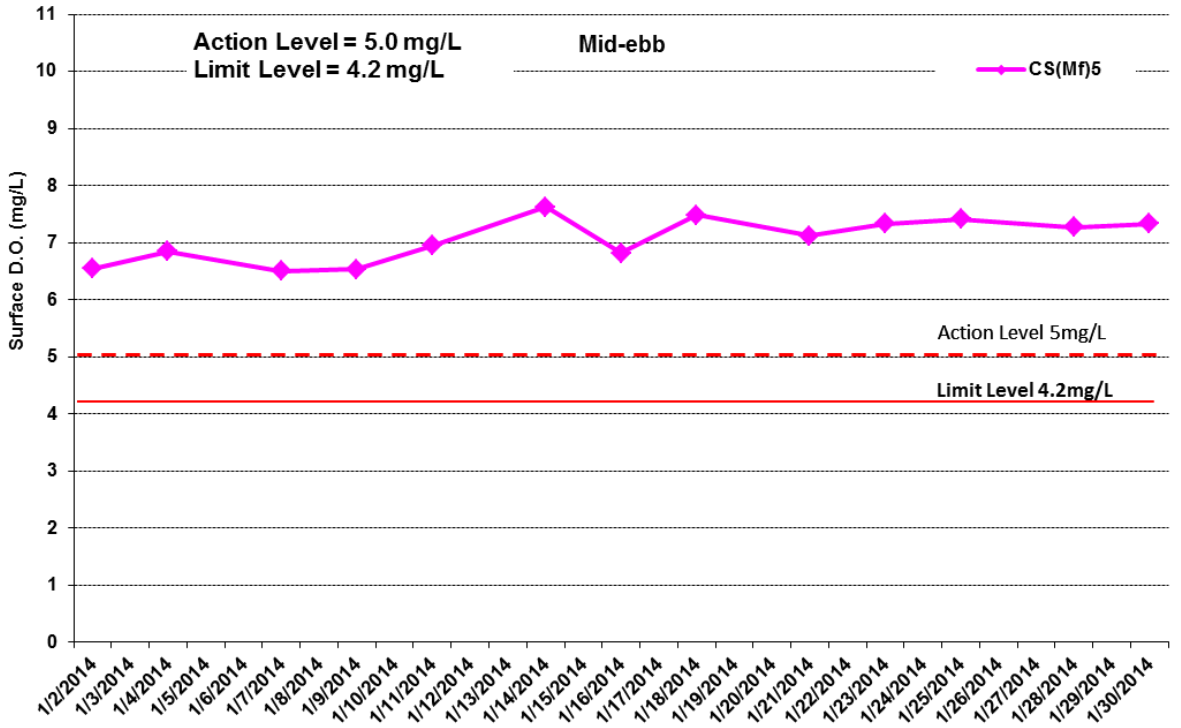
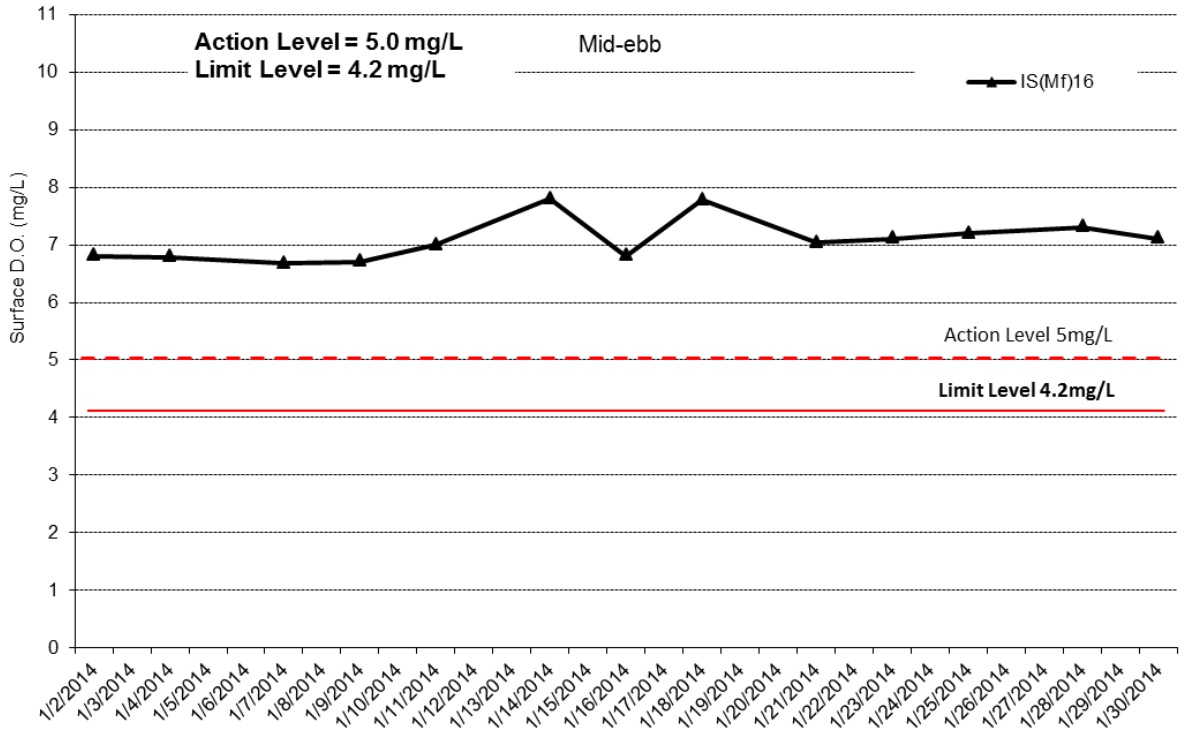


Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 31 January 2014 at CS(Mf)3 and CS(Mf)5.



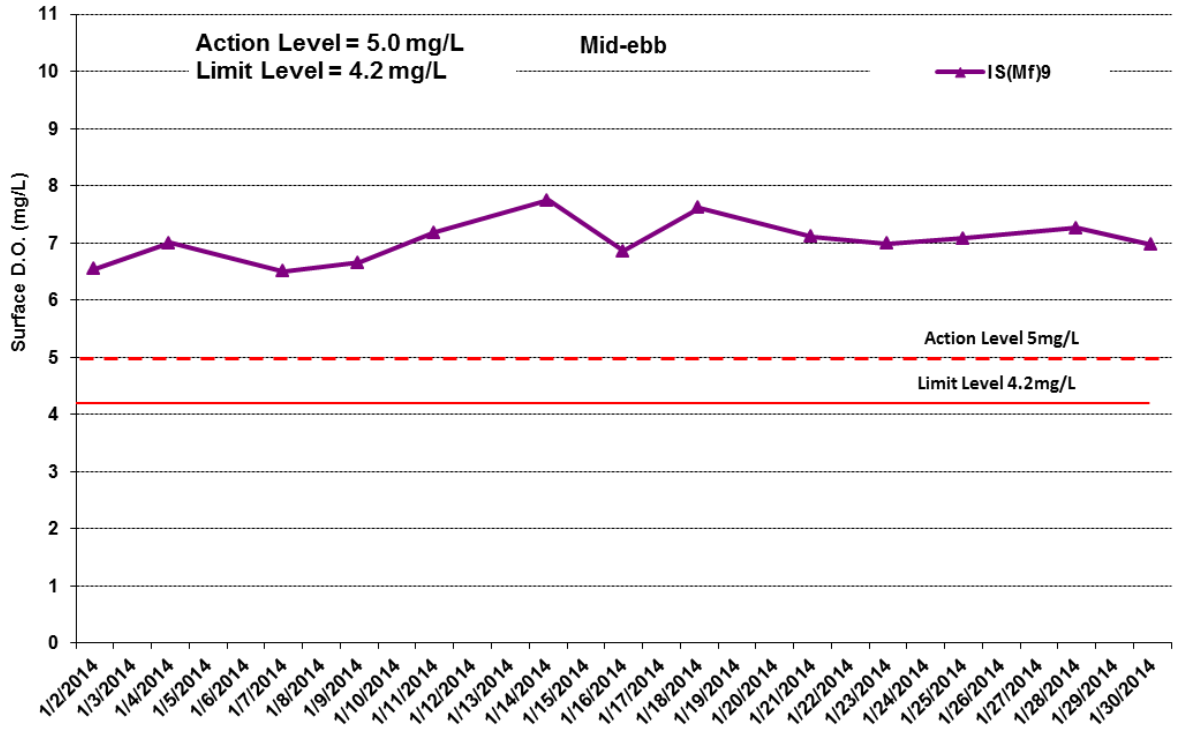


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9.

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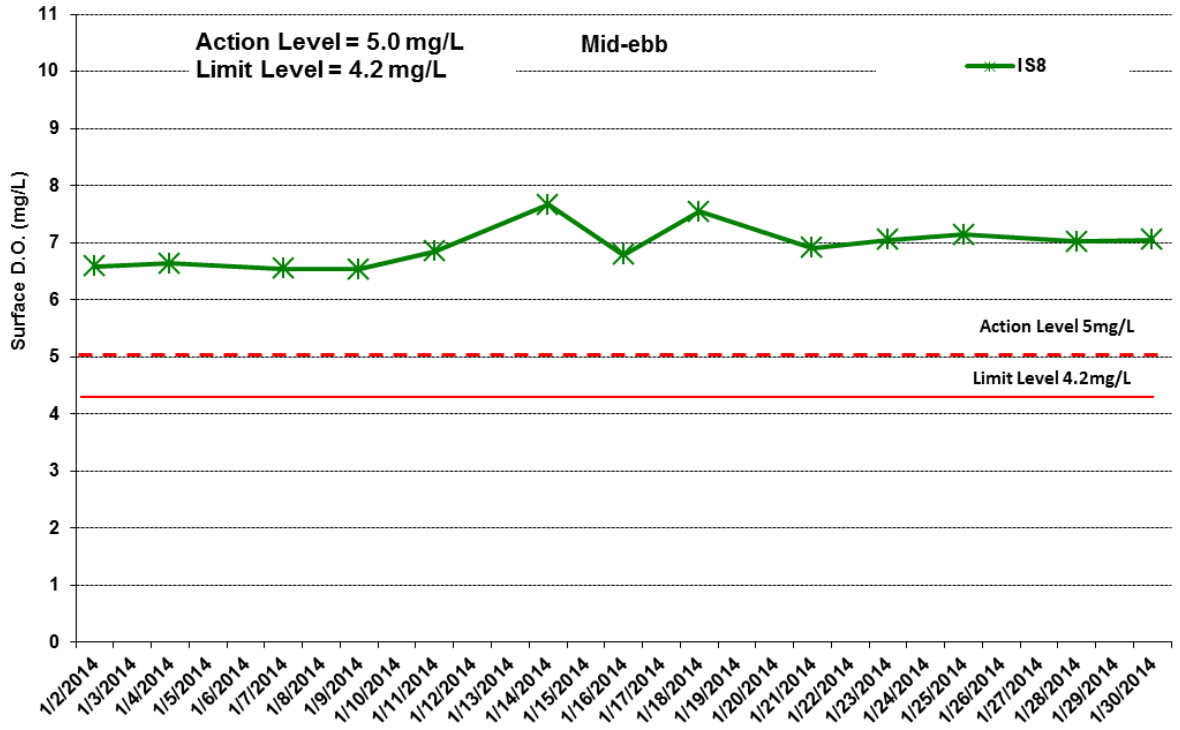

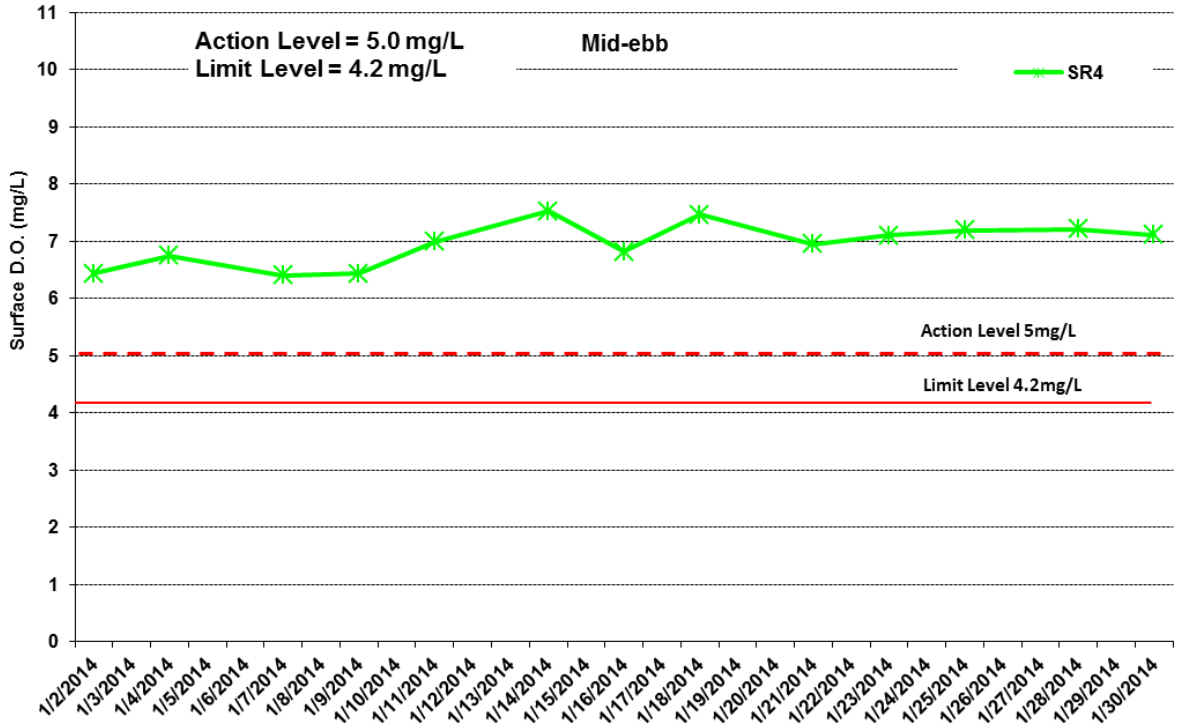

Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 31 January 2014 at IS8 and SR4.

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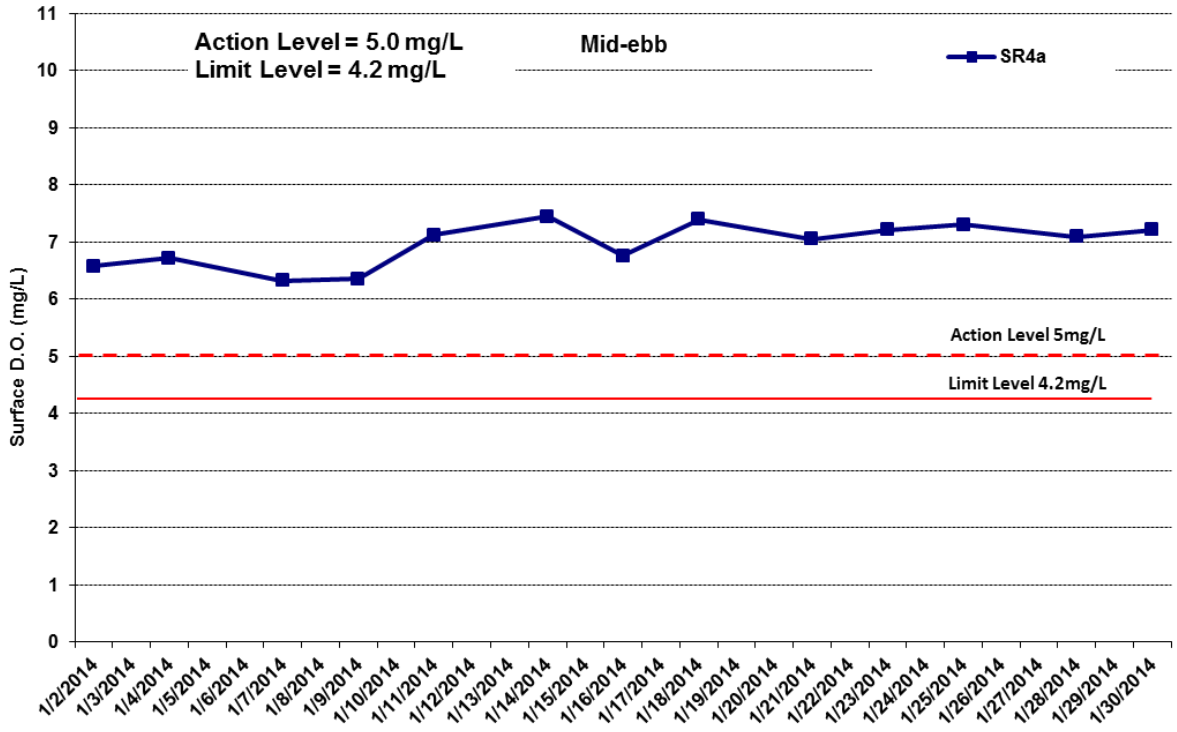
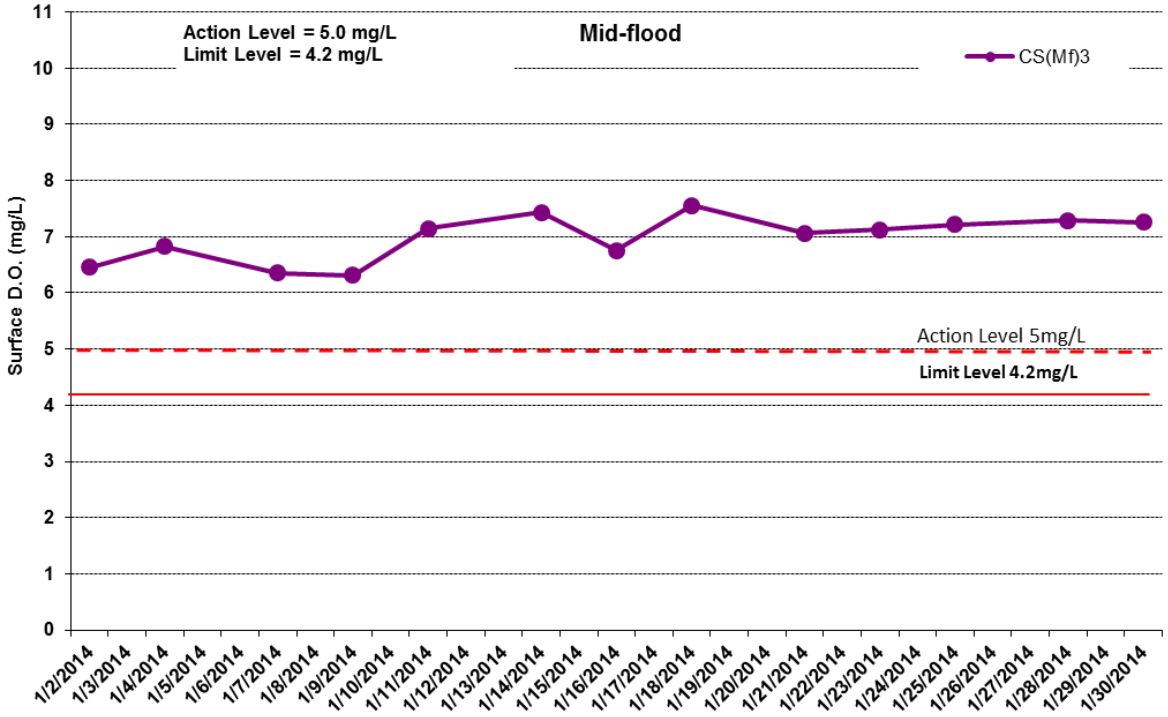


Figure J4 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 to 31 January 2014 at SR4a.



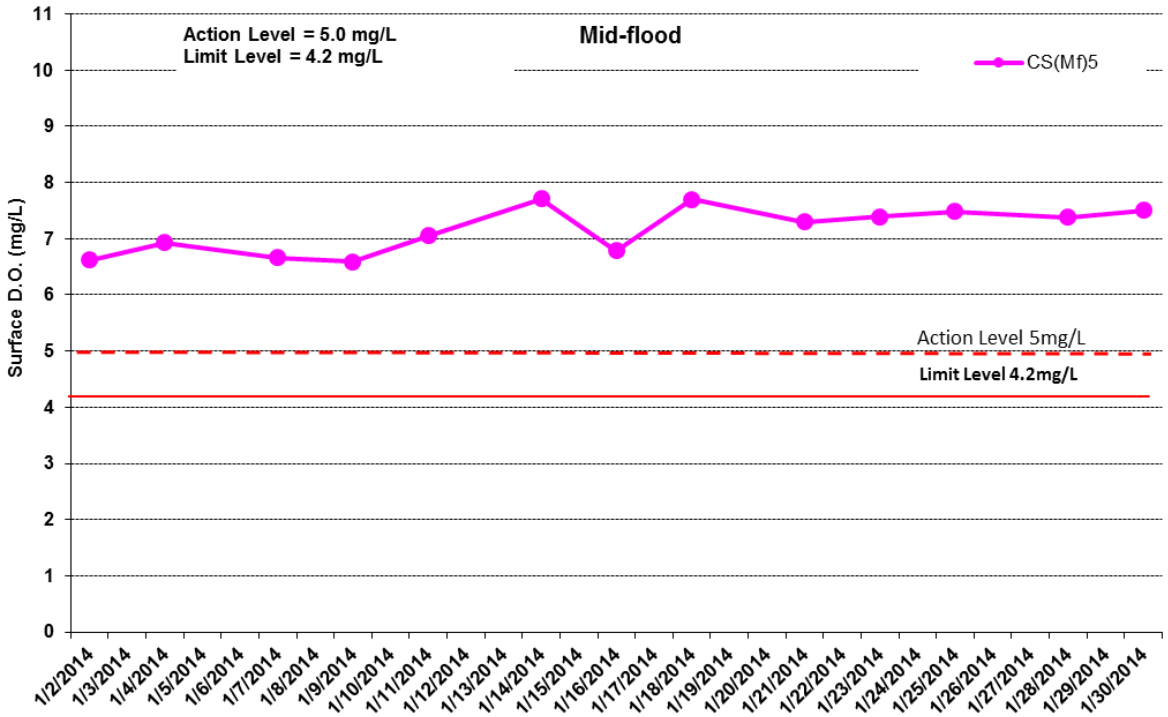
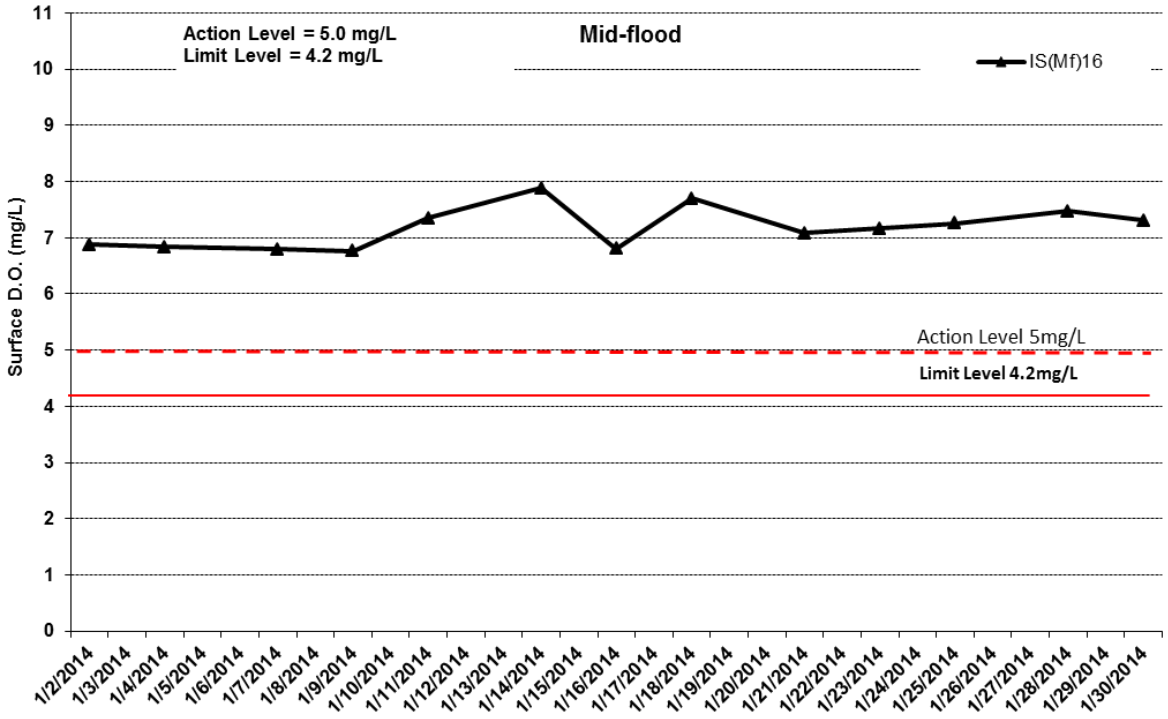


Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 31 January 2014 at CS(Mf)3 and CS(Mf)5.



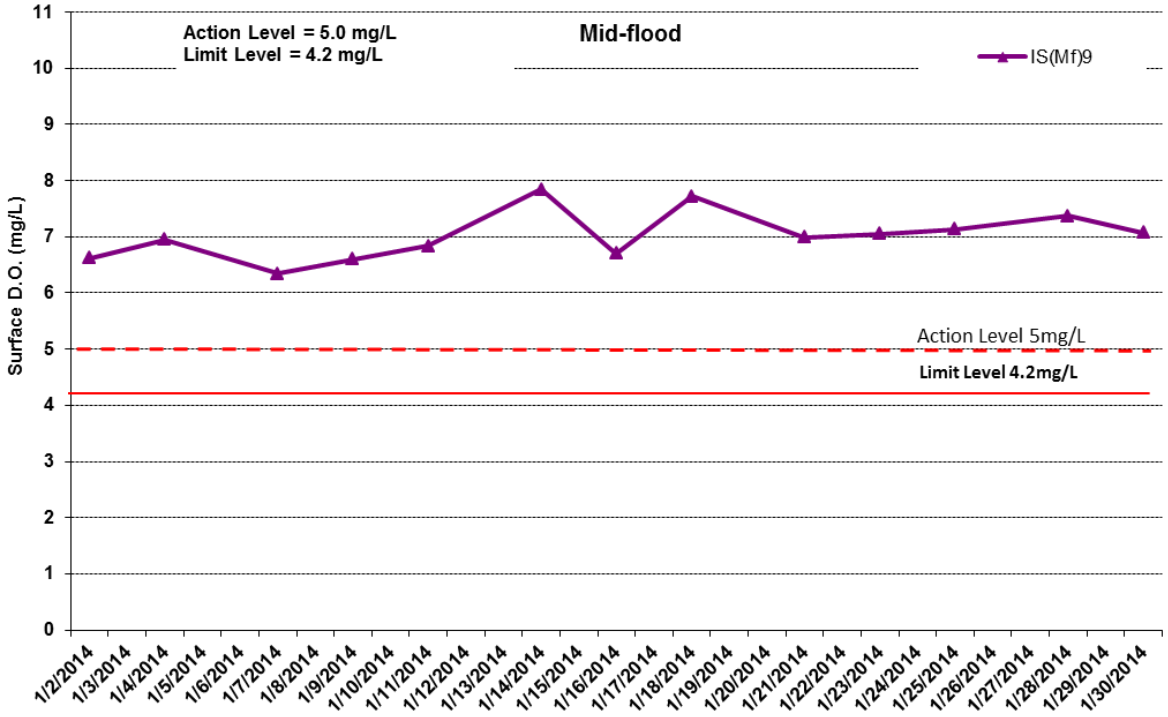
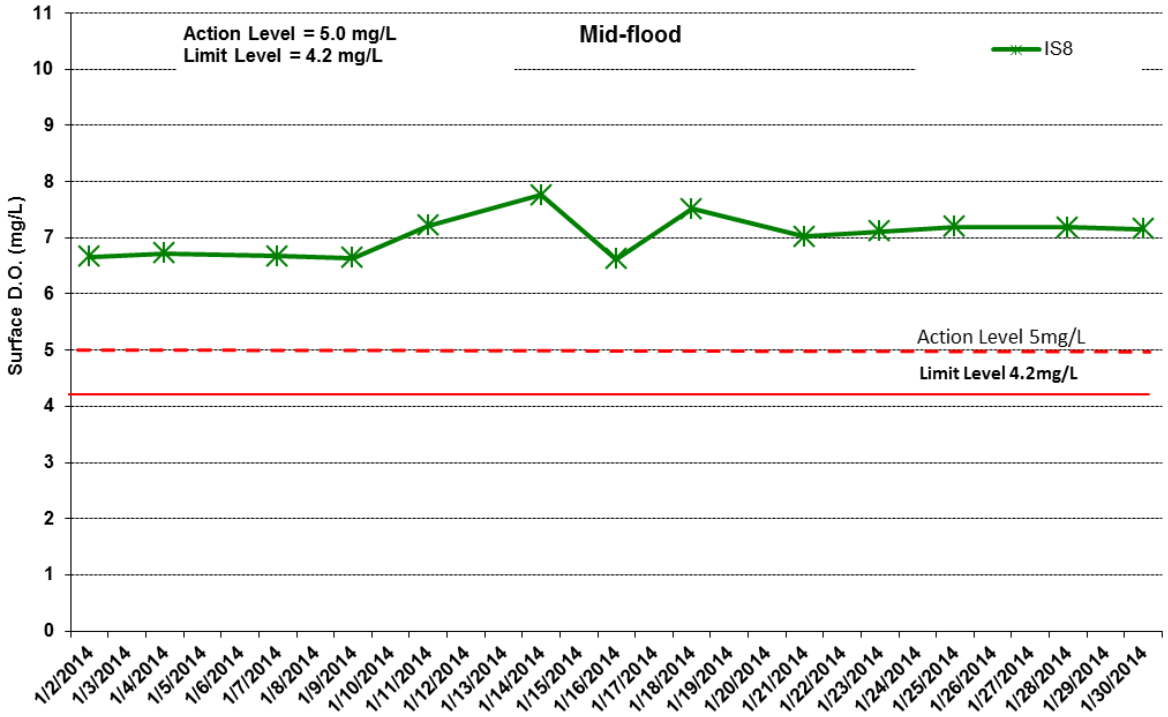


Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9.



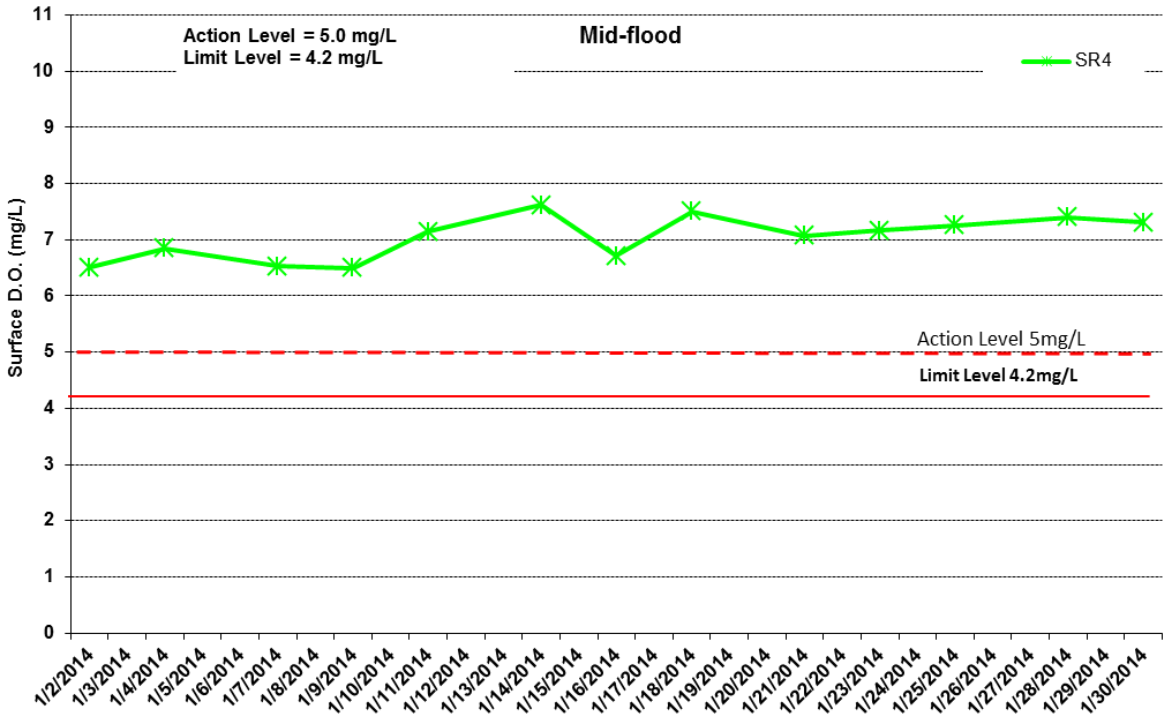


Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 31 January 2014 at IS8 and SR4.

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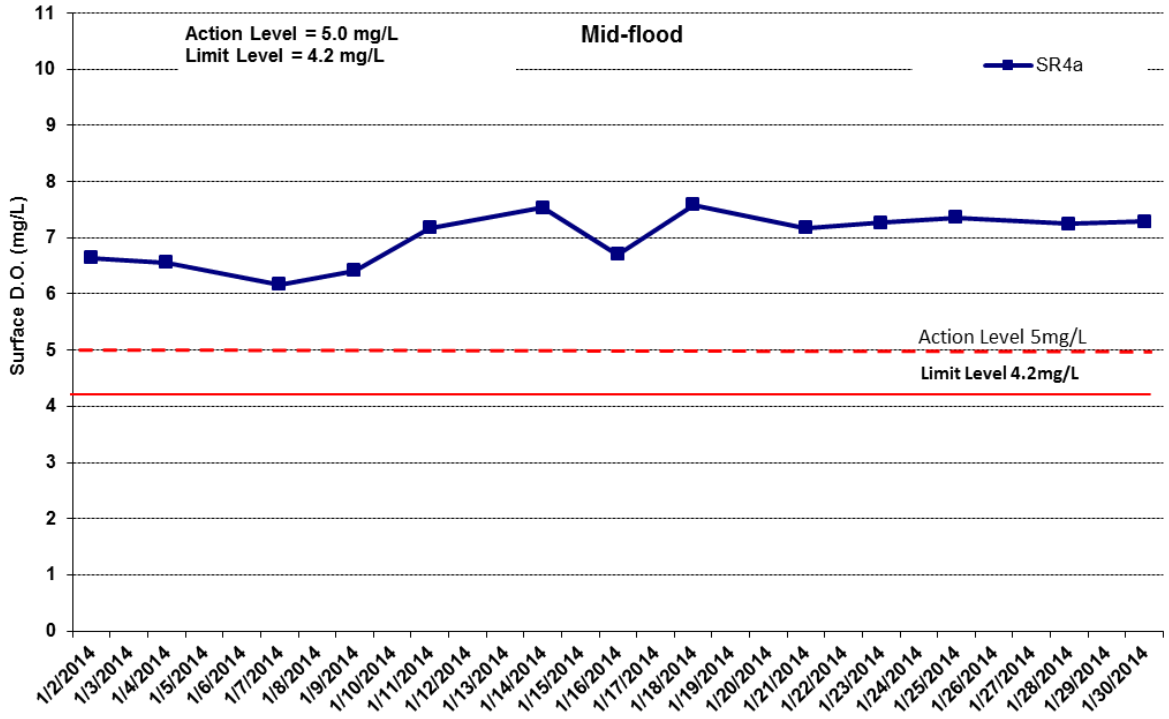

Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 to 31 January 2014 at SR4a.

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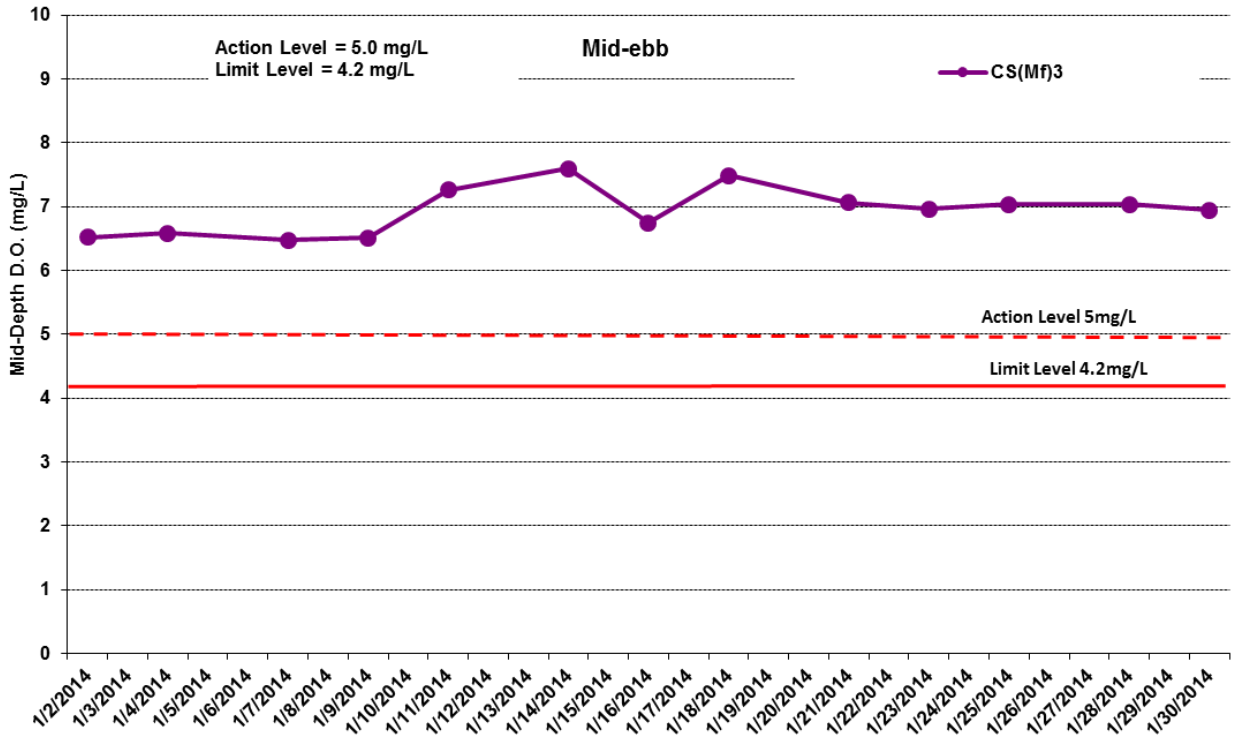


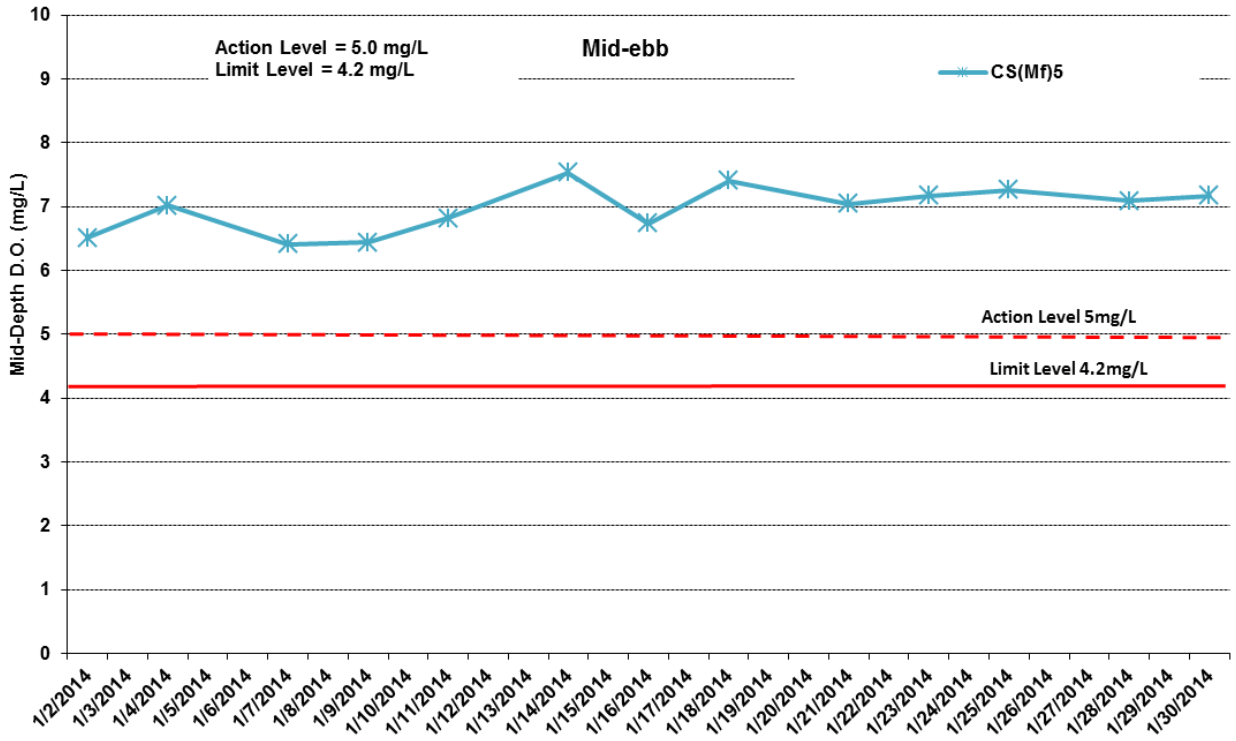


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 to 31 January 2014 at CS(Mf)3 and IS(Mf)5.

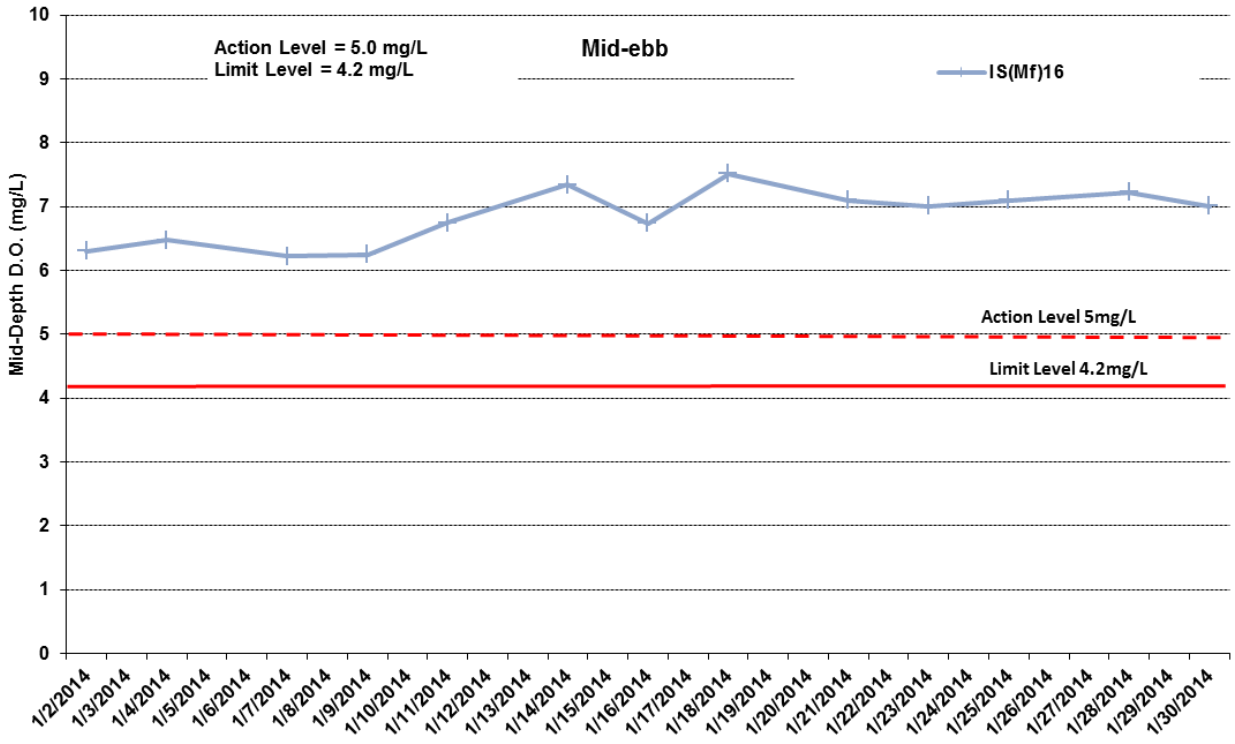


Figure J10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 to 31 January 2014 at IS(Mf)16.

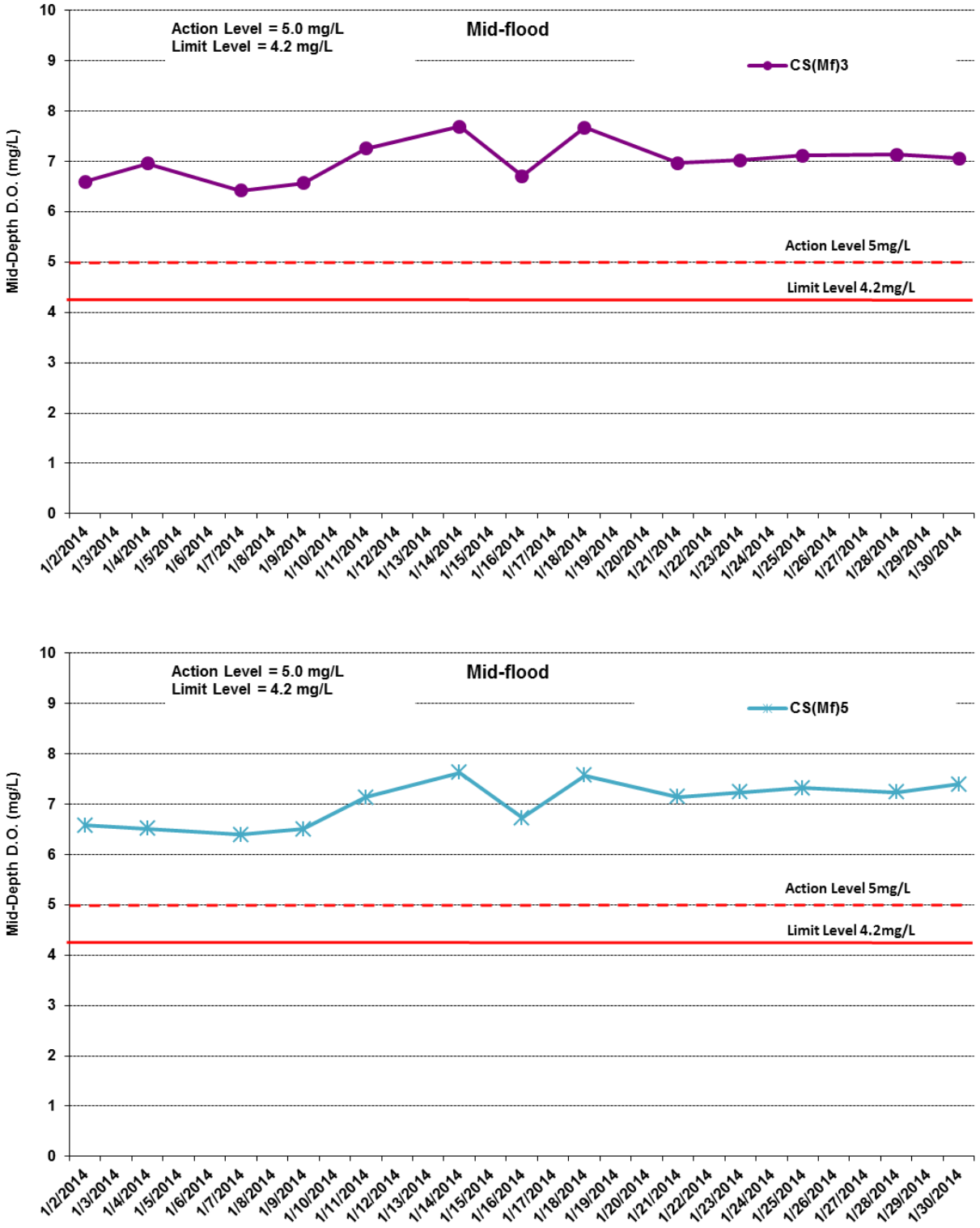


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 to 31 January 2014 at CS(Mf)3 and IS(Mf)5.

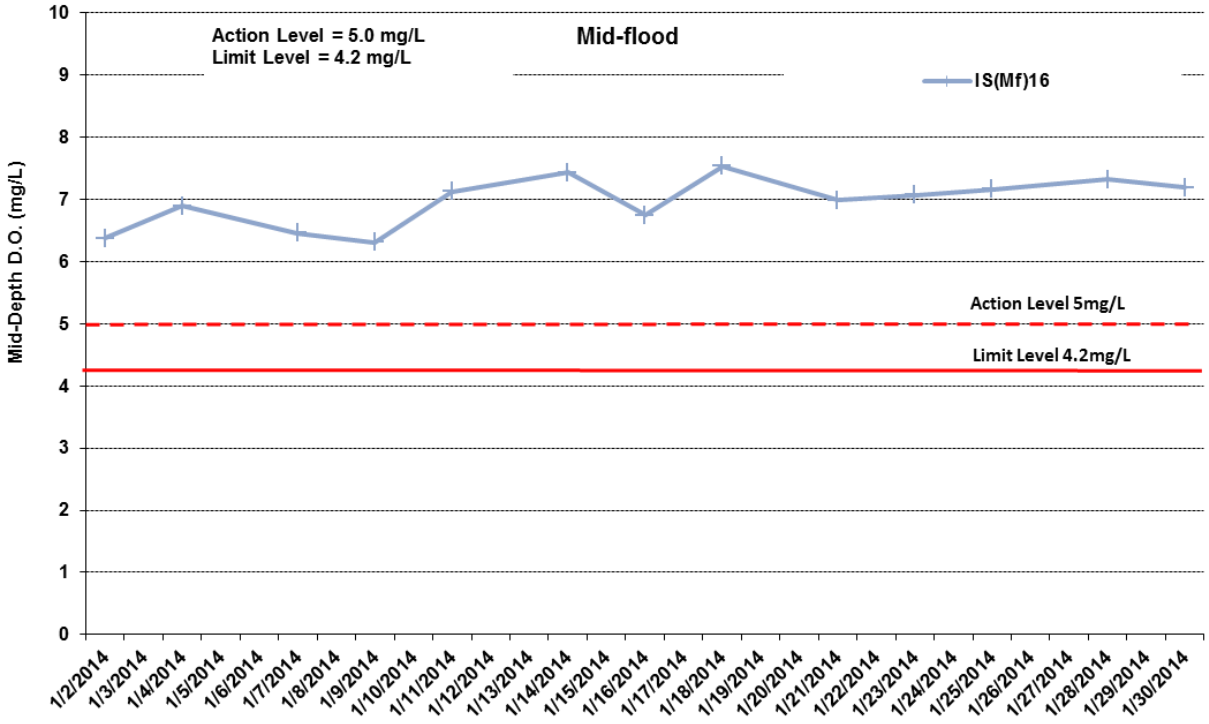
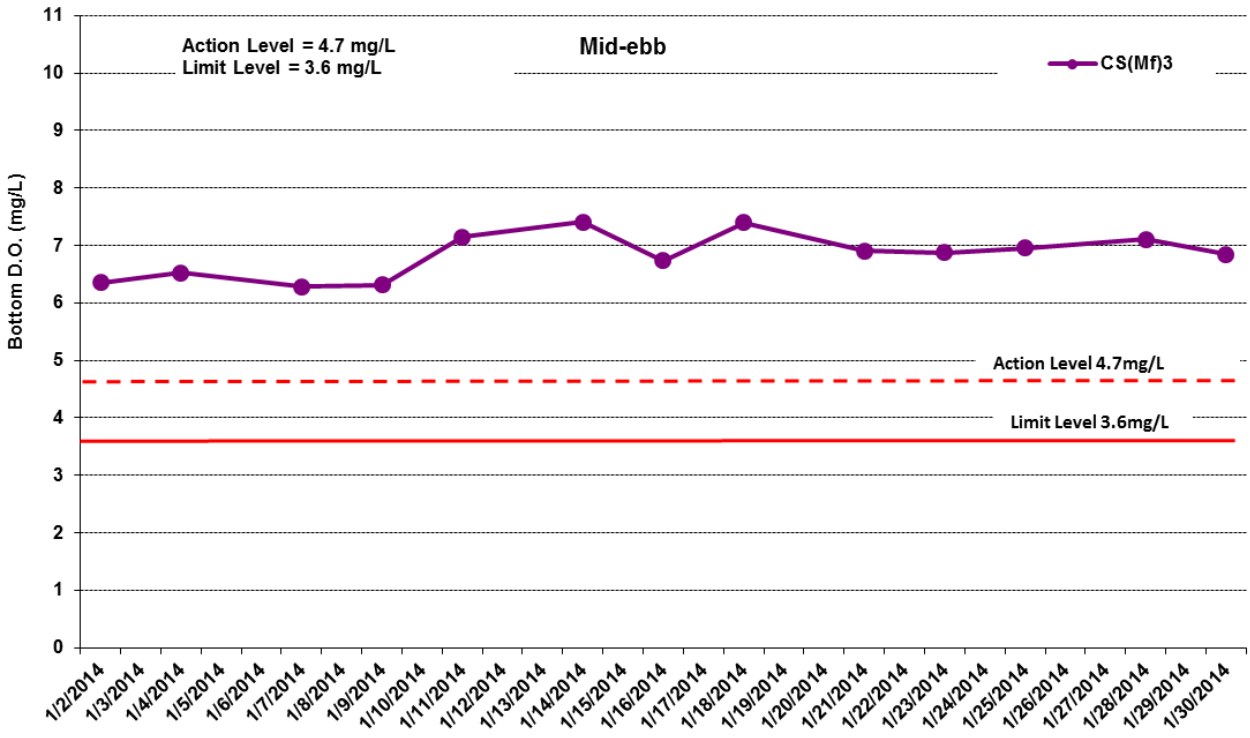


Figure J12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 to 31 January 2014 at IS(Mf)16.



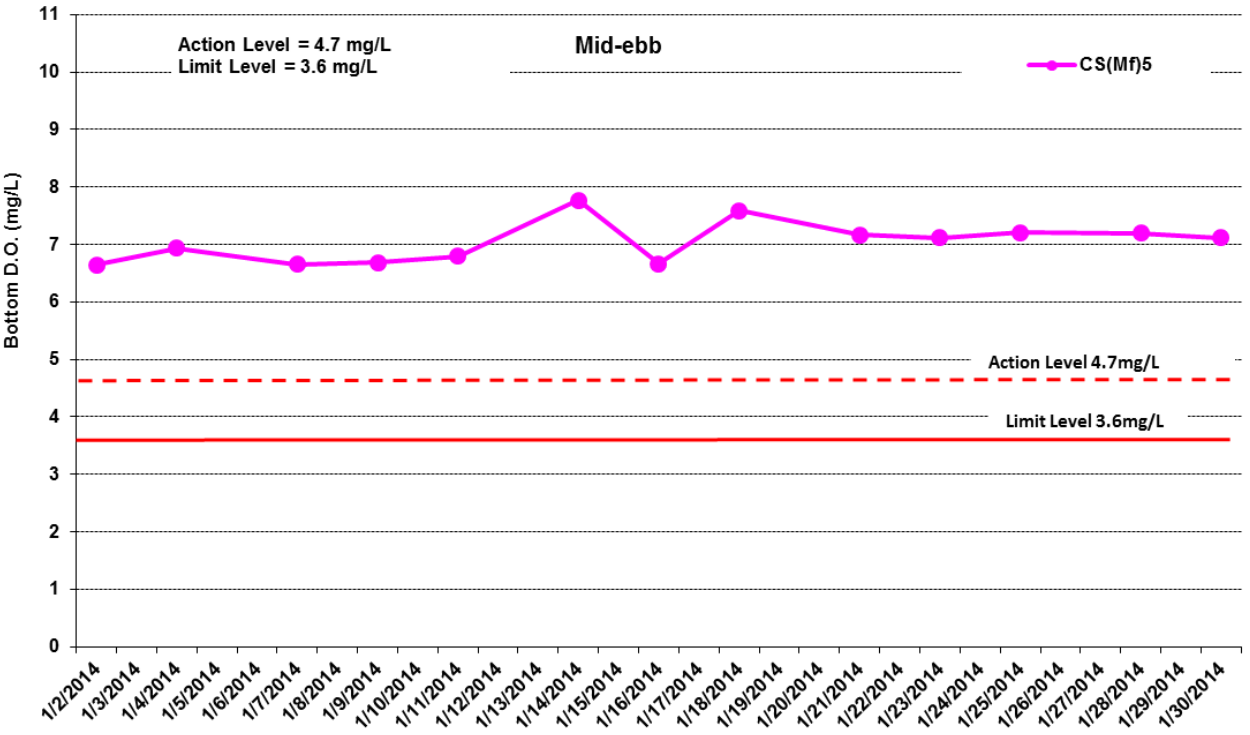


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 to 31 January 2014 at CS(Mf)3 and CS(Mf)5.

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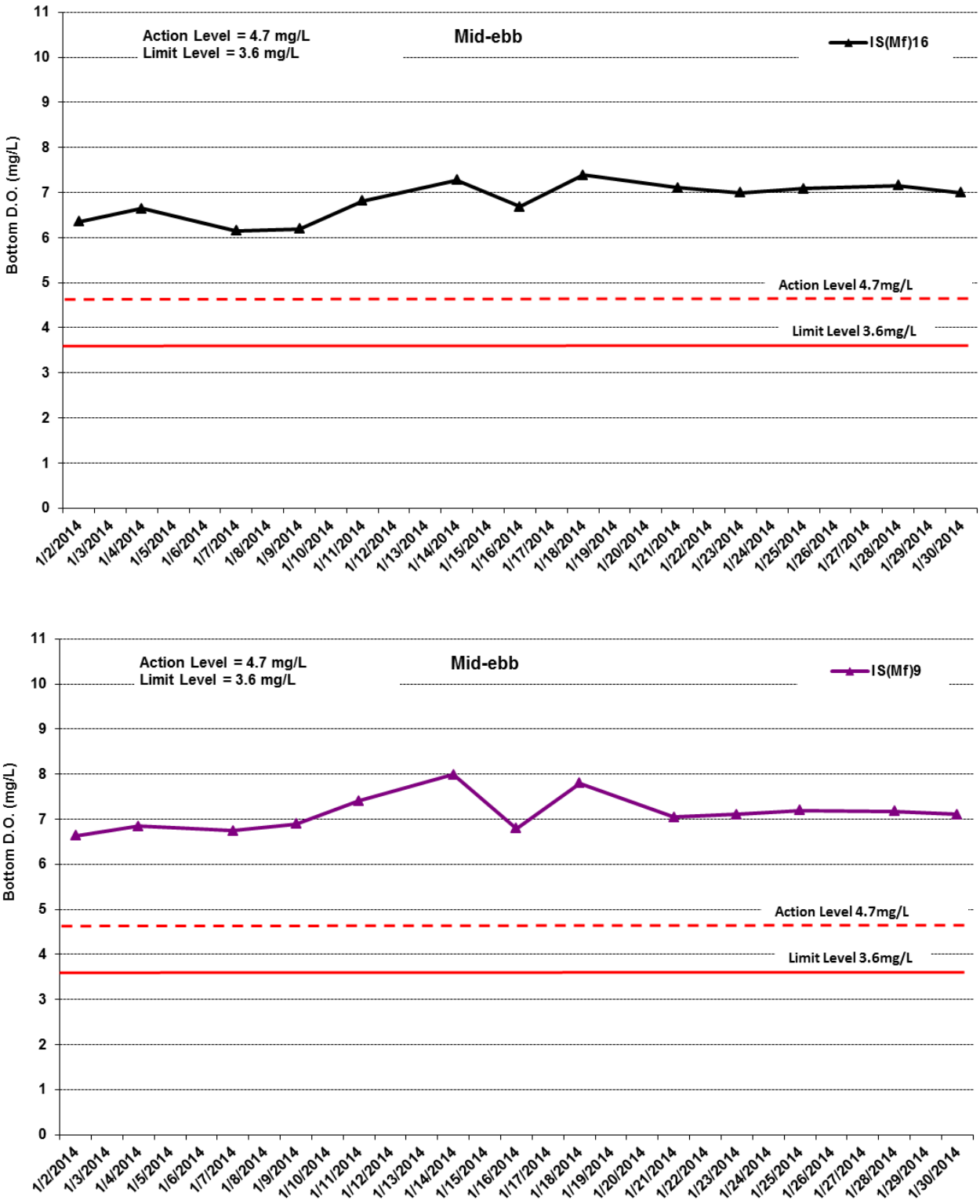

Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9.

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

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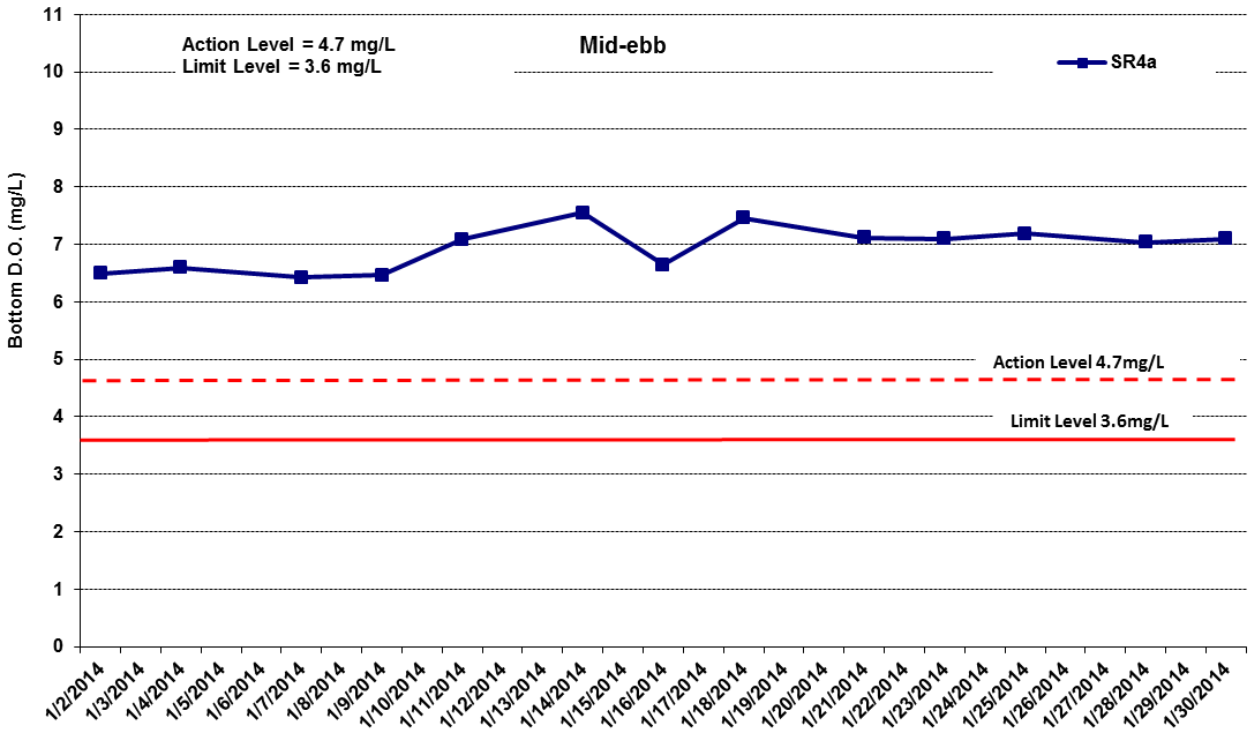
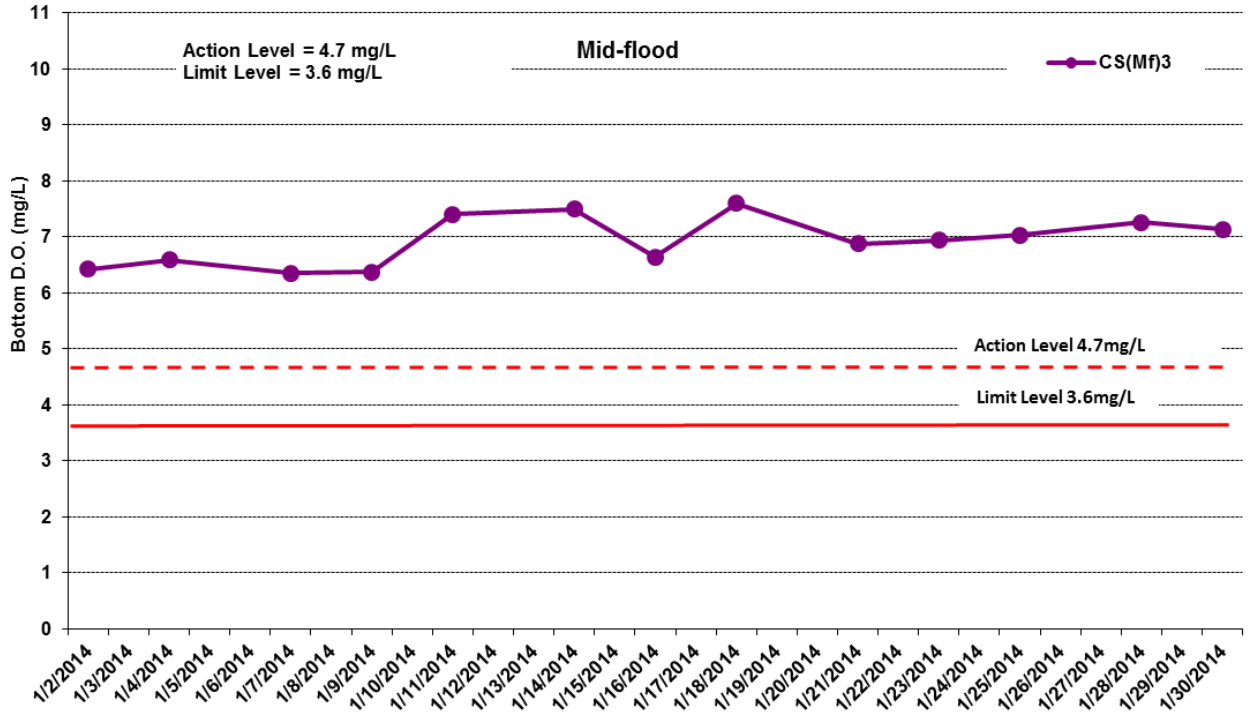


Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 to 31 January 2014 at SR4a.



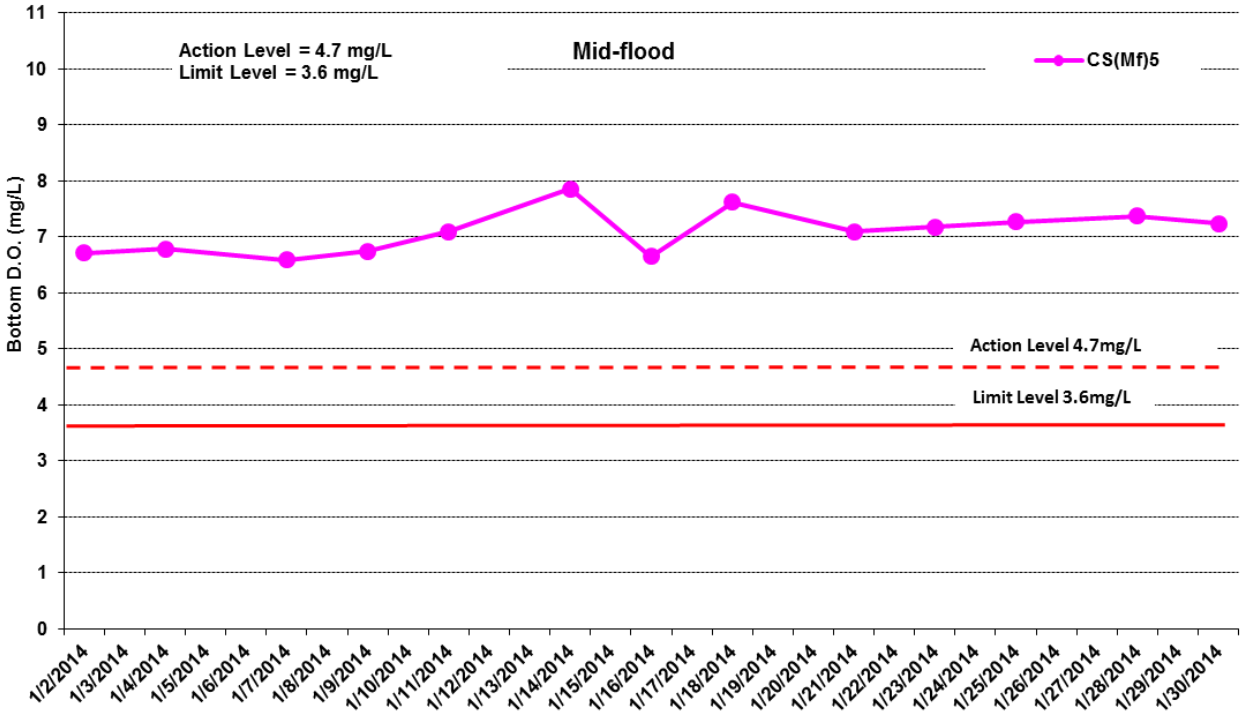
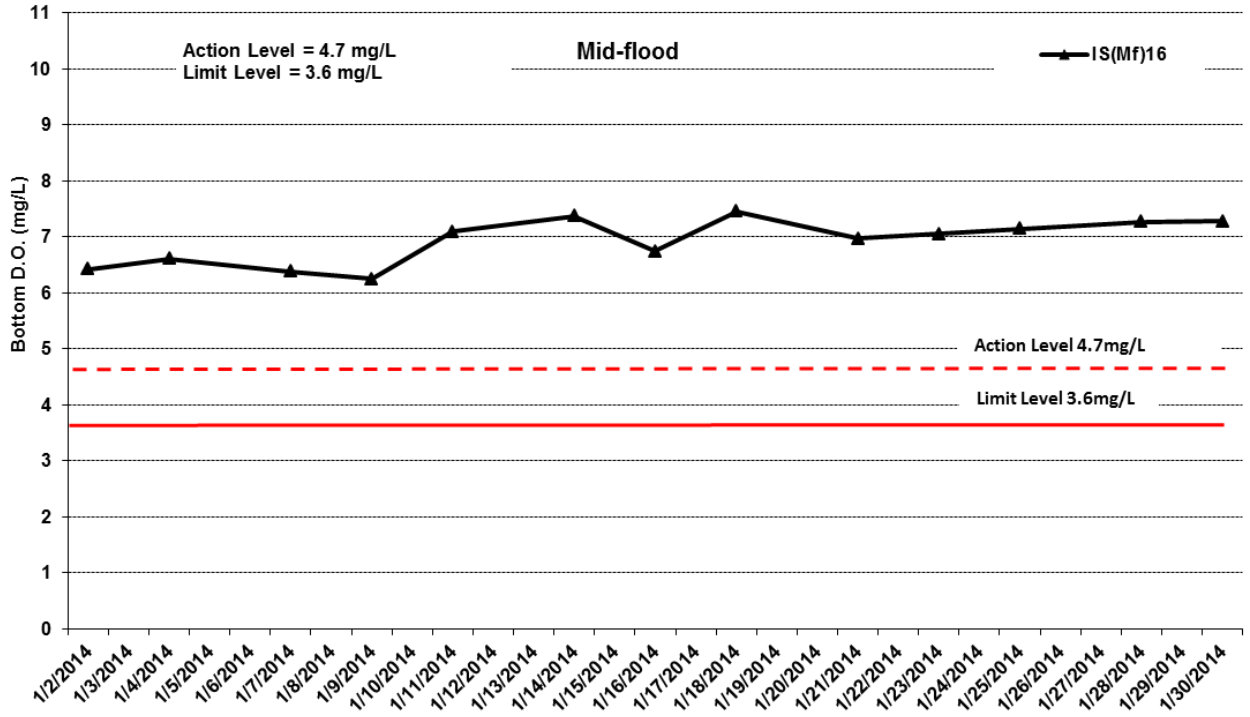


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 31 January 2014 at CS(Mf)3 and CS(Mf)5.



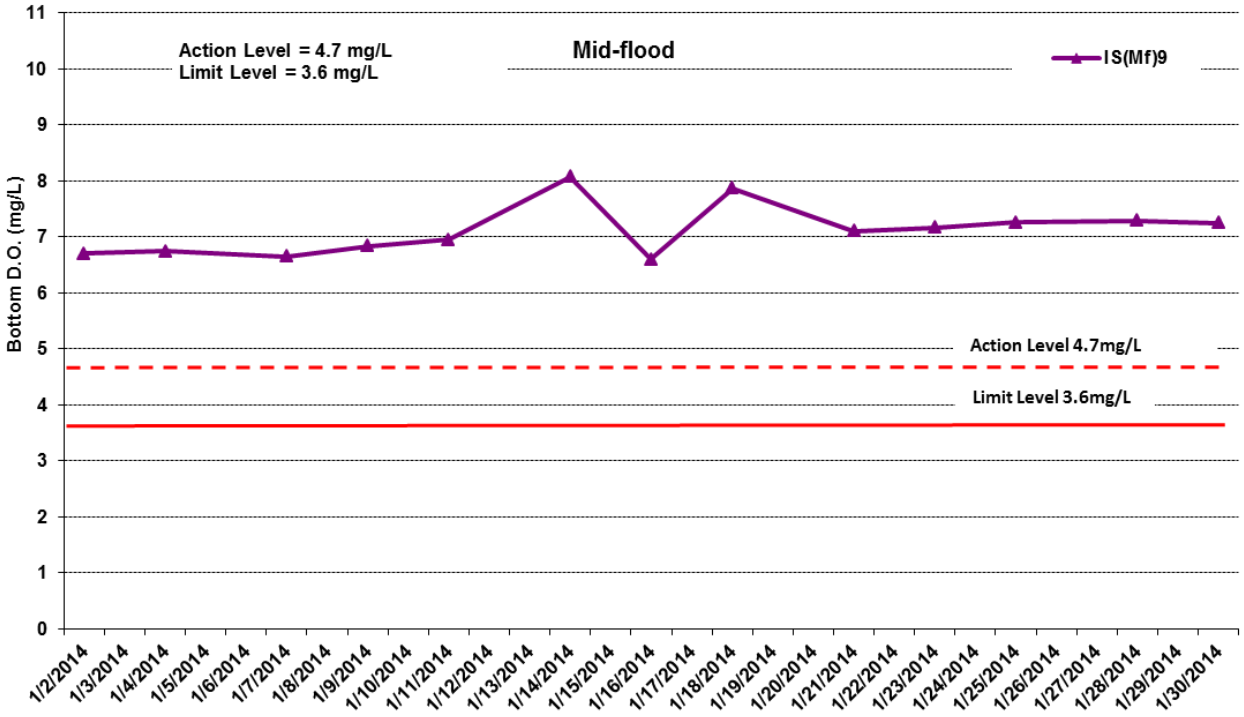


Figure J18 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9.

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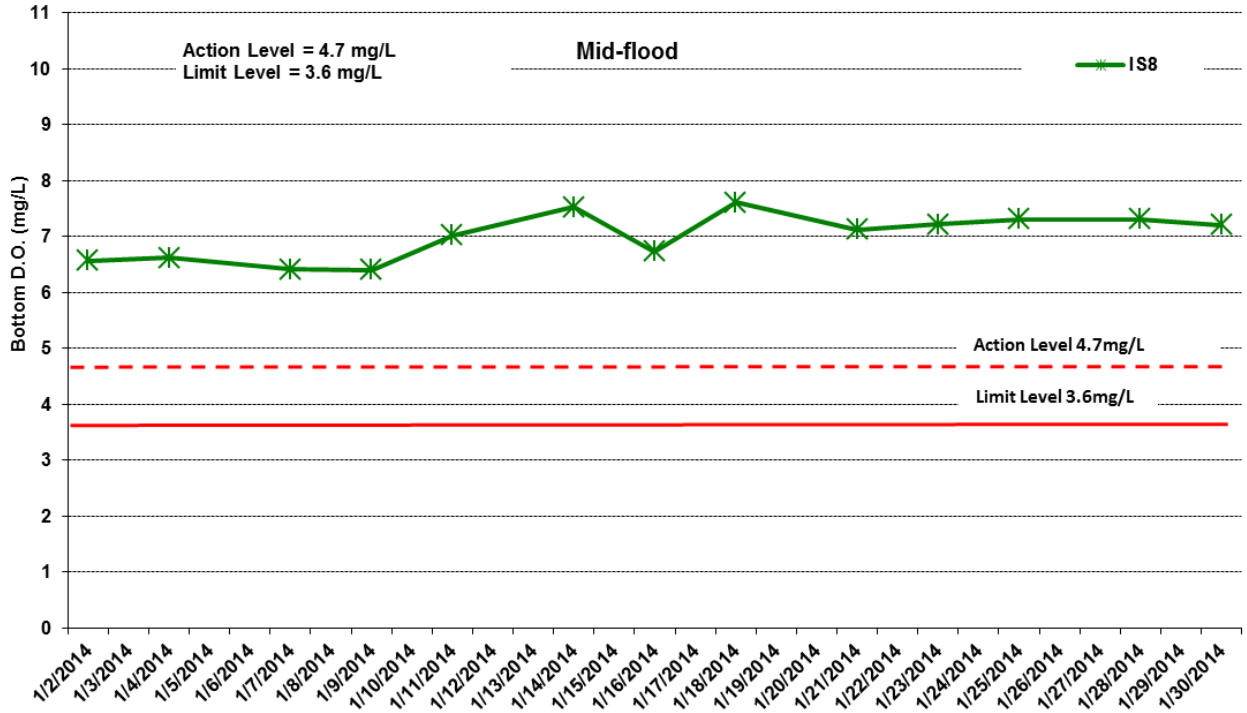


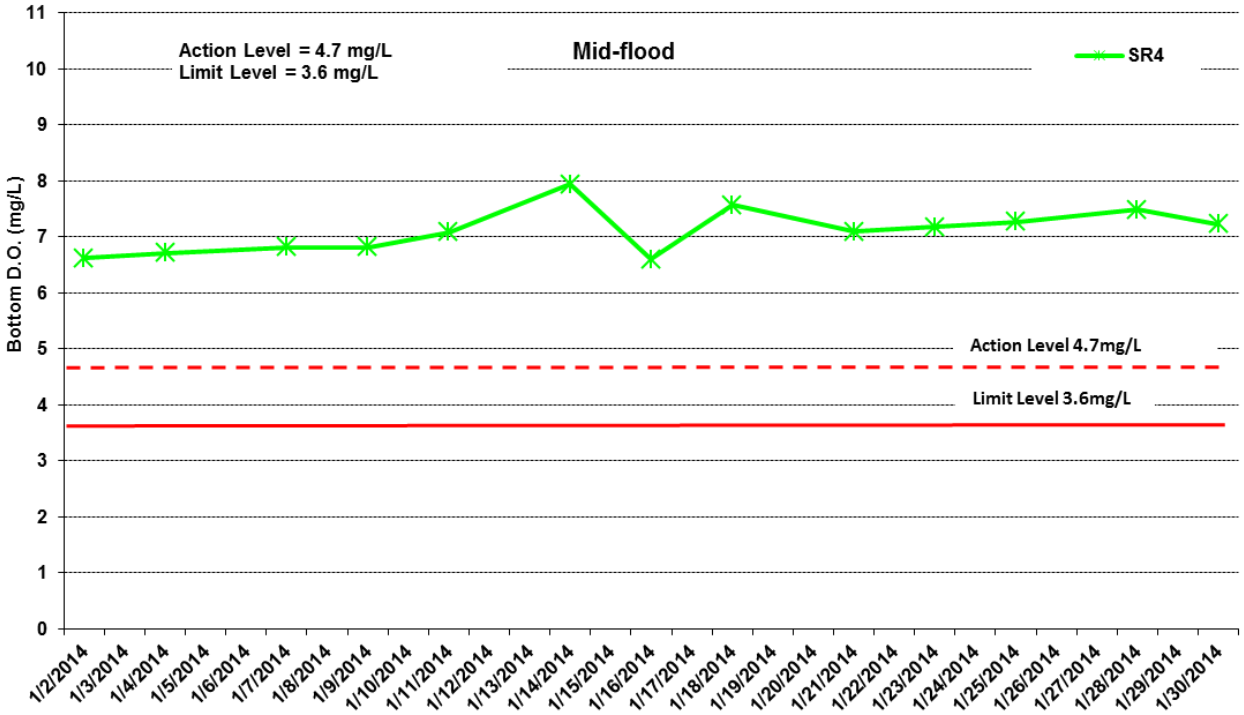


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 31 January 2014 at IS8 and SR4.

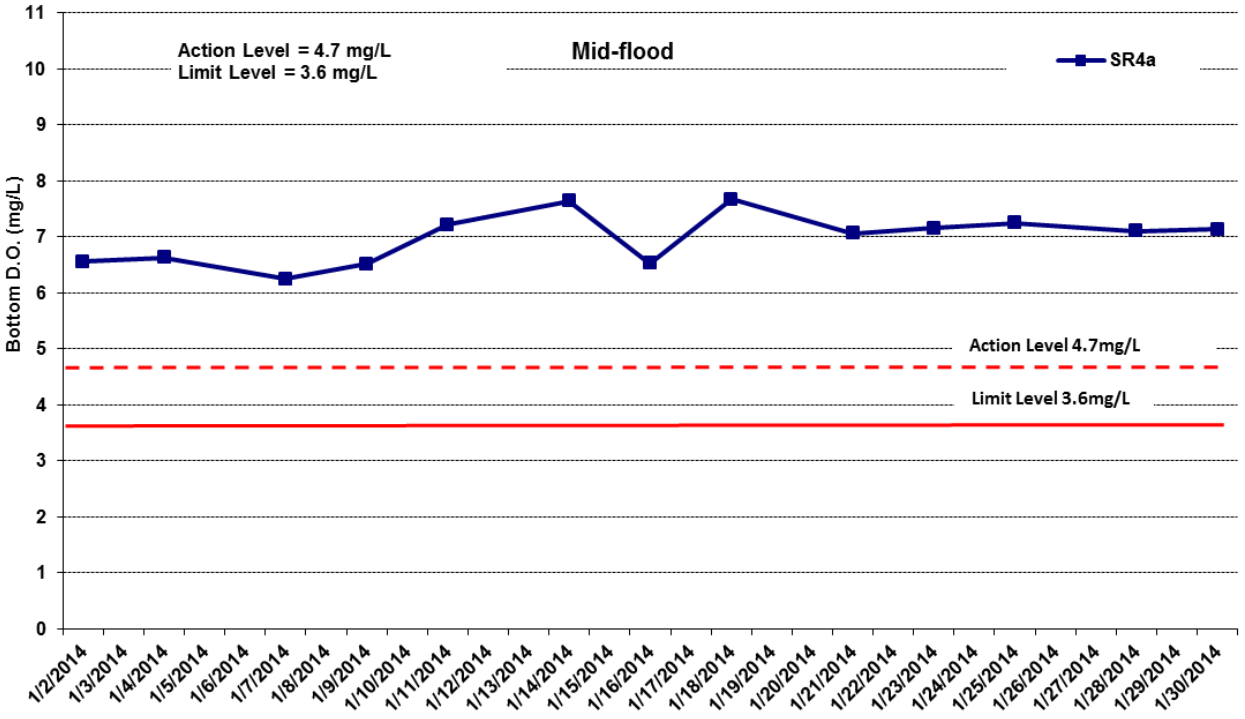
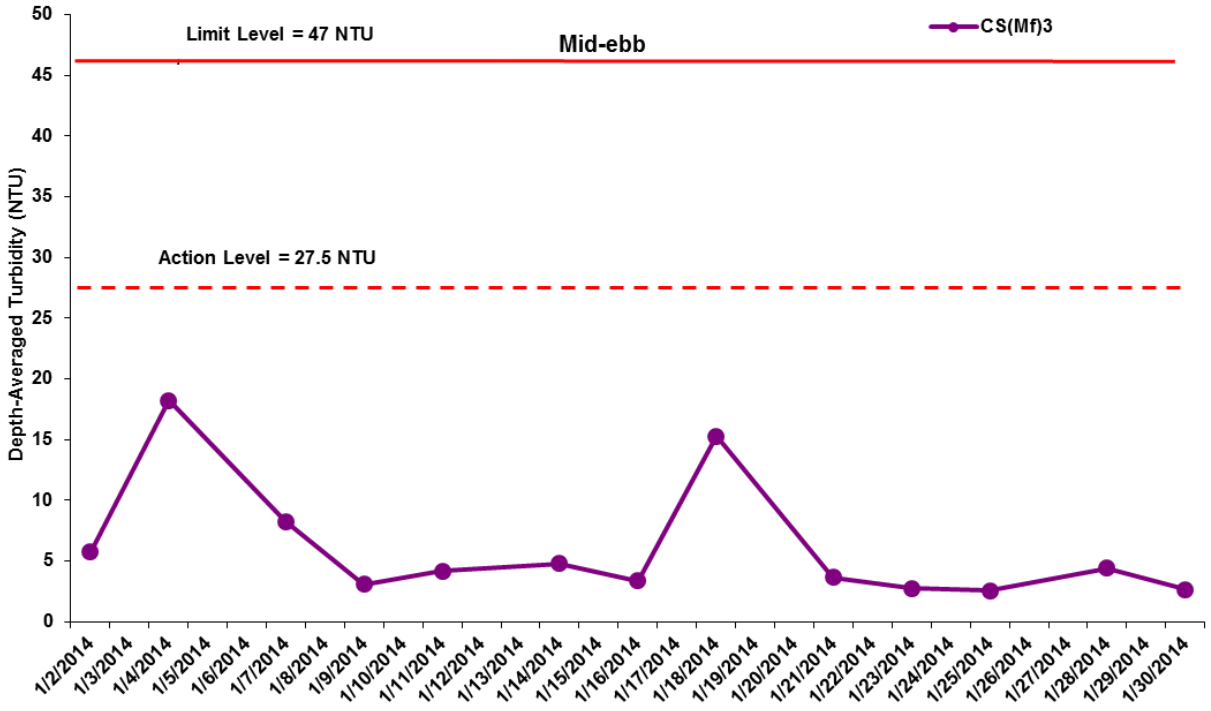


Figure J20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 to 31 January 2014 at SR4a.



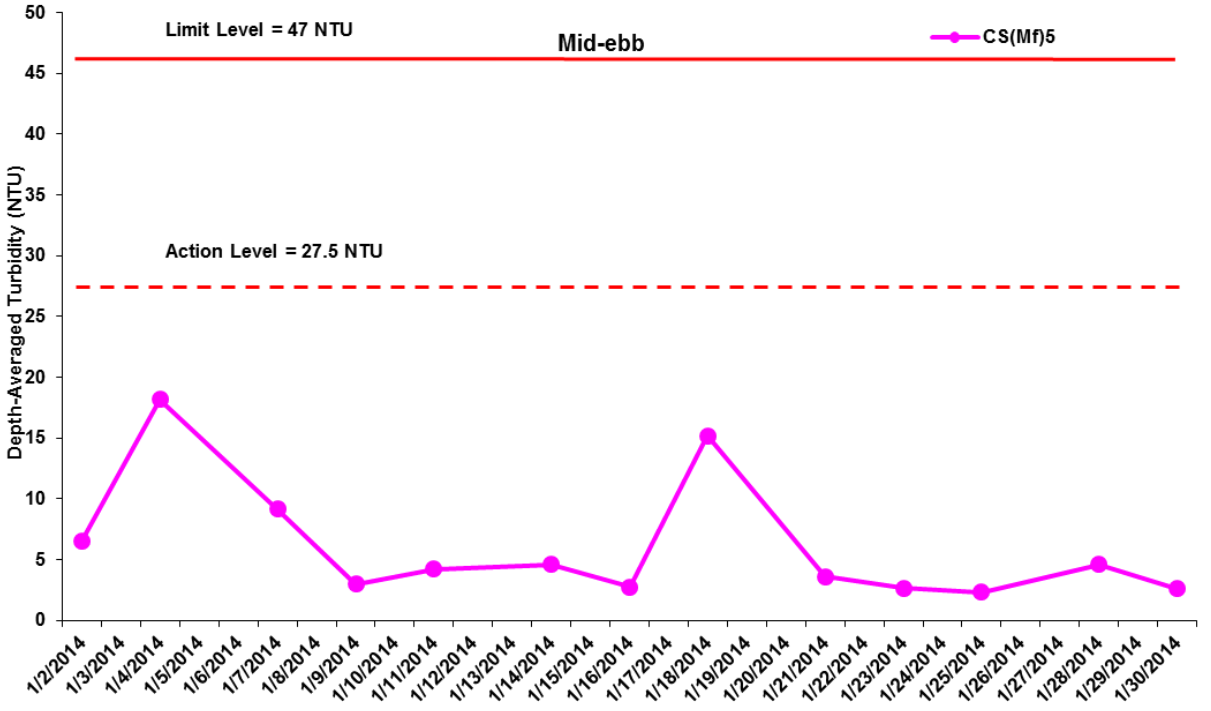


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 31 January 2014 at CS(Mf)3 and CS(Mf)5.

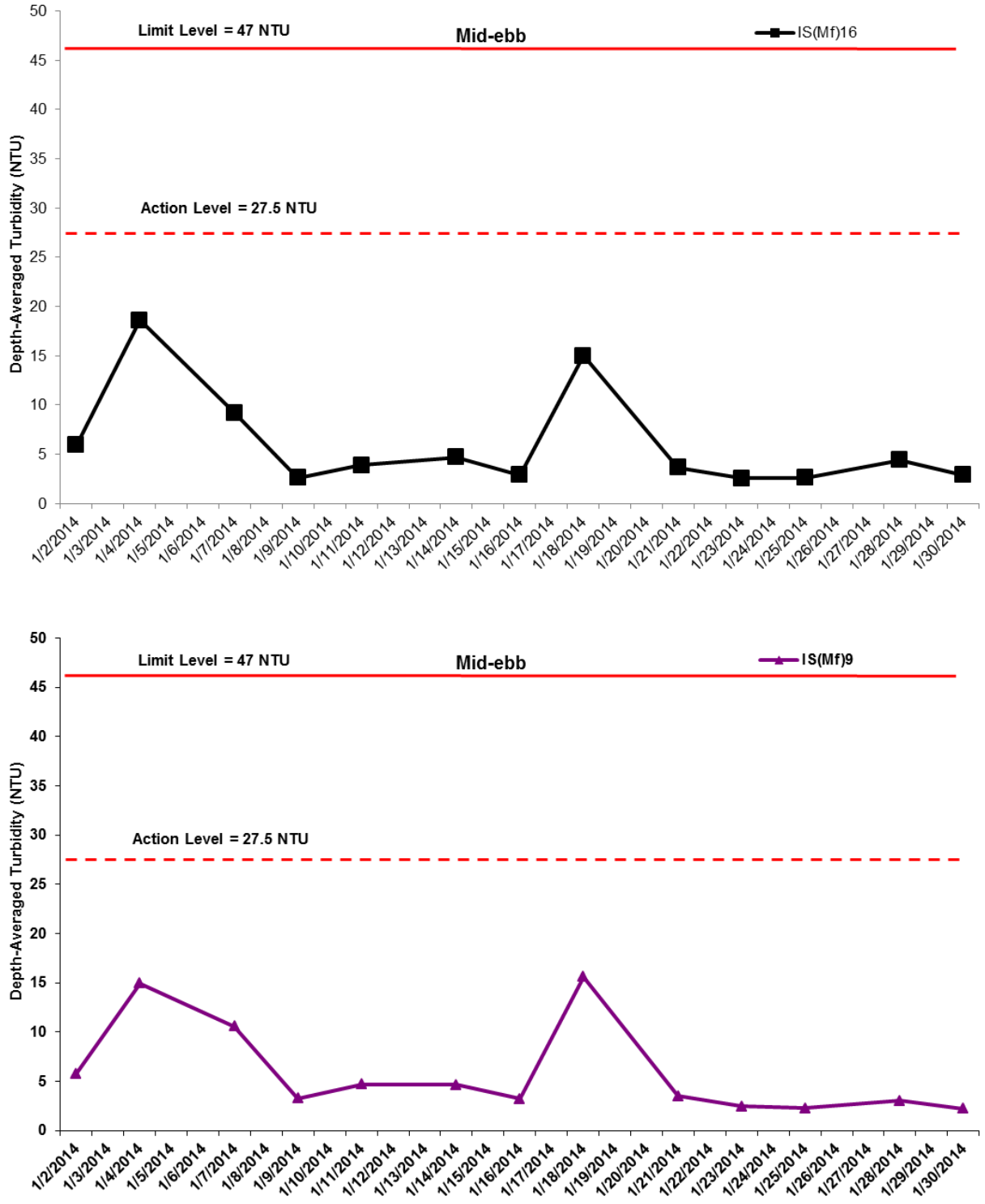


Figure J22 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9.

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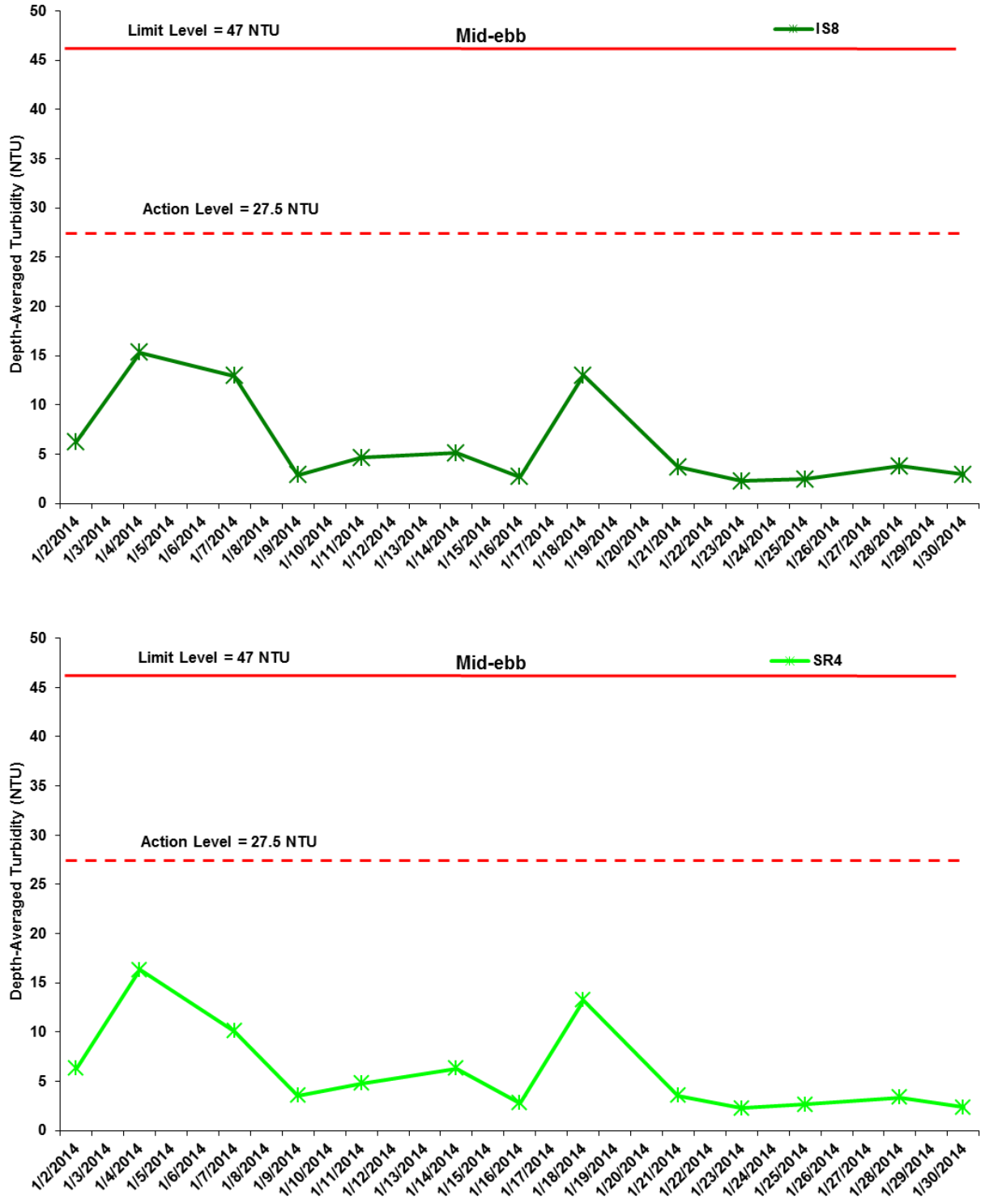

Figure J23 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 31 January 2014 at IS8 and SR4.

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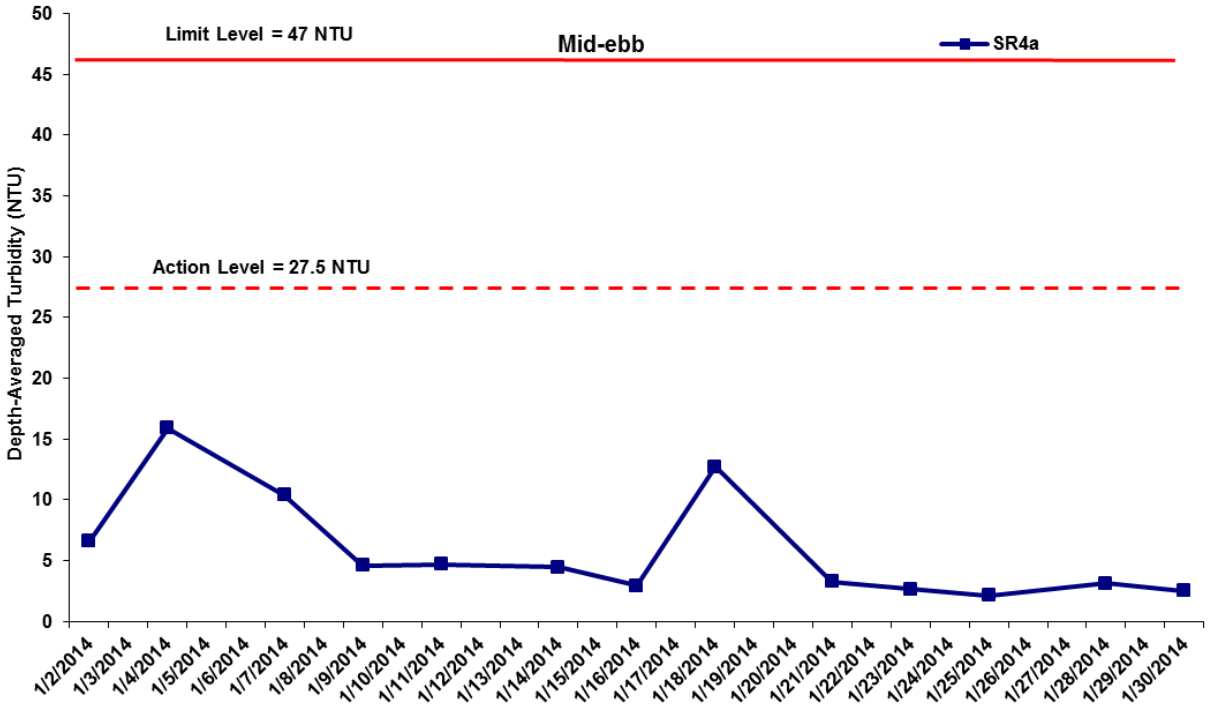
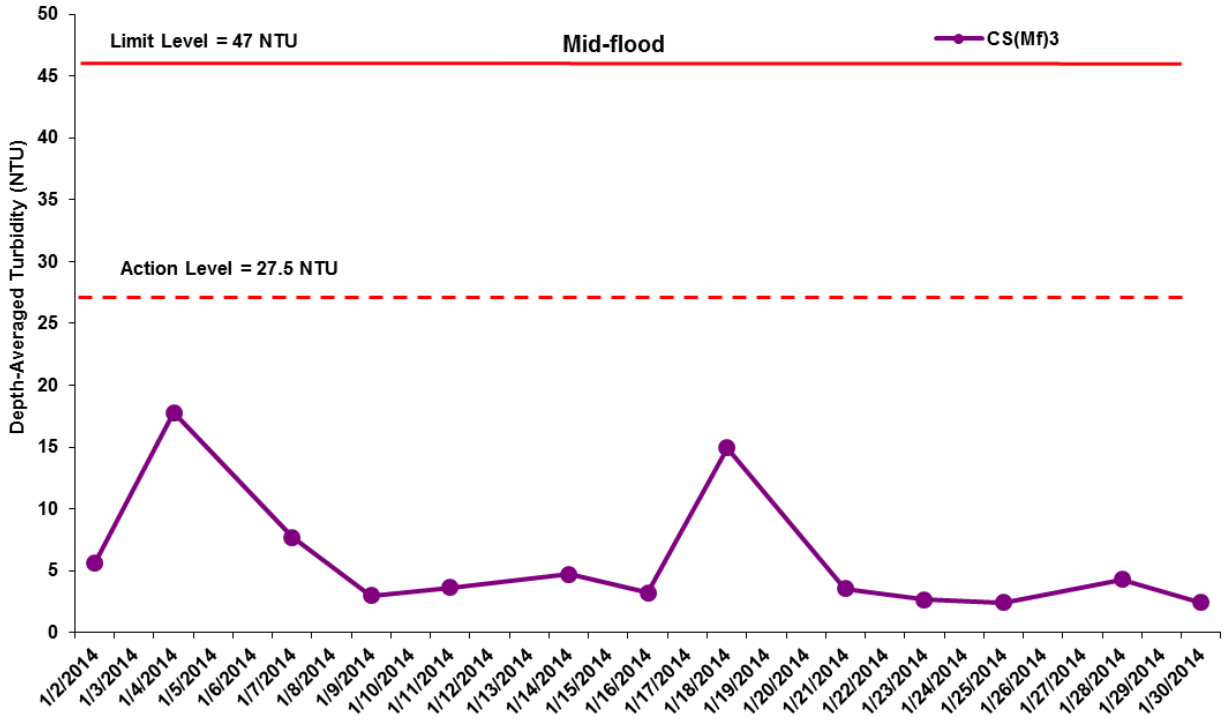


Figure J24 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 to 31 January 2014 at SR4a.



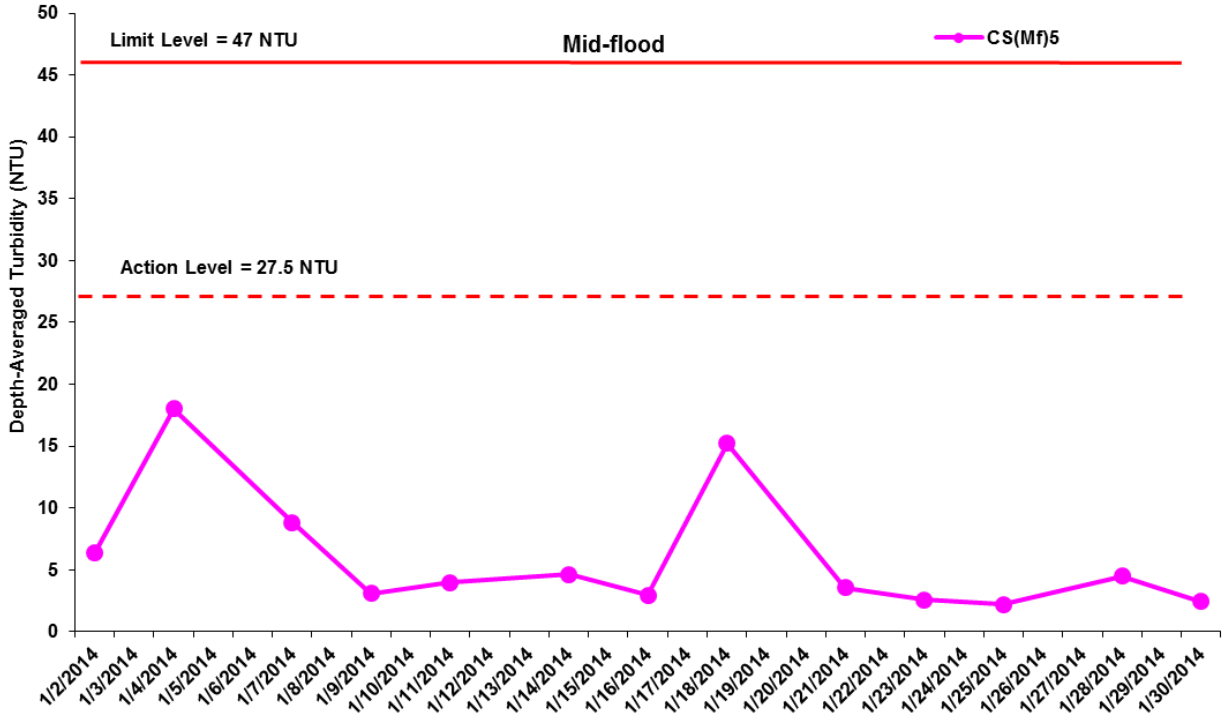
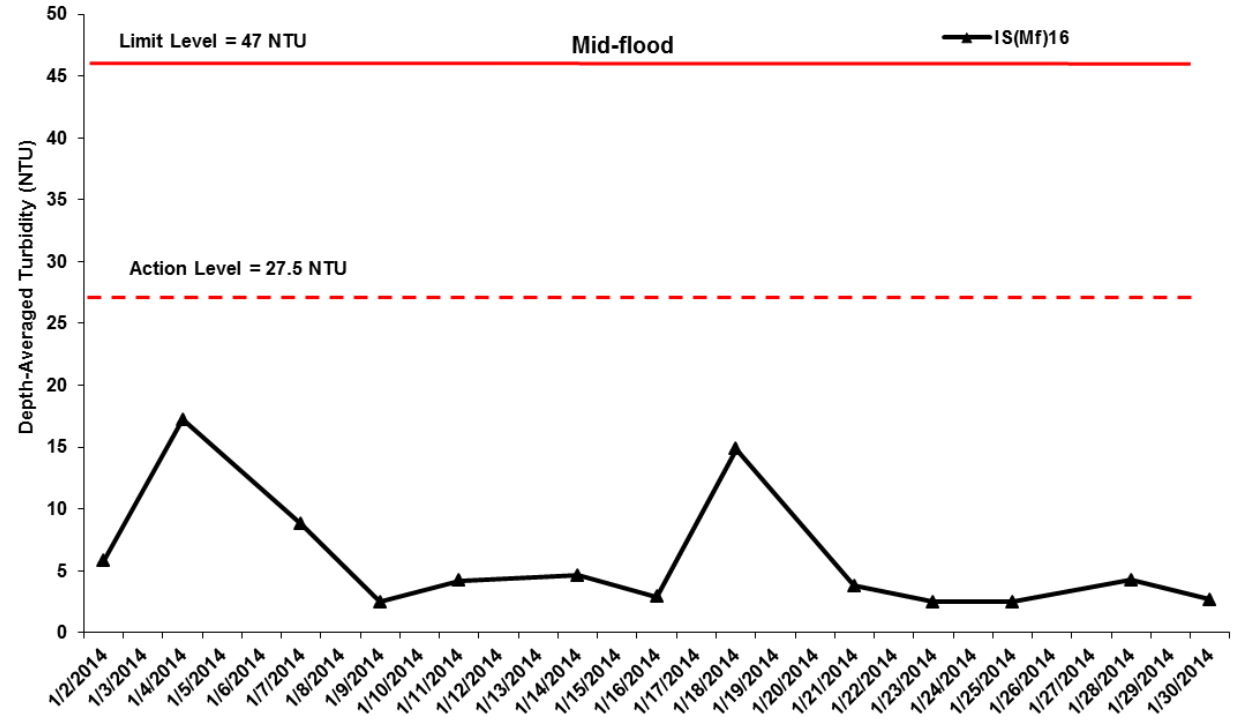


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 to 31 January 2014 at CS(Mf)3 and CS(MF)5.



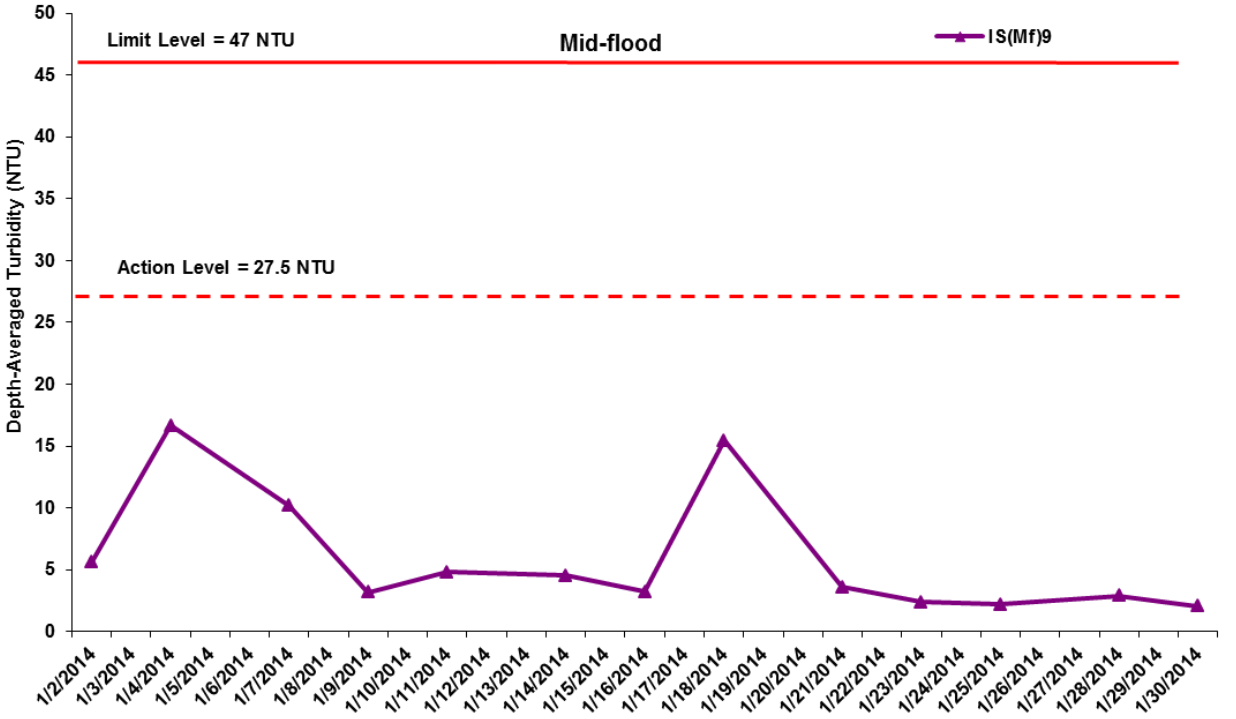
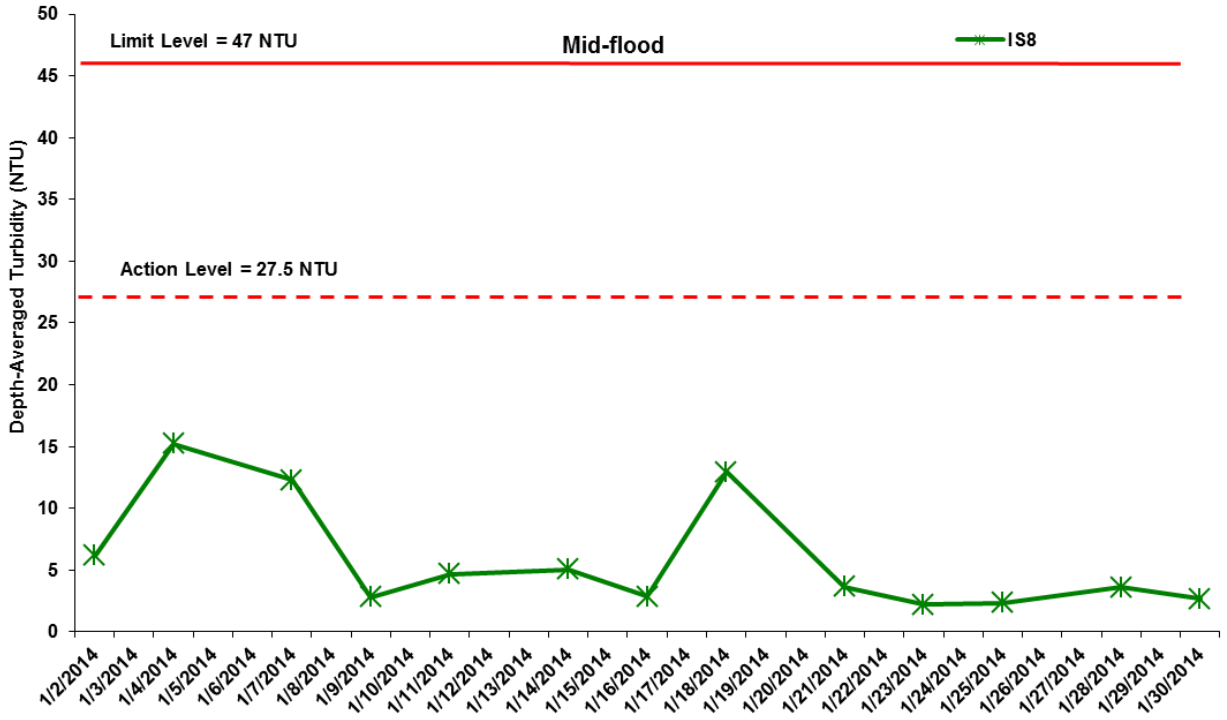


Figure J26 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9.



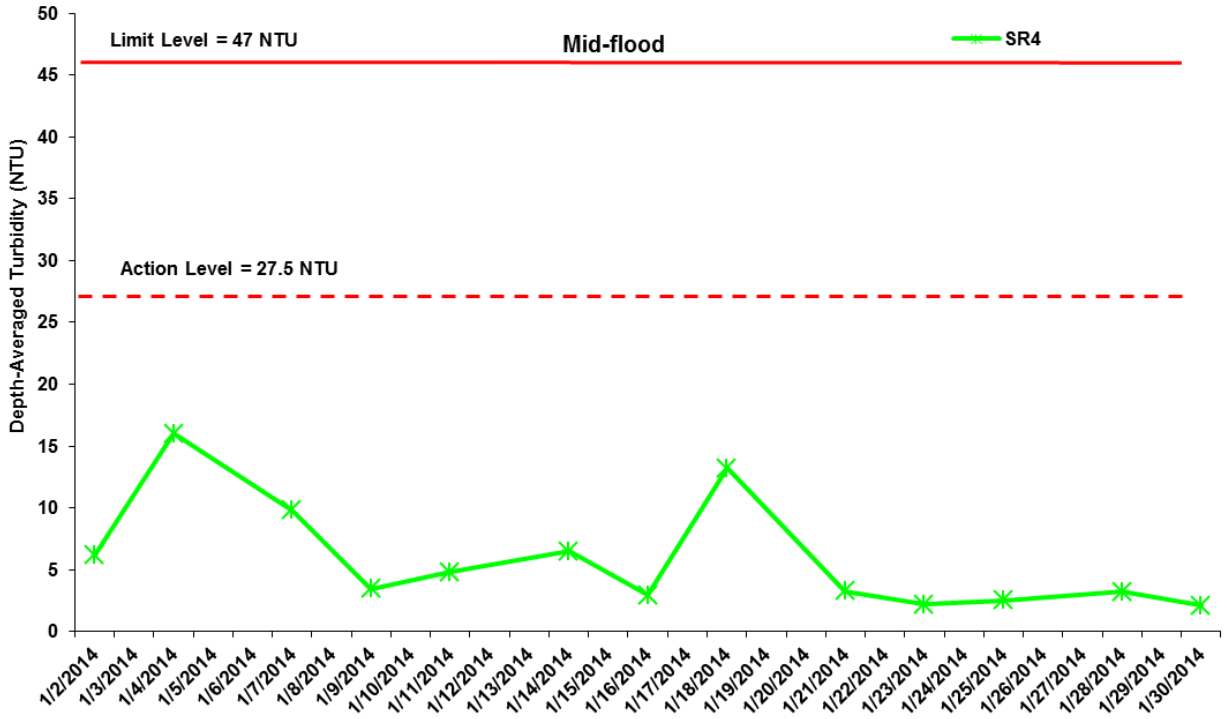


Figure J27 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 31 October and 30 November 2013 at IS8 and SR4.

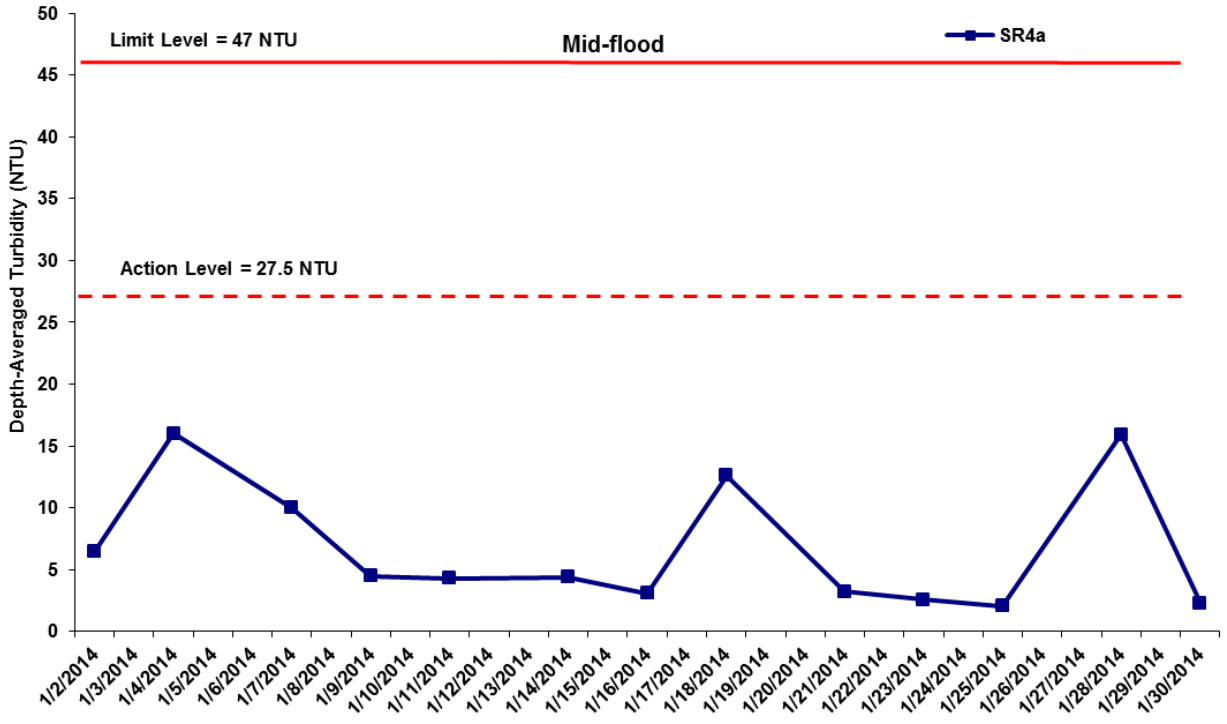
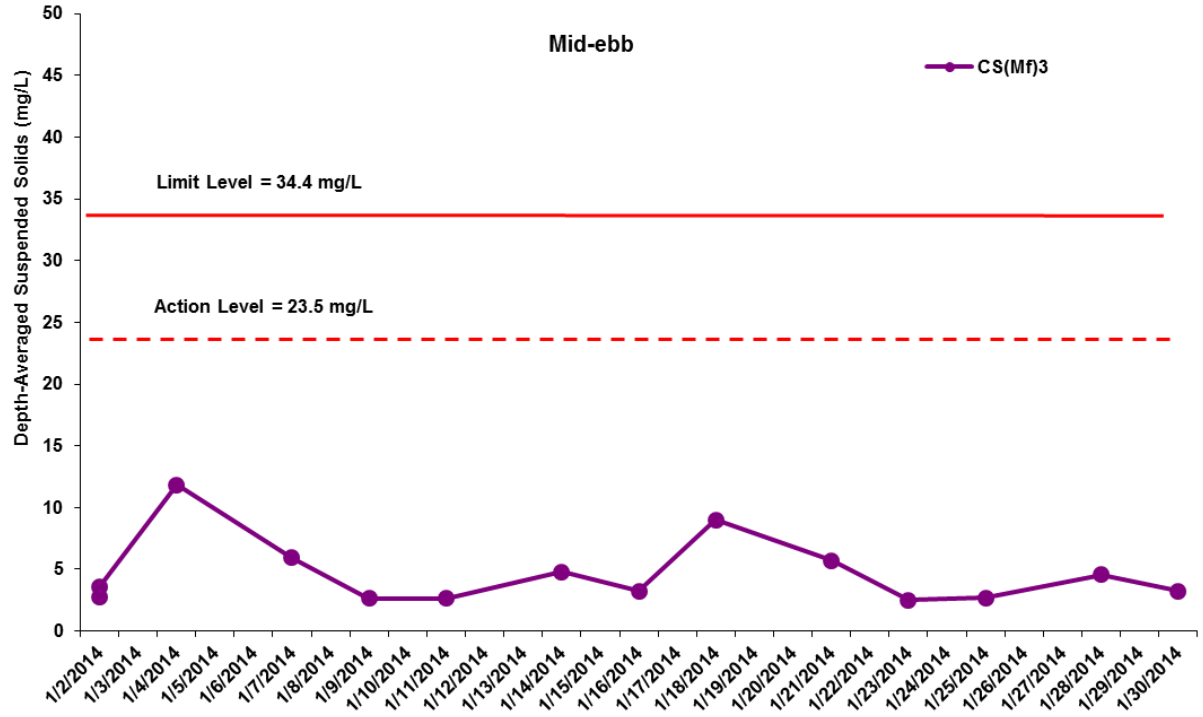


Figure J28 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 to 31 January 2014 at SR4a.



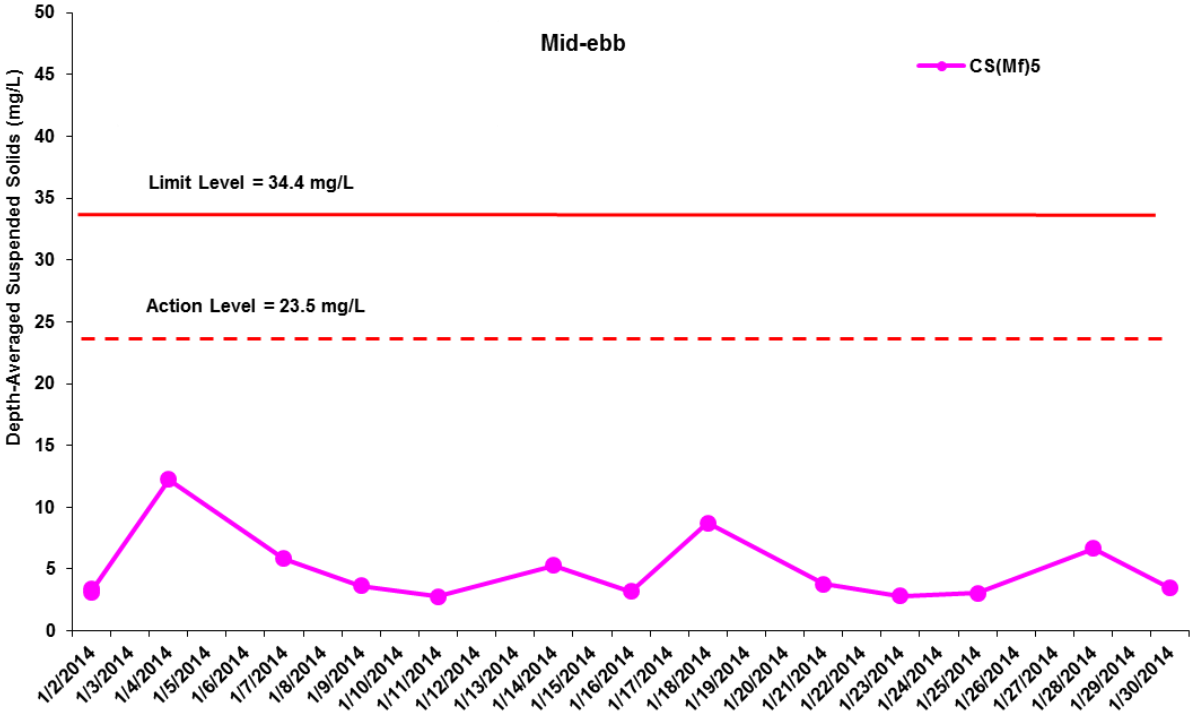
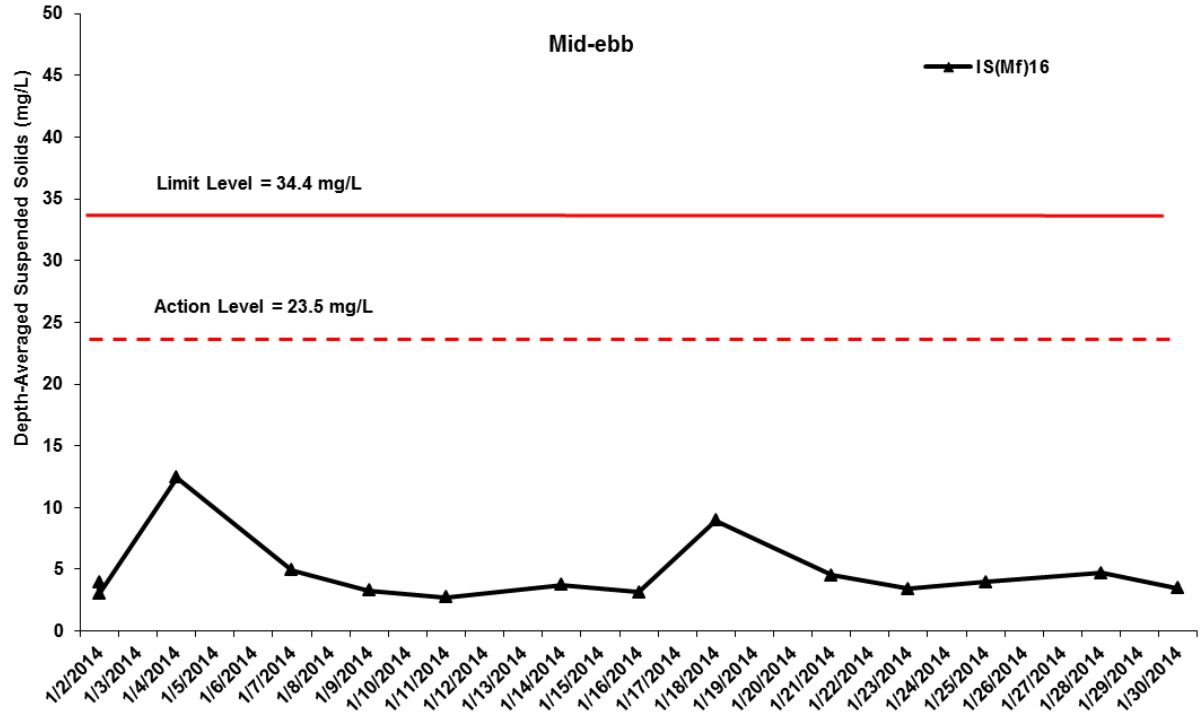


Figure J29 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 31 January 2014 at CS(Mf)3 and CS(Mf)5.



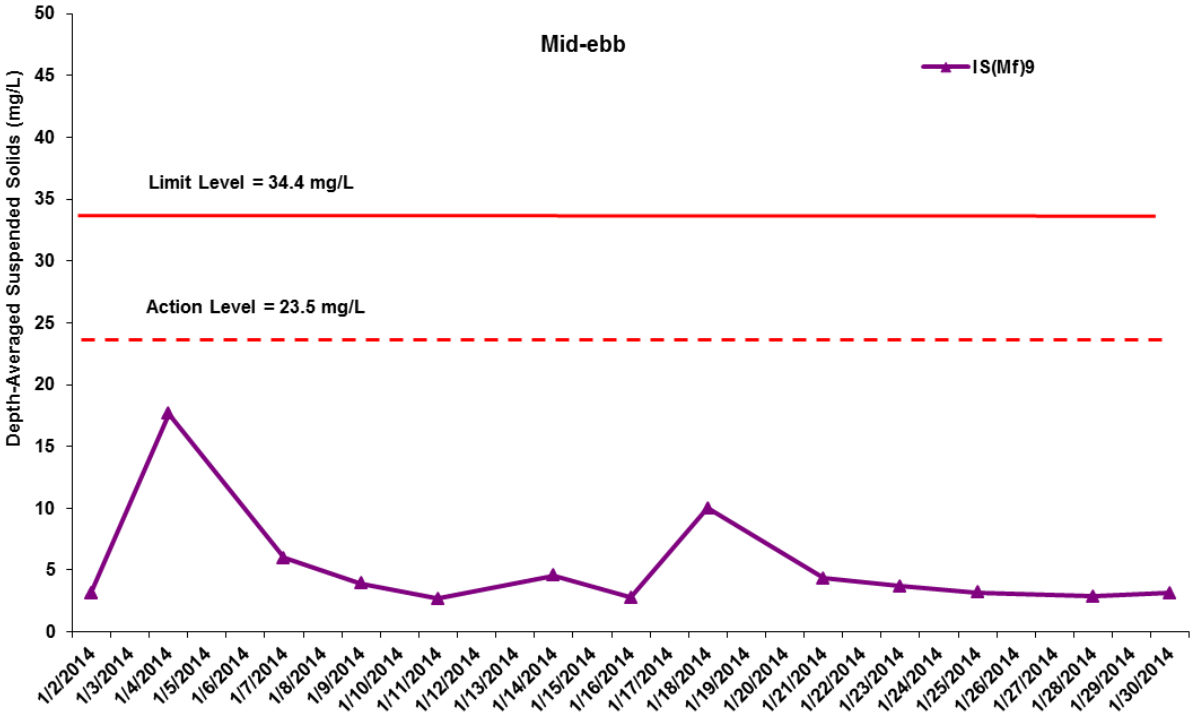


Figure J30 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9.

Environmental Resources Management

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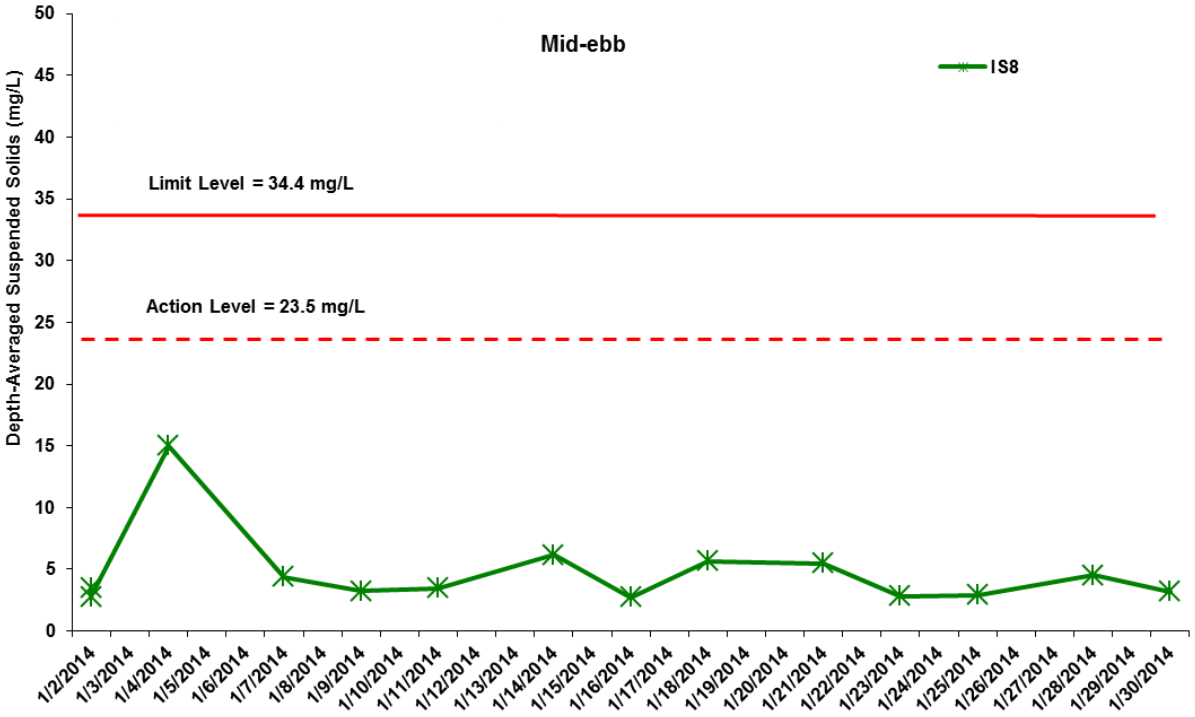


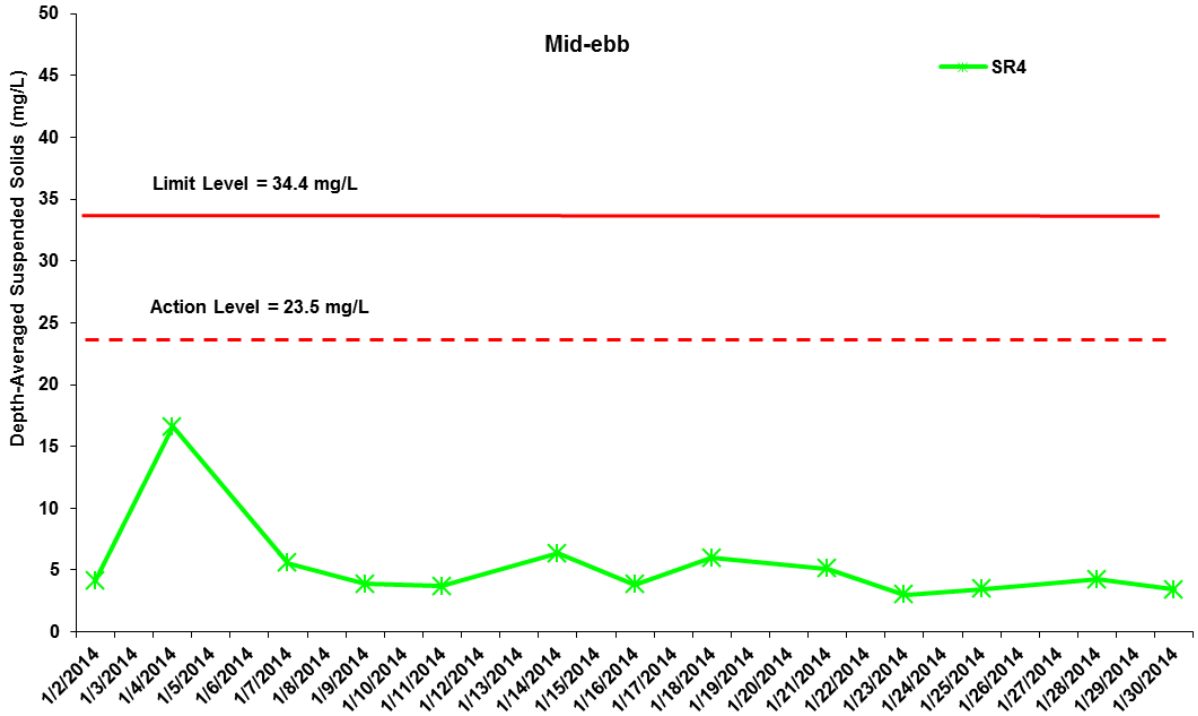


Figure J31 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 31 January 2014 at IS8 and SR4.

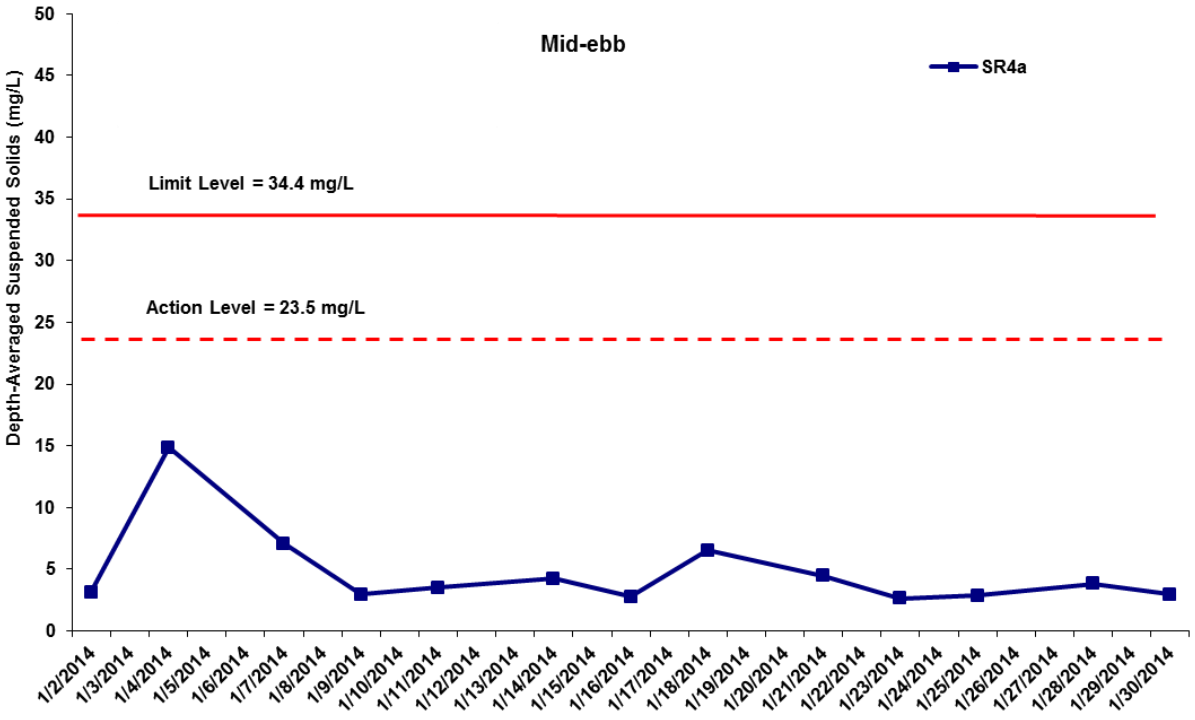
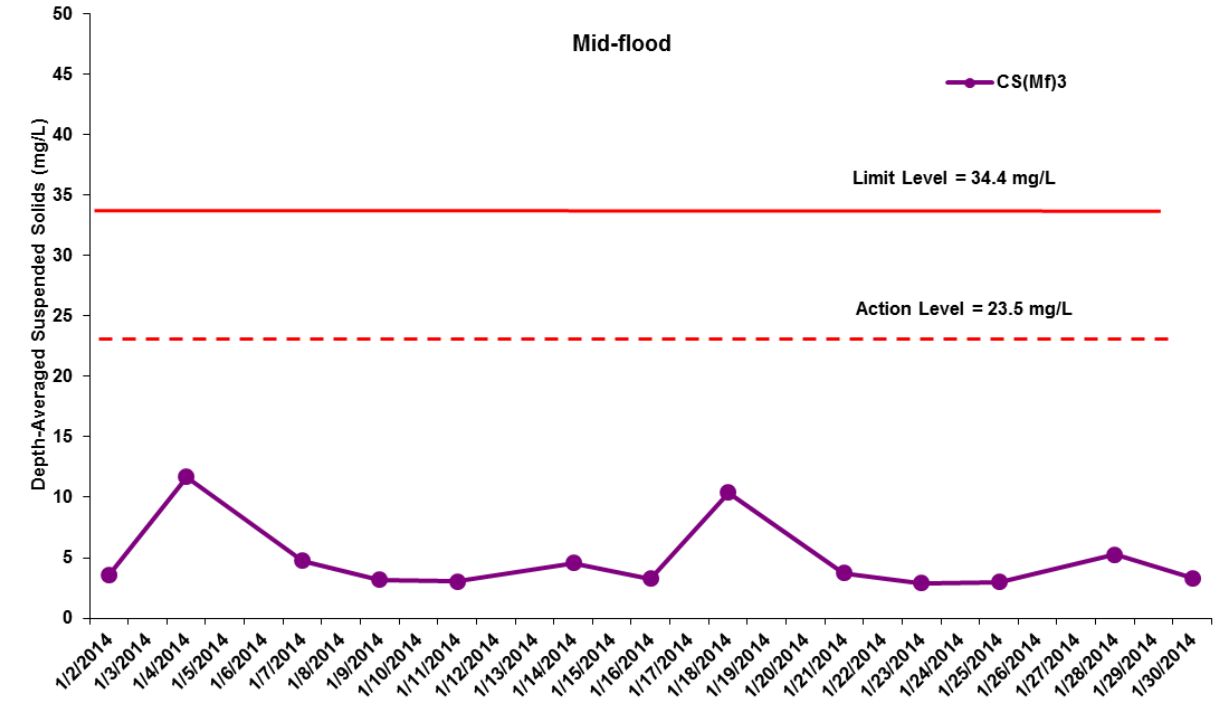


Figure J32 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-ebb tide between 1 to 31 January 2014 at SR4a.



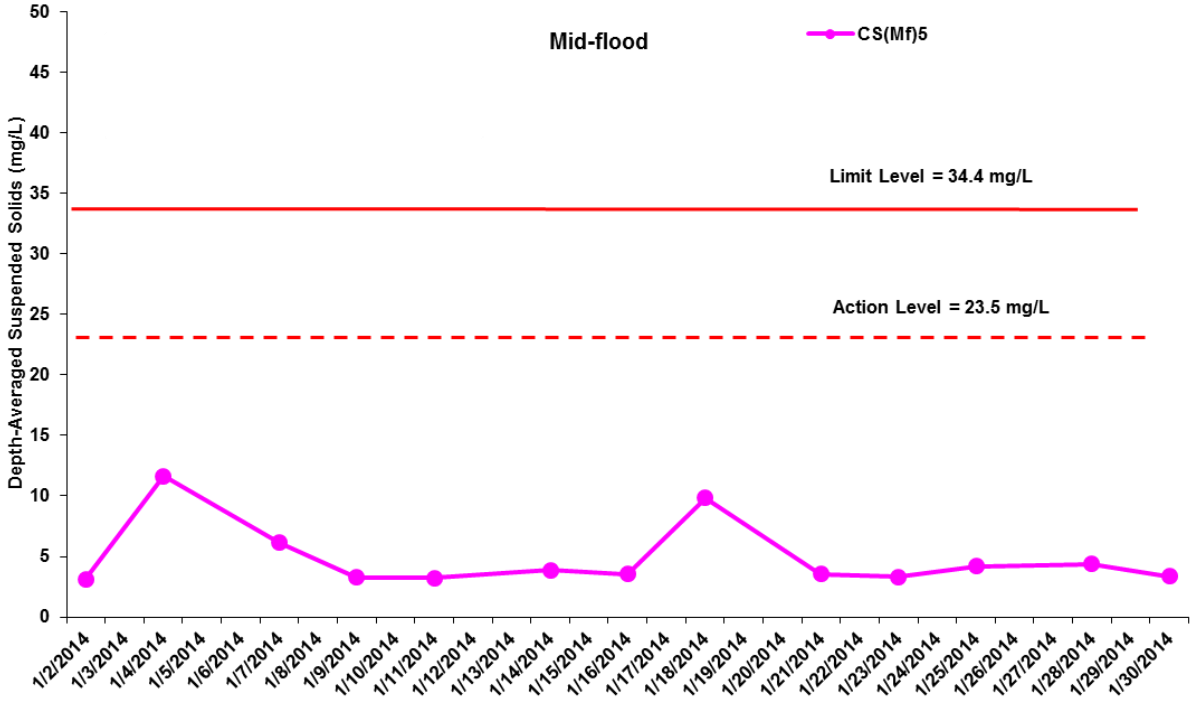
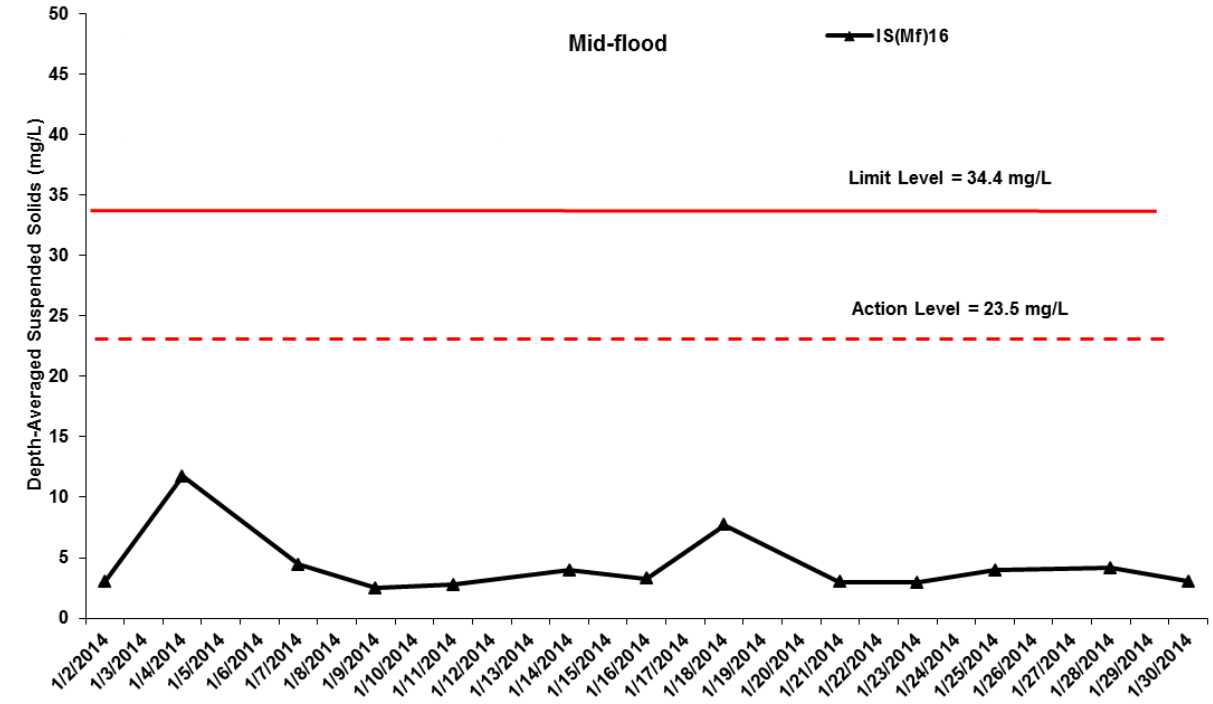


Figure J33 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 31 January 2014 at CS(Mf)3 and CS(Mf)5.



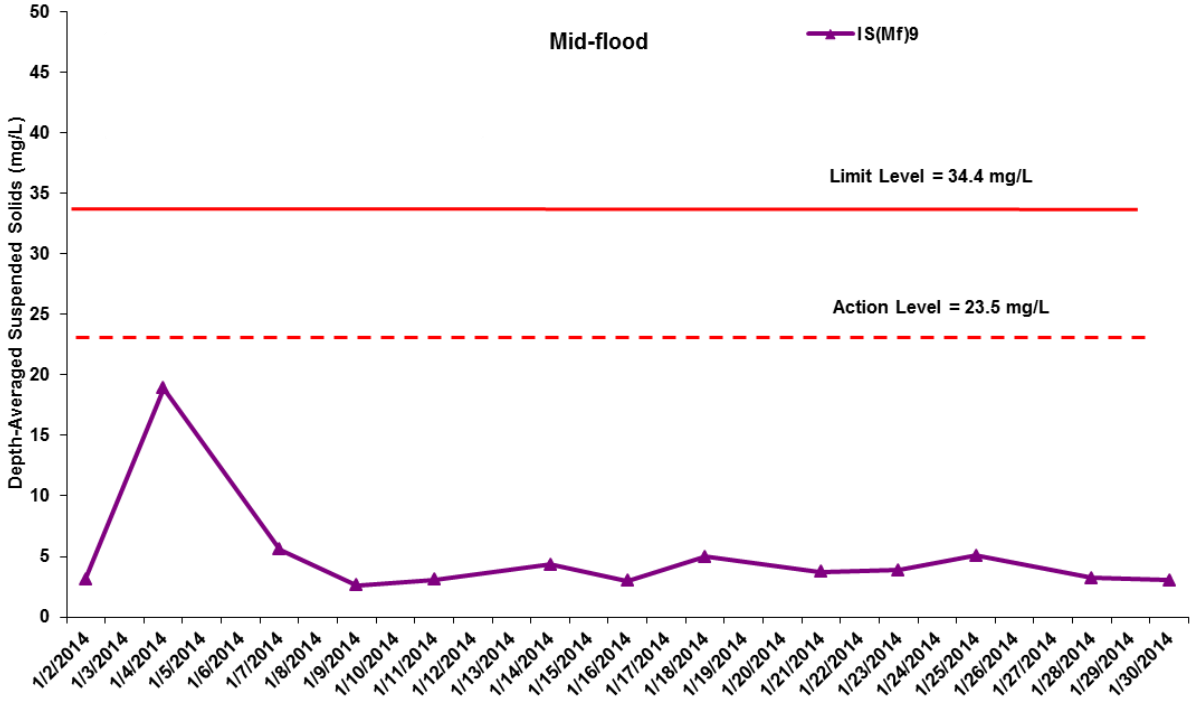
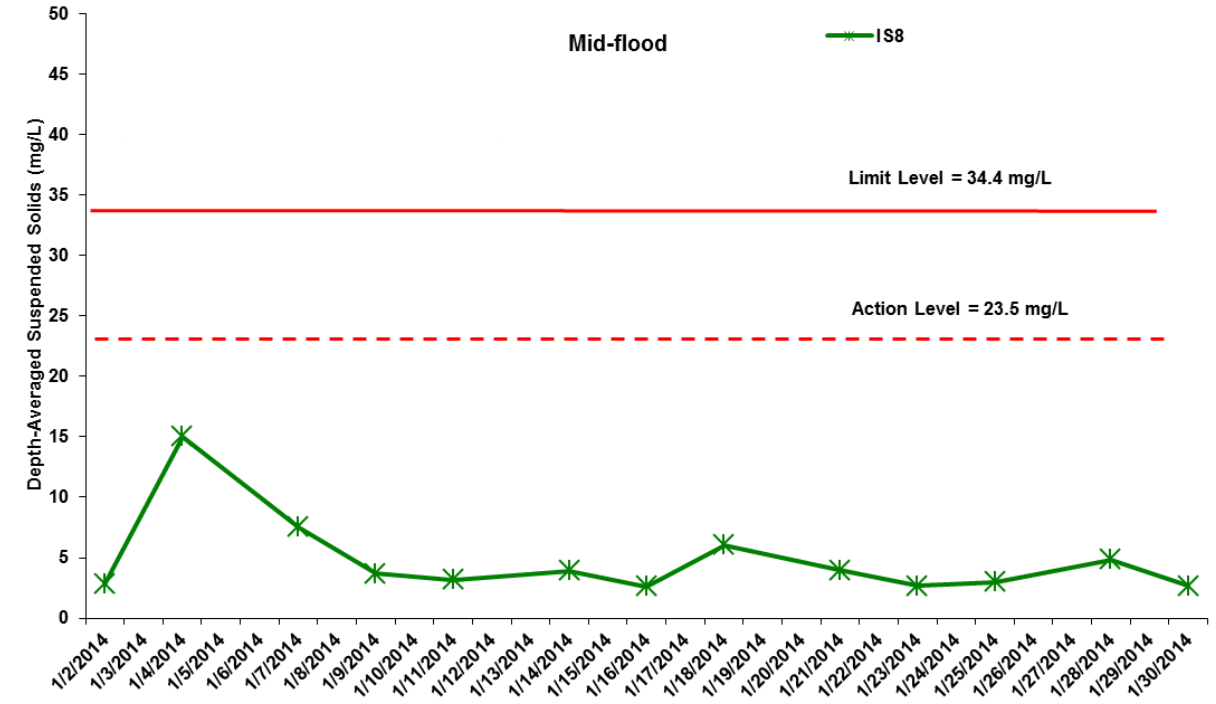


Figure J34 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 31 January 2014 at IS(Mf)16 and IS(Mf)9 .



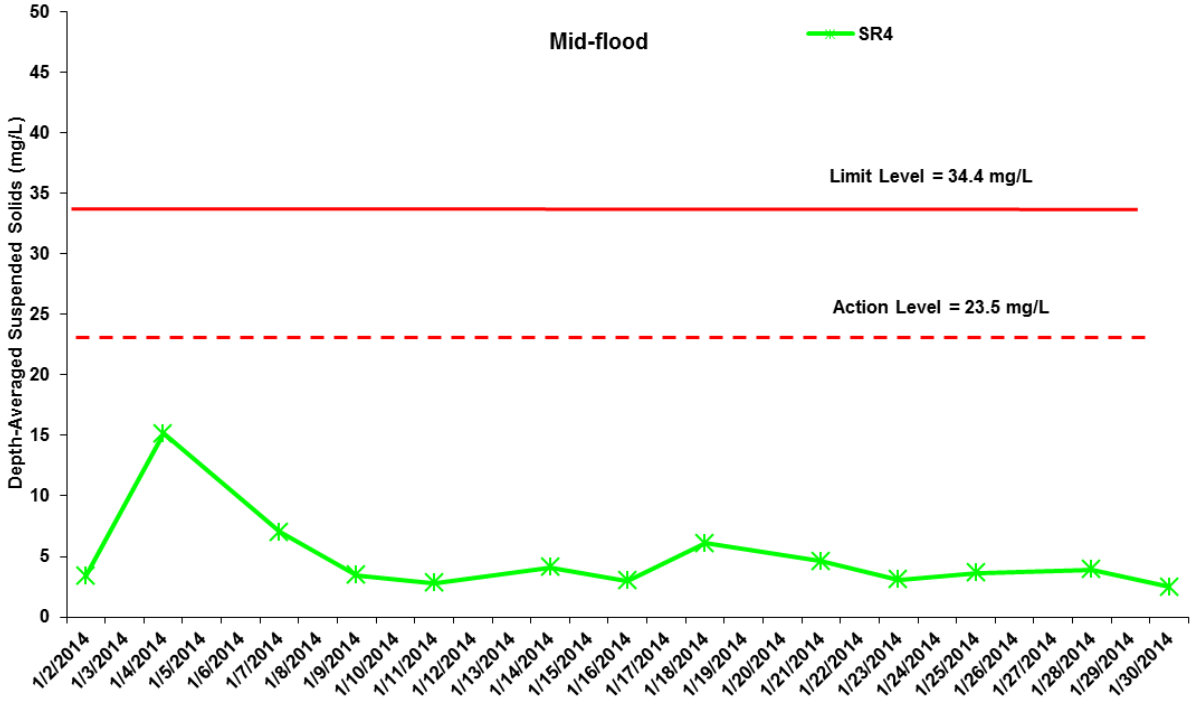


Figure J35 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 31 January 2014 at IS8 and SR4.

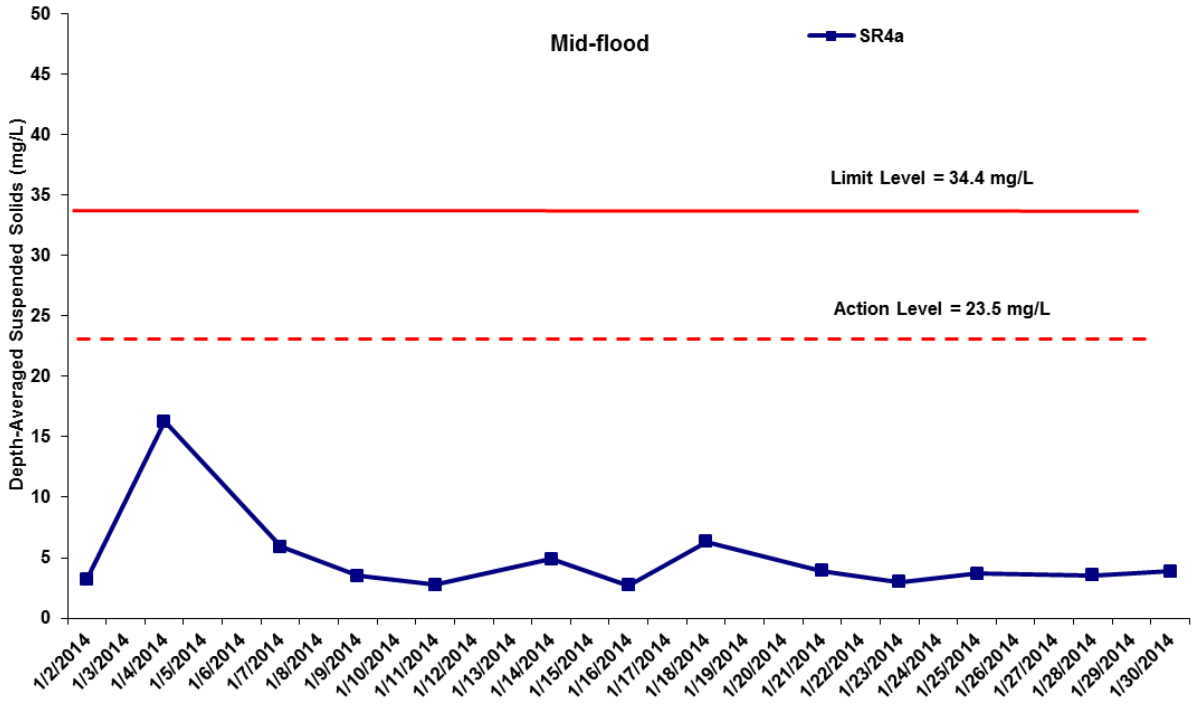


Figure J36 Impact Monitoring – Mean Level of depth-averaged Suspended Solids (mg/L) during mid-flood tide between 1 to 31 January 2014 at SR4a.

Appendix K

Impact Dolphin Monitoring Survey Results

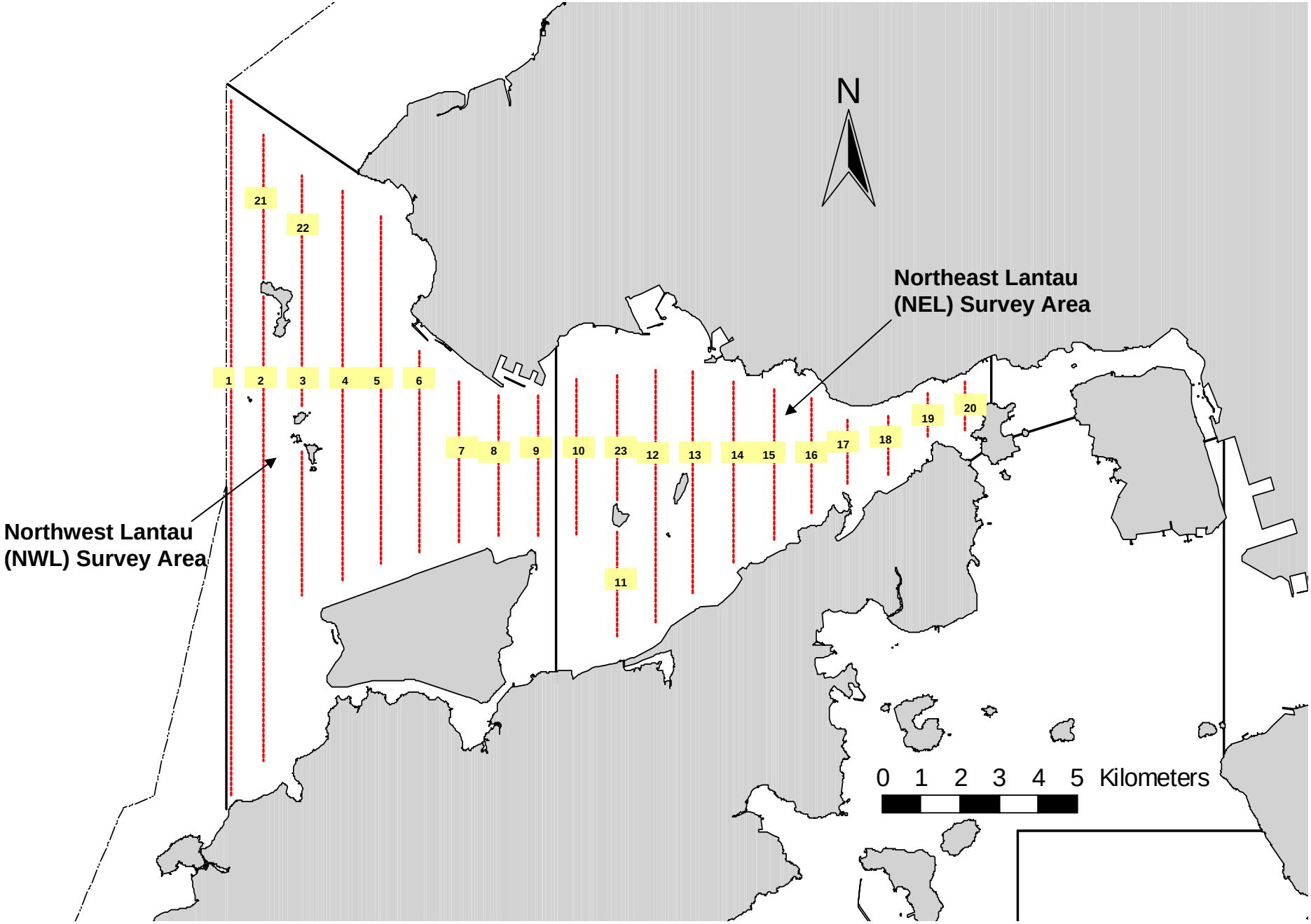


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

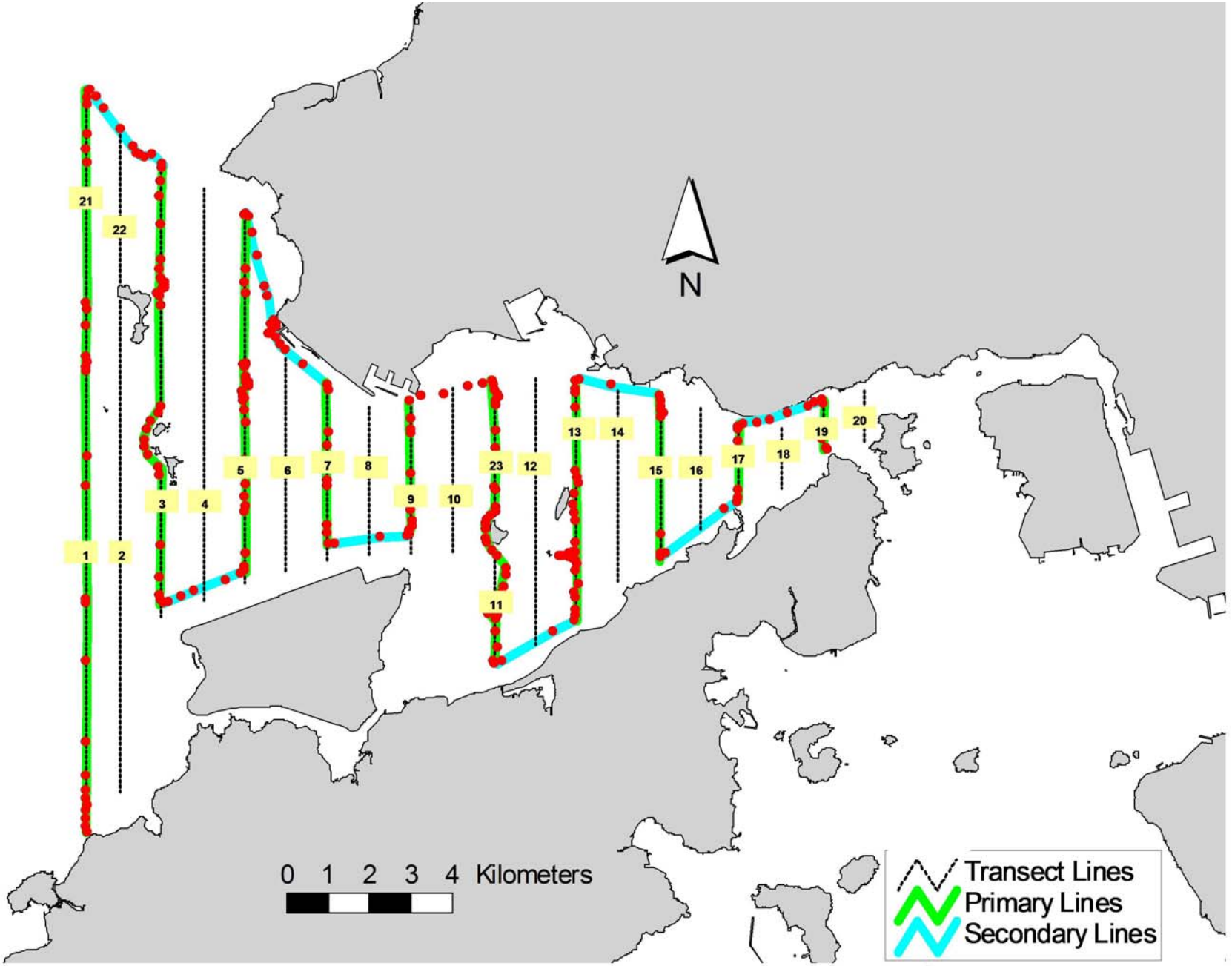


Figure 2. Survey Route on January 7th, 2014 (from HKLR03 project0

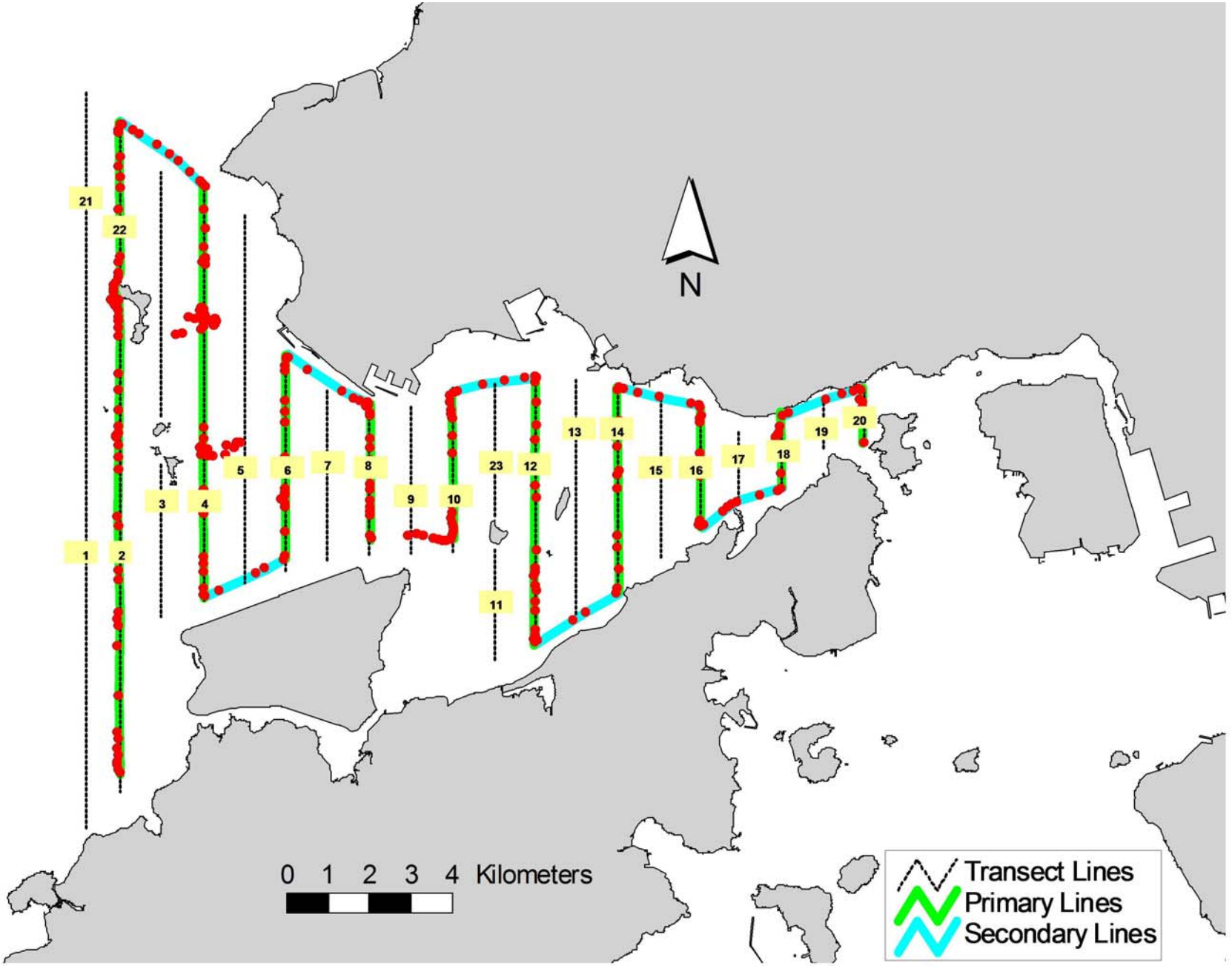


Figure 3. Survey Route on January 9th, 2014 (from HKLR03 project)

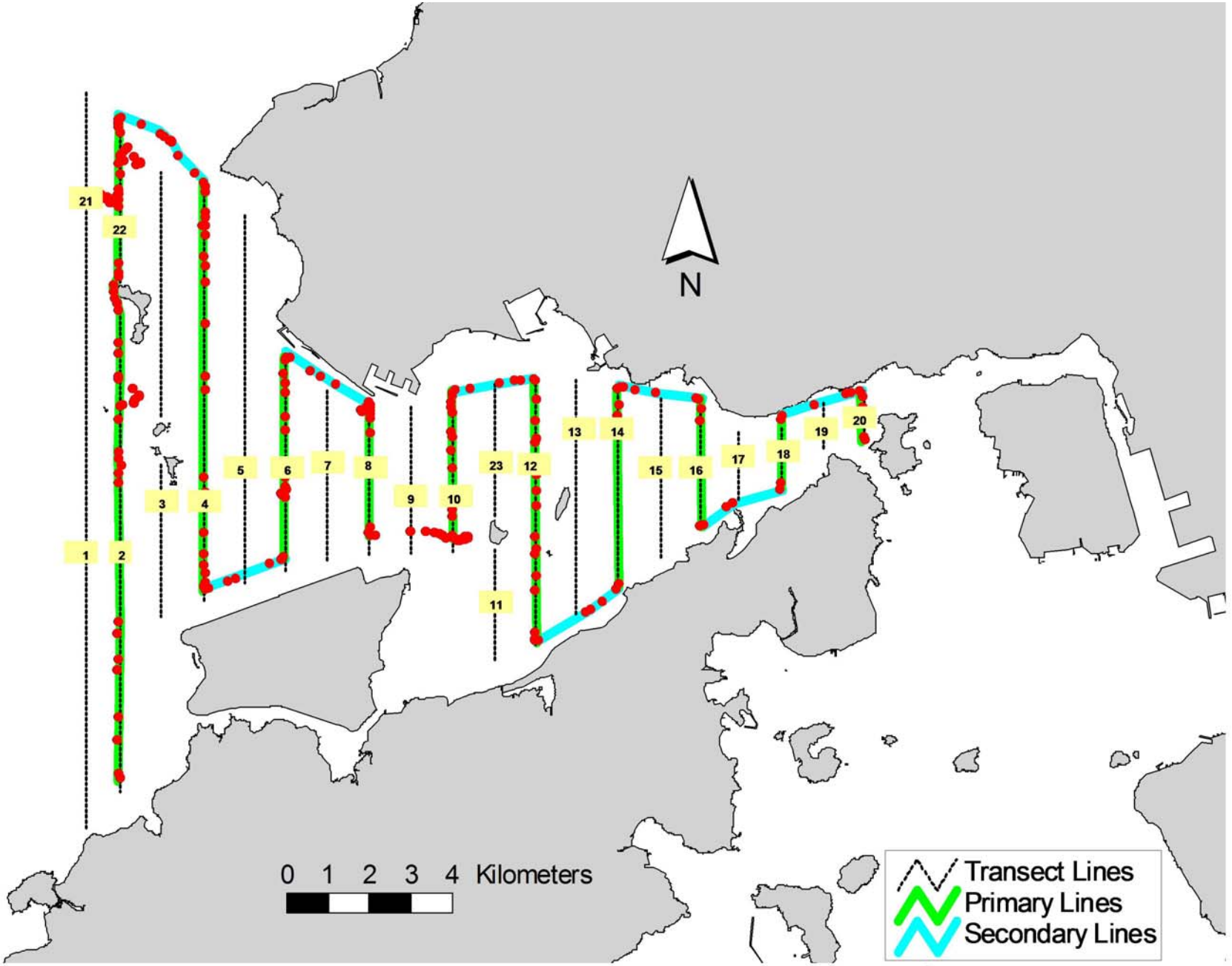


Figure 4. Survey Route on January 21st, 2014 (from HKLR03 project)

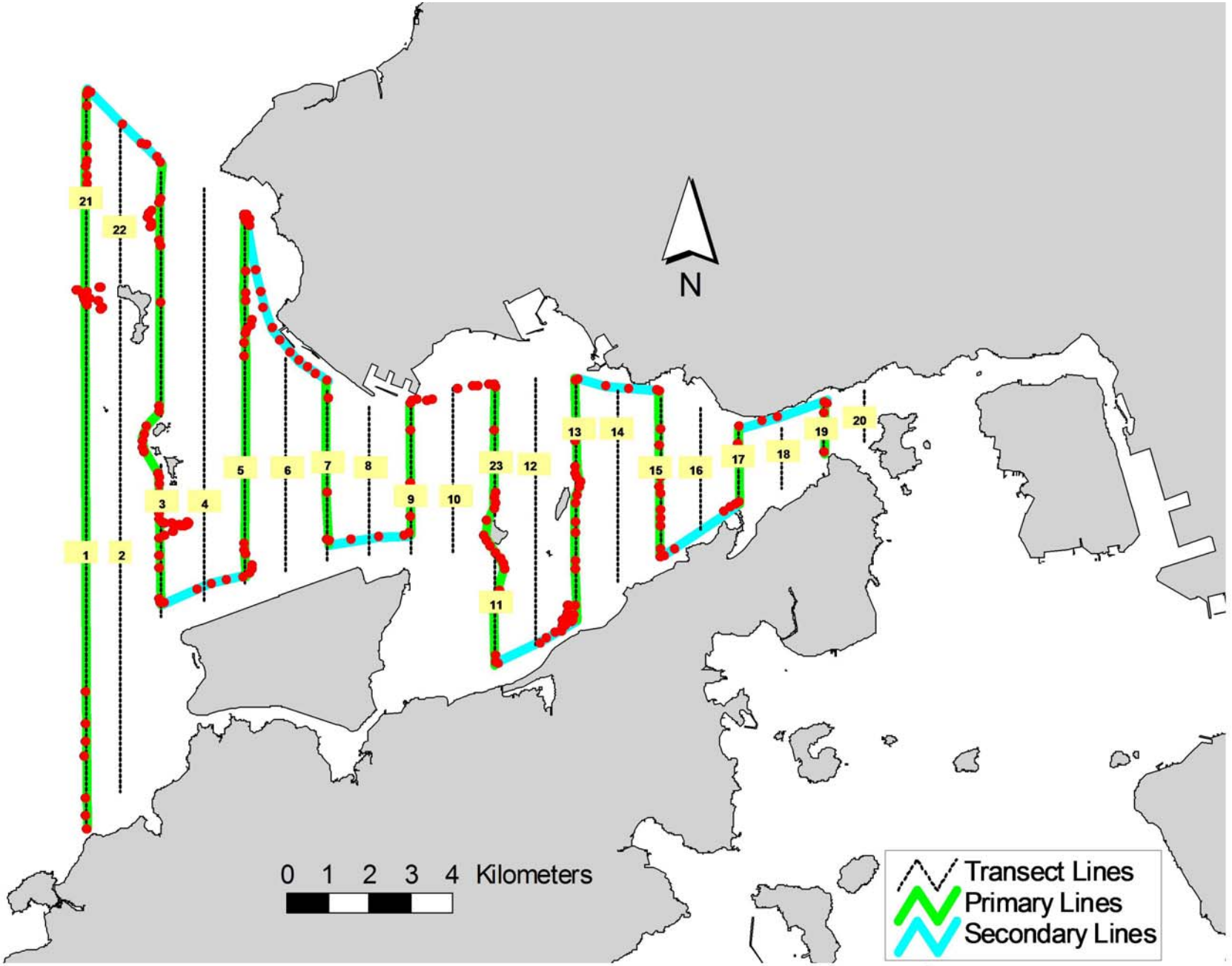


Figure 5. Survey Route on January 23rd, 2014 (from HKLR03 project)

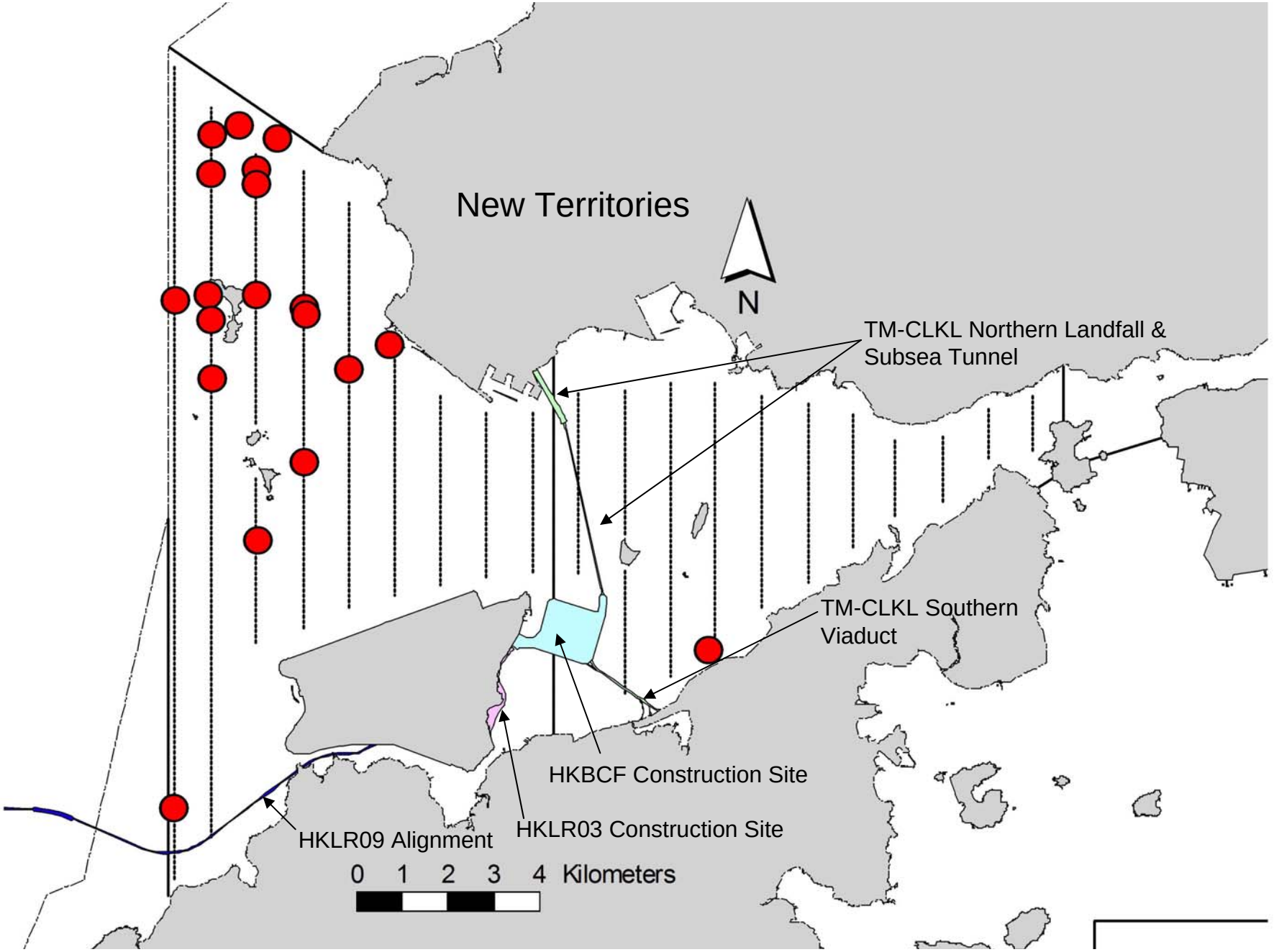


Figure 6. Distribution of Chinese White Dolphin Sightings During January 2014 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (January 2014)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
7-Jan-14	NE LANTAU	2	1.09	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NE LANTAU	3	14.05	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NE LANTAU	4	1.01	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NE LANTAU	2	3.39	WINTER	STANDARD31516	HKLR	S
7-Jan-14	NE LANTAU	3	7.60	WINTER	STANDARD31516	HKLR	S
7-Jan-14	NW LANTAU	2	9.81	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NW LANTAU	3	28.88	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NW LANTAU	2	8.13	WINTER	STANDARD31516	HKLR	S
7-Jan-14	NW LANTAU	3	3.43	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NE LANTAU	1	4.79	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NE LANTAU	2	14.76	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NE LANTAU	1	2.30	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NE LANTAU	2	8.28	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NW LANTAU	2	10.13	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NW LANTAU	3	21.20	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NW LANTAU	2	5.02	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NW LANTAU	3	2.06	WINTER	STANDARD31516	HKLR	S
21-Jan-14	NE LANTAU	2	4.00	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NE LANTAU	3	15.27	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NE LANTAU	4	1.50	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NE LANTAU	3	10.76	WINTER	STANDARD 31516	HKLR	S
21-Jan-14	NE LANTAU	4	0.40	WINTER	STANDARD 31516	HKLR	S
21-Jan-14	NW LANTAU	2	13.76	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NW LANTAU	3	14.44	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NW LANTAU	4	1.29	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NW LANTAU	2	4.95	WINTER	STANDARD 31516	HKLR	S
21-Jan-14	NW LANTAU	3	3.95	WINTER	STANDARD 31516	HKLR	S
23-Jan-14	NW LANTAU	1	4.93	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NW LANTAU	2	29.22	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NW LANTAU	3	5.21	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NW LANTAU	1	2.20	WINTER	STANDARD31516	HKLR	S
23-Jan-14	NW LANTAU	2	10.18	WINTER	STANDARD31516	HKLR	S
23-Jan-14	NE LANTAU	1	1.41	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NE LANTAU	2	12.52	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NE LANTAU	3	2.59	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NE LANTAU	1	0.47	WINTER	STANDARD31516	HKLR	S
23-Jan-14	NE LANTAU	2	9.53	WINTER	STANDARD31516	HKLR	S

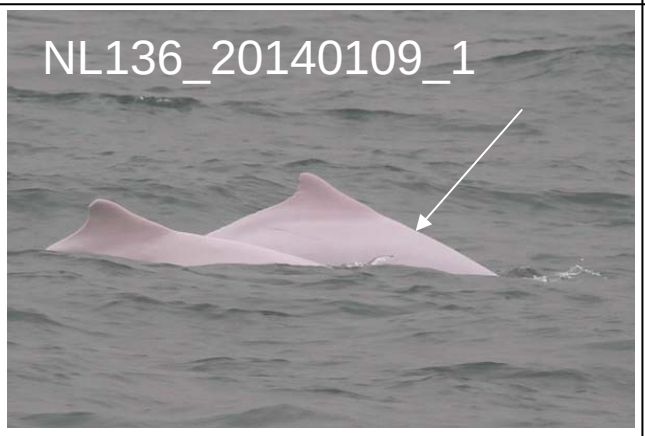
Appendix II. HKLR03 Chinese White Dolphin Sighting Database (January 2014)

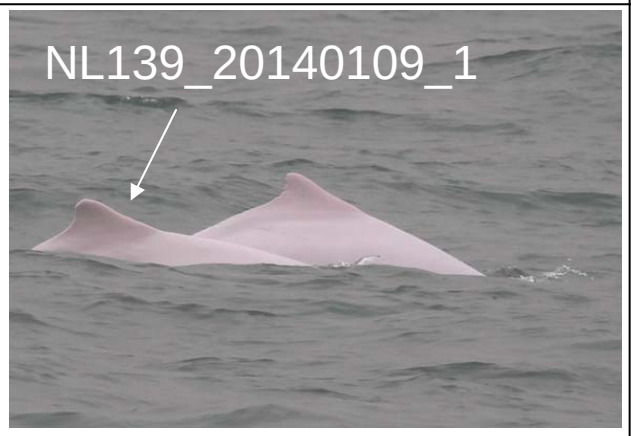
(Abberviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association; P/S: Sighting Made on Primary/Secondary Lines)

DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
7-Jan-14	1	1258	2	NW LANTAU	3	87	ON	HKLR	825659	809348	WINTER	NONE	S
7-Jan-14	2	1337	1	NW LANTAU	3	125	ON	HKLR	825152	808472	WINTER	NONE	P
7-Jan-14	3	1452	3	NW LANTAU	2	1171	ON	HKLR	826673	806456	WINTER	NONE	P
7-Jan-14	4	1515	6	NW LANTAU	2	5	ON	HKLR	829275	806451	WINTER	NONE	P
9-Jan-14	1	1336	6	NW LANTAU	3	24	ON	HKLR	823238	807510	WINTER	NONE	P
9-Jan-14	2	1407	10	NW LANATU	2	62	ON	HKLR	826405	807506	WINTER	NONE	P
9-Jan-14	3	1435	1	NW LANTAU	3	56	ON	HKLR	826272	807526	WINTER	NONE	P
9-Jan-14	4	1534	3	NW LANTAU	2	131	ON	HKLR	826675	805395	WINTER	NONE	S
9-Jan-14	5	1546	1	NW LANTAU	2	113	ON	HKLR	826176	805446	WINTER	NONE	P
21-Jan-14	1	1407	2	NW LANTAU	2	99	ON	HKLR	829916	806916	WINTER	NONE	S
21-Jan-14	2	1426	7	NW LANTAU	2	260	ON	HKLR	830008	805474	WINTER	NONE	P
21-Jan-14	3	1444	2	NW LANTAU	2	84	ON	HKLR	829188	805452	WINTER	NONE	P
21-Jan-14	4	1521	9	NW LANTAU	2	434	ON	HKLR	824969	805464	WINTER	NONE	P
23-Jan-14	1	1015	2	NW LANTAU	2	977	ON	HKLR	816090	804642	WINTER	NONE	P
23-Jan-14	2	1101	4	NW LANTAU	2	329	ON	HKLR	826576	804674	WINTER	NONE	P
23-Jan-14	3	1133	3	NW LANTAU	1	957	ON	HKLR	830195	806061	WINTER	NONE	P
23-Jan-14	4	1202	5	NW LANTAU	1	199	ON	HKLR	828976	806450	WINTER	NONE	P
23-Jan-14	5	1250	2	NW LANTAU	2	372	ON	HKLR	821623	806467	WINTER	NONE	P
23-Jan-14	6	1538	9	NE LANTAU	2	365	ON	HKLR	819337	816344	WINTER	NONE	S

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

ID#	DATE	STG#	AREA
CH34	23/01/14	4	NW LANTAU
CH112	23/01/14	2	NW LANTAU
EL01	21/01/14	1	NW LANTAU
	23/01/14	6	NE LANTAU
NL11	23/01/14	3	NW LANTAU
NL24	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL33	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL46	23/01/14	4	NW LANTAU
NL48	07/01/14	4	NW LANTAU
	09/01/14	2	NW LANTAU
	09/01/14	3	NW LANTAU
	21/01/14	1	NW LANTAU
	23/01/14	3	NW LANTAU
NL80	21/01/14	2	NW LANTAU
NL98	09/01/14	2	NW LANTAU
NL103	07/01/14	4	NW LANTAU
NL104	23/01/14	4	NW LANTAU
NL120	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL123	23/01/14	2	NW LANTAU
	23/01/14	5	NW LANTAU
NL136	07/01/14	1	NW LANTAU
	09/01/14	1	NW LANTAU
NL139	07/01/14	1	NW LANTAU
	09/01/14	1	NW LANTAU
	23/01/14	6	NE LANTAU
NL214	07/01/14	4	NW LANTAU
	21/01/14	4	NW LANTAU
NL220	09/01/14	1	NW LANTAU
NL221	07/01/14	4	NW LANTAU
	21/01/14	4	NW LANTAU
NL226	21/01/14	4	NW LANTAU
NL236	21/01/14	3	NW LANTAU
NL242	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL259	23/01/14	4	NW LANTAU
NL261	23/01/14	4	NW LANTAU
NL272	09/01/14	1	NW LANTAU
	21/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL284	21/01/14	4	NW LANTAU
NL285	23/01/14	2	NW LANTAU
NL308	21/01/14	2	NW LANTAU
WL162	21/01/14	3	NW LANTAU
WL214	09/01/14	4	NW LANTAU





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

Appendix IV. (cont'd)

Appendix IV. (cont'd)

Appendix IV. (cont'd)

Appendix IV. (cont'd)

Appendix IV. (cont'd)

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

Date 23-Jan-14 Time 16:58 to 17:18

Sighting No. HY/2012/07 - 1

Sighting Distance (meters) ~150 to 250m.

Sighting Position Within the DEZ of the workfront of the landing platform at TAB D (see attached map).

Species [✓] Chinese White Dolphin

[ ] Finless Porpoise

[ ] Others

Group Size 3 (A total of 4 CWDs were observed, three of which entered the DEZ).

Beaufort 2

Survey Area Dolphin Exclusion Zone for the landing platform workfront.

Survey Type EM&A - Dolphin Exclusion Zone Monitoring during daylight hours.

Chronological Actions Taken

15:51 Dolphins were spotted outside the DEZ by the Dolphin Observers (DO) from the workfront of the landing platform.

15:51 The Contractor was informed by the DO. Since the dolphins were still out of the DEZ, marine construction works continued but the dolphin group was being closely monitored on their traveling route and direction.

15:51 to 16:57 Dolphins remained present outside the DEZ of the landing platform.

16:58 to 17:18 Dolphins entered the DEZ of the landing platform. Marine construction works were suspended by the Contractor at 16:58 upon request by the DO.

17:18 Dolphins were still within the DEZ of the landing platform when marine construction works were scheduled to stop for the day. Marine construction works have been suspended since 16:58 and were not re-started on that day.

17:39 IEC and the Dolphin Specialist were informed by ET about the intrusion event.

17:45 SOR RSIOW was informed by the Contractor about the intrusion event.

Note: Marine construction activities were not re-started after its suspension at 16:58 until the end of the scheduled marine construction works.

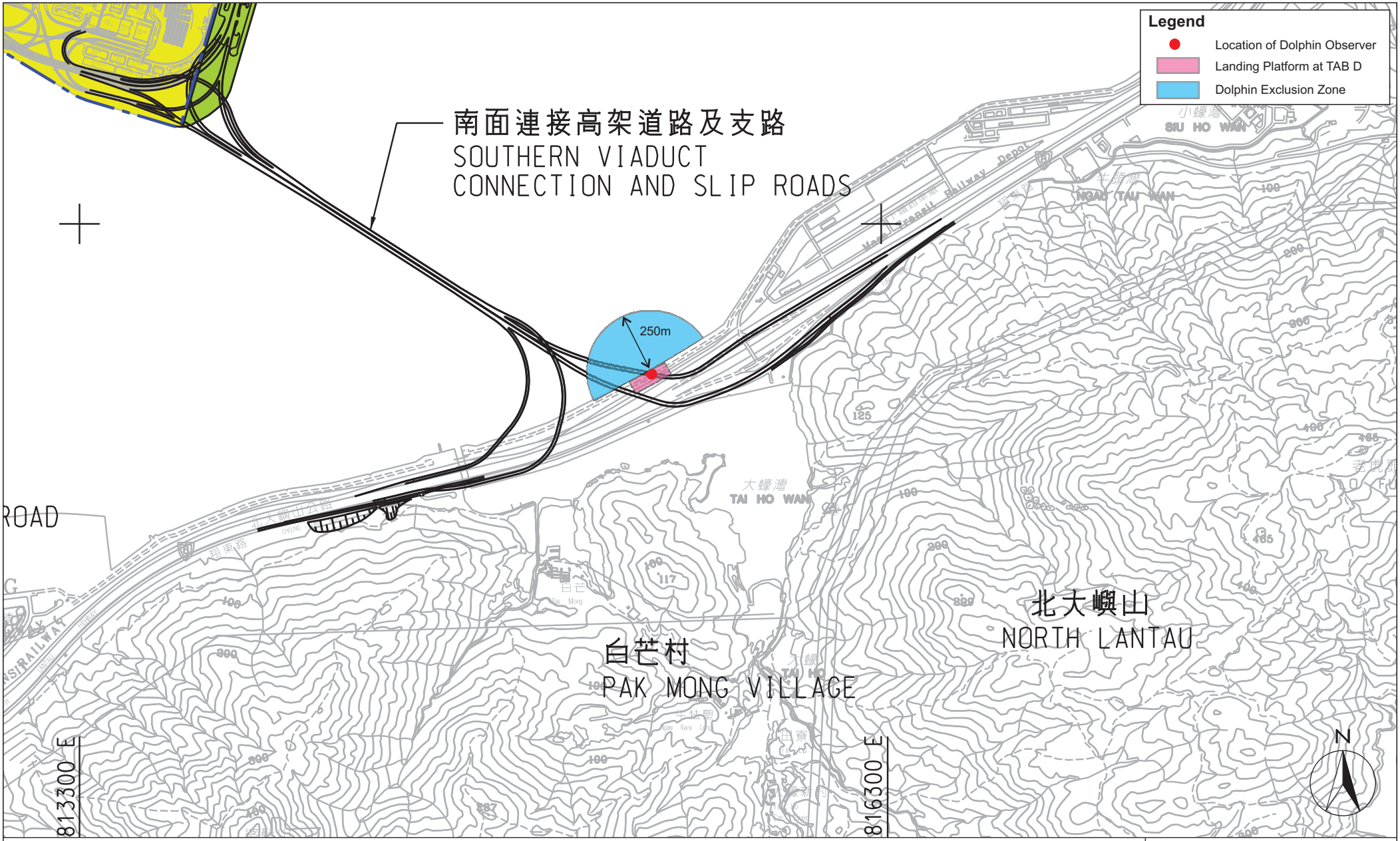


Figure 3.1

Location of Landing Platform at TAB D

FILE: 0215660f2
DATE: 24/01/2014

Environmental Resources Management

ERM

Photos of the Sighted CWDs

Appendix L

Event Action Plan

Appendix L1 Event/ Action Plan for Air Quality

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

Appendix L2 Event/ Action Plan for Construction Noise

	ACTION			
EVENT	**ET**	**IEC**	**SOR**	**Contractor**
Action Level	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.	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.	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.	1. Submit noise mitigation proposals to IEC 2. Implement noise mitigation proposals
Limit Level	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.	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.	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.	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	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.	Check monitoring data submitted by ET and Contractor's working methods.	Confirm receipt of notification of non-compliance in writing; Notify Contractor.	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	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;	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.	Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures.	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	Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SOR and EPD;	Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions;	Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures;	Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment

Event	ET Leader	IEC	SOR	Contractor
	Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor;	Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly.	Request Contractor to review the working methods.	and consider changes of working methods; Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
Limit level being exceeded by two or more consecutive sampling days	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 Limit level for two consecutive days;	Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly; Supervise the implementation of mitigation measures.	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are properly implemented; 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.	Take immediate action to avoid further exceedance; Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control; 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	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.	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor.	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.	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	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.	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.	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.	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**
Action Level With the numerical values presented in *Table 5.7*, when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see *Table5.8*), 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	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	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor;	1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented.	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
Limit Level With the numerical values presented in Table 5.7, when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower or higher than that recorded in the baseline monitoring (see Table 5.8), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered	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.	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.	1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; 2. Make agreement on measures to be implemented.	1. Inform the SO and confirm notification of the non- compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the SO; 3. Implement the agreed measures.

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

Appendix M

Monthly Summary of Waste Flow Table

Contract No. : HY/2012/07
Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section
Monthly Summary Waste Flow Table for 2014 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D wastes Generation					Actual Quantities of Recyclables Generation			
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Marine Sediment, Cat. L	Marine Sediment, Cat. Mp	Marine Sediment, Cat. Mf	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000m^3)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	0.138	0.011	0.108	-	0.030	-	-	-	-	-	22.380	-	0.011	-	-
Feb															
Mar															
Apr															
May															
Jun															
SUB-TOTAL	**0**	**0.011**	**0.108**	**0**	**0.030**	**0**	**0**	**0**	**0**	**0**	**22.38**	**0**	**0.011**	**0**	**0**
Jul															
Aug															
Sep															
Oct															
Nov															
Dec															
TOTAL	**0.138**	**0.011**	**0.108**	**-**	**0.030**	**-**	**-**	**-**	**-**	**-**	**22.38**	**-**	**0.011**	**-**	**-**

Notes :

1 - The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

2 - Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

3 - Broken concrete for recycling into aggregates.

Appendix N

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

Appendix N1 Cumulative Statistics on Exceedances

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

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 (Dec 2013)	0	0	0
Total No. received since project commencement	1	0	0