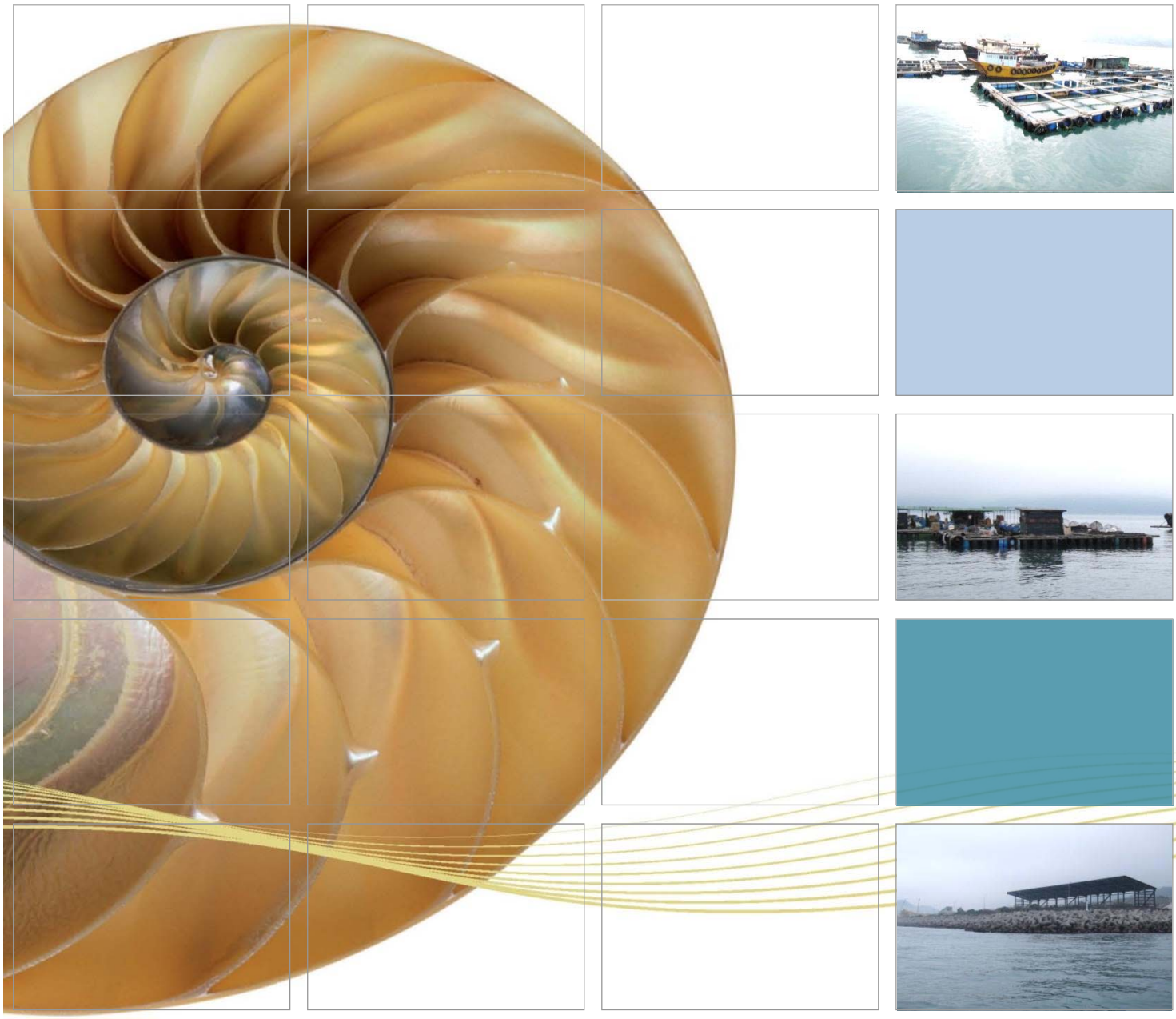
MONITORING REPORT



Asia Submarine-cable Express (ASE) – Tseung Kwan O

First Weekly Impact Water Quality Monitoring Report

19 October 2012

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

www.erm.com

Asia Submarine-cable Express (ASE) – Tseung Kwan O

1st Weekly Impact Water Quality Monitoring Report

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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

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Client:	GMS No:
NTT Com Asia Ltd	0171870
Summary: This report presents the monitoring requirements, methodologies and results of the impact marine water quality measurements at the monitoring locations near Tseung Kwan O in accordance with the EM&A Manual.	Date: 19 October 2012 Approved by:  *Terence Fong* *Project Director*

0	1st Weekly Impact Water Quality Monitoring Report	YL	GYANG	TFONG	19 Oct 12
Revision	Description	By	Checked	Approved	Date

Distribution

☒ Internal

☒ Public

☐ Confidential

Asia Submarine-cable Express (ASE) – Tseung Kwan O
Environmental Certification Sheet
EP-433/2011

Reference Document/Plan

Document/~~Plan~~ to be ~~Certified~~/ Verified:	First Weekly Impact Water Quality Monitoring Report
Date of Report:	19 October 2012
Date prepared by ET:	ERM-Hong Kong Ltd
Date received by IEC:	Ecosystem Ltd

Reference EM&A Manual/ EP Requirement

EM&A Manual Requirement: Section 2

Content: *Water Quality Monitoring*

2.5 "The Impact Monitoring Report will be provided weekly within three days after the relevant monitoring data are collected or become available during the cable laying work....."

"The Weekly Impact Monitoring shall include, but not limited to, the following details: Basic Project Information..., Operating practices of the cable burial machine during sampling and an interpretation of monitoring results; and the monitoring data should be provided graphically to show the relationship between the Control and the Impact monitoring stations and compliance or non-compliance with respect to the Action/Limit Levels"

EP Condition: Condition No. 2.4

Content: *Baseline Monitoring Report on Water Quality*

(ii)(b) To monitor the environmental impacts and timely implementation of the recommended mitigation measures, the Permit Holder shall submit to the Director four hard copies and one electronic copy of the weekly impact monitoring and site audit reports within three days after the relevant monitoring data are collected or become available.

ET Certification

I hereby certify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-433/2011.

Terence Fong, Environmental Team Leader: Date: 19 October 2012

IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-433/2011.

Vincent Lai, Independent Environmental Checker: Date: 19 October 2012

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LIST OF TABLES

LIST OF ANNEXES

The submarine cable installation works for the Asia Submarine-cable Express (ASE) cable system were commenced on 8 October 2012. This is the **First Weekly Impact Water Quality Monitoring Report** presenting the impact water quality monitoring conducted during the period from **8 October 2012** to **14 October 2012** in accordance with the Monitoring and Audit Manual (EM&A Manual).

Summary of Construction Works Undertaken during the Reporting Period

During the reporting period, submarine cable laying works in Zone A and B were undertaken and had been largely completed by the end of the week.

Water Quality Monitoring

Seven monitoring events were scheduled in the reporting period in Zone A and Zone B. Monitoring events at Zone A and Zone B designated monitoring stations were generally performed on schedule.

Environmental Non-conformance

Exceedances of Action and Limit Levels were recorded during the reporting week. However, the exceedances were considered to reflect natural background fluctuation rather than to be caused by the Project.

No complaint and summons/prosecution was received during the reporting week.

Future Key Issues

The submarine cable installation works will be conducted in Zone C and from Zone C eastward to the boundary Hong Kong marine waters in the coming week. Impact water quality monitoring will then be carried out in Zone C and cease once the cable installation barge moves out Zone C or no cable laying works are undertaken within Zone C.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by NTT Com Asia (NTTCA) as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the installation of a telecommunication cable (Asia-Submarine-cable Express (ASE)) of approximately 7,200 km in length, connecting Japan and Singapore with branches to the Philippines, Hong Kong SAR (HKSAR) and Malaysia (thereinafter called the Project).

1.1 PURPOSE OF THE REPORT

This is the **First Weekly Impact Water Quality Monitoring Report**, which summarises the results of impact water quality monitoring as part of the EM&A programme during the reporting period from **8 October** to **14 October 2012**.

1.2 STRUCTURE OF THE REPORT

The structure of the Report is as follows:

Section 1 : ***Introduction***
Provides details of the background, purpose and report structure.

Section 2 : ***Project Information***
Summarises background and scope of the project, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3 : ***Water Quality Monitoring Requirements***
Summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, and Event Action Plan.

Section 4 : ***Monitoring Results***
Summarises the water quality monitoring results obtained in the reporting period.

Section 5 : ***Environmental Non-conformance***
Summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

Section 6 : ***Future Key Issues***
Summarises the monitoring schedule for the next reporting period.

Section 7 : ***Conclusions***
Presents the key findings of the impact monitoring results.

2 PROJECT INFORMATION

2.1 BACKGROUND

NTT Com Asia (NTTCA) proposes to install a telecommunication cable (Asia Submarine-cable Express (ASE) cable) of approximately 7,200 km in length, connecting Japan and Singapore with branches to the Philippines, Hong Kong SAR (HKSAR) and Malaysia. NTTCA is responsible for securing the approval to land the ASE cable in Tseung Kwan O, Hong Kong SAR (HKSAR). The proposed landing site will be at a new Beach Manhole (BMH) and ultimately connect with a Data Centre in Tseung Kwan O (TKO) Industrial Estate which is scheduled for completion in 2012. From Tseung Kwan O, the cable will extend eastward approaching the Tathong Channel. Near to Cape Collinson, the cable is approximately parallel to the Tathong Channel until north of Waglan Island where the cable travels eastward to the boundary of HKSAR waters where it enters the South China Sea. The total length of cable in Hong Kong SAR waters is approximately 33.5 km. A map of the proposed cable route is presented in *Figure 2.1*.

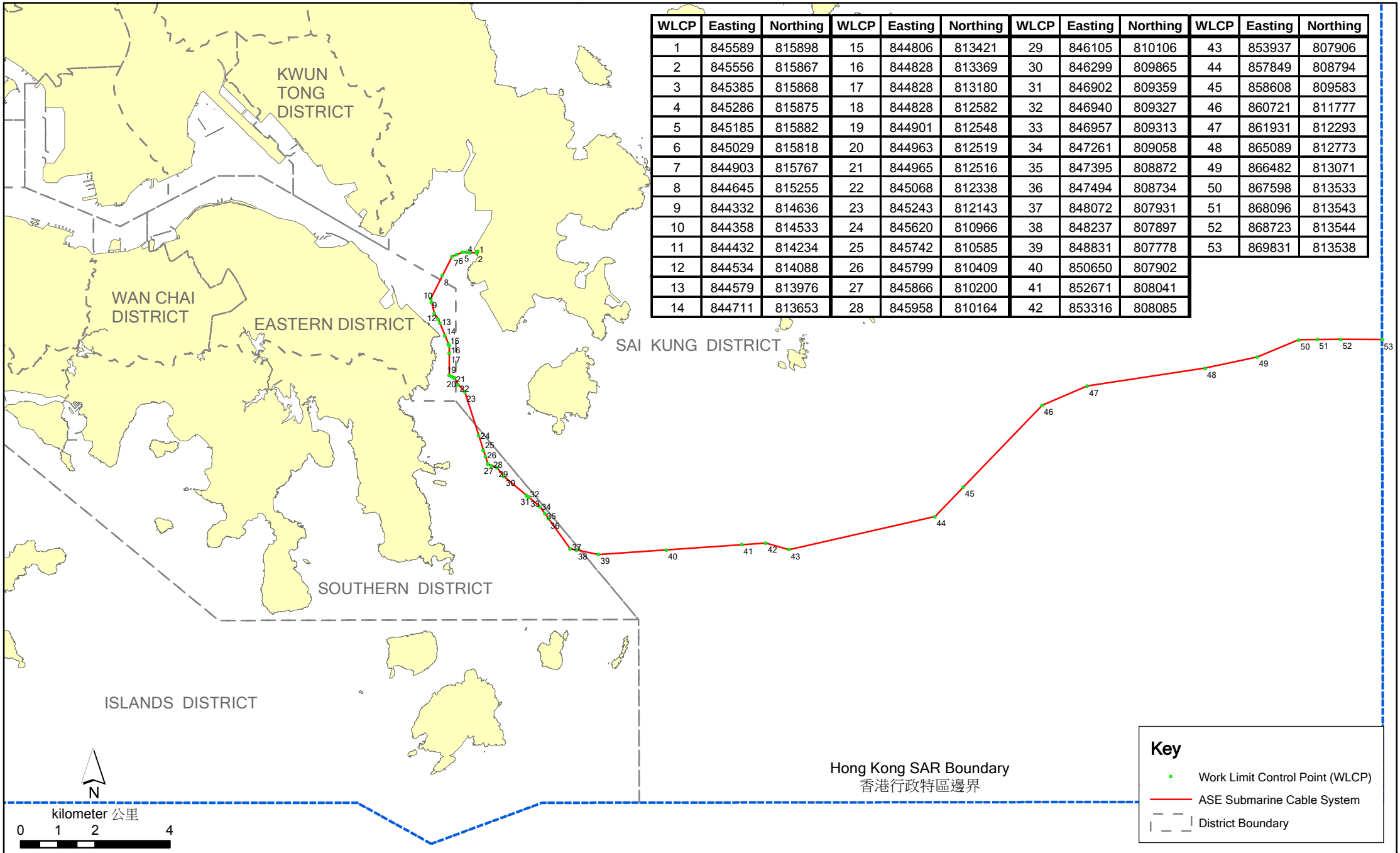
A Project Profile (PP-452/2011) which includes an assessment of the potential environmental impacts associated with the installation of the submarine telecommunications cable system was prepared and submitted to the Environmental Protection Department (EPD) under section 5. (1)(b) and 5.(11) of the Environmental Impact Assessment Ordinance (EIAO) for the application for Permission to apply directly for Environmental Permit (EP). The Environmental Protection Department, subsequently issued an Environmental Permit (EP- 433/2011).

Pursuant to Condition 2.4 of the EP, an environmental monitoring and audit programme as set out in the Environmental Monitoring and Audit Manual (EM&A Manual) is required to be implemented. In accordance with Section 2 of the EM&A Manual, impact monitoring of marine water quality should be undertaken when the cable installation barge works in Zone A, Zone B and Zone C.

Impact monitoring started on 8 October 2012, when the cable laying works commenced in Zone A. During the reporting period, the impact monitoring was conducted on a daily basis as the cable laying works proceeded in Zone A and Zone B. This Report therefore presents the monitoring results from the monitoring stations in Zone A and Zone B.

2.2 MARINE CONSTRUCTION WORKS UNDERTAKEN DURING REPORTING WEEK

Cable laying works in Zone A and Zone B were undertaken during the reporting week from **8 October 2012** to **14 October 2012**, and had been largely completed by the end of the week.



WLCP	Easting	Northing	WLCP	Easting	Northing	WLCP	Easting	Northing	WLCP	Easting	Northing
1	845589	815898	15	844806	813421	29	846105	810106	43	853937	807906
2	845556	815867	16	844828	813369	30	846299	809865	44	857849	808794
3	845385	815868	17	844828	813180	31	846902	809359	45	858608	809583
4	845286	815875	18	844828	812582	32	846940	809327	46	860721	811777
5	845185	815882	19	844901	812548	33	846957	809313	47	861931	812293
6	845029	815818	20	844963	812519	34	847261	809058	48	865089	812773
7	844903	815767	21	844965	812516	35	847395	808872	49	866482	813071
8	844645	815255	22	845068	812338	36	847494	808734	50	867598	813533
9	844332	814636	23	845243	812143	37	848072	807931	51	868096	813543
10	844358	814533	24	845620	810966	38	848237	807897	52	868723	813544
11	844432	814234	25	845742	810585	39	848831	807778	53	869831	813538
12	844534	814088	26	845799	810409	40	850650	807902			
13	844579	813976	27	845866	810200	41	852671	808041			
14	844711	813653	28	845958	810164	42	853316	808085			

Figure 2.1

ASE Submarine Cable System (Layout Plan)

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Date: 17/09/2012

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2.3 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences and reports on environmental protection for this Project is presented in *Table 2.1*.

Table 2.1 Summary of Environmental Licensing, Notification, Permit and Reporting Status

Permit / Licence / Notification / Report	Reference	Validity Period	Remarks
Environmental Permit	EP 433/2011	Throughout the construction and operation stages	Granted on 20 December 2011
EM&A Manual	-	Throughout the construction stage	Revised EM&A Manual submitted on 18 September 2012
Baseline Water Quality Monitoring Report (Zone A)	-	Throughout the construction period for Zone A	Submitted on 19 September 2012
Baseline Water Quality Monitoring Report (Zone B)	-	Throughout the construction period for Zone B	Submitted on 25 September 2012
Baseline Water Quality Monitoring Report (Zone C)		Throughout the construction period for Zone C	Submitted on 1 October 2012

3 IMPACT WATER QUALITY MONITORING REQUIREMENTS

3.1 MONITORING LOCATIONS

In accordance with the *EM&A Manual,* during the installation of the cable in Zone A, water quality sampling was undertaken at the stations situated around the cable laying works in Zone A. The locations of the sampling stations within Zone A are shown in *Figure 3.1*.

- E7 is the Impact Station located at Fat Tong Chau to monitor the impacts of cable installation works on the coral communities in the proximity;
- E8 is an Impact Station to monitor the impacts of cable installation works on the coral communities along Junk Bay – South West;
- E9 is an Impact Station to monitor the impacts of cable installation works on the coral communities at Cape Collison (the Gradient Station is not set due to the short distance of this Impact Station to nearby proposed cable works which may affect the cable laying works);
- F1 is an Impact Station to monitor the impacts of cable installation works on the Tung Lung Chau Fish Culture Zone;
- S1 is an Impact Station situated at the WSD Seawater Intake Point in Junk Bay. It is located within 500 m north of the cable alignment at Junk Bay and set up to monitor the effect of cable laying works in the area;
- S2 is an Impact Station to monitor the impacts of cable installation works on the WSD Seawater Intake at Siu Sai Wan;
- S3 is an Impact Station to monitor the impacts of cable installation works on the Pamela Youde Nethersole Eastern Hospital Cooling Water Intake at Heng Fa Chuen;
- G1 is a Gradient Station between S1 and the cable alignment;
- G2 is a Gradient Station between S2 and the cable alignment;
- G3 is a Gradient Station between F1 and the cable alignment; and
- C1 is a Control Station (approximately 3 km from the proposed cable alignment) for Zone A. It is not supposed to be influenced by the cable laying works due to its remoteness to the construction works.

The co-ordinates of the above monitoring stations in Zone A are listed in *Table 3.1*.

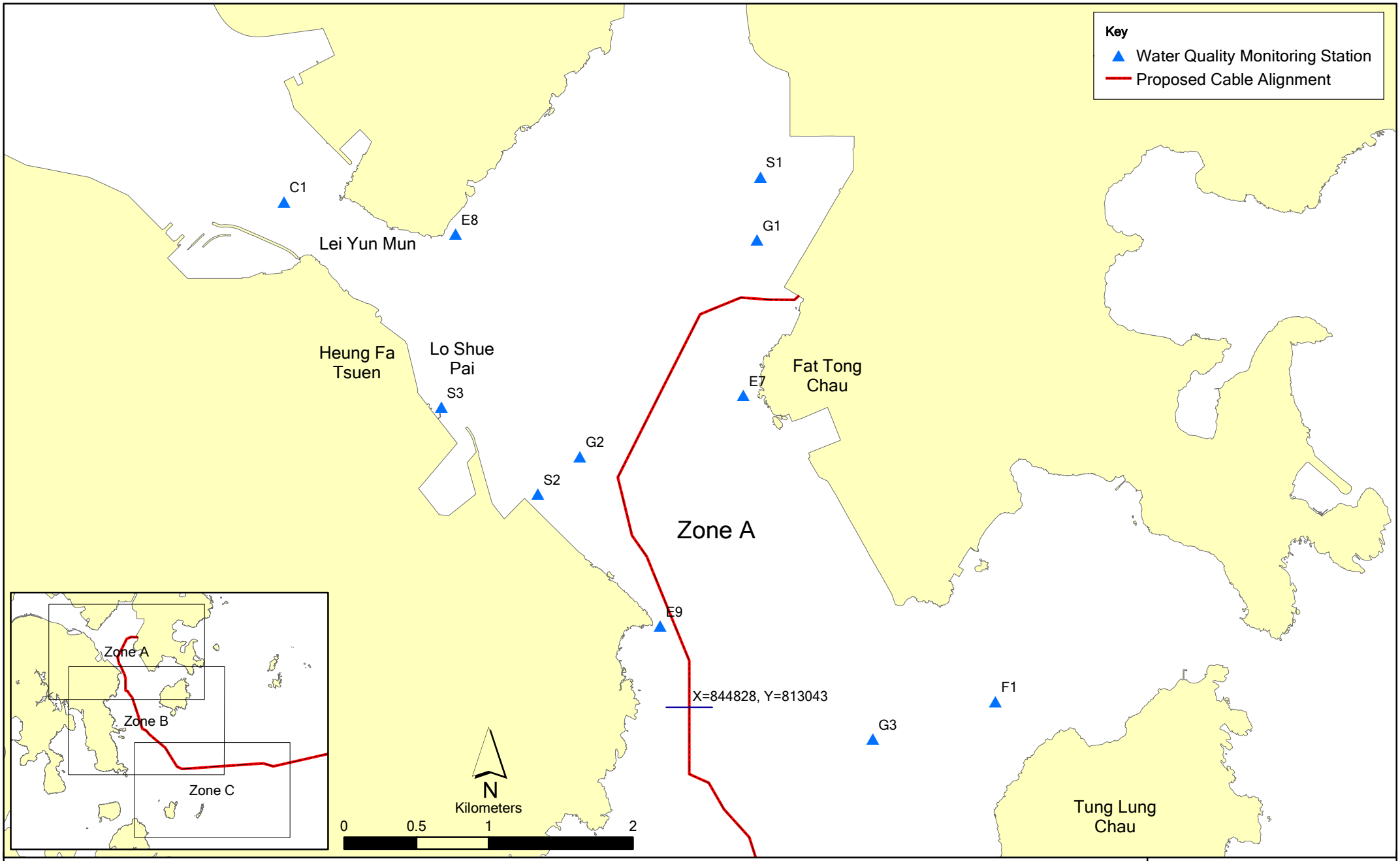

Figure 3.1

Water Quality Monitoring Station (Zone A)

File:0171870_Proposed_WQMS_ZoneA.mxd
Date: 17/09/2012

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Table 3.1 Co-ordinates of Water Quality Impact Monitoring Stations in Zone A

Monitoring Station	Nature	Easting	Northing
E7	Impact Station (Coral Community)	843779	814520
E8	Impact Station (Coral Community)	843111	815126
E9	Impact Station (Coral Community)	843557	811853
F1	Impact Station (Fish Culture Zone)	847196	811056
S1	Impact Station (Seawater Intakes)	847639	805900
S2	Impact Station (Seawater Intakes)	849587	805696
S3	Impact Station (Seawater Intakes)	845474	810605
G1	Gradient Station	845297	816282
G2	Gradient Station	844071	814784
G3	Gradient Station	846099	812826
C1	Control Station	842022	816547

In accordance with the *EM&A Manual,* during the installation of the cable in Zone B, water quality sampling was undertaken at the stations situated around the cable laying works in Zone B. The locations of the sampling stations within Zone B are shown in *Figure 3.2*.

- B1 is an Impact Station to monitor the impacts of cable installation works on the Big Wave Bay Beach;
- B2 is an Impact Station to monitor the impacts of cable installation works on the Rocky Bay Beach;
- B3 is an Impact Station to monitor the impacts of cable installation works on the Shek O Beach;
- E1 is an Impact Station to monitor impacts of cable installation works on Cape d'Aguilar Marine Reserve;
- E2 is an Impact Station to monitor the impacts of cable installation works on the coral communities at Tung Lung Chau;
- E6 is an Impact Station to monitor the impacts of cable installation works on the coral communities at Tai Long Pai (the Gradient Station is not set due to the short distance of this Impact Station to nearby proposed cable works which may affect the cable laying works);
- E9 is an Impact Station to monitor the impacts of cable installation works on the coral communities at Cape Collison (the Gradient Station is not set due to the short distance of this Impact Station to nearby proposed cable works which may affect the cable laying works);
- F1 is an Impact Station to monitor the impacts of cable installation works on the Tung Lung Chau Fish Culture Zone;
- G3 is a Gradient Station between F1 and the cable alignment;
- G4 is a Gradient Station between E2 and the cable alignment;
- G7 is a Gradient Station between E1 and the cable alignment; and

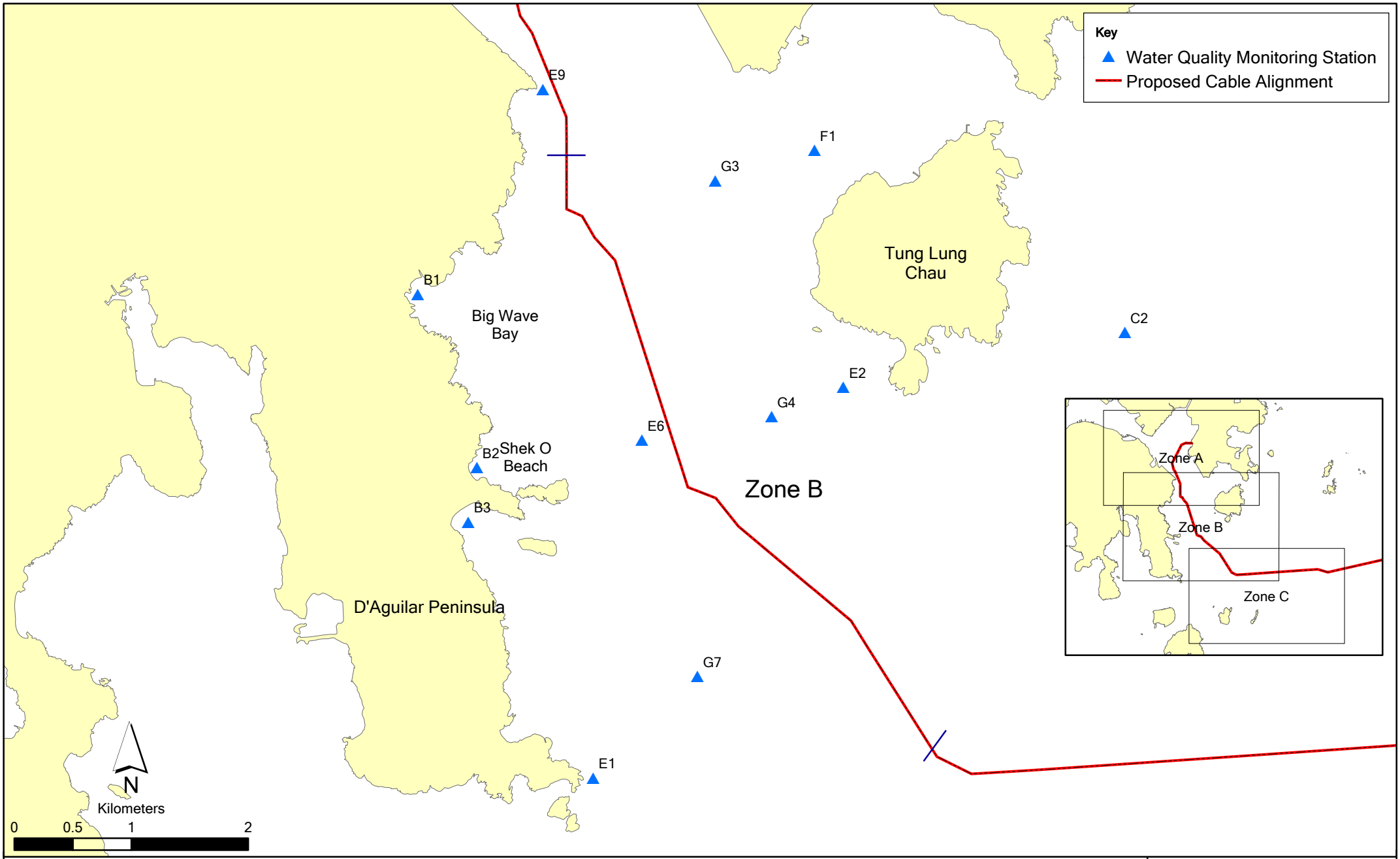

Figure 3.2

Water Quality Monitoring Station (Zone B)

File: 0171870_Proposed_WQMS_ZoneB.mxd
Date: 20/09/2012

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- C2 is a Control Station (approximately 3.4 km from the proposed cable alignment) for Zone B. It is not supposed to be influenced by the cable laying works due to its remoteness to the construction works.

The co-ordinates of the above monitoring stations in Zone B are listed in *Table 3.2*.

Table 3.2 Co-ordinates of Water Quality Impact Monitoring Stations in Zone B

Monitoring Station	Nature	Easting	Northing
B1	Impact Station (Beach)	843557	811853
B2	Impact Station (Beach)	844062	810369
B3	Impact Station (Beach)	843988	809902
E1	Impact Station (Marine Reserve)	845474	810605
E2	Impact Station (Coral Communities)	845203	815205
E6	Impact Station (Coral Communities)	845321	816718
E9	Impact Station (Coral Communities)	843557	811853
F1	Impact Station (Fish Culture Zone)	847196	811056
G3	Gradient Station	846099	812826
G4	Gradient Station	846583	810809
G7	Gradient Station	845946	808583
C2	Control Station	849603	811528

3.2 MONITORING PARAMETERS

The impact water quality monitoring was conducted in accordance with the requirements stated in the *EM&A Manual*. Monitoring parameters are presented as below.

Parameters measured *in situ* were:

- dissolved oxygen (DO) (% saturation and mg L^{-1}),
- temperature (°C),
- turbidity (NTU), and
- salinity (‰).

The only parameter measured in the laboratory was:

- suspended solids (SS) (mgL^{-1}).

In addition to the water quality parameters, other relevant data were measured and recorded in field logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

3.3 MONITORING EQUIPMENT AND METHODOLOGY

3.3.1 Monitoring Equipment

Table 3.3 summaries the equipment used for the impact water quality monitoring.

Table 3.3 Equipment Used during the Impact Water Quality Monitoring

Equipment	Model
Global Positioning Device	Garmin etrex 10
Water Depth Gauge	Speedtech Instrument SM-5A
Water Sampling Equipment	1510 Kemmerer Water Sampler
Salinity, DO, Temperature Measuring Meter	YSI Pro 2030
Current Velocity and Direction	Flow Probe FP11
Turbidity Meter	HACH Model 2100Q Turbid Meter

3.3.2 Monitoring Methodology

Timing & Frequency

In-situ data and SS data were collected during the cable installation works from 07:00 to 23:00 on a daily basis. The impact monitoring schedule for the reporting period is presented in *Annex A*.

Impact monitoring at E7, E8, E9, F1, S1, S2, S3, G1, G2, G3 and C1 commenced when the cable installation barge works were within Zone A. The sampling works ceased once the cable barge was outside Zone A or no cable laying works were being undertaken within Zone A.

Similarly, impact monitoring at C2, G3, G4, G7, B1, B2, B3, E1, E2, E6, E9 and F1 commenced when the cable installation barge works were within Zone B. The sampling works ceased once the cable barge was outside Zone B or no cable laying works were being undertaken within Zone B.

Due to the weather conditions and travelling time between stations, *in-situ* and SS measurements were taken at the impact monitoring stations with approximately four-hour interval in Zone A and Zone B. The monitoring frequency and parameters for Impact Monitoring are summarised in *Table 3.4*.

Table 3.4 ***Monitoring Frequency and Parameters for Impact Monitoring in Zone A and Zone B***

Zone	Station Type	Monitoring Station	Monitoring Frequency	Monitoring Parameter
A	Control	C1	Daily at ~4-hour interval while cable installation works were being undertaken in Zone A	Temperature, Turbidity, Salinity, DO and SS
	Gradient	G1, G2, G3		
	Impact	E7, E8, E9, F1, S1, S2, S3,		
B	Control	C2	Daily at ~4-hour interval while cable installation works were being undertaken in Zone B	Temperature, Turbidity, Salinity, DO and SS
	Gradient	G3, G4, G7		
	Impact	B1, B2, B3, E1, E2, E6, E9, F1		

Duplicate samples were collected from each of the monitoring events for *in situ* measurements and laboratory analysis.

Depths

Each station was sampled and measurements/ water samples were taken at three depths, namely, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth less than 6 m, the mid-depth station may be omitted. For stations that are less than 3 m in depth, only the mid-depth sample was taken.

For in situ measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were collected at each water depth at each station.

Sampling/ Testing Protocols

All *in situ* monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.

For the on-site calibration of field equipment, the *BS 1427: 1993, Guide to Field and On-Site Test Methods for the Analysis of Waters* was observed. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available.

Water samples for SS measurements were collected in high density polythene bottles, packed in ice (cooled to 4° C without being frozen), and delivered to a HOKLAS laboratory as soon as possible after collection.

Two replicate samples were collected from each of the monitoring events for *in situ* measurement and lab analysis.

Laboratory Analysis

All laboratory work was carried out in a HOKLAS accredited laboratory. Water samples of about 1,000 mL were collected at the monitoring and control stations for carrying out the laboratory determinations. The determination work started within the next working day after collection of the water samples. The SS laboratory measurements were provided within 2 days of the sampling event (48 hours). The analyses followed the standard methods as described in APHA Standard Methods for the *Examination of Water and Wastewater*, *19th Edition*, unless otherwise specified (APHA 2540D for SS).

The QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme (*Annex B*)

3.3.3 Action and Limit Levels

The Action and Limit levels for Zones A, which were established based on the results of *Baseline Environmental Monitoring (Zone A)*, are presented in *Table 3.5*.

Table 3.5 Action and Limit Levels of Water Quality for Zones A

Parameter	Action Level	Limit Level
SS in mgL^{-1} (Depth-averaged) [a] [c]	95%-ile of baseline data ($6.27\ mg\ L^{-1}$), or	99%-ile of baseline data ($6.40\ mg\ L^{-1}$) , and
	20% exceedance of value at any impact station compared with corresponding data from control station	30% exceedance of value at any impact station compared with corresponding data from control station
DO in mgL^{-1} [b]	Surface and Middle[d] 5%-ile of baseline data for surface and middle layer (4.36 mg L-1)	Surface and Middle[d] 5mg/L or 1%-ile of baseline for surface and middle layer (4.25 mg L-1)
	Bottom 5%-ile of baseline data for bottom layers ($4.39\ mg\ L^{-1}$)	Bottom 2mg/L or 1%-ile of baseline data for bottom layer ($4.33\ mg\ L^{-1}$)
Turbidity in NTU (Depth-averaged) [a] [c]	95%-ile of baseline data (4.38 NTU), or	99%-ile of baseline data (4.43 NTU), and
	20% exceedance of value at any impact station compared with corresponding data from control station	30% exceedance of value at any impact station compared with corresponding data from control station

Notes:

a. "Depth-averaged" is calculated by taking the arithmetic means of reading of all sampled depths.

b. For DO, non-compliance of the water quality limits occurs when the monitoring result is lower than the limits.

c. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

d. The Action and Limit Level for DO for surface and middle layer were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

The Action and Limit levels for Zones B, which were established based on the results of *Baseline Environmental Monitoring (Zone B)*, are presented in *Table 3.6*.

Table 3.6 Action and Limit Levels for Water Quality for Zone B

Parameter	Action Level	Limit Level
SS in mgL^{-1} (Depth-averaged) (a) (c)	95%-ile of baseline data (4.09 mg L^{-1}), or	99%-ile of baseline data (4.60 mg L^{-1}) , and
	20% exceedance of value at any impact station compared with corresponding data from control station	30% exceedance of value at any impact station compared with corresponding data from control station
DO in mgL^{-1} (b)	Surface and Middle(d)	Surface and Middle(d)
	5%-ile of baseline data for surface and middle layer (4.72 mg L-1)	5mg/L or 1%-ile of baseline for surface and middle layer (4.57 mg L-1)
	Bottom	Bottom
	5%-ile of baseline data for bottom layers (4.52 mg L^{-1})	2mg/L or 1%-ile of baseline data for bottom layer (4.44 mg L^{-1})
Turbidity in NTU (Depth-averaged) (a) (c)	95%-ile of baseline data (3.01 NTU), or	99%-ile of baseline data (3.13 NTU), and
	20% exceedance of value at any impact station compared with corresponding data from control station	30% exceedance of value at any impact station compared with corresponding data from control station

Notes:

e. "Depth-averaged" is calculated by taking the arithmetic means of reading of all sampled depths.

f. For DO, non-compliance of the water quality limits occurs when the monitoring result is lower than the limits.

g. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

h. The Action and Limit Level for DO for surface and middle layer were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

3.3.4 Event and Action Plan

The Event and Action Plan for water quality monitoring which was stipulated in the *EM&A Manual* is presented in *Table 3.7*.

Table 3.7 Event Action Plan for Water Quality

Event	Contractor
Action Level Exceedance	**Step 1** - repeat sampling event. **Step 2 –** identify source(s) of impact and confirm whether exceedance was due to the construction works; **Step 3 –** inform EPD, AFCD and LCSD and confirm notification of the non-compliance in writing; **Step 4** - discuss with cable installation contractor the most appropriate method of reducing suspended solids during cable installation (e.g. reduce cable laying speed/volume of water used during installation). **Step 5** - repeat measurements after implementation of mitigation for confirmation of compliance. **Step 6** - if non compliance continues - increase measures in Step 4 and repeat measurements in Step 5. If non compliance occurs a third time, suspend cable laying operations.
Limit Level Exceedance	Undertake **Steps 1-5** immediately, if further non compliance continues at the Limit Level, suspend cable laying operations until an effective solution is identified.

A total of seven monitoring events were scheduled between **8 October** and **14 October 2012**. Monitoring events at all designated monitoring stations within Zone A and Zone B were generally performed on schedule. No major activities influencing the water quality were identified during the reporting period.

4.1 DATA COLLECTED DURING REPORTING PERIOD

Continuous water sampling was taken at the impact monitoring stations in Zone A and Zone B at approximately 4-hour intervals (subject to the weather conditions and travelling time between stations) on a daily basis. In general, the water quality of Zone A and Zone B was stable throughout each sampling day though natural fluctuation existed. Neither sudden drop in dissolved oxygen concentrations nor sharp increase in turbidity levels and suspended solid levels were observed on each monitoring day. The results of the impact monitoring and their graphical presentations were included in *Annex C*.

Despite relatively stable water quality, exceedances of the Action and Limit Levels were recorded during the reporting week except 12 Oct 2012. A summary of stations where exceedances were recorded is presented in *Table 4.1*. Exceedances with detailed information of location and time were presented in *Annex C*.

Table 4.1 Summary of Exceedances Occurring during the Reporting Week

Date	Surface DO		Middle DO		Bottom DO		Depth-averaged Turbidity		Depth-averaged SS	
	Exceedance of									
	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
08/10					E9, S3	E9, S3				
09/10					S1, S2, S3	S1				
10/10					E9, S3	E9, S3				
11/10					E9, S3					
12/10										
13/10			F1				E9, F1, B3	E9	E9, F1	E9
14/10			F1				E9, F1	E9	E9	E9

4.2 EXCEEDANCES DURING REPORTING PERIOD

4.2.1 Exceedances on 8 October 2012

Exceedances of the Action and Limit Levels in bottom DO were recorded at Stations E9 and S3 in the 1st, 2nd and 3rd sampling rounds on 8 October 2012 (*Table 4.2*).

According to the daily barge operation report, there were some maintenance and repair works carried out by the Contractor and the burial operation (ie jetting works) did not start until 17:00 of 08 October 2012. Jetting works were undertaken between 17:00 – 23:00 on the day.

As stated above, jetting works for the Project were not being undertaken when the exceedances were recorded in the 1st and 2nd rounds of marine water quality monitoring (ie 09:00 – 15:04). Therefore, the exceedances of the Action/Limit levels at E9 and S3 in the first two rounds are considered as representing natural background fluctuations.

The exceedances of the Action Level at S3 in the 3rd round of marine water quality monitoring is marginal in nature, with merely 0.02 mg/L lower than the corresponding Action Level value (ie 4.39 mg/L). When the sampling was carried out, the current direction was westward. Given the fact that the bottom DO value at Gradient Station G2 (4.78 mg/L), which is situated between the barge and S3, was within the Action Level, the exceedance measured at the S3 was unlikely to be caused by the jetting works but should be considered as an occasional case and representing natural background levels during the time of monitoring.

Table 4.2 Exceedances of Action and Limit Levels on 8 October 2012

Exceedance Log No.	0171870_08 October 12_Bottom DO_E9_1stR 0171870_08 October 12_Bottom DO_S3_1stR 0171870_08 October 12_Bottom DO_S3_2ndR 0171870_08 October 12_Bottom DO_S3_3rdR		
Sampling date	8 October 2012		
Monitoring station	E8, S1, E7, F1, E9, S2 and S3		
Parameter	Bottom Dissolved Oxygen (DO) (mg/L)		
Action Level	4.39 mg/L		
Limit Level	4.33 mg/L		
Measured Levels at Station E9	Round 1	Bottom DO = 4.26	(exceeded Limit Level)
Measured Levels at Station S3	Round 1	Bottom DO = 4.25	(exceeded Limit Level)
	Round 2	Bottom DO = 4.35	(exceeded Action Level)
	Round 3	Bottom DO = 4.37	(exceeded Action Level)

4.2.2 Exceedances on 9 October 2012

Exceedances of the Action and Limit Levels in bottom DO were recorded at Stations S1, S2 and S3 in all four sampling rounds on 9 October 2012 (*Table 4.3*).

According to the daily barge operation report, there were preparation and equipment maintenance works carried out by the Contractor before the burial operation (ie jetting works) resumed at 11:30. All marine works stopped at approximately 20:00 in the evening. The actual time of jetting works on 09 Oct 2012 was between 11:30 to 20:00.

As stated above, jetting works were not being undertaken when the exceedances were recorded in the 1st round and late stage of the 4th round of marine water quality monitoring (ie in the periods of 07:00 – 10:55 and 20:00 – 23:05). Therefore, the exceedances of the Action/Limit levels at S1 in the 1st sampling round and S3 in the 4th round are considered as representing natural background fluctuations rather than a result of the cable installation works.

Despite the Action Level exceedance at S1 in the 2nd sampling round, the bottom DO value (4.34 mg/L) was higher than that measured at the same station in the 1st round (4.28 mg/L) when jetting works had yet to start and was not expected to impose any impact. The bottom DO at S1 continued to increase and was found to be compliant with the water quality limit in the 3rd sampling round when jetting works resumed after 11:30 and were taking place at the time of sampling (11:40 - 11:55). Therefore the exceedance measured at the S1 in the 2nd round was unlikely to be caused by the jetting works but should be considered as representing natural background levels during the time of monitoring.

The exceedance of the Action Level at S2 in the 3rd round of marine water quality monitoring is an occasional case that occurred only once among all four sampling rounds. The exceedance of the Action Level at S3 in the 3rd round is marginal in nature, with merely 0.03 mg/L lower than the corresponding Action Level value (ie 4.39 mg/L). When the sampling at S2 and S3 was carried out in the 3rd round, the current direction was westward. Given the fact that the bottom DO value at Gradient Station G2 (4.71 mg/L), which is situated between the barge and S2/S3, was within the Action Level, the exceedances measured at S2 and S3 were unlikely to be caused by the jetting works but should be considered as representing natural background levels during the time of monitoring.

Table 4.3 Exceedances of Action and Limit Levels on 9 October 2012

Exceedance Log No.	0171870_09 October 12_Bottom DO_S1_1stR 0171870_09 October 12_Bottom DO_S1_2ndR 0171870_09 October 12_Bottom DO_S2_3rdR 0171870_09 October 12_Bottom DO_S3_3rdR 0171870_09 October 12_Bottom DO_S3_4thR		
Sampling date	9 October 2012		
Monitoring station	E8, S1, E7, F1, E9, S2 and S3		
Parameter	Bottom Dissolved Oxygen (DO) (mg/L)		
Action Level	4.39 mg/L		
Limit Level	4.33 mg/L		
Measured Levels at Station S1	Round 1	Bottom DO = 4.28	(exceeded Limit Level)
	Round 2	Bottom DO = 4.34	(exceeded Action Level)
Measured Levels at Station S2	Round 3	Bottom DO = 4.34	(exceeded Action Level)
Measured Levels at Station S3	Round 3	Bottom DO = 4.37	(exceeded Action Level)
	Round 4	Bottom DO = 4.36	(exceeded Action Level)

4.2.3 Exceedances on 10 October 2012

Exceedances of the Action and Limit Levels in bottom DO were recorded at Stations E9 and S3 in the 1st and 2nd sampling rounds on 10 October 2012 (*Table 4.4*).

According to the daily barge operation report, the Contractor did not conduct any jetting works until 15:00 due to unfavourable weather conditions on that day. Between 13:00 – 15:00, there were preparation and equipment maintenance works carried out before the burial operation (ie jetting works) resumed. Cable laying works stopped at approximately 16:00 in the afternoon due to restriction to cross the Tathong Channel until 17:00 as per recommendation from the Marine Department. The actual time of jetting works on 10 Oct 2012 was between 15:00 - 16:00.

As stated above, jetting works were not being undertaken when the exceedances were recorded in the 1st round of marine water quality monitoring (ie 07:00 – 11:01). Therefore, the exceedances of the Limit levels at E9 and S3 in the 1st sampling round are considered as representing natural background fluctuations rather than a result of the cable installation works

Despite the Action Level exceedance at S3 in the 2nd sampling round, the bottom DO value (4.35 mg/L) was higher than that measured at the same station in the 1st round (4.25 mg/L) when jetting works had yet to start and was not expected to impose any impact. The bottom DO at S3 continued to increase and was found to be compliant with the water quality limit in the 3rd sampling round when jetting works resumed after 15:00 and were taking place at the time of sampling (15:05 - 19:03). Therefore the exceedance measured at the S3 in the 2nd round was unlikely to be caused by the jetting works but should be considered as representing natural background levels during the time of monitoring.

Table 4.4 Exceedances of Action and Limit Levels on 10 October 2012

Exceedance Log No.	0171870_10 October 12_Bottom DO_E9_1stR 0171870_10 October 12_Bottom DO_S3_1stR 0171870_10 October 12_Bottom DO_S3_2ndR		
Sampling date	10 October 2012		
Monitoring station	E8, S1, E7, F1, E9, S2 and S3		
Parameter	Bottom Dissolved Oxygen (DO) (mg/L)		
Action Level	4.39 mg/L		
Limit Level	4.33 mg/L		
Measured Levels at Station E9	Round 1	Bottom DO = 4.24	(exceeded Limit Level)
Measured Levels at Station S3	Round 1	Bottom DO = 4.25	(exceeded Limit Level)
	Round 2	Bottom DO = 4.35	(exceeded Action Level)

4.2.4 Exceedances on 11 October 2012

Exceedances of the Action Level in bottom DO were recorded at Stations E9 and S3 only in the 3rd sampling round on 11 October 2012 (*Table 4.5*).

According to the daily barge operation report, there was preparation work carried out by the Contractor before the burial operation (ie jetting works) resumed at 10:45. All marine works stopped at approximately 23:00 in the evening. The actual time of jetting works on 11 Oct 2012 was between 10:45 to 19:30 and 21:00 to 23:00.

The exceedances of the Action Level at both E9 and S3 in the 3rd sampling round are occasional. The bottom DO values at these two stations increased and were found to be compliant with the water quality limit in the 4th sampling round when jetting works were still being conducted until 23:00. In addition, jetting-related oxygen depletion is expected to be caused by the release of suspended solids and its subsequent oxidative process. However in this case, depth-averaged suspended solids levels at all monitoring stations were low and in compliance with the Action and Limit Levels during all four water sampling rounds. Therefore the exceedances were unlikely to be caused by the jetting works but should be considered as reflecting natural background fluctuations during the time of monitoring.

Table 4.5 Exceedances of Action and Limit Levels on 11 October 2012

Exceedance Log No.	0171870_08 October 12_Bottom DO_E9_3rdR 0171870_08 October 12_Bottom DO_S3_3rdR		
Sampling date	11 October 2012		
Monitoring station	E8, S1, E7, F1, E9, S2 and S3		
Parameter	Bottom Dissolved Oxygen (DO) (mg/L)		
Action Level	4.39 mg/L		
Limit Level	4.33 mg/L		
Measured Levels at Station E9	Round 3	Bottom DO = 4.34	(exceeded Action Level)
Measured Levels at Station S3	Round 3	Bottom DO = 4.36	(exceeded Action Level)

4.2.5 Exceedances on 13 October 2012

Due to technical problems, impact water quality monitoring in Zone B started around 11:00 on 13 Oct 2012. As such, a total of three rounds of water sampling were carried out for the day. Exceedances of the Action and Limit Levels in middle DO, depth-averaged Turbidity and depth-averaged SS were recorded at Stations B3, E9 and F1 in all three sampling rounds (*Table 4.6*).

According to the daily barge operation report, there were some preparations works carried out by the Contractor before burial operation on the day. The burial operation (ie jetting works) was conducted between 10:30 to 12:00 and 13:30 to 16:30 on 13 October 2012.

As stated above, jetting works were not being undertaken when the exceedance in Depth-averaged Turbidity was recorded at B3 (22:00 - 22:15) in the 3rd round of marine water quality monitoring. Therefore, the exceedance of the Action Level at B3 is considered as representing natural background fluctuations.

Impact Stations E9 and F1 are located in the north, far away from the cable installation barge. It should be noted that the average values of depth-averaged Turbidity and depth-averaged SS at E9 (Turbidity = 3.68 NTU; SS = 4.29 mg/L) and F1 (Turbidity = 3.03 NTU; SS = 3.78 mg/L) on 13 October 2012 are actually of the similar magnitudes of their corresponding values (averaged values of 8 – 11 October 2012 for E9: Turbidity = 4.00 NTU, SS =4.61 mg/L; averaged values of 8 – 11 October 2012 for F1: Turbidity = 3.66 NTU, SS = 4.13 mg/L) in the previous dates or even better. When the sampling was carried out in the first round, the current direction was eastward. Given the fact that values of all water quality parameters at the Gradient Station (ie G4) and Impact Station (ie E2) in the eastern vicinity of the barge were measured to be within the corresponding Action Levels, the exceedances in middle DO, depth-averaged Turbidity and depth-averaged SS at E9 and F1 in the 1st sampling round, as well as later in the 2nd (18:44 – 19:00 for E9 and 18:03 – 18:17 for F1) and 3rd (19:02 - 19:18 for E9 and 19:44 – 19:59 for F1) rounds when jetting works ceased, were unlikely to be caused by the jetting works but should be considered as representing natural background levels during the time of monitoring.

Table 4.6 Exceedances of Action and Limit Levels on 13 October 2012

Exceedance Log No.	0171870_13 October 12_Middle DO_F1_1stR 0171870_13 October 12_Depth-averaged Turbidity_E9_1stR 0171870_13 October 12_ Depth-averaged SS _E9_1stR 0171870_13 October 12_ Depth-averaged Turbidity _F1_1stR 0171870_13 October 12_ Depth-averaged SS _F1_1stR 0171870_13 October 12_Depth-averaged Turbidity_E9_2ndR 0171870_13 October 12_ Depth-averaged SS _E9_2ndR 0171870_13 October 12_ Depth-averaged Turbidity _F1_2ndR 0171870_13 October 12_ Depth-averaged SS _F1_2ndR 0171870_13 October 12_Depth-averaged Turbidity_B3_3rdR 0171870_13 October 12_Depth-averaged Turbidity_E9_3rdR 0171870_13 October 12_ Depth-averaged SS _E9_3rdR 0171870_13 October 12_ Depth-averaged Turbidity _F1_3rdtR		
Sampling date	13 October 2012		
Monitoring station	B1, B2, B3, E1, E2, E6, E9, and F1		
Parameter	Middle Dissolved Oxygen (DO) (mg/L)	Depth-averaged Turbidity (NTU)	Depth-averaged SS (mg/L)
Action Level	4.72 mg/L	3.01 NTU or 20% exceedance of data at control station	4.09 (mg/L) or 20% exceedance of data at control station
Limit Level	4.57 mg/L	3.13 NTU and 30% exceedance of data at control station	4.60 (mg/L) and 30% exceedance of data at control station
Measured Levels at Station B3	Round 3	Turbidity = 2.41	(exceeded Action Level)
Measured Levels at Station E9	Round 1	Turbidity = 3.18 SS =4.17	(exceeded Limit Level) (exceeded Action Level)
	Round 2	Turbidity = 3.93 SS =4.73	(exceeded Limit Level) (exceeded Limit Level)

	Round 3	Turbidity = 3.29 SS =3.97	(exceeded Limit Level) (exceeded Action Level)
Measured Levels at Station F1	Round 1	Middle DO = 4.68 Turbidity = 3.01 SS =3.92	(exceeded Action Level) (exceeded Action Level) (exceeded Action Level)
	Round 2	Turbidity = 3.11 SS =4.05	(exceeded Action Level) (exceeded Action Level)
	Round 3	Turbidity = 2.98	(exceeded Action Level)

4.2.6 Exceedances on 14 October 2012

Exceedances of the Action and Limit Levels in middle DO, depth-averaged Turbidity and depth-averaged SS were recorded at Stations E9 and F1 in all four sampling rounds on 14 October 2012 (*Table 4.7*). According to the daily barge operation report, the burial operation (ie jetting works) was conducted between 10:00 and 16:00 on the day.

Impact Stations E9 and F1 are located in the north, far away from the cable installation barge. It should be noted that the average values of depth-averaged Turbidity and depth-averaged SS at E9 (Turbidity = 3.87 NTU; SS = 4.86 mg/L) and F1 (Turbidity = 2.98 NTU; SS =4.00 mg/L) on 13 October 2012 are actually of the similar magnitudes of their corresponding values (averaged values of 8 – 11 October 2012 for E9: Turbidity = 4.00 NTU, SS =4.61 mg/L; averaged values of 8 – 11 October 2012 for F1: Turbidity = 3.66 NTU, SS = 4.13 mg/L) in the previous dates or even better. Between these two stations and the cable installation barge, there are several Gradient Stations (ie G3 and G4) and Impact Stations (ie E2, E6 and B1), which are located in the middle and therefore more susceptible to the impact of the Project. But exceedances of Action and Limit Levels in all water quality parameters were recorded at none of these stations. The fact demonstrates the exceedances in middle DO, depth-averaged Turbidity and depth-averaged SS at the E9 and F1 in the 1st and 2nd sampling rounds, as well as later in the 3rd (15:05 – 19:02) and 4th (19:05 – 23:04) rounds of marine water quality monitoring when jetting works ceased, were unlikely to be caused by the jetting works but should be considered as representing natural background levels during the time of monitoring.

Table 4.7 Exceedances of Action and Limit Levels on 14 October 2012

Exceedance Log No.	0171870_14 October 12_Depth-averaged Turbidity_E9_1stR 0171870_14 October 12_ Depth-averaged SS _E9_1stR 0171870_14 October 12_Middle DO_F1_1stR 0171870_14 October 12_ Depth-averaged Turbidity _F1_1stR 0171870_14 October 12_Depth-averaged Turbidity_E9_2ndR 0171870_14 October 12_ Depth-averaged SS _E9_2ndR 0171870_14 October 12_ Depth-averaged Turbidity _F1_2ndR 0171870_14 October 12_Depth-averaged Turbidity_E9_3rdR 0171870_14 October 12_ Depth-averaged SS _E9_3rdR 0171870_14 October 12_ Depth-averaged Turbidity _F1_3rdR 0171870_14 October 12_Depth-averaged Turbidity_E9_4thR 0171870_14 October 12_ Depth-averaged SS _E9_4thR 0171870_13 October 12_ Depth-averaged Turbidity _F1_4thR 0171870_14 October 12_ Depth-averaged SS _F1_4thR		
Sampling date	14 October 2012		
Monitoring station	B1, B2, B3, E1, E2, E6, E9, and F1		
Parameter	Middle Dissolved Oxygen (DO) (mg/L)	Depth-averaged Turbidity (NTU)	Depth-averaged SS (mg/L)
Action Level	4.72 mg/L	3.01 NTU or 20% exceedance of data at control station	4.09 (mg/L) or 20% exceedance of data at control station
Limit Level	4.57 mg/L	3.13 NTU and 30% exceedance of data at control station	4.60 (mg/L) and 30% exceedance of data at control station
Measured Levels at Station E9	Round 1	Turbidity = 3.94 SS =5.00	(exceeded Limit Level) (exceeded Limit Level)

	Round 2	Turbidity = 3.91 SS =4.88	(exceeded Limit Level) (exceeded Limit Level)
	Round 3	Turbidity = 3.86 SS =4.78	(exceeded Limit Level) (exceeded Limit Level)
	Round 4	Turbidity = 3.80 SS = 4.78	(exceeded Limit Level) (exceeded Limit Level)
Measured Levels at Station F1	Round 1	Middle DO = 4.67 Turbidity = 3.03	(exceeded Action Level) (exceeded Action Level)
	Round 2	Turbidity = 3.00	(exceeded Action Level)
	Round 3	Turbidity = 2.98	(exceeded Action Level)
	Round 4	Turbidity = 2.90 SS = 3.95	(exceeded Action Level) (exceeded Action Level)

5 ENVIRONMENTAL NON-CONFORMANCES

5.1 SUMMARY OF ENVIRONMENTAL EXCEEDANCE

Exceedances of the Action and Limit Levels were recorded during the reporting period. The Event and Action Plan for the identified exceedances were implemented and followed the procedures as stipulated in the *EM&A Manual* and *Table 3.7*. It was concluded that the exceedances were considered to reflect natural background fluctuation rather than to be caused by the Project (See *Section 4.2* for details).

5.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance events were recorded during the reporting period.

5.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaints were received during the reporting period.

5.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

No summons or prosecution on environmental matters were received during the reporting period.

6 FUTURE KEY ISSUES

6.1 KEY ISSUES FOR THE COMING REPORTING PERIOD

The cable installation works will be conducted in Zone C and from Zone C eastward to the boundary Hong Kong marine waters.

6.2 MONITORING SCHEDULE FOR THE COMING REPORTING PERIOD

Impact water quality monitoring will be carried out in Zone C and will cease once the cable installation barge moves out Zone C or no cable laying works are undertaken within Zone C.

7 CONCLUSIONS

This Weekly Impact Monitoring Report presents the results of impact water quality monitoring undertaken in Zone A and Zone B during the period from **8 October** to **14 October 2012** in accordance with the *EM&A Manual* and the requirements under Environmental Permit (EP - 433/2011).

Water quality of Zone A and Zone B was generally stable throughout the sampling period. Neither sudden drop in dissolved oxygen concentrations nor sharp increase in turbidity levels and suspended solid levels were observed. Exceedances of Action and Limit Levels were recorded during the reporting week, but they were considered to reflect natural background fluctuation rather than to be caused by the Project.

It is concluded that no deterioration of water quality was observed and hence the effect of the Project on water quality is considered to be negligible.

Annex A

Impact Water Quality Monitoring Schedule

ASE Submarine Cable System - Tseung Kwan O
Impact Water Quality Monitoring Schedule - First Week

as of 14 October 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct
7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct
	07:00 -23:00 **(Zone A, 11 stations)** *Impact Monitoring*	07:00 -23:00 **(Zone A, 11 stations)** *Impact Monitoring*	07:00 -23:00 **(Zone A, 11 stations)** *Impact Monitoring*	07:00 -23:00 **(Zone A, 11 stations)** *Impact Monitoring*	07:00 -23:00 **(Zone A, 11 stations)** *Impact Monitoring*	07:00 -23:00 **(Zone B, 12 stations)** *Impact Monitoring*
14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct
07:00 -23:00 **(Zone B, 12 stations)** *Impact Monitoring*						
21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct
28-Oct	29-Oct	30-Oct	31-Oct	1-Nov	2-Nov	3-Nov

Annex B

QA/QC Results for Suspended Solids Testing

Annex B1 QA/QC Results of Laboratory Analysis of Total Suspended Solids (Zone A)

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10/8/2012	96.5	C1-S1(0700)	4.08	G1-S2 (0700)	94.0
	103.8	G1-M1(0700)	0.0	G3-M2 (0700)	107.5
	103.6	G3-B1 (0700)	0.0	G2-B2(0700)	96.2
	95.1	S3-S1 (0700)	4.26	S3-B2 (0700)	94.3
	104.3	C1-S1(1100)	0.0	G1-S2 (1100)	95.8
	93.8	G1-M1(1100)	0.0	G3-M2 (1100)	92.2
	97.0	G3-B1 (1100)	4.44	G2-B2 (1100)	95.9
	99.0	S3-S1 (1100)	4.26	S3-B2 (1100)	95.8
	94.6	C1-S1(1500)	0.0	G1-S2 (1500)	102.0
	99.6	G1-M1(1500)	4..65	G3-M2 (1500)	103.8
	101.3	G3-B1 (1500)	0.0	G2-B2 (1500)	100.0
	103.5	S3-S1 (1500)	4.44	S3-B2 (1500)	93.9
	92.2	C1-S1(1900)	4.44	G1-S2 (1900)	104.1
	105.8	G1-M1(1900)	0.0	G3-M2 (1900)	106.3
	107.8	G3-B1 (1900)	4.44	G2-B2 (1900)	105.9
	102.0	S3-S1 (1900)	0.0	S3-B2 (1900)	102.0

Note:
(*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between 0% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(**) % Error of Sample Duplicate >10% but invalid due to sample results less

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10/9/2012	98.8	C1-S1(0700)	4.26	G1-S2 (0700)	96.2
	98.6	G1-M1(0700)	4.65	G3-M2 (0700)	94.0
	92.2	G3-B1 (0700)	0.00	G2-B2(0700)	93.9
	103.6	S3-S1 (0700)	4.26	S3-B2 (0700)	104.0
	106.3	C1-S1(1100)	0.00	G1-S2 (1100)	96.1
	93.2	G1-M1(1100)	4.65	G3-M2 (1100)	96.2
	99.4	G3-B1 (1100)	4.88	G2-B2 (1100)	105.9
	101.2	S3-S1 (1100)	4.44	S3-B2 (1100)	104.2
	104.0	C1-S1(1500)	4.26	G1-S2 (1500)	106.4
	99.8	G1-M1(1500)	4.65	G3-M2 (1500)	104.3
	98.6	G3-B1 (1500)	0.00	G2-B2 (1500)	98.0
	102.0	S3-S1 (1500)	0.00	S3-B2 (1500)	100.0
	105.8	C1-S1(1900)	4.44	G1-S2 (1900)	100.0
	101.2	G1-M1(1900)	4.65	G3-M2 (1900)	93.9
	104.0	G3-B1 (1900)	4.65	G2-B2 (1900)	102.0
	104.2	S3-S1 (1900)	4.26	S3-B2 (1900)	101.9

Note:
(*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between 0% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Annex B2 QA/QC Results of Laboratory Analysis of Total Suspended Solids (Zone A)

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10/10/2012	94.6	C1-S1(0700)	4.08	G1-S2 (0700)	93.6
	102.5	G1-M1(0700)	4.44	G3-M2 (0700)	98.1
	101.0	G3-B1 (0700)	3.92	G2-B2(0700)	98.0
	93.0	S3-S1 (0700)	8.00	S3-B2 (0700)	107.7
	92.6	C1-S1(1100)	3.92	G1-S2 (1100)	106.0
	96.2	G1-M1(1100)	4.44	G3-M2 (1100)	104.3
	93.2	G3-B1 (1100)	7.69	G2-B2 (1100)	101.9
	100.0	S3-S1 (1100)	0.00	S3-B2 (1100)	98.0
	107.1	C1-S1(1500)	7.69	G1-S2 (1500)	100.0
	95.7	G1-M1(1500)	4.88	G3-M2 (1500)	102.1
	101.9	G3-B1 (1500)	3.77	G2-B2 (1500)	100.0
	94.9	S3-S1 (1500)	4.26	S3-B2 (1500)	98.1
	104.1	C1-S1(1900)	4.08	G1-S2 (1900)	103.8
	105.7	G1-M1(1900)	0.00	G3-M2 (1900)	93.9
	103.2	G3-B1 (1900)	3.92	G2-B2 (1900)	91.8
	106.4	S3-S1 (1900)	4.44	S3-B2 (1900)	100.0

Note:
(*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between 0% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10/11/2012	102.4	C1-S1(0700)	4.44	G1-S2 (0700)	100.0
	103.1	G1-M1(0700)	4.65	G3-M2 (0700)	93.8
	105.8	G3-B1 (0700)	3.77	G2-B2(0700)	103.9
	106.4	S3-S1 (0700)	4.44	S3-B2 (0700)	92.5
	96.3	C1-S1(1100)	8.33	G1-S2 (1100)	107.5
	97.5	G1-M1(1100)	4.44	G3-M2 (1100)	94.2
	102.9	G3-B1 (1100)	3.92	G2-B2 (1100)	100.0
	102.5	S3-S1 (1100)	4.26	S3-B2 (1100)	105.9
	106.6	C1-S1(1500)	4.08	G1-S2 (1500)	96.1
	106.8	G1-M1(1500)	4.65	G3-M2 (1500)	98.1
	98.8	G3-B1 (1500)	8.00	G2-B2 (1500)	104.2
	101.0	S3-S1 (1500)	4.65	S3-B2 (1500)	92.2
	99.4	C1-S1(1900)	4.26	G1-S2 (1900)	103.8
	104.9	G1-M1(1900)	0.00	G3-M2 (1900)	102.1
	98.8	G3-B1 (1900)	3.92	G2-B2 (1900)	104.1
	103.1	S3-S1 (1900)	4.88	S3-B2 (1900)	104.1

Note:
(*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between 0% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Annex B3 QA/QC Results of Laboratory Analysis of Total Suspended Solids (Zone A)

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10/12/2012	97.9	C1-S1(0700)	3.92	G1-S2 (0700)	107.7
	95.2	G1-M1(0700)	0.00	G3-M2 (0700)	102.0
	102.7	G3-B1 (0700)	7.69	G2-B2(0700)	102.0
	107.2	S3-S1 (0700)	4.44	S3-B2 (0700)	104.3
	103.6	C1-S1(1100)	8.00	G1-S2 (1100)	105.7
	105.1	G1-M1(1100)	4.88	G3-M2 (1100)	106.4
	93.9	G3-B1 (1100)	0.00	G2-B2 (1100)	100.0
	96.9	S3-S1 (1100)	4.44	S3-B2 (1100)	105.8
	104.3	C1-S1(1500)	3.92	G1-S2 (1500)	108.0
	96.0	G1-M1(1500)	4.65	G3-M2 (1500)	104.2
	103.3	G3-B1 (1500)	4.08	G2-B2 (1500)	93.8
	93.0	S3-S1 (1500)	4.88	S3-B2 (1500)	104.2
	95.1	C1-S1(1900)	4.26	G1-S2 (1900)	104.1
	94.2	G1-M1(1900)	3.92	G3-M2 (1900)	106.3
	97.6	G3-B1 (1900)	3.92	G2-B2 (1900)	95.7
	96.0	S3-S1 (1900)	4.65	S3-B2 (1900)	95.7

Note:
(*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between 0% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Annex B4 QA/QC Results of Laboratory Analysis of Total Suspended Solids (Zone B)

Sampling Date (Hour)	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10/13/2012	/	E1-S1 (0700)	/	B2-S2 (0700)	/
	/	B2-M1 (0700)	/	G4-M2 (0700)	/
	/	G4-B1 (0700)	/	G3-B2 (0700)	/
	/	G3-S1 (0700)	/	E9-B2 (0700)	/
	92.2	E1-S1 (1100)	0.00	B2-S2 (1100)	104.1
	104.9	B2-M1 (1100)	6.06	G4-M2 (1100)	92
	106.0	G4-B1 (1100)	5.41	G3-B2 (1100)	104.2
	99.2	G3-S1 (1100)	5.13	E9-B2 (1100)	97.9
	107.2	E1-S1 (1500)	6.90	B2-S2 (1500)	101.9
	107.5	B2-M1 (1500)	5.71	G4-M2 (1500)	105.9
	92.9	G4-B1 (1500)	5.41	G3-B2 (1500)	104.2
	91.8	G3-S1 (1500)	4.88	E9-B2 (1500)	91.8
	96.5	E1-S1 (1900)	6.45	B2-S2 (1900)	92.2
	98.9	B2-M1 (1900)	6.9	G4-M2 (1900)	100
	95.8	G4-B1 (1900)	6.45	G3-B2 (1900)	100
	104.3	G3-S1 (1900)	4.88	E9-B2 (1900)	102

Note:
(*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between 0% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Sampling Date (Hour)	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10/14/2012	102.0	E1-S1 (0700)	8.70	B2-S2 (0700)	101.9
	103.1	B2-M1 (0700)	6.06	G4-M2 (0700)	92.3
	96.5	G4-B1 (0700)	0.00	G3-B2 (0700)	100.0
	103.4	G3-S1 (0700)	5.13	E9-B2 (0700)	100.0
	97.3	E1-S1 (1100)	8.00	B2-S2 (1100)	102.1
	93.2	B2-M1 (1100)	5.71	G4-M2 (1100)	100.0
	92.6	G4-B1 (1100)	5.13	G3-B2 (1100)	104.2
	97.3	G3-S1 (1100)	5.41	E9-B2 (1100)	97.9
	102.1	E1-S1 (1500)	8.00	B2-S2 (1500)	93.9
	93.0	B2-M1 (1500)	5.71	G4-M2 (1500)	98.0
	105.1	G4-B1 (1500)	4.88	G3-B2 (1500)	104.0
	94.7	G3-S1 (1500)	5.71	E9-B2 (1500)	94.1
	100.6	E1-S1 (1900)	0.00	B2-S2 (1900)	94.2
	98.8	B2-M1 (1900)	0.00	G4-M2 (1900)	105.9
	95.0	G4-B1 (1900)	5.41	G3-B2 (1900)	106.2
	102.9	G3-S1 (1900)	0.00	E9-B2 (1900)	94.1

Note:
(*) % Recovery of QC sample should be between 80% to 120%.
(#) % Error of Sample Duplicate should be between 0% to 10%.
(@) % Recovery of Sample Spike should be between 80% to 120%.
(**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Annex C

Impact Water Quality Monitoring Results

Annex C1 Impact Water Quality Monitoring Results during First Round Monitoring on 8 October 2012

Date:	8-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0717	35.6	E	0.6	*Surface*	27.5	27.4	27.5	26.2	26.3	26.3	5.0	5.1	5.1	73.5	74.4	74.0	4.1	4.2	4.1		4.8	5.2	5.0	
					Middle	27.5	27.5	27.5	26.4	26.5	26.5	4.8	4.7	4.8	70.0	69.4	69.7	3.3	3.4	3.3	3.7	4.0	3.8	3.9	4.3
					Bottom	27.5	27.6	27.6	26.6	26.7	26.7	4.8	4.9	4.9	70.7	71.5	71.1	3.7	3.7	3.7		3.9	4.0	4.0	
E8	0722-0739	19.6	E	0.4	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.2	5.1	5.1	75.5	75.1	75.3	3.9	4.0	3.9		4.4	4.6	4.5	
					Middle	27.4	27.4	27.4	26.7	26.6	26.7	5.0	4.9	4.9	72.9	72.0	72.5	4.1	4.1	4.1	4.1	4.6	4.8	4.7	4.8
					Bottom	27.3	27.4	27.4	27.0	26.9	27.0	4.6	4.6	4.6	67.9	67.0	67.5	4.4	4.4	4.4		5.3	5.1	5.2	
S1	0747-0804	9.0	E	0.4	*Surface*	27.5	27.5	27.5	26.4	26.5	26.5	5.2	5.2	5.2	76.6	76.0	76.3	3.9	3.8	3.8		4.3	4.6	4.5	
					Middle	27.5	27.4	27.5	26.7	26.7	26.7	4.9	4.8	4.9	71.4	70.9	71.2	3.2	3.3	3.3	3.6	3.8	3.9	3.9	4.1
					Bottom	27.3	27.4	27.4	27.1	27.2	27.2	4.4	4.4	4.4	65.0	64.3	64.7	3.6	3.6	3.6		4.0	4.1	4.1	
G1	0808-0825	11.2	E	0.2	*Surface*	27.4	27.4	27.4	26.4	26.3	26.4	5.3	5.3	5.3	77.3	76.9	77.1	3.4	3.5	3.4		3.8	3.8	3.8	
					Middle	27.4	27.5	27.5	26.6	26.6	26.6	4.8	4.7	4.7	69.7	68.9	69.3	3.8	3.9	3.9	3.8	3.6	4.0	3.8	4.0
					Bottom	27.4	27.3	27.4	26.9	26.8	26.9	4.3	4.3	4.3	63.3	62.6	63.0	4.1	4.1	4.1		4.5	4.5	4.5	
E7	0829-0846	12.2	E	0.2	*Surface*	27.5	27.4	27.5	26.4	26.4	26.4	5.2	5.3	5.2	76.4	77.2	76.8	3.6	3.6	3.6		3.9	4.1	4.0	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.0	5.0	5.0	73.6	72.9	73.3	3.9	4.0	4.0	3.9	4.5	4.4	4.5	4.5
					Bottom	27.3	27.3	27.3	27.1	27.0	27.1	4.5	4.6	4.5	64.7	66.8	65.8	4.2	4.3	4.3		5.0	5.0	5.0	
F1	0853-0909	11.0	E	0.4	*Surface*	27.5	27.5	27.5	26.3	26.3	26.3	5.0	5.0	5.0	72.8	73.6	73.2	3.4	3.5	3.5		4.0	4.1	4.1	
					Middle	27.5	27.4	27.5	26.5	26.5	26.5	4.8	4.7	4.8	69.9	69.5	69.7	3.2	3.2	3.2	3.5	3.9	3.9	3.9	4.1
					Bottom	27.4	27.3	27.4	27.1	27.1	27.1	4.4	4.4	4.4	64.7	63.9	64.3	3.8	3.8	3.8		4.3	4.5	4.4	
G3	0914-0931	14.7	E	0.3	*Surface*	27.5	27.6	27.6	26.4	26.5	26.5	5.1	5.2	5.1	74.9	75.5	75.2	4.0	4.0	4.0		4.9	4.7	4.8	
					Middle	27.4	27.5	27.5	26.8	26.7	26.8	4.9	4.9	4.9	71.7	71.1	71.4	3.7	3.6	3.6	3.9	4.3	4.4	4.4	4.6
					Bottom	27.3	27.3	27.3	26.9	27.0	27.0	4.4	4.3	4.4	64.2	63.5	63.9	4.0	4.1	4.0		4.6	4.5	4.6	
E9	0936-0954	18.4	E	0.3	*Surface*	27.5	27.6	27.6	26.7	26.8	26.8	5.3	5.3	5.3	77.6	77.0	77.3	4.0	4.1	4.0		4.5	4.8	4.7	
					Middle	27.5	27.5	27.5	27.1	27.2	27.2	4.9	4.9	4.9	72.0	71.4	71.7	3.9	3.9	3.9	4.1	4.3	4.4	4.4	4.7
					Bottom	27.3	27.3	27.3	27.4	27.5	27.5	4.3	4.2	4.3	62.7	62.2	62.5	4.3	4.4	4.4		5.1	5.2	5.2	
S2	1000-1017	10.1	E	0.3	*Surface*	27.6	27.5	27.6	26.7	26.7	26.7	5.1	5.0	5.0	74.2	73.3	73.8	3.9	3.9	3.9		4.3	4.3	4.3	
					Middle	27.5	27.4	27.5	26.8	26.9	26.9	4.8	4.8	4.8	71.0	70.6	70.8	4.2	4.2	4.2	4.1	4.7	4.7	4.7	4.6
					Bottom	27.3	27.4	27.4	27.2	27.2	27.2	4.6	4.5	4.5	66.7	66.0	66.4	4.3	4.3	4.3		4.8	4.7	4.8	
G2	1023-1040	13.1	E	0.2	*Surface*	27.6	27.6	27.6	26.6	26.6	26.6	5.0	5.0	5.0	72.8	73.5	73.2	4.0	4.0	4.0		4.4	4.7	4.6	
					Middle	27.5	27.5	27.5	26.8	26.8	26.8	4.8	4.8	4.8	70.1	70.6	70.4	4.1	4.2	4.1	4.1	4.9	5.0	5.0	4.9
					Bottom	27.4	27.3	27.4	27.0	27.1	27.1	4.5	4.5	4.5	65.7	66.3	66.0	4.3	4.3	4.3		5.2	5.2	5.2	
S3	1044-1101	10.5	E	0.2	*Surface*	27.7	27.6	27.7	26.5	26.4	26.5	4.7	4.6	4.7	68.5	67.8	68.2	4.1	4.1	4.1		4.8	4.8	4.8	
					Middle	27.6	27.5	27.6	26.7	26.7	26.7	4.5	4.5	4.5	65.6	66.2	65.9	4.3	4.3	4.3	4.3	4.9	5.2	5.1	5.0
					Bottom	27.4	27.4	27.4	26.9	27.0	27.0	4.2	4.3	4.3	62.2	62.5	62.4	4.4	4.4	4.4		5.5	5.0	5.3	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C2 Impact Water Quality Monitoring Results during Second Round Monitoring on 8 October 2012

Date:	8-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1105-1122	36.4	W	0.5	*Surface*	27.6	27.7	27.7	26.3	26.4	26.4	5.1	5.1	5.1	74.7	74.4	74.6	4.0	4.1	4.0		4.6	4.4	4.5	
					Middle	27.5	27.4	27.5	26.5	26.5	26.5	4.9	5.0	4.9	71.9	72.5	72.2	3.5	3.5	3.5	3.7	4.1	4.0	4.1	4.2
					Bottom	27.3	27.4	27.4	26.7	26.7	26.7	4.9	4.9	4.9	71.6	71.8	71.7	3.7	3.7	3.7		4.0	4.2	4.1	
E8	1127-1144	20.0	W	0.3	*Surface*	27.6	27.6	27.6	26.5	26.4	26.5	5.2	5.2	5.2	76.2	76.5	76.4	3.9	3.8	3.8		4.3	4.1	4.2	
					Middle	27.5	27.5	27.5	26.7	26.7	26.7	5.0	5.1	5.1	73.7	74.3	74.0	3.9	4.0	3.9	4.0	4.6	4.8	4.7	4.7
					Bottom	27.4	27.4	27.4	27.0	27.0	27.0	4.7	4.7	4.7	69.0	69.3	69.2	4.3	4.4	4.3		5.2	5.1	5.2	
S1	1152-1209	9.4	W	0.4	*Surface*	27.6	27.7	27.7	26.4	26.4	26.4	5.3	5.3	5.3	78.2	77.9	78.1	3.7	3.8	3.7		4.5	4.6	4.6	
					Middle	27.6	27.5	27.6	26.6	26.7	26.7	5.0	5.0	5.0	73.1	73.5	73.3	3.5	3.5	3.5	3.6	4.1	3.9	4.0	4.2
					Bottom	27.4	27.3	27.4	27.2	27.2	27.2	4.5	4.6	4.5	66.1	66.9	66.5	3.6	3.7	3.6		4.0	4.1	4.1	
G1	1213-1230	11.6	W	0.3	*Surface*	27.5	27.4	27.5	26.3	26.3	26.3	5.4	5.4	5.4	78.5	79.1	78.8	3.4	3.3	3.3		4.0	3.8	3.9	
					Middle	27.4	27.4	27.4	26.7	26.6	26.7	4.9	4.8	4.9	71.6	70.8	71.2	3.6	3.6	3.6	3.6	4.2	4.0	4.1	4.2
					Bottom	27.3	27.3	27.3	26.9	27.0	27.0	4.5	4.5	4.5	65.8	66.1	66.0	3.9	3.9	3.9		4.4	4.5	4.5	
E7	1234-1254	12.4	W	0.2	*Surface*	27.6	27.5	27.6	26.3	26.4	26.4	5.3	5.3	5.3	77.6	77.5	77.6	3.5	3.5	3.5		3.9	4.0	4.0	
					Middle	27.5	27.4	27.5	26.6	26.6	26.6	5.1	5.1	5.1	74.9	74.4	74.7	3.8	3.9	3.8	3.9	4.1	4.3	4.2	4.3
					Bottom	27.4	27.3	27.4	27.0	27.0	27.0	4.7	4.8	4.7	69.0	70.1	69.6	4.2	4.2	4.2		4.6	4.8	4.7	
F1	1258-1315	11.6	W	0.3	*Surface*	27.6	27.6	27.6	26.4	26.3	26.4	5.1	5.1	5.1	74.3	74.6	74.5	3.5	3.6	3.6		3.8	4.1	4.0	
					Middle	27.5	27.6	27.6	26.6	26.5	26.6	5.0	4.9	5.0	87.5	72.2	79.9	3.4	3.4	3.4	3.6	3.6	3.9	3.8	4.0
					Bottom	27.4	27.4	27.4	27.2	27.1	27.2	4.5	4.4	4.4	65.6	67.8	66.7	3.9	4.0	3.9		4.3	4.4	4.4	
G3	1320-1337	15.2	W	0.3	*Surface*	27.7	27.6	27.7	26.5	26.5	26.5	5.3	5.3	5.3	77.2	77.6	77.4	3.9	3.9	3.9		4.4	4.6	4.5	
					Middle	27.5	27.5	27.5	26.7	26.6	26.7	4.9	5.0	5.0	67.8	72.9	70.4	3.6	3.5	3.6	3.8	4.0	4.4	4.2	4.4
					Bottom	27.4	27.3	27.4	27.0	27.1	27.1	4.5	4.5	4.5	65.9	85.5	75.7	3.9	3.9	3.9		4.4	4.5	4.5	
E9	1342-1359	18.8	W	0.3	*Surface*	27.7	27.6	27.7	26.8	26.7	26.8	5.2	5.3	5.3	76.8	77.5	77.2	4.0	4.0	4.0		4.6	4.8	4.7	
					Middle	27.5	27.4	27.5	27.0	27.1	27.1	5.0	5.0	5.0	72.9	73.4	73.2	3.9	3.8	3.8	4.0	4.1	4.4	4.3	4.5
					Bottom	27.2	27.3	27.3	27.5	27.4	27.5	4.4	4.4	4.4	64.9	64.5	64.7	4.1	4.2	4.2		4.6	4.6	4.6	
S2	1405-1422	10.6	W	0.4	*Surface*	27.7	27.7	27.7	26.6	26.7	26.7	5.2	5.1	5.2	75.9	75.6	75.8	3.7	3.7	3.7		4.3	4.0	4.2	
					Middle	27.6	27.5	27.6	26.7	26.8	26.8	5.0	4.9	4.9	72.5	72.1	72.3	4.1	4.0	4.0	3.9	4.6	4.5	4.6	4.4
					Bottom	27.4	27.3	27.4	27.0	27.1	27.1	4.7	4.7	4.7	68.6	68.9	68.8	4.1	4.1	4.1		4.7	4.4	4.6	
G2	1428-1445	13.8	W	0.2	*Surface*	27.7	27.6	27.7	26.6	26.5	26.6	5.0	5.0	5.0	72.9	72.8	72.9	3.7	3.7	3.7		4.2	4.4	4.3	
					Middle	27.5	27.6	27.6	26.7	26.7	26.7	4.8	4.9	4.9	70.9	71.5	71.2	4.1	4.0	4.0	4.0	4.5	4.5	4.5	4.6
					Bottom	27.3	27.2	27.3	27.2	27.1	27.2	4.7	4.8	4.8	69.3	70.2	69.8	4.3	4.3	4.3		4.8	5.0	4.9	
S3	1449-1504	11.0	W	0.3	*Surface*	27.7	27.7	27.7	26.5	26.6	26.6	4.8	4.8	4.8	70.3	70.8	70.6	4.0	4.0	4.0		4.8	4.8	4.8	
					Middle	27.5	27.6	27.6	26.8	26.7	26.8	4.6	4.5	4.6	67.1	66.5	66.8	4.2	4.2	4.2	4.2	4.9	4.6	4.8	4.8
					Bottom	27.3	27.4	27.4	27.0	27.0	27.0	4.4	4.3	4.3	64.0	63.3	63.7	4.3	4.4	4.4		4.8	4.6	4.7	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C3 Impact Water Quality Monitoring Results during Third Round Monitoring on 8 October 2012

Date:	8-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1505-1522	36.8	W	0.5	*Surface*	27.6	27.5	27.6	26.3	26.4	26.4	5.1	5.1	5.1	75.0	74.7	74.9	4.0	4.0	4.0		4.6	4.4	4.5	
					Middle	27.5	27.4	27.5	26.5	26.6	26.6	4.9	5.0	4.9	72.5	72.9	72.7	3.5	3.5	3.5	3.7	3.8	3.9	3.9	4.2
					Bottom	27.4	27.3	27.4	26.7	26.8	26.8	4.9	4.9	4.9	72.4	72.5	72.5	3.7	3.7	3.7		4.1	4.2	4.2	
E8	1526-1543	20.4	W	0.3	*Surface*	27.5	27.6	27.6	26.4	26.5	26.5	5.2	5.2	5.2	76.4	76.8	76.6	3.8	3.8	3.8		4.4	4.3	4.4	
					Middle	27.5	27.5	27.5	26.6	26.7	26.7	5.1	5.1	5.1	74.7	75.1	74.9	3.9	3.9	3.9	4.0	4.6	4.6	4.6	4.6
					Bottom	27.5	27.4	27.5	26.9	27.0	27.0	4.7	4.8	4.8	69.9	70.2	70.1	4.3	4.3	4.3		4.8	4.9	4.9	
S1	1552-1609	9.6	W	0.4	*Surface*	27.5	27.6	27.6	26.3	26.4	26.4	5.4	5.3	5.4	78.5	78.2	78.4	3.7	3.7	3.7		4.1	4.3	4.2	
					Middle	27.5	27.4	27.5	26.5	26.6	26.6	5.0	5.1	5.0	73.9	74.2	74.1	3.5	3.5	3.5	3.6	4.2	4.1	4.2	4.2
					Bottom	27.3	27.3	27.3	27.1	27.2	27.2	4.5	4.6	4.6	66.8	67.7	67.3	3.6	3.6	3.6		4.3	4.2	4.3	
G1	1613-1629	12.0	W	0.3	*Surface*	27.5	27.5	27.5	26.3	26.4	26.4	5.4	5.4	5.4	78.7	79.0	78.9	3.4	3.3	3.3		3.8	3.8	3.8	
					Middle	27.4	27.3	27.4	26.6	26.7	26.7	4.9	4.9	4.9	72.2	71.4	71.8	3.6	3.6	3.6	3.6	4.2	4.2	4.2	4.2
					Bottom	27.3	27.2	27.3	26.8	26.9	26.9	4.5	4.6	4.5	66.6	67.1	66.9	3.9	3.9	3.9		4.4	4.5	4.5	
E7	1634-1650	12.6	W	0.2	*Surface*	27.6	27.5	27.6	26.3	26.4	26.4	5.3	5.3	5.3	77.9	77.8	77.9	3.5	3.5	3.5		3.9	4.1	4.0	
					Middle	27.4	27.4	27.4	26.7	26.6	26.7	5.1	5.1	5.1	75.3	75.0	75.2	3.8	3.8	3.8	3.8	4.3	4.5	4.4	4.4
					Bottom	27.3	27.2	27.3	26.9	27.0	27.0	4.7	4.8	4.8	69.7	70.5	70.1	4.2	4.2	4.2		4.6	4.8	4.7	
F1	1658-1715	11.8	W	0.3	*Surface*	27.6	27.6	27.6	26.4	26.3	26.4	5.1	5.1	5.1	74.4	74.9	74.7	3.5	3.6	3.5		4.1	4.2	4.2	
					Middle	27.5	27.4	27.5	26.6	26.5	26.6	5.0	4.9	5.0	73.4	72.6	73.0	3.4	3.4	3.4	3.6	3.7	3.6	3.7	4.1
					Bottom	27.3	27.3	27.3	27.0	27.1	27.1	4.5	4.4	4.4	65.7	65.3	65.5	3.9	3.9	3.9		4.5	4.5	4.5	
G3	1719-1737	15.4	W	0.4	*Surface*	27.6	27.5	27.6	26.5	26.5	26.5	5.3	5.3	5.3	77.2	77.8	77.5	3.9	3.9	3.9		4.3	4.6	4.5	
					Middle	27.5	27.4	27.5	26.7	26.8	26.8	4.9	5.0	5.0	72.3	73.4	72.9	3.6	3.5	3.5	3.8	4.1	4.4	4.3	4.4
					Bottom	27.4	27.3	27.4	26.9	27.0	27.0	4.5	4.5	4.5	66.8	66.3	66.6	3.9	3.9	3.9		4.4	4.5	4.5	
E9	1741-1758	19.2	W	0.3	*Surface*	27.6	27.6	27.6	26.7	26.8	26.8	5.3	5.3	5.3	77.1	77.5	77.3	4.0	4.0	4.0		4.8	4.9	4.9	
					Middle	27.5	27.4	27.5	26.9	27.0	27.0	5.0	5.0	5.0	73.2	73.8	73.5	3.9	3.8	3.8	4.0	4.5	4.4	4.5	4.7
					Bottom	27.3	27.2	27.3	27.4	27.4	27.4	4.5	4.4	4.4	65.6	65.2	65.4	4.1	4.2	4.1		4.6	4.8	4.7	
S2	1805-1821	10.8	W	0.4	*Surface*	27.6	27.5	27.6	26.7	26.8	26.8	5.2	5.2	5.2	75.7	75.6	75.7	3.7	3.7	3.7		4.1	1.3	2.7	
					Middle	27.5	27.5	27.5	26.8	26.9	26.9	5.0	4.9	4.9	72.8	72.2	72.5	4.1	4.0	4.0	3.9	4.5	4.5	4.5	3.9
					Bottom	27.3	27.3	27.3	26.9	26.9	26.9	4.7	4.7	4.7	69.4	69.6	69.5	4.1	4.1	4.1		4.7	4.5	4.6	
G2	1829-1845	14.2	W	0.2	*Surface*	27.6	27.6	27.6	26.6	26.5	26.6	5.0	5.0	5.0	73.1	72.7	72.9	3.7	3.7	3.7		4.3	4.0	4.2	
					Middle	27.5	27.4	27.5	26.7	26.8	26.8	4.9	4.9	4.9	71.3	71.6	71.5	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5
					Bottom	27.3	27.2	27.3	27.0	27.1	27.1	4.8	4.8	4.8	70.0	70.8	70.4	4.3	4.2	4.3		4.8	5.0	4.9	
S3	1849-1903	11.4	W	0.3	*Surface*	27.6	27.5	27.6	26.4	26.5	26.5	4.8	4.9	4.8	70.6	71.1	70.9	4.0	4.0	4.0		4.4	4.8	4.6	
					Middle	27.4	27.4	27.4	26.7	26.8	26.8	4.6	4.5	4.6	67.5	66.7	67.1	4.2	4.2	4.2	4.2	4.9	4.6	4.8	4.8
					Bottom	27.2	27.3	27.3	26.9	27.0	27.0	4.4	4.4	4.4	64.7	64.1	64.4	4.3	4.4	4.3		5.1	5.0	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C4 Impact Water Quality Monitoring Results during Forth Round Monitoring on 8 October 2012

Date:	8-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1905-1922	37.2	W	0.6	*Surface*	27.5	27.5	27.5	26.3	26.4	26.4	5.2	5.1	5.1	75.4	75.3	75.4	4.0	4.0	4.0		4.6	4.6	4.6	
					Middle	27.4	27.3	27.4	26.5	26.5	26.5	5.0	5.0	5.0	72.8	73.4	73.1	3.4	3.4	3.4	3.7	3.8	3.7	3.8	4.2
					Bottom	27.3	27.2	27.3	26.7	26.8	26.8	4.9	5.0	5.0	72.7	73.3	73.0	3.6	3.6	3.6		4.2	4.1	4.2	
E8	1926-1944	20.6	W	0.4	*Surface*	27.5	27.4	27.5	26.3	26.4	26.4	5.3	5.3	5.3	77.1	77.5	77.3	3.8	3.8	3.8		4.3	4.5	4.4	
					Middle	27.5	27.5	27.5	26.6	26.7	26.7	5.1	5.2	5.2	75.4	76.0	75.7	3.9	3.9	3.9	4.0	4.6	4.8	4.7	4.8
					Bottom	27.3	27.3	27.3	26.8	26.9	26.9	4.8	4.8	4.8	70.6	70.9	70.8	4.2	4.3	4.3		5.2	5.3	5.3	
S1	1951-2008	9.8	W	0.3	*Surface*	27.4	27.5	27.5	26.3	26.4	26.4	5.4	5.4	5.4	79.1	79.5	79.3	3.7	3.7	3.7		4.2	4.3	4.3	
					Middle	27.4	27.3	27.4	26.5	26.6	26.6	5.1	5.1	5.1	74.4	75.0	74.7	3.5	3.4	3.4	3.6	3.8	3..8	3.8	4.1
					Bottom	27.3	27.2	27.3	27.0	27.1	27.1	4.6	4.6	4.6	67.7	68.4	68.1	3.6	3.6	3.6		4.1	4.3	4.2	
G1	2014-2028	12.4	W	0.2	*Surface*	27.4	27.4	27.4	26.2	26.3	26.3	5.4	5.4	5.4	79.0	79.4	79.2	3.3	3.3	3.3		3.9	4.0	4.0	
					Middle	27.3	27.2	27.3	26.5	26.6	26.6	5.0	4.9	5.0	73.2	72.5	72.9	3.6	3.5	3.5	3.5	4.2	4.0	4.1	4.1
					Bottom	27.2	27.1	27.2	26.7	26.8	26.8	4.6	4.6	4.6	67.4	68.1	67.8	3.8	3.8	3.8		4.3	4.3	4.3	
E7	2035-2051	12.8	W	0.1	*Surface*	27.5	27.4	27.5	26.2	26.3	26.3	5.4	5.4	5.4	78.4	78.8	78.6	3.4	3.5	3.5		3.8	3.9	3.9	
					Middle	27.3	27.3	27.3	26.6	26.7	26.7	5.2	5.2	5.2	75.9	76.3	76.1	3.8	3.8	3.8	3.8	4.5	4.8	4.7	4.5
					Bottom	27.2	27.1	27.2	26.8	26.9	26.9	4.8	4.8	4.8	70.2	70.9	70.6	4.1	4.1	4.1		4.9	5.0	5.0	
F1	2059-2114	12.0	W	0.6	*Surface*	27.5	27.5	27.5	26.3	26.4	26.4	5.1	5.2	5.2	75.3	75.6	75.5	3.5	3.5	3.5		3.8	4.1	4.0	
					Middle	27.4	27.3	27.4	26.7	26.6	26.7	5.1	5.0	5.0	74.2	73.8	74.0	3.3	3.4	3.3	3.6	3.9	4.2	4.1	4.2
					Bottom	27.1	27.2	27.2	27.1	27.1	27.1	4.5	4.5	4.5	66.3	66.2	66.3	3.8	3.9	3.8		4.5	4.8	4.7	
G3	2120-2136	15.6	W	0.3	*Surface*	27.5	27.4	27.5	26.4	26.5	26.5	5.3	5.4	5.3	77.9	78.7	78.3	3.8	3.8	3.8		4.5	4.5	4.5	
					Middle	27.4	27.3	27.4	26.6	26.7	26.7	5.0	5.0	5.0	73.1	73.8	73.5	3.5	3.5	3.5	3.7	4.2	4.4	4.3	4.4
					Bottom	27.3	27.2	27.3	26.9	27.0	27.0	4.6	4.6	4.6	67.5	67.1	67.3	3.8	3.9	3.8		4.4	4.5	4.5	
E9	2141-2159	19.6	W	0.2	*Surface*	27.5	27.5	27.5	26.7	26.8	26.8	5.3	5.3	5.3	77.8	78.1	78.0	4.0	3.9	3.9		4.6	4.8	4.7	
					Middle	27.4	27.3	27.4	26.9	27.0	27.0	5.0	5.1	5.1	74.1	74.5	74.3	3.8	3.8	3.8	3.9	4.3	4.3	4.3	4.6
					Bottom	27.2	27.1	27.2	27.3	27.4	27.4	4.5	4.5	4.5	66.2	65.9	66.1	4.1	4.1	4.1		4.6	4.7	4.7	
S2	2204-2221	11.2	W	0.3	*Surface*	27.5	27.4	27.5	26.7	26.8	26.8	5.2	5.2	5.2	76.2	76.6	76.4	3.7	3.6	3.6		4.0	4.1	4.1	
					Middle	27.4	27.4	27.4	26.9	27.0	27.0	5.0	4.9	5.0	73.2	72.6	72.9	4.0	4.0	4.0	3.9	4.4	4.5	4.5	4.4
					Bottom	27.2	27.1	27.2	27.0	27.1	27.1	4.8	4.8	4.8	70.2	70.5	70.4	4.0	4.0	4.0		4.7	4.9	4.8	
G2	2229-2245	14.4	W	0.3	*Surface*	27.5	27.5	27.5	26.6	26.7	26.7	5.0	5.0	5.0	73.7	73.4	73.6	3.7	3.7	3.7		4.4	4.4	4.4	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	4.9	4.9	4.9	71.9	72.3	72.1	4.0	4.0	4.0	4.0	4.8	4.9	4.9	4.8
					Bottom	27.1	27.2	27.2	27.0	27.1	27.1	4.8	4.8	4.8	70.6	71.0	70.8	4.2	4.2	4.2		5.0	5.2	5.1	
S3	2248-2304	11.8	W	0.3	*Surface*	27.5	27.4	27.5	26.5	26.6	26.6	4.9	4.9	4.9	71.5	71.3	71.4	4.0	4.0	4.0		4.4	4.3	4.4	
					Middle	27.3	27.3	27.3	26.7	26.8	26.8	4.6	4.6	4.6	68.2	67.9	68.1	4.1	4.1	4.1	4.1	4.6	4.6	4.6	4.6
					Bottom	27.2	27.1	27.2	26.9	27.0	27.0	4.4	4.4	4.4	65.3	65.0	65.2	4.3	4.3	4.3		4.8	4.8	4.8	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C5 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 1 (07:00), 8 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.46	5.14
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.83	5.57
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	Y	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	Y	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 2 (11;00), 8 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.48	5.06
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.86	5.48
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C6 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 3 (15:00), 8 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.46	5.00
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.83	5.42
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 4 (19:00), 8 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.46	5.00
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.83	5.42
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C7 Impact Water Quality Monitoring Results during First Round Monitoring on 9 October 2012

Date:	9-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0718	36.2	0.4	E	*Surface*	27.3	27.3	27.3	25.9	25.9	25.9	4.9	5.0	4.9	71.5	72.2	71.9	4.3	4.2	4.2		4.8	4.7	4.8	
					Middle	27.5	27.4	27.5	26.4	26.5	26.5	4.7	4.8	4.8	69.3	69.8	69.6	3.7	3.8	3.8	3.8	4.5	4.2	4.4	4.3
					Bottom	27.5	27.6	27.6	26.5	26.5	26.5	4.9	4.9	4.9	71.8	71.2	71.5	3.5	3.5	3.5		4.0	3.8	3.9	
E8	0723-0738	19.6	0.3	E	*Surface*	27.4	27.4	27.4	26.4	26.4	26.4	5.4	5.3	5.4	78.7	78.3	78.5	3.7	3.7	3.7		4.3	4.3	4.3	
					Middle	27.5	27.6	27.6	26.6	26.7	26.7	5.3	5.3	5.3	76.2	76.6	76.4	3.7	3.7	3.7	3.8	4.1	4.0	4.1	4.2
					Bottom	27.5	27.6	27.6	26.7	26.7	26.7	5.5	5.6	5.5	80.9	81.3	81.1	4.0	4.1	4.0		4.4	4.2	4.3	
S1	0746-0803	9.4	0.2	E	*Surface*	27.4	27.4	27.4	26.6	26.5	26.6	5.6	5.5	5.5	81.5	81.1	81.3	3.6	3.5	3.5		4.2	4.0	4.1	
					Middle	27.5	27.6	27.6	26.7	26.7	26.7	5.7	5.7	5.7	83.9	83.5	83.7	3.9	3.9	3.9	3.8	4.6	4.9	4.8	4.5
					Bottom	27.4	27.4	27.4	26.8	26.8	26.8	4.3	4.3	4.3	62.1	61.5	61.8	3.9	3.8	3.9		4.8	4.7	4.8	
G1	0809-0825	11.2	0.3	E	*Surface*	27.4	27.4	27.4	26.7	26.7	26.7	5.7	5.8	5.7	83.6	84.1	83.9	3.5	3.6	3.6		4.0	3.8	3.9	
					Middle	27.5	27.5	27.5	26.9	27.0	27.0	5.6	5.5	5.6	81.3	80.8	81.1	3.9	3.8	3.9	3.8	4.4	4.5	4.5	4.2
					Bottom	27.5	27.5	27.5	26.9	26.9	26.9	5.5	5.5	5.5	80.1	79.5	79.8	3.9	3.9	3.9		4.1	4.3	4.2	
E7	0829-0845	12.4	0.2	E	*Surface*	27.4	27.4	27.4	26.8	26.8	26.8	5.8	5.8	5.8	84.8	85.4	85.1	3.7	3.7	3.7		3.9	4.1	4.0	
					Middle	27.5	27.4	27.5	26.8	26.9	26.9	5.6	5.7	5.7	82.4	82.8	82.6	3.8	3.8	3.8	3.8	4.3	4.3	4.3	4.3
					Bottom	27.5	27.6	27.6	26.9	26.9	26.9	5.7	5.8	5.7	83.6	84.0	83.8	4.1	4.0	4.0		4.6	4.7	4.7	
F1	0852-0908	11.4	0.2	E	*Surface*	27.4	27.4	27.4	26.8	26.7	26.8	5.9	5.9	5.9	86.4	86.9	86.7	3.5	3.4	3.5		3.8	4.1	4.0	
					Middle	27.5	27.5	27.5	26.8	26.8	26.8	6.0	6.0	6.0	88.1	87.6	87.9	3.9	3.9	3.9	3.7	4.4	4.7	4.6	4.3
					Bottom	27.5	27.5	27.5	26.8	26.8	26.8	5.9	5.9	5.9	87.3	86.8	87.1	3.8	3.7	3.7		4.5	4.4	4.5	
G3	0915-0930	14.8	0.2	E	*Surface*	27.4	27.4	27.4	26.7	26.7	26.7	5.9	5.9	5.9	86.6	87.2	86.9	3.5	3.6	3.6		4.0	4.1	4.1	
					Middle	27.1	27.2	27.2	27.0	27.0	27.0	5.9	5.9	5.9	86.0	85.5	85.8	4.0	4.1	4.1	3.9	4.4	4.4	4.4	4.4
					Bottom	27.1	27.1	27.1	27.0	27.0	27.0	5.9	5.9	5.9	87.6	87.1	87.4	4.1	4.0	4.1		4.8	4.5	4.7	
E9	0936-0955	18.8	0.3	E	*Surface*	27.4	27.5	27.5	26.7	26.7	26.7	5.7	5.7	5.7	83.6	83.0	83.3	3.8	3.8	3.8		4.4	4.2	4.3	
					Middle	27.5	27.4	27.5	26.9	27.0	27.0	5.1	5.1	5.1	74.1	73.7	73.9	3.8	3.9	3.8	3.9	4.2	4.3	4.3	4.3
					Bottom	27.5	27.4	27.5	27.0	27.1	27.1	4.8	4.9	4.8	70.3	70.7	70.5	4.0	3.9	3.9		4.4	4.5	4.5	
S2	1001-1018	13.4	0.2	E	*Surface*	27.4	27.4	27.4	26.7	26.7	26.7	5.3	5.3	5.3	77.2	76.6	76.9	3.6	3.7	3.6		3.8	4.0	3.9	
					Middle	27.5	27.5	27.5	27.0	27.1	27.1	5.1	5.1	5.1	74.4	73.8	74.1	3.8	3.8	3.8	3.8	4.2	4.2	4.2	4.2
					Bottom	27.5	27.5	27.5	27.1	27.1	27.1	4.8	4.7	4.7	69.5	68.8	69.2	3.9	4.0	3.9		4.5	4.3	4.4	
G2	1024-1038	13.2	0.3	E	*Surface*	27.5	27.5	27.5	26.7	26.7	26.7	5.3	5.3	5.3	77.7	77.1	77.4	4.1	4.2	4.1		4.5	4.4	4.5	
					Middle	27.5	27.6	27.6	26.9	26.9	26.9	4.9	4.9	4.9	71.5	72.1	71.8	4.2	4.1	4.1	4.1	4.6	4.6	4.6	4.6
					Bottom	27.6	27.6	27.6	27.0	27.1	27.1	4.7	4.7	4.7	68.5	67.8	68.2	4.0	4.1	4.1		4.8	4.8	4.8	
S3	1042-1055	10.8	0.2	E	*Surface*	27.5	27.5	27.5	26.7	26.7	26.7	5.2	5.2	5.2	75.8	75.2	75.5	3.9	4.0	3.9		4.8	4.5	4.7	
					Middle	27.5	27.6	27.6	27.0	27.0	27.0	5.0	5.0	5.0	72.2	72.8	72.5	3.9	3.9	3.9	4.1	4.2	4.4	4.3	4.6
					Bottom	27.5	27.6	27.6	27.0	27.1	27.1	4.8	4.8	4.8	70.1	70.6	70.4	4.1	4.1	4.1		4.8	4.8	4.8	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C8 Impact Water Quality Monitoring Results during Second Round Monitoring on 9 October 2012

Date:	9-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1100-1115	35.2	E	0.4	*Surface*	27.4	27.5	27.5	26.0	26.0	26.0	4.9	4.9	4.9	72.4	71.5	72.0	4.1	4.0	4.1		4.4	4.5	4.5	
					Middle	27.5	27.6	27.6	26.4	26.5	26.5	4.7	4.7	4.7	68.7	68.3	68.5	3.4	3.5	3.4	3.7	3.9	4.1	4.0	4.3
					Bottom	27.6	27.6	27.6	26.6	26.6	26.6	4.8	4.8	4.8	70.3	69.6	70.0	3.7	3.8	3.7		4.3	4.5	4.4	
E8	1119-1134	19.4	E	0.3	*Surface*	27.4	27.4	26.3	26.3	26.3	26.3	5.3	5.3	5.3	77.6	77.2	77.4	3.8	3.8	3.8		4.5	4.4	4.5	
					Middle	27.5	27.5	27.5	26.6	26.5	26.6	5.2	5.2	5.2	75.7	76.2	76.0	3.9	4.0	3.9	4.0	4.6	4.8	4.7	4.7
					Bottom	27.5	27.5	27.5	26.7	26.6	26.7	5.4	5.4	5.4	79.6	79.0	79.3	4.2	4.3	4.3		5.2	4.9	5.1	
S1	1140-1155	9.2	E	0.3	*Surface*	27.5	27.5	27.5	26.6	26.7	26.7	5.6	5.6	5.6	82.2	82.6	82.4	3.7	3.7	3.7		4.0	4.3	4.2	
					Middle	27.5	27.5	27.5	26.7	26.7	26.7	5.7	5.7	5.7	84.1	83.5	83.8	3.4	3.5	3.4	3.6	3.7	4.0	3.9	4.1
					Bottom	27.5	27.5	27.5	26.7	26.8	26.8	4.3	4.4	4.3	63.3	63.9	63.6	3.7	3.7	3.7		4.3	4.3	4.3	
G1	1159-1213	11.4	E	0.2	*Surface*	27.5	27.6	27.6	26.5	26.6	26.6	5.5	5.5	5.5	80.3	80.9	80.6	3.5	3.5	3.5		3.9	3.8	3.9	
					Middle	27.5	27.5	27.5	26.6	26.7	26.7	5.6	5.6	5.6	82.5	81.9	82.2	3.6	3.6	3.6	3.7	4.2	4.1	4.2	4.1
					Bottom	27.5	27.5	27.5	26.8	26.8	26.8	4.3	4.3	4.3	63.0	62.6	62.8	3.9	3.9	3.9		4.3	4.5	4.4	
E7	1217-1230	11.8	E	0.2	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.3	5.4	5.4	78.3	78.7	78.5	3.6	3.7	3.6		3.9	4.2	4.1	
					Middle	27.5	27.5	27.5	26.5	26.6	26.6	5.4	5.4	5.4	79.3	79.0	79.2	3.7	3.8	3.8	3.8	4.6	4.6	4.6	4.5
					Bottom	27.5	27.5	27.5	26.8	26.7	26.8	4.5	4.5	4.5	65.8	66.3	66.1	4.1	4.1	4.1		4.9	4.8	4.9	
F1	1237-1251	11.2	E	0.4	*Surface*	27.5	27.6	27.6	26.5	26.6	26.6	5.2	5.2	5.2	75.9	76.7	76.3	3.4	3.4	3.4		3.9	3.7	3.8	
					Middle	27.6	27.6	27.6	26.6	26.6	26.6	5.0	5.1	5.0	73.5	74.3	73.9	3.3	3.3	3.3	3.5	3.7	4.0	3.9	4.0
					Bottom	27.5	27.6	27.6	26.7	26.8	26.8	4.6	4.6	4.6	67.8	67.2	67.5	3.7	3.8	3.8		4.4	4.4	4.4	
G3	1255-1310	14.6	E	0.4	*Surface*	27.4	27.5	27.5	26.6	26.7	26.7	5.4	5.4	5.4	78.8	78.5	78.7	3.7	3.8	3.8		4.3	4.0	4.2	
					Middle	27.2	27.3	27.3	26.7	26.7	26.7	5.1	5.2	5.1	74.9	75.4	75.2	3.5	3.4	3.5	3.6	4.0	3.8	3.9	4.1
					Bottom	27.2	27.2	27.2	26.8	26.8	26.8	4.7	4.7	4.7	58.2	69.0	63.6	3.7	3.8	3.7		4.0	4.4	4.2	
E9	1316-1330	18.2	E	0.4	*Surface*	27.5	27.5	27.5	26.7	26.7	26.7	5.4	5.4	5.4	79.2	78.7	79.0	3.9	4.0	3.9		4.5	4.4	4.5	
					Middle	27.5	27.5	27.5	26.9	27.0	27.0	5.1	5.1	5.1	74.0	74.5	74.3	4.0	4.0	4.0	4.1	4.8	4.7	4.8	4.7
					Bottom	27.4	27.3	27.4	27.4	27.3	27.4	4.5	4.5	4.5	65.8	66.3	66.1	4.2	4.3	4.2		4.9	4.9	4.9	
S2	1336-1351	10.2	W	0.3	*Surface*	27.5	27.6	27.6	26.7	26.7	26.7	5.2	5.3	5.2	76.6	76.9	76.8	3.8	3.9	3.9		4.3	4.6	4.5	
					Middle	27.5	27.5	27.5	26.7	26.8	26.8	5.2	5.1	5.1	75.6	74.9	75.3	3.9	4.0	3.9	4.0	4.6	4.5	4.6	4.6
					Bottom	27.5	27.5	27.5	27.0	26.9	27.0	4.7	4.8	4.8	69.3	69.9	69.6	4.1	4.1	4.1		4.8	5.0	4.9	
G2	1355-1412	13.0	W	0.3	*Surface*	27.6	27.6	27.6	26.6	26.6	26.6	5.0	5.1	5.0	73.4	74.0	73.7	3.8	3.8	3.8		4.2	4.2	4.2	
					Middle	27.5	27.5	27.5	26.6	26.7	26.7	4.9	5.0	4.9	72.1	72.7	72.4	4.1	4.1	4.1	4.1	4.7	4.5	4.6	4.5
					Bottom	27.4	27.4	27.4	27.1	27.1	27.1	4.6	4.6	4.6	67.2	67.9	67.6	4.3	4.3	4.3		4.8	4.8	4.8	
S3	1418-1435	10.6	W	0.3	*Surface*	27.6	27.7	27.7	26.6	26.7	26.7	4.9	5.0	4.9	72.1	72.7	72.4	4.1	4.2	4.2		4.6	4.7	4.7	
					Middle	27.6	27.6	27.6	26.7	26.7	26.7	4.7	4.7	4.7	68.3	69.0	68.7	4.3	4.2	4.2	4.3	4.9	4.7	4.8	4.9
					Bottom	27.5	27.5	27.5	26.9	26.9	26.9	4.4	4.5	4.5	65.1	65.7	65.4	4.5	4.5	4.5		5.0	5.2	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C9 Impact Water Quality Monitoring Results during Third Round Monitoring on 9 October 2012

Date:	9-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1505-1521	36.7	W	0.4	*Surface*	27.6	27.6	27.6	25.9	25.9	25.9	5.0	5.0	5.0	72.7	73.4	73.1	4.3	4.2	4.2		4.8	4.6	4.7	
					Middle	27.6	27.6	27.6	26.3	26.4	26.4	4.8	4.8	4.8	70.8	70.2	70.5	4.0	4.1	4.0	4.0	4.5	4.7	4.6	4.5
					Bottom	27.5	27.5	27.5	26.6	26.6	26.6	4.8	4.9	4.8	70.2	71.6	70.9	3.8	3.7	3.8		4.2	4.3	4.3	
E8	1526-1543	20.5	W	0.3	*Surface*	27.5	27.6	27.6	26.4	26.4	26.4	5.3	5.3	5.3	78.0	77.7	77.9	4.0	3.9	4.0		4.6	4.5	4.6	
					Middle	27.4	27.5	27.5	26.7	26.7	26.7	5.3	5.2	5.2	77.3	76.5	76.9	4.2	4.1	4.1	4.1	4.8	4.6	4.7	4.7
					Bottom	27.5	27.4	27.5	26.7	26.8	26.8	5.1	5.2	5.2	75.2	75.9	75.6	4.2	4.3	4.2		4.7	4.7	4.7	
S1	1552-1608	9.7	W	0.6	*Surface*	27.6	27.6	27.6	26.5	26.5	26.5	5.6	5.5	5.6	82.2	80.9	81.6	3.7	3.8	3.7		4.2	4.3	4.3	
					Middle	27.5	27.5	27.5	26.6	26.7	26.7	5.4	5.5	5.4	79.6	80.1	79.9	3.6	3.6	3.6	3.7	3.8	4.0	3.9	4.2
					Bottom	27.4	27.3	27.4	26.8	26.8	26.8	5.3	5.3	5.3	77.8	77.4	77.6	3.7	3.7	3.7		4.3	4.4	4.4	
G1	1614-1630	12.1	W	0.4	*Surface*	27.6	27.6	27.6	26.4	26.5	26.5	5.5	5.6	5.6	81.1	82.2	81.7	3.4	3.5	3.4		4.0	4.0	4.0	
					Middle	27.5	27.5	27.5	26.6	26.6	26.6	5.0	4.9	5.0	73.7	72.2	73.0	3.7	3.7	3.7	3.7	4.4	4.1	4.3	4.2
					Bottom	27.5	27.4	27.5	26.9	26.8	26.9	4.9	4.7	4.8	71.1	69.2	70.2	3.9	3.8	3.9		4.3	4.5	4.4	
E7	1634-1630	12.7	W	0.3	*Surface*	27.6	27.6	27.6	26.6	26.6	26.6	5.9	5.9	5.9	86.8	86.1	86.5	3.4	3.3	3.3		3.9	3.9	3.9	
					Middle	27.5	27.5	27.5	26.8	26.8	26.8	5.7	5.6	5.7	83.7	82.5	83.1	3.7	3.6	3.6	3.6	4.2	4.3	4.3	4.3
					Bottom	27.4	27.4	27.4	26.9	26.9	26.9	5.5	5.5	5.5	80.9	80.9	80.9	3.9	4.0	3.9		4.6	4.7	4.7	
F1	1658-1714	11.8	W	0.4	*Surface*	27.6	27.6	27.6	26.7	26.8	26.8	6.1	6.1	6.1	89.6	88.8	89.2	3.4	3.4	3.4		3.9	4.1	4.0	
					Middle	27.5	27.5	27.5	26.9	26.9	26.9	6.0	5.9	6.0	88.3	86.9	87.6	3.2	3.3	3.3	3.5	3.7	3.8	3.8	4.1
					Bottom	27.5	27.5	27.5	27.0	27.0	27.0	5.9	5.9	5.9	86.6	86.6	86.6	3.8	3.7	3.7		4.3	4.5	4.4	
G3	1719-1735	15.3	W	0.4	*Surface*	27.6	27.5	27.6	26.7	26.8	26.8	6.0	5.9	5.9	87.4	86.9	87.2	3.3	3.4	3.3		3.8	4.0	3.9	
					Middle	27.4	27.3	27.4	27.3	27.3	27.3	5.8	5.8	5.8	76.1	85.2	80.7	3.6	3.6	3.6	3.6	4.1	4.4	4.3	4.2
					Bottom	27.3	27.3	27.3	27.5	27.6	27.6	5.8	5.8	5.8	85.3	84.6	85.0	3.8	3.8	3.8		4.4	4.3	4.4	
E9	1739-1755	19.2	W	0.5	*Surface*	27.6	27.6	27.6	26.6	26.6	26.6	5.3	5.3	5.3	77.4	77.1	77.3	3.5	3.5	3.5		4.0	3.9	4.0	
					Middle	27.5	27.5	27.5	26.8	27.0	26.9	5.1	5.1	5.1	74.5	74.0	74.3	3.8	3.8	3.8	3.8	4.2	4.4	4.3	4.3
					Bottom	27.5	27.4	27.5	27.0	27.1	27.1	4.8	4.8	4.8	70.5	69.9	70.2	4.2	4.2	4.2		4.8	4.7	4.8	
S2	1804-1820	10.9	W	0.5	*Surface*	27.6	27.6	27.6	26.6	26.7	26.7	5.0	4.9	5.0	73.6	72.3	73.0	3.9	4.0	3.9		4.3	4.4	4.4	
					Middle	27.5	27.5	27.5	26.8	26.8	26.8	4.6	4.6	4.6	67.6	67.0	67.3	4.2	4.2	4.2	4.2	4.9	4.7	4.8	4.7
					Bottom	27.4	27.4	27.4	27.0	27.0	27.0	4.3	4.4	4.3	63.0	64.1	63.6	4.4	4.3	4.4		5.1	5.0	5.1	
G2	1828-1844	14.1	W	0.6	*Surface*	27.6	27.6	27.6	26.8	26.8	26.8	5.0	5.0	5.0	73.6	72.7	73.2	3.8	3.8	3.8		4.2	4.4	4.3	
					Middle	27.5	27.5	27.5	26.9	26.9	26.9	4.8	4.8	4.8	70.2	69.9	70.1	4.1	4.1	4.1	4.1	4.6	4.5	4.6	4.6
					Bottom	27.4	27.4	27.4	27.0	27.1	27.1	4.7	4.7	4.7	69.1	68.9	69.0	4.3	4.2	4.3		4.8	5.0	4.9	
S3	1848-1904	11.5	W	0.4	*Surface*	27.6	27.6	27.6	26.7	26.7	26.7	4.9	4.9	4.9	72.3	71.5	71.9	4.0	4.1	4.1		4.4	4.3	4.4	
					Middle	27.6	27.5	27.6	26.8	26.8	26.8	4.6	4.6	4.6	67.4	67.0	67.2	4.3	4.2	4.2	4.2	4.7	4.6	4.7	4.6
					Bottom	27.5	27.5	27.5	26.9	27.0	27.0	4.4	4.4	4.4	64.2	63.8	64.0	4.3	4.4	4.3		4.8	4.8	4.8	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C10 Impact Water Quality Monitoring Results during Forth Round Monitoring on 9 October 2012

Date:	9-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1907-1923	36.9	W	0.3	*Surface*	27.5	27.5	27.5	26.2	26.2	26.2	5.1	5.1	5.1	74.8	75.4	75.1	4.0	4.1	4.0		4.6	4.5	4.6	
					Middle	27.5	27.5	27.5	26.5	26.5	26.5	5.0	5.0	5.0	72.7	72.7	72.7	4.0	4.0	4.0	4.0	4.5	4.6	4.6	4.5
					Bottom	27.4	27.4	27.4	26.8	26.8	26.8	4.9	4.9	4.9	72.4	72.0	72.2	3.8	3.9	3.8		4.3	4.4	4.4	
E8	1926-1942	20.7	W	0.4	*Surface*	27.5	27.5	27.5	26.5	26.4	26.5	5.4	5.3	5.4	79.3	77.7	78.5	3.6	3.8	3.7		4.0	4.2	4.1	
					Middle	27.4	27.3	27.4	26.7	26.7	26.7	5.2	5.2	5.2	76.5	75.9	76.2	3.9	3.9	3.9	3.9	4.5	4.3	4.4	4.4
					Bottom	27.3	27.3	27.3	26.7	26.8	26.8	5.2	5.1	5.1	75.5	75.4	75.5	4.1	4.2	4.2		4.7	4.8	4.8	
S1	1951-2007	9.9	W	0.3	*Surface*	27.5	27.5	27.5	26.7	26.6	26.7	5.6	5.5	5.5	81.8	80.6	81.2	3.5	3.5	3.5		4.0	4.2	4.1	
					Middle	27.4	27.4	27.4	26.7	26.8	26.8	5.4	5.4	5.4	79.3	78.9	79.1	3.6	3.7	3.6	3.6	4.2	4.1	4.2	4.1
					Bottom	27.3	27.3	27.3	26.8	26.9	26.9	5.3	5.3	5.3	77.3	77.1	77.2	3.6	3.6	3.6		3.9	4.1	4.0	
G1	2014-2030	12.3	W	0.3	*Surface*	27.5	27.5	27.5	26.4	26.5	26.5	5.4	5.4	5.4	79.7	79.5	79.6	3.3	3.3	3.3		3.8	4.0	3.9	
					Middle	27.4	27.4	27.4	26.6	26.7	26.7	5.1	5.1	5.1	75.1	74.3	74.7	3.7	3.7	3.7	3.6	4.2	4.3	4.3	4.2
					Bottom	27.3	27.3	27.3	26.8	26.9	26.9	4.9	4.9	4.9	72.0	71.3	71.7	3.9	3.9	3.9		4.4	4.6	4.5	
E7	2035-2051	12.9	W	0.3	*Surface*	27.5	27.5	27.5	26.6	26.5	26.6	5.8	5.9	5.8	85.3	85.9	85.6	3.3	3.3	3.3		3.9	3.7	3.8	
					Middle	27.5	27.4	27.5	26.8	26.8	26.8	5.7	5.7	5.7	83.4	83.0	83.2	3.6	3.6	3.6	3.6	3.9	4.2	4.1	4.1
					Bottom	27.3	27.3	27.3	26.9	27.0	27.0	5.5	5.5	5.5	80.8	80.5	80.7	3.9	3.8	3.9		4.4	4.5	4.5	
F1	2059-2115	12.1	W	0.4	*Surface*	27.5	27.5	27.5	26.7	26.7	26.7	5.9	6.0	6.0	86.8	87.3	87.1	3.2	3.2	3.2		3.7	3.6	3.7	
					Middle	27.4	27.4	27.4	26.8	26.0	26.4	5.8	5.8	5.8	85.5	84.9	85.2	3.3	3.3	3.3	3.4	3.8	3.8	3.8	3.8
					Bottom	27.4	27.3	27.4	27.1	27.1	27.1	5.6	5.6	5.6	82.7	82.5	82.6	3.6	3.7	3.6		4.0	4.1	4.1	
G3	2120-2136	15.6	W	0.6	*Surface*	27.5	27.4	27.5	26.5	26.5	26.5	5.9	5.8	5.8	85.9	85.3	85.6	3.3	3.3	3.3		3.8	3.9	3.9	
					Middle	27.3	27.3	27.3	27.2	27.3	27.3	5.7	5.7	5.7	83.4	74.9	79.2	3.5	3.5	3.5	3.5	3.8	4.2	4.0	4.0
					Bottom	27.3	27.3	27.3	27.5	27.5	27.5	5.7	5.7	5.7	84.0	83.3	83.7	3.7	3.7	3.7		4.2	4.3	4.3	
E9	2141-2159	19.6	W	0.5	*Surface*	27.5	27.4	27.5	26.6	26.7	26.7	5.3	5.3	5.3	77.8	77.7	77.8	3.4	3.4	3.4		3.8	3.8	3.8	
					Middle	27.4	27.3	27.4	26.8	26.8	26.8	5.1	5.1	5.1	74.9	74.3	74.6	3.8	3.8	3.8	3.8	4.4	4.2	4.3	4.3
					Bottom	27.3	27.3	27.3	26.9	27.0	27.0	4.9	4.9	4.9	72.1	71.3	71.7	4.1	4.1	4.1		4.8	4.9	4.9	
S2	2204-2221	11.3	W	0.4	*Surface*	27.5	27.5	27.5	26.5	26.6	26.6	5.1	5.2	5.1	75.1	75.6	75.4	3.6	3.7	3.7		4.0	3.9	4.0	
					Middle	27.4	27.4	27.4	26.8	26.8	26.8	5.0	5.0	5.0	73.9	73.4	73.7	4.1	4.1	4.1	4.0	4.6	4.5	4.6	4.4
					Bottom	27.3	27.3	27.3	26.9	27.0	27.0	4.5	4.5	4.5	65.7	66.1	65.9	4.2	4.2	4.2		4.7	4.8	4.8	
G2	2229-2245	14.3	W	0.4	*Surface*	27.5	27.5	27.5	26.8	26.8	26.8	5.1	5.1	5.1	75.1	74.5	74.8	3.8	3.8	3.8		4.2	4.2	4.2	
					Middle	27.4	27.4	27.4	26.9	27.0	27.0	4.8	4.8	4.8	70.1	69.9	70.0	4.1	4.0	4.1	4.0	4.5	4.4	4.5	4.5
					Bottom	27.3	27.3	27.3	27.0	27.0	27.0	4.7	4.7	4.7	69.3	69.0	69.2	4.1	4.2	4.1		4.6	5.0	4.8	
S3	2249-2305	11.8	W	0.4	*Surface*	27.5	27.5	27.5	26.8	26.7	26.8	5.0	4.9	4.9	72.7	72.1	72.4	4.1	4.1	4.1		4.8	4.7	4.8	
					Middle	27.4	27.4	27.4	26.8	26.8	26.8	4.6	4.6	4.6	67.9	67.6	67.8	4.4	4.4	4.4	4.3	4.9	5.1	5.0	5.0
					Bottom	27.4	27.3	27.4	26.9	26.9	26.9	4.4	4.3	4.4	64.1	63.6	63.9	4.4	4.4	4.4		5.2	5.0	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C11 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 1 (07:00), 9 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.61	5.20
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	5.00	5.63
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	Y	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 2 (11;00), 9 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.50	5.14
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.87	5.57
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C12 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 3 (15:00), 9 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.81	5.42
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	5.21	5.87
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 4 (19:00), 9 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.76	5.38
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	5.15	5.83
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C13 Impact Water Quality Monitoring Results during First Round Monitoring on 10 October 2012

Date:	10-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0717	35.8	E	0.6	*Surface*	27.4	27.3	27.4	26.2	26.3	26.3	5.0	5.1	5.1	74.0	74.7	74.4	4.1	4.2	4.2		4.8	4.5	4.7	
					Middle	27.3	27.2	27.3	26.4	26.5	26.5	4.8	4.7	4.8	70.0	69.7	69.9	3.3	3.3	3.3	3.7	4.0	4.3	4.2	4.4
					Bottom	27.2	27.1	27.2	26.6	26.7	26.7	4.8	4.9	4.9	71.3	71.7	71.5	3.7	3.7	3.7		4.2	4.4	4.3	
E8	0722-0739	19.4	E	0.3	*Surface*	27.5	27.4	27.5	26.4	26.4	26.4	5.2	5.1	5.1	75.6	75.2	75.4	3.9	4.0	4.0		4.8	4.5	4.7	
					Middle	27.4	27.4	27.4	26.5	26.7	26.6	5.0	4.9	4.9	72.9	72.5	72.7	4.1	4.1	4.1	4.2	4.8	5.0	4.9	4.9
					Bottom	27.3	27.2	27.3	26.9	27.0	27.0	4.6	4.6	4.6	67.9	67.5	67.7	4.4	4.4	4.4		5.4	4.9	5.2	
S1	0747-0804	9.2	E	0.4	*Surface*	27.4	27.5	27.5	26.5	26.6	26.6	5.2	5.2	5.2	76.5	75.9	76.2	3.9	3.8	3.8		4.5	4.3	4.4	
					Middle	27.4	27.4	27.4	26.7	26.7	26.7	4.9	4.8	4.8	71.3	70.9	71.1	3.3	3.3	3.3	3.6	3.8	3.7	3.8	4.1
					Bottom	27.4	27.3	27.4	27.0	27.1	27.1	4.4	4.4	4.4	65.0	64.7	64.9	3.6	3.6	3.6		4.1	4.2	4.2	
G1	0808-0825	11.0	E	0.2	*Surface*	27.4	27.4	27.4	26.4	26.3	26.4	5.3	5.2	5.2	77.2	76.6	76.9	3.4	3.5	3.5		4.2	4.0	4.1	
					Middle	27.4	27.5	27.5	26.6	26.7	26.7	4.7	4.7	4.7	69.7	68.8	69.3	3.8	3.9	3.9	3.8	4.4	4.7	4.6	4.5
					Bottom	27.4	27.3	27.4	26.9	27.0	27.0	4.3	4.3	4.3	63.8	62.6	63.2	4.1	4.1	4.1		5.1	4.8	5.0	
E7	0829-0846	12.2	E	0.1	*Surface*	27.5	27.4	27.5	26.4	26.4	26.4	5.2	5.3	5.2	76.3	77.1	76.7	3.6	3.6	3.6		4.3	3.9	4.1	
					Middle	27.4	27.3	27.4	26.5	26.6	26.6	5.0	5.0	5.0	74.1	73.6	73.9	4.0	4.0	4.0	3.9	4.6	4.6	4.6	4.7
					Bottom	27.3	27.2	27.3	26.9	27.0	27.0	4.5	4.5	4.5	66.4	66.9	66.7	4.3	4.3	4.3		5.3	5.2	5.3	
F1	0853-0909	11.2	E	0.3	*Surface*	27.5	27.5	27.5	26.3	26.4	26.4	5.0	5.0	5.0	72.8	73.7	73.3	3.5	3.5	3.5		3.9	3.7	3.8	
					Middle	27.4	27.4	27.4	26.5	26.5	26.5	4.8	4.8	4.8	70.4	70.0	70.2	3.3	3.2	3.2	3.5	3.7	3.8	3.8	4.1
					Bottom	27.4	27.3	27.4	27.0	27.1	27.1	4.4	4.4	4.4	65.3	64.5	64.9	3.8	3.9	3.8		4.5	4.8	4.7	
G3	0914-0931	14.6	E	0.3	*Surface*	27.5	27.4	27.5	26.4	26.5	26.5	5.1	5.1	5.1	74.9	75.5	75.2	4.0	4.0	4.0		4.7	5.1	4.9	
					Middle	27.4	27.3	27.4	26.8	26.7	26.8	4.9	4.8	4.8	71.4	71.0	71.2	3.7	3.6	3.6	3.9	4.1	4.0	4.1	4.7
					Bottom	27.3	27.3	27.3	26.9	27.0	27.0	4.4	4.3	4.3	64.4	63.6	64.0	4.0	4.1	4.1		5.0	5.4	5.2	
E9	0936-0954	18.2	E	0.3	*Surface*	27.4	27.5	27.5	26.7	26.8	26.8	5.3	5.3	5.3	77.5	77.1	77.3	4.1	4.1	4.1		4.6	4.9	4.8	
					Middle	27.5	27.5	27.5	27.0	27.1	27.1	4.9	4.9	4.9	71.9	71.3	71.6	3.9	4.0	3.9	4.1	4.5	4.7	4.6	4.9
					Bottom	27.3	27.3	27.3	27.3	27.4	27.4	4.3	4.2	4.2	62.7	62.2	62.5	4.3	4.4	4.4		5.3	5.2	5.3	
S2	1000-1017	10.2	E	0.3	*Surface*	27.5	27.6	27.6	26.7	26.7	26.7	5.1	5.0	5.0	74.7	73.3	74.0	3.9	3.9	3.9		4.4	4.4	4.4	
					Middle	27.5	27.4	27.5	26.8	26.9	26.9	4.8	4.8	4.8	71.0	70.4	70.7	4.2	4.2	4.2	4.1	4.9	4.5	4.7	4.7
					Bottom	27.4	27.3	27.4	27.2	27.3	27.3	4.5	4.5	4.5	66.6	65.8	66.2	4.3	4.3	4.3		5.0	5.2	5.1	
G2	1023-1040	13.0	E	0.2	*Surface*	27.6	27.5	27.6	26.6	26.7	26.7	5.0	5.0	5.0	72.7	73.5	73.1	4.0	4.1	4.0		4.7	4.6	4.7	
					Middle	27.5	27.4	27.5	26.8	26.9	26.9	4.8	4.8	4.8	70.0	70.3	70.2	4.1	4.2	4.1	4.2	5.3	5.1	5.2	5.1
					Bottom	27.4	27.3	27.4	27.1	27.1	27.1	4.5	4.6	4.5	66.1	67.0	66.6	4.4	4.3	4.3		5.6	5.4	5.5	
S3	1044-1101	10.4	E	0.1	*Surface*	27.6	27.6	27.6	26.5	26.4	26.5	4.7	4.6	4.6	68.6	67.7	68.2	4.1	4.1	4.1		4.8	4.8	4.8	
					Middle	27.6	27.5	27.6	26.6	26.7	26.7	4.5	4.5	4.5	65.6	66.2	65.9	4.3	4.3	4.3	4.3	4.9	5.1	5.0	5.1
					Bottom	27.5	27.4	27.5	26.9	27.0	27.0	4.2	4.3	4.3	62.3	62.9	62.6	4.4	4.4	4.4		5.4	5.6	5.5	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C14 Impact Water Quality Monitoring Results during Second Round Monitoring on 10 October 2012

Date:	10-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1105-1122	36.2	W	0.7	*Surface*	27.6	27.5	27.6	26.2	26.2	26.2	5.1	5.2	5.1	75.5	75.9	75.7	4.1	4.1	4.1		5.2	4.8	5.0	
					Middle	27.4	27.4	27.4	26.4	26.5	26.5	4.8	4.8	4.8	71.1	70.5	70.8	3.4	3.4	3.4	3.7	3.9	4.0	4.0	4.4
					Bottom	27.3	27.2	27.3	26.7	26.7	26.7	4.9	4.9	4.9	71.8	72.2	72.0	3.6	3.6	3.6		4.2	4.4	4.3	
E8	1127-1144	19.8	W	0.3	*Surface*	27.6	27.6	27.6	26.4	26.3	26.4	5.2	5.2	5.2	76.8	76.1	76.5	4.0	3.9	4.0		4.5	4.8	4.7	
					Middle	27.5	27.4	27.5	26.5	26.6	26.6	5.0	5.0	5.0	74.2	73.1	73.7	4.0	4.1	4.1	4.1	5.0	4.8	4.9	4.9
					Bottom	27.3	27.3	27.3	26.9	27.0	27.0	4.7	4.7	4.7	69.1	68.4	68.8	4.4	4.4	4.4		5.1	5.2	5.2	
S1	1151-1208	9.6	W	0.3	*Surface*	27.6	27.5	27.6	26.5	26.5	26.5	5.2	5.2	5.2	76.3	76.9	76.6	3.8	3.8	3.8		4.5	4.2	4.4	
					Middle	27.5	27.4	27.5	26.7	26.6	26.7	5.0	4.9	5.0	73.2	72.7	73.0	3.3	3.4	3.3	3.6	3.7	3.8	3.8	4.1
					Bottom	27.3	27.4	27.4	27.0	27.0	27.0	4.6	4.5	4.5	67.1	66.4	66.8	3.6	3.6	3.6		4.2	4.2	4.2	
G1	1212-1229	11.3	W	0.2	*Surface*	27.7	27.6	27.7	26.4	26.4	26.4	5.3	5.2	5.2	77.2	76.7	77.0	3.5	3.4	3.4		3.9	3.8	3.9	
					Middle	27.5	27.6	27.6	26.7	26.7	26.7	4.8	4.8	4.8	70.6	70.2	70.4	3.7	3.8	3.7	3.7	4.4	4.7	4.6	4.4
					Bottom	27.4	27.4	27.4	27.0	26.9	27.0	4.4	4.4	4.4	64.9	64.4	64.7	4.0	4.0	4.0		5.0	4.8	4.9	
E7	1232-1249	12.5	W	0.1	*Surface*	27.6	27.6	27.6	26.3	26.4	26.4	5.2	5.3	5.3	76.9	77.7	77.3	3.5	3.6	3.5		4.5	4.1	4.3	
					Middle	27.5	27.5	27.5	26.6	26.5	26.6	5.1	5.1	5.1	75.1	74.5	74.8	3.8	3.9	3.9	3.8	4.4	4.6	4.5	4.7
					Bottom	27.3	27.4	27.4	26.9	26.9	26.9	4.7	4.6	4.6	68.6	68.0	68.3	4.1	4.2	4.1		5.1	5.2	5.2	
F1	1252-1308	11.7	W	0.3	*Surface*	27.6	27.7	27.7	26.3	26.4	26.4	5.1	5.0	5.1	74.6	74.2	74.4	3.4	3.5	3.4		3.9	3.8	3.9	
					Middle	27.5	27.6	27.6	26.6	26.5	26.6	4.8	4.8	4.8	71.1	70.3	70.7	3.5	3.5	3.5	3.6	3.7	3.8	3.8	4.1
					Bottom	27.4	27.4	27.4	27.0	27.0	27.0	4.5	4.5	4.5	66.2	65.5	65.9	3.8	3.8	3.8		4.4	4.8	4.6	
G3	1313-1330	14.9	W	0.3	*Surface*	27.7	27.6	27.7	26.4	26.4	26.4	5.2	5.2	5.2	76.5	75.9	76.2	4.0	4.1	4.1		5.0	5.1	5.1	
					Middle	27.5	27.5	27.5	26.7	26.8	26.8	4.9	4.9	4.9	72.4	71.8	72.1	3.9	3.8	3.9	4.0	4.6	4.6	4.6	4.9
					Bottom	27.3	27.4	27.4	27.0	27.0	27.0	4.4	4.4	4.4	65.3	64.7	65.0	4.0	4.1	4.0		5.0	5.2	5.1	
E9	1336-1353	18.6	W	0.4	*Surface*	27.7	27.6	27.7	26.8	26.8	26.8	5.3	5.3	5.3	78.3	77.5	77.9	4.0	4.1	4.0		5.0	4.8	4.9	
					Middle	27.5	27.4	27.5	27.1	27.1	27.1	5.0	4.9	5.0	73.4	72.7	73.1	3.9	3.9	3.9	4.1	4.4	4.7	4.6	4.9
					Bottom	27.3	27.3	27.3	27.3	27.4	27.4	4.5	4.5	4.5	66.3	65.8	66.1	4.2	4.3	4.3		5.3	5.1	5.2	
S2	1359-1417	10.5	W	0.4	*Surface*	27.6	27.6	27.6	26.6	26.7	26.7	5.1	5.1	5.1	74.9	75.3	75.1	3.8	3.8	3.8		4.5	4.6	4.6	
					Middle	27.5	27.5	27.5	26.9	26.8	26.9	5.0	5.0	5.0	73.6	73.0	73.3	4.1	4.1	4.1	4.1	4.9	5.1	5.0	4.9
					Bottom	27.4	27.3	27.4	27.2	27.2	27.2	4.6	4.6	4.6	68.1	67.7	67.9	4.2	4.3	4.2		5.3	5.2	5.3	
G2	1422-1440	13.3	W	0.2	*Surface*	27.6	27.7	27.7	26.6	26.7	26.7	5.1	5.0	5.0	74.3	73.9	74.1	3.9	3.9	3.9		4.4	4.8	4.6	
					Middle	27.5	27.6	27.6	26.9	26.9	26.9	4.9	4.8	4.8	71.4	70.8	71.1	4.1	4.1	4.1	4.1	5.3	4.9	5.1	5.0
					Bottom	27.4	27.4	27.4	27.1	27.2	27.2	4.6	4.6	4.6	67.4	67.7	67.6	4.3	4.3	4.3		5.3	5.2	5.3	
S3	1446-1502	10.6	W	0.2	*Surface*	27.7	27.7	27.7	26.5	26.5	26.5	4.8	4.8	4.8	70.9	70.3	70.6	4.1	4.1	4.1		5.0	4.8	4.9	
					Middle	27.6	27.6	27.6	26.7	26.6	26.7	4.6	4.5	4.6	67.3	66.7	67.0	4.2	4.3	4.3	4.2	5.3	5.1	5.2	5.1
					Bottom	27.5	27.4	27.5	26.9	26.9	26.9	4.4	4.3	4.4	64.4	63.6	64.0	4.3	4.4	4.3		5.2	5.4	5.3	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C15 Impact Water Quality Monitoring Results during Third Round Monitoring on 10 October 2012

Date:	10-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1505-1523	37.0	W	0.6	*Surface*	27.7	27.8	27.8	26.2	26.3	26.3	5.2	5.2	5.2	76.4	76.9	76.7	4.0	3.9	4.0		5.0	5.0	5.0	
					Middle	27.5	27.4	27.5	26.5	26.5	26.5	5.0	5.0	5.0	73.6	73.2	73.4	3.4	3.4	3.4	3.6	3.9	3.7	3.8	4.2
					Bottom	27.3	27.2	27.3	26.7	26.6	26.7	4.9	4.9	4.9	72.5	72.2	72.4	3.6	3.6	3.6		3.7	4.0	3.9	
E8	1527-1545	20.2	W	0.4	*Surface*	27.6	27.7	27.7	26.3	26.4	26.4	5.3	5.4	5.4	78.1	79.2	78.7	3.9	3.8	3.8		4.5	4.6	4.6	
					Middle	27.4	27.5	27.5	26.6	26.5	26.6	5.1	5.1	5.1	74.9	74.5	74.7	3.9	3.9	3.9	4.0	4.9	5.1	5.0	4.9
					Bottom	27.2	27.3	27.3	27.0	27.0	27.0	4.9	4.9	4.9	71.4	72.0	71.7	4.2	4.2	4.2		5.2	5.0	5.1	
S1	1552-1609	10.0	W	0.4	*Surface*	27.7	27.7	27.7	26.4	26.4	26.4	5.3	5.2	5.3	77.6	76.9	77.3	3.7	3.7	3.7		4.5	4.8	4.7	
					Middle	27.5	27.5	27.5	26.6	26.5	26.6	5.0	5.1	5.1	74.1	74.5	74.3	3.6	3.6	3.6	3.6	4.2	4.3	4.3	4.4
					Bottom	27.3	27.3	27.3	27.0	27.1	27.1	4.8	4.8	4.8	70.1	70.7	70.4	3.6	3.7	3.6		4.5	4.2	4.4	
G1	1613-1630	11.6	W	0.3	*Surface*	27.8	27.8	27.8	26.4	26.4	26.4	5.4	5.4	5.4	79.1	79.4	79.3	3.3	3.3	3.3		4.0	3.8	3.9	
					Middle	27.5	27.6	27.6	26.8	26.9	26.9	4.9	4.9	4.9	72.2	72.6	72.4	3.6	3.7	3.6	3.7	4.0	4.5	4.3	4.2
					Bottom	27.3	27.4	27.4	27.0	27.1	27.1	4.5	4.6	4.5	66.4	67.2	66.8	4.1	4.1	4.1		4.3	4.4	4.4	
E7	1633-1650	12.8	W	0.2	*Surface*	27.7	27.8	27.8	26.4	26.5	26.5	5.4	5.4	5.4	79.2	78.6	78.9	3.4	3.4	3.4		3.8	4.0	3.9	
					Middle	27.4	27.5	27.5	26.6	26.5	26.6	5.3	5.2	5.3	77.4	76.9	77.2	3.8	3.8	3.8	3.7	4.3	4.6	4.5	4.5
					Bottom	27.3	27.3	27.3	26.9	26.9	26.9	4.9	4.9	4.9	72.2	72.6	72.4	4.1	4.0	4.1		5.1	5.1	5.1	
F1	1653-1709	11.8	W	0.2	*Surface*	27.7	27.6	27.7	26.3	26.4	26.4	5.2	5.3	5.2	76.7	77.2	77.0	3.4	3.4	3.4		3.7	3.8	3.8	
					Middle	27.5	27.5	27.5	26.5	26.6	26.6	5.0	5.0	5.0	73.4	72.9	73.2	3.6	3.6	3.6	3.6	4.1	3.8	4.0	4.0
					Bottom	27.3	27.4	27.4	27.1	27.0	27.1	4.8	4.8	4.8	70.3	70.6	70.5	3.8	3.8	3.8		4.1	4.4	4.3	
G3	1714-1731	15.2	W	0.4	*Surface*	27.8	27.7	27.8	26.3	26.3	26.3	5.2	5.2	5.2	75.9	76.3	76.1	4.1	4.1	4.1		5.0	4.9	5.0	
					Middle	27.4	27.5	27.5	26.6	26.5	26.6	4.9	4.9	4.9	72.0	71.7	71.9	3.9	3.9	3.9	4.0	4.8	5.0	4.9	5.0
					Bottom	27.2	27.3	27.3	27.0	27.0	27.0	4.5	4.5	4.5	66.6	65.7	66.2	4.0	3.9	3.9		5.2	5.0	5.1	
E9	1737-1754	18.8	W	0.4	*Surface*	27.8	27.7	27.8	26.7	26.7	26.7	5.4	5.4	5.4	79.5	79.2	79.4	3.9	3.8	3.9		4.8	4.8	4.8	
					Middle	27.5	27.5	27.5	27.0	27.0	27.0	5.1	5.1	5.1	74.4	74.9	74.7	4.0	3.9	4.0	4.0	5.0	4.7	4.9	5.0
					Bottom	27.4	27.3	27.4	27.3	27.2	27.3	4.7	4.7	4.7	69.5	69.1	69.3	4.0	4.1	4.1		5.1	5.3	5.2	
S2	1800-1818	10.8	W	0.5	*Surface*	27.7	27.7	27.7	26.7	26.6	26.7	5.1	5.1	5.1	75.1	74.7	74.9	3.8	3.7	3.8		4.7	4.6	4.7	
					Middle	27.4	27.5	27.5	26.9	27.0	27.0	5.2	5.2	5.2	75.9	76.3	76.1	3.9	4.0	3.9	3.9	4.9	4.9	4.9	4.9
					Bottom	27.3	27.3	27.3	27.1	27.2	27.2	4.9	4.8	4.8	71.2	70.6	70.9	4.1	4.1	4.1		5.1	5.2	5.2	
G2	1823-1841	13.6	W	0.3	*Surface*	27.7	27.8	27.8	26.6	26.6	26.6	5.2	5.2	5.2	76.9	76.4	76.7	3.7	3.6	3.6		4.1	4.3	4.2	
					Middle	27.6	27.5	27.6	26.8	26.9	26.9	5.0	5.0	5.0	72.6	73.4	73.0	4.0	4.0	4.0	3.9	5.1	5.0	5.1	4.8
					Bottom	27.3	27.2	27.3	27.1	27.1	27.1	4.7	4.7	4.7	68.9	69.1	69.0	4.2	4.1	4.1		5.1	5.4	5.3	
S3	1847-1903	10.8	W	0.1	*Surface*	27.7	27.6	27.7	26.6	26.5	26.6	4.9	5.0	4.9	72.2	73.1	72.7	4.0	4.0	4.0		4.6	4.8	4.7	
					Middle	27.5	27.6	27.6	26.7	26.7	26.7	4.9	4.8	4.9	71.7	71.1	71.4	4.2	4.2	4.2	4.1	5.2	5.0	5.1	5.0
					Bottom	27.4	27.3	27.4	26.9	27.0	27.0	4.6	4.6	4.6	66.8	67.8	67.3	4.3	4.3	4.3		4.9	5.2	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C16 Impact Water Quality Monitoring Results during Forth Round Monitoring on 10 October 2012

Date:	10-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1905-1924	37.8	W	0.5	*Surface*	27.6	27.6	27.6	26.3	26.4	26.4	5.4	5.3	5.3	78.8	78.2	78.5	3.9	3.9	3.9		5.0	5.0	5.0	
					Middle	27.4	27.4	27.4	26.4	26.5	26.5	5.3	5.2	5.3	77.6	76.7	77.2	3.5	3.6	3.6	3.7	4.2	4.5	4.4	4.5
					Bottom	27.3	27.2	27.3	26.8	26.7	26.8	5.0	5.0	5.0	73.8	74.1	74.0	3.6	3.7	3.7		4.1	4.3	4.2	
E8	1928-1946	20.8	W	0.3	*Surface*	27.7	27.6	27.7	26.4	26.5	26.5	5.3	5.3	5.3	77.3	77.2	77.3	3.8	3.7	3.8		4.3	4.4	4.4	
					Middle	27.5	27.4	27.5	26.5	26.6	26.6	5.1	5.2	5.2	75.4	75.9	75.7	3.8	3.8	3.8	3.9	4.8	4.6	4.7	4.7
					Bottom	27.3	27.3	27.3	27.0	27.0	27.0	4.9	4.9	4.9	72.0	72.6	72.3	4.0	4.0	4.0		4.9	5.0	5.0	
S1	1953-2010	10.6	W	0.3	*Surface*	27.8	27.7	27.8	26.5	26.4	26.5	5.4	5.4	5.4	79.2	78.8	79.0	3.5	3.5	3.5		4.1	4.2	4.2	
					Middle	27.6	27.5	27.6	26.7	26.6	26.7	5.2	5.2	5.2	76.1	76.3	76.2	3.5	3.4	3.5	3.6	3.7	4.0	3.9	4.1
					Bottom	27.4	27.3	27.4	27.1	27.0	27.1	4.6	4.7	4.7	68.1	69.1	68.6	3.7	3.7	3.7		4.3	4.2	4.3	
G1	2014-2031	11.8	W	0.4	*Surface*	27.7	27.6	27.7	26.3	26.3	26.3	5.3	5.2	5.3	77.3	77.0	77.2	3.4	3.4	3.4		4.0	3.8	3.9	
					Middle	27.6	27.5	27.6	26.7	26.7	26.7	5.0	5.1	5.0	73.9	74.4	74.2	3.7	3.7	3.7	3.7	4.6	4.2	4.4	4.5
					Bottom	27.4	27.3	27.4	27.1	27.0	27.1	4.7	4.8	4.8	69.4	70.4	69.9	4.0	4.1	4.0		5.1	5.2	5.2	
E7	2034-2051	13.0	W	0.3	*Surface*	27.8	27.7	27.8	26.3	26.3	26.3	5.3	5.4	5.3	78.1	78.8	78.5	3.4	3.4	3.4		4.3	3.8	4.1	
					Middle	27.5	27.4	27.5	26.7	26.6	26.7	5.2	5.2	5.2	76.3	75.7	76.0	3.7	3.7	3.7	3.7	4.2	4.4	4.3	4.4
					Bottom	27.4	27.3	27.4	27.0	27.0	27.0	4.9	4.9	4.9	71.9	71.4	71.7	3.9	4.0	3.9		4.9	4.6	4.8	
F1	2054-2110	12.2	W	0.3	*Surface*	27.7	27.6	27.7	26.4	26.4	26.4	5.2	5.2	5.2	76.4	75.9	76.2	3.3	3.3	3.3		3.6	3.8	3.7	
					Middle	27.4	27.5	27.5	26.6	26.6	26.6	5.0	5.0	5.0	73.8	74.1	74.0	3.4	3.5	3.4	3.5	4.0	4.1	4.1	4.2
					Bottom	27.4	27.4	27.4	27.0	27.1	27.1	4.9	4.9	4.9	72.6	72.3	72.5	3.8	3.8	3.8		4.7	4.9	4.8	
G3	2115-2132	15.6	W	0.5	*Surface*	27.7	27.7	27.7	26.4	26.3	26.4	5.1	5.1	5.1	74.8	75.4	75.1	3.9	3.9	3.9		4.9	4.5	4.7	
					Middle	27.5	27.4	27.5	26.5	26.6	26.6	4.9	5.0	5.0	72.6	73.2	72.9	4.0	4.0	4.0	4.0	5.0	5.0	5.0	4.9
					Bottom	27.3	27.2	27.3	27.0	27.0	27.0	4.7	4.8	4.8	69.5	70.6	70.1	4.1	4.1	4.1		5.0	5.2	5.1	
E9	2138-2155	19.2	W	0.3	*Surface*	27.7	27.7	27.7	26.8	26.9	26.9	5.4	5.3	5.3	78.6	77.9	78.3	3.7	3.8	3.8		4.4	4.7	4.6	
					Middle	27.6	27.6	27.6	26.9	26.8	26.9	5.2	5.1	5.1	75.9	75.3	75.6	3.9	3.8	3.9	3.9	4.9	4.7	4.8	4.8
					Bottom	27.5	27.4	27.5	27.2	27.1	27.2	4.9	5.0	5.0	72.6	73.1	72.9	4.0	4.0	4.0		5.0	5.3	5.2	
S2	2201-2219	11.0	W	0.4	*Surface*	27.8	27.7	27.8	26.6	26.6	26.6	5.2	5.2	5.2	76.4	77.0	76.7	3.6	3.6	3.6		3.9	4.0	4.0	
					Middle	27.5	27.6	27.6	26.8	26.7	26.8	5.1	5.1	5.1	74.5	75.1	74.8	3.9	3.9	3.9	3.9	4.6	4.4	4.5	4.5
					Bottom	27.4	27.3	27.4	27.0	27.1	27.1	4.9	4.9	4.9	72.0	72.5	72.3	4.1	4.1	4.1		4.9	5.3	5.1	
G2	2224-2242	14.0	W	0.3	*Surface*	27.7	27.8	27.8	26.7	26.6	26.7	5.2	5.2	5.2	76.1	76.4	76.3	3.7	3.7	3.7		4.0	4.2	4.1	
					Middle	27.6	27.5	27.6	26.9	27.0	27.0	5.0	5.0	5.0	73.4	72.8	73.1	4.0	3.9	3.9	3.9	4.8	4.9	4.9	4.7
					Bottom	27.4	27.4	27.4	27.2	27.1	27.2	4.7	4.8	4.8	69.5	70.3	69.9	4.1	4.1	4.1		5.0	5.0	5.0	
S3	2248-2304	11.2	W	0.2	*Surface*	27.8	27.7	27.8	26.7	26.7	26.7	5.1	5.1	5.1	74.4	75.1	74.8	4.0	4.0	4.0		4.4	4.7	4.6	
					Middle	27.7	27.6	27.7	26.8	26.8	26.8	4.9	4.9	4.9	72.6	72.0	72.3	4.1	4.1	4.1	4.1	5.0	4.8	4.9	4.8
					Bottom	27.3	27.4	27.4	27.0	27.1	27.1	4.7	4.8	4.7	69.1	70.3	69.7	4.2	4.2	4.2		4.9	5.2	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C17 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 1 (07:00), 10 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.47	5.24
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.84	5.68
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	Y	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	Y	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 2 (11;00), 10 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.44	5.30
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.81	5.74
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C18 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 3 (15:00), 10 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.38	5.06
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.74	5.48
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 4 (19:00), 10 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.45	5.42
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.82	5.87
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C19 Impact Water Quality Monitoring Results during First Round Monitoring on 11 October 2012

Date:	11-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0716	35.4	E	0.4	*Surface*	27.3	27.3	27.3	26.3	26.3	26.3	5.5	5.5	5.5	80.1	79.8	80.0	4.2	4.2	4.2		4.6	4.9	4.8	
					Middle	27.4	27.4	27.4	26.4	26.4	26.4	5.8	5.7	5.8	83.7	83.6	83.7	3.8	3.8	3.8	3.9	3.6	3.7	3.7	4.2
					Bottom	27.4	27.4	27.4	26.4	26.4	26.4	5.7	5.7	5.7	84.0	83.2	83.6	3.6	3.7	3.7		4.0	4.2	4.1	
E8	0721-0737	19.5	E	0.3	*Surface*	27.3	27.3	27.3	26.5	26.5	26.5	5.7	5.7	5.7	82.5	82.7	82.6	3.8	3.9	3.9		4.3	4.7	4.5	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.7	5.7	5.7	83.3	84.0	83.7	4.1	4.0	4.1	4.0	4.8	5.1	5.0	4.9
					Bottom	27.4	27.4	27.4	26.6	26.7	26.7	5.9	5.9	5.9	86.0	86.3	86.2	4.2	4.2	4.2		5.2	5.3	5.3	
S1	0745-0803	8.9	E	0.4	*Surface*	27.3	27.3	27.3	26.4	26.4	26.4	5.4	5.3	5.4	78.5	78.2	78.4	3.8	3.9	3.8		4.9	4.8	4.9	
					Middle	27.4	27.4	27.4	26.5	26.5	26.5	5.2	5.1	5.1	75.8	75.4	75.6	3.5	3.4	3.4	3.5	4.3	4.4	4.4	4.6
					Bottom	27.4	27.4	27.4	26.5	26.6	26.6	5.1	5.0	5.1	74.6	73.9	74.3	3.2	3.3	3.3		4.6	4.7	4.7	
G1	0808-0824	11.1	E	0.3	*Surface*	27.3	27.3	27.3	26.4	26.4	26.4	5.1	5.1	5.1	75.2	74.6	74.9	3.7	3.5	3.6		3.9	3.8	3.9	
					Middle	27.4	27.4	27.4	26.6	26.6	26.6	5.0	4.9	4.9	72.9	72.4	72.7	3.8	3.9	3.9	3.8	4.4	4.5	4.5	4.5
					Bottom	27.4	27.4	27.4	26.7	26.7	26.7	4.9	4.9	4.9	71.5	71.2	71.4	4.0	4.1	4.1		5.2	5.4	5.3	
E7	0828-0844	12.2	E	0.4	*Surface*	27.3	27.3	27.3	26.6	26.6	26.6	5.2	5.1	5.1	75.8	74.5	75.2	3.4	3.3	3.4		4.2	4.4	4.3	
					Middle	27.4	27.4	27.4	26.7	26.7	26.7	5.0	5.0	5.0	73.3	72.9	73.1	3.6	3.6	3.6	3.6	4.8	5.0	4.9	4.9
					Bottom	27.4	27.4	27.4	26.8	26.8	26.8	4.8	4.8	4.8	70.8	70.5	70.7	3.8	3.8	3.8		5.5	5.3	5.4	
F1	0849-0907	11.1	E	0.6	*Surface*	27.3	27.3	27.3	26.4	26.4	26.4	5.3	5.3	5.3	78.2	77.3	77.8	3.6	3.6	3.6		3.9	4.2	4.1	
					Middle	27.3	27.4	27.4	26.5	26.5	26.5	5.0	5.0	5.0	73.9	73.0	73.5	3.9	3.9	3.9	3.9	4.0	4.1	4.1	4.1
					Bottom	27.4	27.4	27.4	26.6	26.6	26.6	4.6	4.6	4.6	68.1	67.6	67.9	4.1	4.1	4.1		4.3	4.3	4.3	
G3	0911-0927	14.6	E	0.3	*Surface*	27.4	27.4	27.4	26.3	26.4	26.4	5.1	5.1	5.1	74.6	74.2	74.4	3.9	3.9	3.9		4.0	3.9	4.0	
					Middle	27.4	27.4	27.4	26.6	26.6	26.6	4.9	4.9	4.9	72.3	71.7	72.0	4.2	4.4	4.3	4.1	4.3	4.4	4.4	4.4
					Bottom	27.4	27.4	27.4	26.8	26.8	26.8	4.5	4.3	4.4	65.7	63.5	64.6	4.3	4.0	4.1		5.0	4.8	4.9	
E9	0932-0948	18.3	E	0.5	*Surface*	27.5	27.5	27.5	26.6	26.6	26.6	5.1	5.0	5.0	74.3	73.7	74.0	3.9	3.8	3.8		4.5	4.4	4.5	
					Middle	27.5	27.5	27.5	26.8	26.8	26.8	4.8	4.8	4.8	71.0	70.4	70.7	3.7	3.7	3.7	3.9	4.1	4.2	4.2	4.7
					Bottom	27.4	27.4	27.4	27.0	27.0	27.0	4.4	4.4	4.4	64.8	64.2	64.5	4.0	4.1	4.1		5.2	5.5	5.4	
S2	0954-1012	10.1	E	0.3	*Surface*	27.5	27.5	27.5	26.4	26.4	26.4	5.0	5.0	5.0	73.2	72.9	73.1	4.0	3.9	4.0		5.0	4.9	5.0	
					Middle	27.5	27.5	27.5	26.5	26.5	26.5	4.7	4.7	4.7	69.3	69.2	69.3	4.2	4.2	4.2	4.1	4.7	4.9	4.8	5.0
					Bottom	27.4	27.4	27.4	26.6	26.7	26.7	4.5	4.5	4.5	66.1	65.7	65.9	4.3	4.3	4.3		5.1	5.3	5.2	
G2	1018-1036	13.0	E	0.4	*Surface*	27.5	27.4	27.5	26.6	26.6	26.6	5.1	5.1	5.1	75.1	74.6	74.9	3.9	3.7	3.8		4.8	4.7	4.8	
					Middle	27.5	27.4	27.5	26.8	26.8	26.8	5.0	4.9	4.9	72.9	72.3	72.6	4.0	4.1	4.0	4.0	3.9	4.2	4.1	4.4
					Bottom	27.4	27.4	27.4	26.9	27.0	27.0	4.7	4.7	4.7	69.2	69.2	69.2	4.0	4.1	4.1		4.3	4.6	4.5	
S3	1042-1100	10.3	E	0.4	*Surface*	27.5	27.5	27.5	26.6	26.6	26.6	5.1	5.1	5.1	75.5	74.5	75.0	3.8	3.8	3.8		4.0	4.3	4.2	
					Middle	27.5	27.5	27.5	26.8	26.8	26.8	4.9	4.8	4.8	71.4	70.8	71.1	4.2	4.1	4.1	4.1	4.8	5.0	4.9	4.6
					Bottom	27.4	27.4	27.4	27.0	27.0	27.0	4.6	4.4	4.5	70.0	65.1	67.6	4.5	4.4	4.4		4.8	4.8	4.8	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C20 Impact Water Quality Monitoring Results during Second Round Monitoring on 11 October 2012

Date:	11-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1105-1122	35.8	E	0.3	*Surface*	27.4	27.4	27.4	26.4	26.4	26.4	5.4	5.3	5.4	78.7	78.3	78.5	4.0	4.1	4.1		5.0	5.1	5.1	
					Middle	27.4	27.4	27.4	26.6	26.6	26.6	5.4	5.4	5.4	79.2	79.6	79.4	3.9	3.8	3.9	3.9	4.4	4.5	4.5	4.8
					Bottom	27.3	27.3	27.3	26.8	26.8	26.8	5.3	5.3	5.3	77.8	77.2	77.5	3.9	3.9	3.9		4.8	5.0	4.9	
E8	1127-1144	19.8	E	0.4	*Surface*	27.4	27.4	27.4	26.5	26.5	26.5	5.4	5.4	5.4	79.8	79.1	79.5	3.9	3.9	3.9		4.6	4.9	4.8	
					Middle	27.4	27.4	27.4	26.5	26.4	26.5	5.3	5.2	5.3	77.2	76.7	77.0	3.9	3.9	3.9	4.0	4.8	4.9	4.9	4.9
					Bottom	27.4	27.3	27.4	26.6	26.7	26.7	5.2	5.1	5.1	75.4	74.7	75.1	4.0	4.1	4.0		5.2	5.2	5.2	
S1	1152-1209	9.2	E	0.2	*Surface*	27.5	27.4	27.5	26.5	26.5	26.5	5.2	5.2	5.2	76.3	75.9	76.1	3.7	3.8	3.7		4.2	4.1	4.2	
					Middle	27.4	27.4	27.4	26.6	26.6	26.6	5.0	5.1	5.1	73.8	74.2	74.0	3.5	3.6	3.6	3.6	3.7	3.5	3.6	3.9
					Bottom	27.3	27.3	27.3	26.7	26.7	26.7	5.0	4.9	4.9	72.8	72.1	72.5	3.6	3.7	3.6		4.0	3.9	4.0	
G1	1213-1230	11.6	E	0.2	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.1	5.1	5.1	75.0	74.3	74.7	3.8	3.7	3.8		4.3	4.0	4.2	
					Middle	27.4	27.4	27.4	26.7	26.7	26.7	5.1	5.1	5.1	74.0	74.4	74.2	3.9	4.0	3.9	3.8	4.4	4.5	4.5	4.3
					Bottom	27.4	27.4	27.4	26.8	26.7	26.8	5.0	4.9	5.0	72.9	72.3	72.6	3.8	3.8	3.8		4.4	4.2	4.3	
E7	1234-1251	12.4	E	0.4	*Surface*	27.6	27.5	27.6	26.4	26.4	26.4	5.1	5.1	5.1	74.6	74.1	74.4	3.6	3.6	3.6		3.7	3.9	3.8	
					Middle	27.5	27.4	27.5	26.6	26.7	26.7	5.0	5.0	5.0	73.1	72.5	72.8	3.9	4.0	3.9	3.8	4.5	4.8	4.7	4.3
					Bottom	27.4	27.4	27.4	26.7	26.7	26.7	4.9	4.9	4.9	71.7	72.2	72.0	3.8	3.8	3.8		4.6	4.5	4.6	
F1	1258-1315	11.4	E	0.3	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.6	5.6	5.6	82.7	82.1	82.4	3.6	3.6	3.6		4.0	3.9	4.0	
					Middle	27.4	27.4	27.4	26.7	26.7	26.7	5.2	5.1	5.2	75.7	75.3	75.5	4.0	4.1	4.0	3.8	5.1	4.8	5.0	4.6
					Bottom	27.3	27.3	27.3	26.7	26.7	26.7	5.1	5.1	5.1	74.6	74.1	74.4	3.9	3.9	3.9		4.7	5.0	4.9	
G3	1320-1337	14.4	E	0.3	*Surface*	27.6	27.6	27.6	26.5	26.5	26.5	5.7	5.7	5.7	83.6	84.2	83.9	3.7	3.6	3.6		4.1	4.2	4.2	
					Middle	27.4	27.5	27.5	26.7	26.6	26.7	5.2	5.2	5.2	76.5	75.9	76.2	3.9	3.8	3.9	3.8	4.8	5.0	4.9	4.7
					Bottom	27.3	27.4	27.4	26.7	26.7	26.7	5.2	5.2	5.2	75.9	75.4	75.7	4.0	3.9	3.9		5.0	5.2	5.1	
E9	1342-1358	18.6	E	0.3	*Surface*	27.4	27.3	27.4	26.4	26.5	26.5	5.1	5.0	5.0	74.3	73.5	73.9	4.0	4.1	4.0		5.1	5.0	5.1	
					Middle	27.4	27.5	27.5	26.6	26.7	26.7	4.9	4.9	4.9	71.3	72.0	71.7	3.9	3.9	3.9	4.0	4.8	4.7	4.8	4.9
					Bottom	27.3	27.3	27.3	26.7	26.7	26.7	4.9	5.0	4.9	72.0	72.5	72.3	3.9	4.0	3.9		4.7	4.9	4.8	
S2	1404-1420	10.4	E	0.2	*Surface*	27.5	27.4	27.5	26.5	26.5	26.5	4.9	5.0	4.9	72.0	72.6	72.3	4.3	4.2	4.2		5.3	5.4	5.4	
					Middle	27.4	27.5	27.5	26.6	26.6	26.6	4.6	4.6	4.6	67.2	67.8	67.5	4.1	4.1	4.1	4.1	5.2	5.4	5.3	5.1
					Bottom	27.3	27.3	27.3	26.7	26.7	26.7	4.7	4.6	4.7	68.2	67.9	68.1	4.0	3.9	3.9		4.4	4.7	4.6	
G2	1427-1443	13.2	E	0.2	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	4.9	4.8	4.9	71.3	72.9	72.1	4.1	4.1	4.1		5.2	5.0	5.1	
					Middle	27.3	27.3	27.3	26.5	26.5	26.5	4.6	4.6	4.6	67.9	67.3	67.6	4.2	4.2	4.2	4.1	4.9	5.3	5.1	5.0
					Bottom	27.3	27.3	27.3	26.7	26.7	26.7	4.7	4.7	4.7	68.8	69.2	69.0	4.0	3.9	3.9		4.8	5.0	4.9	
S3	1448-1500	10.8	E	0.2	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.0	5.0	5.0	73.1	72.5	72.8	4.0	3.9	4.0		4.8	4.6	4.7	
					Middle	27.3	27.3	27.3	26.6	26.6	26.6	4.8	4.8	4.8	70.4	70.0	70.2	4.1	4.0	4.0	4.0	4.9	4.7	4.8	4.9
					Bottom	27.2	27.3	27.3	26.7	26.7	26.7	4.7	4.8	4.7	69.1	69.5	69.3	4.2	4.1	4.1		5.0	5.2	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C21 Impact Water Quality Monitoring Results during Third Round Monitoring on 11 October 2012

Date:	11-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1508-1524	36.0	W	0.4	*Surface*	27.4	27.4	27.4	26.4	26.4	26.4	5.6	5.7	5.7	82.2	82.7	82.5	4.0	4.1	4.0		4.8	5.0	4.9	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.8	5.8	5.8	84.4	85.0	84.7	3.4	3.4	3.4	3.8	3.5	3.7	3.6	4.3
					Bottom	27.3	27.4	27.4	26.6	26.7	26.7	5.7	5.8	5.7	83.3	83.8	83.6	3.9	3.8	3.8		4.3	4.4	4.4	
E8	1530-1547	20.2	W	0.4	*Surface*	27.4	27.3	27.4	26.6	26.5	26.6	5.7	5.7	5.7	83.7	83.1	83.4	4.0	4.0	4.0		4.9	5.2	5.1	
					Middle	27.4	27.4	27.4	26.6	26.5	26.6	5.8	5.8	5.8	84.1	84.7	84.4	4.2	4.2	4.2	4.2	5.3	5.1	5.2	5.2
					Bottom	27.4	27.4	27.4	26.7	26.7	26.7	5.9	5.9	5.9	85.9	85.4	85.7	4.4	4.5	4.4		5.5	5.4	5.5	
S1	1555-1610	9.8	W	0.3	*Surface*	27.4	27.4	27.4	26.4	26.4	26.4	5.4	5.5	5.5	79.3	80.0	79.7	4.0	4.0	4.0		4.8	4.9	4.9	
					Middle	27.4	27.4	27.4	26.4	26.4	26.4	5.2	5.2	5.2	75.2	75.9	75.6	3.6	3.6	3.6	3.8	3.9	4.3	4.1	4.4
					Bottom	27.4	27.4	27.4	26.8	26.7	26.8	4.4	4.5	4.4	64.4	65.2	64.8	3.9	3.8	3.8		4.1	4.2	4.2	
G1	1615-1632	11.8	W	0.3	*Surface*	27.4	27.4	27.4	26.6	26.6	26.6	5.4	5.4	5.4	78.3	78.9	78.6	3.5	3.4	3.5		3.8	3.8	3.8	
					Middle	27.4	27.4	27.4	26.6	26.7	26.7	5.2	5.3	5.3	76.4	77.1	76.8	3.7	3.8	3.7	3.7	4.2	4.5	4.4	4.4
					Bottom	27.4	27.4	27.4	26.8	26.7	26.8	4.4	4.4	4.4	64.7	64.0	64.4	4.0	4.0	4.0		4.9	5.1	5.0	
E7	1636-1652	12.8	W	0.4	*Surface*	27.4	27.5	27.5	26.5	26.4	26.5	5.4	5.4	5.4	78.7	79.3	79.0	3.5	3.6	3.5		3.6	3.9	3.8	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.3	5.3	5.3	77.6	76.8	77.2	3.8	3.9	3.8	3.8	4.0	4.2	4.1	4.3
					Bottom	27.4	27.3	27.4	26.8	26.9	26.9	4.6	4.7	4.7	67.7	68.2	68.0	4.1	4.2	4.2		4.8	5.0	4.9	
F1	1700-1716	12.0	W	0.5	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.2	5.2	5.2	75.2	76.0	75.6	3.6	3.7	3.7		4.1	4.0	4.1	
					Middle	27.5	27.4	27.5	26.5	26.5	26.5	4.9	5.0	5.0	72.1	73.0	72.6	3.7	3.8	3.7	3.8	4.6	4.8	4.7	4.6
					Bottom	27.4	27.4	27.4	26.7	26.8	26.8	4.5	4.6	4.5	65.9	66.6	66.3	3.9	4.0	4.0		5.0	5.1	5.1	
G3	1723-1740	15.6	W	0.5	*Surface*	27.4	27.5	27.5	26.5	26.5	26.5	5.2	5.3	5.3	76.4	76.8	76.6	3.9	3.9	3.9		4.6	4.9	4.8	
					Middle	27.4	27.4	27.4	26.7	26.7	26.7	4.9	5.0	4.9	71.6	72.3	72.0	3.7	3.6	3.7	3.9	4.0	3.8	3.9	4.5
					Bottom	27.4	27.3	27.4	26.9	26.9	26.9	4.5	4.5	4.5	65.2	66.0	65.6	4.0	4.0	4.0		4.8	5.1	5.0	
E9	1747-1803	20.0	W	0.4	*Surface*	27.5	27.5	27.5	26.7	26.7	26.7	5.4	5.5	5.4	79.2	79.6	79.4	4.0	4.0	4.0		5.0	4.8	4.9	
					Middle	27.5	27.5	27.5	27.1	27.1	27.1	5.2	5.2	5.2	75.2	75.8	75.5	3.7	3.7	3.7	4.0	4.2	4.1	4.2	4.7
					Bottom	27.4	27.4	27.4	27.3	27.3	27.3	4.4	4.3	4.3	63.6	62.8	63.2	4.2	4.2	4.2		5.1	4.8	5.0	
S2	1810-1827	10.8	W	0.4	*Surface*	27.4	27.5	27.5	26.7	26.8	26.8	5.2	5.2	5.2	75.5	75.1	75.3	3.9	4.0	4.0		4.4	4.6	4.5	
					Middle	27.4	27.4	27.4	26.9	26.9	26.9	4.9	4.9	4.9	71.9	71.2	71.6	3.8	3.8	3.8	4.0	4.7	4.9	4.8	4.6
					Bottom	27.4	27.4	27.4	27.1	27.0	27.1	4.7	4.7	4.7	68.1	68.5	68.3	4.1	4.1	4.1		4.4	4.8	4.6	
G2	1830-1847	13.8	W	0.5	*Surface*	27.5	27.5	27.5	26.6	26.7	26.7	5.1	5.1	5.1	74.2	74.6	74.4	3.9	3.9	3.9		4.6	4.8	4.7	
					Middle	27.5	27.5	27.5	26.9	26.9	26.9	4.9	5.0	4.9	71.4	72.2	71.8	4.0	4.0	4.0	4.0	5.1	5.3	5.2	4.9
					Bottom	27.4	27.4	27.4	27.1	27.1	27.1	4.6	4.6	4.6	67.2	67.7	67.5	4.2	4.1	4.1		4.8	5.0	4.9	
S3	1851-1906	11.2	W	0.4	*Surface*	27.4	27.5	27.5	26.5	26.6	26.6	4.9	4.8	4.8	71.0	70.3	70.7	3.7	3.8	3.8		4.2	4.4	4.3	
					Middle	27.5	27.5	27.5	26.7	26.8	26.8	4.6	4.6	4.6	66.3	66.9	66.6	4.0	4.0	4.0	4.0	5.2	5.3	5.3	4.9
					Bottom	27.5	27.4	27.5	26.8	26.9	26.9	4.3	4.4	4.4	63.3	63.9	63.6	4.2	4.2	4.2		4.8	5.2	5.0	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C22 Impact Water Quality Monitoring Results during Forth Round Monitoring on 11 October 2012

Date:	11-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1910-1926	36.4	W	0.3	*Surface*	27.4	27.3	27.4	26.4	26.5	26.5	5.6	5.6	5.6	81.2	81.9	81.6	3.9	3.9	3.9		4.4	4.3	4.4	
					Middle	27.3	27.3	27.3	26.6	26.6	26.6	5.7	5.7	5.7	83.1	82.7	82.9	3.5	3.5	3.5	3.8	4.1	3.9	4.0	4.0
					Bottom	27.3	27.2	27.3	26.7	26.7	26.7	5.6	5.6	5.6	81.6	81.2	81.4	4.0	4.0	4.0		3.7	3.4	3.6	
E8	1931-1947	20.4	W	0.3	*Surface*	27.3	27.3	27.3	26.5	26.5	26.5	5.7	5.7	5.7	82.8	83.3	83.1	3.8	3.8	3.8		4.8	4.6	4.7	
					Middle	27.3	27.3	27.3	26.5	26.5	26.5	5.7	5.8	5.7	83.5	83.9	83.7	3.9	4.0	3.9	4.0	5.1	4.8	5.0	4.7
					Bottom	27.3	27.3	27.3	26.6	26.7	26.7	5.8	5.8	5.8	84.7	85.1	84.9	4.1	4.2	4.2		4.6	4.5	4.6	
S1	1954-2012	9.6	W	0.2	*Surface*	27.3	27.3	27.3	26.4	26.4	26.4	5.4	5.4	5.4	79.0	78.4	78.7	3.8	3.9	3.8		4.3	3.9	4.1	
					Middle	27.3	27.3	27.3	26.4	26.5	26.5	5.2	5.3	5.3	76.3	76.8	76.6	3.7	3.7	3.7	3.8	3.7	3.9	3.8	3.9
					Bottom	27.3	27.3	27.3	26.8	26.7	26.8	4.5	4.6	4.5	65.7	66.5	66.1	3.9	4.0	3.9		3.5	3.8	3.7	
G1	2017-2032	11.8	W	0.2	*Surface*	27.4	27.3	27.4	26.5	26.6	26.6	5.5	5.4	5.5	79.9	79.3	79.6	3.6	3.7	3.6		4.0	4.0	4.0	
					Middle	27.4	27.4	27.4	26.6	26.6	26.6	5.2	5.2	5.2	76.3	75.7	76.0	3.8	3.9	3.8	3.9	4.2	4.5	4.4	4.5
					Bottom	27.4	27.4	27.4	26.7	26.7	26.7	4.5	4.5	4.5	65.0	65.6	65.3	4.1	4.2	4.2		5.1	4.9	5.0	
E7	2037-2054	12.6	W	0.2	*Surface*	27.3	27.3	27.3	26.5	26.5	26.5	5.4	5.4	5.4	78.8	78.4	78.6	3.7	3.7	3.7		3.7	3.6	3.7	
					Middle	27.3	27.4	27.4	26.6	26.6	26.6	5.3	5.3	5.3	77.4	77.7	77.6	3.9	3.9	3.9	3.8	3.9	3.5	3.7	4.0
					Bottom	27.3	27.3	27.3	26.8	26.7	26.8	4.6	4.6	4.6	67.1	66.5	66.8	3.9	3.9	3.9		4.5	4.6	4.6	
F1	2103-2120	12.2	W	0.3	*Surface*	27.4	27.3	27.4	26.5	26.5	26.5	5.2	5.3	5.3	76.4	77.1	76.8	3.5	3.5	3.5		4.1	4.0	4.1	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.0	5.1	5.1	73.3	73.9	73.6	3.6	3.7	3.7	3.7	4.9	4.7	4.8	4.6
					Bottom	27.3	27.3	27.3	26.7	26.8	26.8	4.6	4.6	4.6	67.1	66.5	66.8	3.9	3.9	3.9		4.9	5.2	5.1	
G3	2126-2142	15.8	W	0.4	*Surface*	27.3	27.3	27.3	26.5	26.6	26.6	5.2	5.3	5.2	76.1	76.5	76.3	3.6	3.6	3.6		5.0	5.3	5.2	
					Middle	27.3	27.3	27.3	26.7	26.7	26.7	5.0	5.0	5.0	73.2	72.5	72.9	3.7	3.8	3.7	3.8	4.8	5.0	4.9	5.1
					Bottom	27.3	27.2	27.3	26.9	26.9	26.9	4.6	4.6	4.6	66.3	66.8	66.6	4.1	4.0	4.0		5.2	5.2	5.2	
E9	2146-2202	20.2	W	0.3	*Surface*	27.4	27.3	27.4	26.7	26.7	26.7	5.5	5.5	5.5	79.8	80.3	80.1	4.1	4.1	4.1		4.4	4.7	4.6	
					Middle	27.4	27.4	27.4	27.0	27.1	27.1	5.2	5.3	5.2	76.0	76.7	76.4	3.8	3.9	3.9	4.1	3.9	4.1	4.0	4.4
					Bottom	27.3	27.3	27.3	27.2	27.3	27.3	4.4	4.4	4.4	64.2	64.7	64.5	4.4	4.4	4.4		4.6	4.9	4.8	
S2	2208-2225	11.0	W	0.2	*Surface*	27.3	27.4	27.4	26.8	26.8	26.8	5.2	5.2	5.2	75.8	75.4	75.6	4.0	4.1	4.1		5.0	5.1	5.1	
					Middle	27.4	27.4	27.4	26.8	26.9	26.9	5.0	5.0	5.0	72.3	72.9	72.6	3.9	4.0	3.9	4.1	5.4	5.7	5.6	5.3
					Bottom	27.4	27.4	27.4	27.0	27.1	27.1	4.6	4.6	4.6	67.7	67.2	67.5	4.2	4.2	4.2		5.2	5.3	5.3	
G2	2229-2245	13.8	W	0.3	*Surface*	27.4	27.4	27.4	26.7	26.7	26.7	5.2	5.3	5.3	76.3	76.8	76.6	3.9	3.9	3.9		4.4	4.4	4.4	
					Middle	27.4	27.4	27.4	26.8	26.9	26.9	4.9	4.9	4.9	71.9	71.4	71.7	3.7	3.7	3.7	3.9	4.9	5.2	5.1	4.7
					Bottom	27.4	27.3	27.4	27.0	27.1	27.1	4.7	4.6	4.6	68.2	66.9	67.6	4.0	4.0	4.0		4.6	4.8	4.7	
S3	2249-2304	11.4	W	0.2	*Surface*	27.4	27.3	27.4	26.6	26.6	26.6	4.9	5.0	4.9	71.6	72.2	71.9	3.7	3.7	3.7		4.4	4.6	4.5	
					Middle	27.3	27.3	27.3	26.6	26.7	26.7	4.6	4.7	4.7	67.5	68.1	67.8	3.8	3.8	3.8	3.8	4.8	5.1	5.0	5.0
					Bottom	27.3	27.3	27.3	26.7	26.8	26.8	4.5	4.4	4.4	64.9	64.3	64.6	3.9	3.9	3.9		5.5	5.8	5.7	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C23 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 1 (07:00), 11 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.67	5.00
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	5.06	5.42
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 2 (11;00), 11 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.73	5.76
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	5.12	6.24
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C24 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 3 (15:00), 11 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.52	5.14
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.89	5.57
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	Y	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 4 (19:00), 11 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.56	5.00
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.94	5.42
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C25 Impact Water Quality Monitoring Results during First Round Monitoring on 12 October 2012

Date:	12-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0718	36.0	E	0.5	*Surface*	27.4	27.5	27.5	26.4	26.4	26.4	5.4	5.4	5.4	78.5	78.8	78.7	4.1	4.1	4.1		5.0	4.8	4.9	
					Middle	27.4	27.3	27.4	26.5	26.5	26.5	5.3	5.2	5.3	77.4	76.5	77.0	3.6	3.6	3.6	3.8	3.9	3.7	3.8	4.3
					Bottom	27.3	27.3	27.3	26.6	26.7	26.7	5.1	5.1	5.1	74.3	73.9	74.1	3.7	3.7	3.7		4.0	4.1	4.1	
E8	0723-0740	19.6	E	0.4	*Surface*	27.5	27.6	27.6	26.5	26.4	26.5	5.3	5.3	5.3	77.2	77.4	77.3	3.6	3.6	3.6		4.0	4.0	4.0	
					Middle	27.4	27.4	27.4	26.6	26.5	26.6	5.2	5.2	5.2	75.2	75.9	75.6	3.9	3.8	3.8	3.8	4.3	4.5	4.4	4.3
					Bottom	27.4	27.3	27.4	26.8	26.7	26.8	5.0	5.0	5.0	72.3	72.7	72.5	4.0	3.9	4.0		4.6	4.5	4.6	
S1	0748-0805	9.4	E	0.2	*Surface*	27.4	27.5	27.5	26.4	26.4	26.4	5.3	5.2	5.3	77.4	76.5	77.0	3.5	3.4	3.4		4.0	3.7	3.9	
					Middle	27.4	27.5	27.5	26.5	26.6	26.6	5.2	5.2	5.2	75.2	75.5	75.4	3.6	3.5	3.5	3.5	3.6	3.4	3.5	3.7
					Bottom	27.3	27.3	27.3	26.8	26.9	26.9	4.8	4.8	4.8	70.2	69.8	70.0	3.5	3.5	3.5		3.8	3.9	3.9	
G1	0809-0826	11.2	E	0.3	*Surface*	27.5	27.4	27.5	26.4	26.4	26.4	5.1	5.1	5.1	88.9	73.9	81.4	3.4	3.3	3.3		3.9	4.0	4.0	
					Middle	27.4	27.4	27.4	26.6	26.5	26.6	5.0	5.0	5.0	73.4	73.1	73.3	3.7	3.7	3.7	3.7	4.0	4.2	4.1	4.3
					Bottom	27.3	27.4	27.4	26.9	26.8	26.9	4.8	4.7	4.8	70.1	69.2	69.7	4.1	4.2	4.1		4.8	5.1	5.0	
E7	0830-0847	12.4	E	0.2	*Surface*	27.5	27.5	27.5	26.4	26.3	26.4	5.1	5.1	5.1	89.6	74.8	82.2	3.3	3.3	3.3		3.7	3.9	3.8	
					Middle	27.4	27.5	27.5	26.7	26.6	26.7	5.0	5.0	5.0	73.1	73.6	73.4	3.7	3.7	3.7	3.7	4.4	4.3	4.4	4.3
					Bottom	27.4	27.4	27.4	26.8	26.7	26.8	5.0	4.9	4.9	72.4	71.8	72.1	4.0	3.9	4.0		4.8	4.8	4.8	
F1	0854-0910	11.4	E	0.3	*Surface*	27.4	27.4	27.4	26.5	26.4	26.5	5.2	5.2	5.2	75.5	75.9	75.7	3.5	3.5	3.5		3.8	4.1	4.0	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.1	5.0	5.0	73.9	73.3	73.6	3.7	3.7	3.7	3.7	4.2	4.3	4.3	4.3
					Bottom	27.3	27.4	27.4	26.8	26.8	26.8	5.0	5.0	5.0	72.3	72.6	72.5	3.9	3.9	3.9		4.6	4.8	4.7	
G3	0915-0932	14.6	E	0.2	*Surface*	27.5	27.5	27.5	26.4	26.3	26.4	5.0	5.1	5.0	73.3	74.0	73.7	3.9	3.9	3.9		4.3	4.5	4.4	
					Middle	27.5	27.4	27.5	26.4	26.5	26.5	5.0	5.0	5.0	72.7	72.3	72.5	4.0	3.9	3.9	3.9	4.9	4.8	4.9	4.8
					Bottom	27.4	27.4	27.4	26.8	26.7	26.8	4.7	4.7	4.7	68.6	69.1	68.9	4.0	4.1	4.0		5.0	5.2	5.1	
E9	0937-0955	18.4	E	0.4	*Surface*	27.6	27.5	27.6	26.6	26.5	26.6	5.1	5.0	5.1	74.2	73.6	73.9	3.6	3.6	3.6		4.1	4.2	4.2	
					Middle	27.5	27.4	27.5	26.7	26.7	26.7	5.0	5.0	5.0	72.9	72.3	72.6	3.8	3.8	3.8	3.8	4.5	4.7	4.6	4.4
					Bottom	27.4	27.3	27.4	26.7	26.7	26.7	4.8	4.8	4.8	70.5	70.1	70.3	3.9	3.9	3.9		4.2	4.4	4.3	
S2	1001-1018	10.4	E	0.2	*Surface*	27.5	27.4	27.5	26.5	26.4	26.5	5.2	5.2	5.2	75.6	75.9	75.8	3.6	3.6	3.6		4.0	4.3	4.2	
					Middle	27.5	27.5	27.5	26.6	26.7	26.7	4.9	5.0	4.9	77.7	72.6	75.2	3.9	3.9	3.9	3.8	4.8	4.7	4.8	4.6
					Bottom	27.3	27.3	27.3	26.8	26.7	26.8	4.8	4.8	4.8	70.1	69.5	69.8	4.0	3.9	3.9		4.9	5.1	5.0	
G2	1024-1041	13.2	E	0.4	*Surface*	27.5	27.5	27.5	26.6	26.5	26.6	5.1	5.1	5.1	74.6	74.0	74.3	3.7	3.7	3.7		3.9	4.2	4.1	
					Middle	27.4	27.5	27.5	26.6	26.7	26.7	5.0	5.0	5.0	73.6	73.1	73.4	3.9	3.9	3.9	3.8	4.4	4.6	4.5	4.4
					Bottom	27.4	27.4	27.4	26.7	26.6	26.7	4.6	4.7	4.7	67.5	68.5	68.0	3.9	4.0	3.9		4.7	4.8	4.8	
S3	1045-1102	10.6	E	0.3	*Surface*	27.5	27.4	27.5	26.5	26.5	26.5	5.0	5.0	5.0	73.3	73.6	73.5	3.8	3.9	3.9		4.4	4.6	4.5	
					Middle	27.5	27.4	27.5	26.7	26.6	26.7	4.9	4.9	4.9	71.8	71.2	71.5	4.0	4.0	4.0	4.0	5.0	5.0	5.0	4.9
					Bottom	27.4	27.3	27.4	26.8	26.7	26.8	4.5	4.4	4.4	65.6	64.2	64.9	4.1	4.1	4.1		4.9	5.2	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C26 Impact Water Quality Monitoring Results during Second Round Monitoring on 12 October 2012

Date:	12-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1105-1122	36.4	W	0.6	*Surface*	27.5	27.5	27.5	26.4	26.5	26.5	5.4	5.4	5.4	79.6	79.9	79.8	4.0	4.1	4.1		4.8	4.9	4.9	
					Middle	27.4	27.3	27.4	26.5	26.6	26.6	5.3	5.3	5.3	78.2	77.8	78.0	3.6	3.6	3.6	3.8	4.0	3.7	3.9	4.3
					Bottom	27.3	27.2	27.3	26.7	26.8	26.8	5.1	5.1	5.1	75.0	75.3	75.2	3.7	3.7	3.7		4.2	4.3	4.3	
E8	1127-1144	19.8	W	0.4	*Surface*	27.6	27.5	27.6	26.4	26.4	26.4	5.3	5.3	5.3	78.1	78.2	78.2	3.6	3.6	3.6		3.9	4.1	4.0	
					Middle	27.5	27.4	27.5	26.5	26.6	26.6	5.2	5.2	5.2	75.9	76.6	76.3	3.8	3.8	3.8	3.8	4.4	4.4	4.4	4.4
					Bottom	27.4	27.3	27.4	26.7	26.8	26.8	5.0	5.0	5.0	73.1	73.5	73.3	4.0	3.9	3.9		4.8	4.9	4.9	
S1	1151-1208	9.6	W	0.3	*Surface*	27.5	27.4	27.5	26.4	26.4	26.4	5.3	5.3	5.3	78.4	77.5	78.0	3.5	3.4	3.4		4.1	3.7	3.9	
					Middle	27.4	27.3	27.4	26.5	26.6	26.6	5.2	5.2	5.2	76.0	76.5	76.3	3.5	3.5	3.5	3.5	3.8	3.6	3.7	3.8
					Bottom	27.3	27.2	27.3	26.7	26.8	26.8	4.8	4.8	4.8	71.1	70.8	71.0	3.5	3.5	3.5		3.9	3.9	3.9	
G1	1212-1229	11.4	W	0.2	*Surface*	27.6	27.5	27.6	26.3	26.4	26.4	5.1	5.1	5.1	75.5	75.0	75.3	3.3	3.3	3.3		4.0	3.8	3.9	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.1	5.0	5.1	74.3	74.0	74.2	5.7	5.7	5.7	4.4	4.2	4.3	4.3	4.4
					Bottom	27.3	27.2	27.3	26.7	26.8	26.8	4.8	4.8	4.8	71.1	70.2	70.7	4.1	4.1	4.1		4.9	5.0	5.0	
E7	1232-1249	12.6	W	0.1	*Surface*	27.6	27.6	27.6	26.4	26.4	26.4	5.1	5.1	5.1	75.3	74.7	75.0	3.3	3.3	3.3		3.6	3.5	3.6	
					Middle	27.5	27.4	27.5	26.6	26.7	26.7	5.0	5.0	5.0	73.4	73.7	73.6	3.8	3.8	3.8	3.7	4.0	3.8	3.9	4.1
					Bottom	27.3	27.2	27.3	26.8	26.9	26.9	5.0	4.9	4.9	72.7	71.6	72.2	4.0	4.0	4.0		4.7	5.0	4.9	
F1	1252-1308	11.6	W	0.3	*Surface*	27.5	27.4	27.5	26.5	26.4	26.5	5.2	5.2	5.2	76.2	76.6	76.4	3.4	3.5	3.5		3.9	3.6	3.8	
					Middle	27.4	27.3	27.4	26.5	26.6	26.6	5.1	5.1	5.1	74.6	74.1	74.4	3.6	3.7	3.7	3.7	4.2	4.3	4.3	4.3
					Bottom	27.3	27.2	27.3	26.7	26.8	26.8	5.0	5.0	5.0	73.1	73.8	73.5	3.9	3.9	3.9		4.9	4.7	4.8	
G3	1313-1330	14.8	W	0.4	*Surface*	27.6	27.5	27.6	26.4	26.4	26.4	5.0	5.1	5.1	74.0	74.7	74.4	3.9	3.8	3.9		4.3	4.4	4.4	
					Middle	27.4	27.4	27.4	26.5	26.6	26.6	5.0	5.0	5.0	73.3	73.0	73.2	3.9	3.9	3.9	3.9	4.8	5.2	5.0	4.8
					Bottom	27.4	27.3	27.4	26.7	26.8	26.8	4.7	4.8	4.8	69.6	70.0	69.8	4.0	4.0	4.0		5.0	4.9	5.0	
E9	1336-1353	18.7	W	0.4	*Surface*	27.6	27.6	27.6	26.6	26.5	26.6	5.1	5.1	5.1	75.0	74.4	74.7	3.6	3.6	3.6		3.9	3.8	3.9	
					Middle	27.5	27.4	27.5	26.7	26.8	26.8	5.0	5.0	5.0	73.8	73.5	73.7	3.8	3.8	3.8	3.7	4.5	4.8	4.7	4.4
					Bottom	27.4	27.3	27.4	26.8	26.8	26.8	4.9	4.9	4.9	71.6	71.2	71.4	3.8	3.9	3.9		4.7	4.9	4.8	
S2	1359-1417	10.7	W	0.3	*Surface*	27.5	27.4	27.5	26.5	26.6	26.6	5.2	5.2	5.2	76.3	76.8	76.6	3.5	3.6	3.6		4.5	4.3	4.4	
					Middle	27.4	27.3	27.4	26.7	26.8	26.8	5.0	5.0	5.0	72.7	73.1	72.9	3.9	3.9	3.9	3.8	4.9	4.9	4.9	4.7
					Bottom	27.3	27.2	27.3	26.8	26.9	26.9	4.8	4.8	4.8	70.8	70.2	70.5	4.0	3.9	3.9		5.0	4.7	4.9	
G2	1422-1440	13.4	W	0.2	*Surface*	27.6	27.5	27.6	26.6	26.7	26.7	5.1	5.1	5.1	75.5	74.9	75.2	3.7	3.6	3.6		4.0	4.3	4.2	
					Middle	27.5	27.4	27.5	26.8	26.7	26.8	5.1	5.0	5.0	74.3	73.8	74.1	3.9	3.9	3.9	3.8	4.6	4.4	4.5	4.5
					Bottom	27.3	27.3	27.3	26.8	26.8	26.8	4.7	4.7	4.7	68.3	69.3	68.8	3.9	3.9	3.9		4.7	4.8	4.8	
S3	1446-1502	10.8	W	0.2	*Surface*	27.6	27.6	27.6	26.5	26.6	26.6	5.0	5.1	5.1	74.0	74.4	74.2	3.8	3.8	3.8		4.4	4.6	4.5	
					Middle	27.5	27.4	27.5	26.7	26.7	26.7	4.9	4.9	4.9	72.5	72.1	72.3	4.0	4.0	4.0	4.0	4.5	4.9	4.7	4.8
					Bottom	27.2	27.3	27.3	26.7	26.8	26.8	4.5	4.6	4.6	66.6	67.2	66.9	4.1	4.1	4.1		5.2	5.4	5.3	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C27 Impact Water Quality Monitoring Results during Third Round Monitoring on 12 October 2012

Date:	12-Oct-12
Weather:	Fine
Sea Conditions:	Great Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1506-1523	36.6	W	0.5	*Surface*	27.5	27.4	27.5	26.5	26.5	26.5	5.3	5.3	5.3	78.4	78.0	78.2	4.1	4.1	4.1		5.2	4.8	5.0	
					Middle	27.3	27.3	27.3	26.6	26.5	26.6	5.3	5.2	5.2	77.2	76.8	77.0	3.6	3.6	3.6	3.8	4.1	3.8	4.0	4.4
					Bottom	27.2	27.2	27.2	26.8	26.8	26.8	5.1	5.1	5.1	74.1	74.7	74.4	3.6	3.6	3.6		4.0	4.3	4.2	
E8	1530-1547	20.0	W	0.4	*Surface*	27.5	27.5	27.5	26.4	26.4	26.4	5.3	5.3	5.3	77.4	77.8	77.6	3.7	3.7	3.7		4.2	3.8	4.0	
					Middle	27.4	27.3	27.4	26.5	26.6	26.6	5.2	5.2	5.2	76.3	75.8	76.1	3.9	3.9	3.9	3.9	4.4	4.5	4.5	4.4
					Bottom	27.2	27.2	27.2	26.7	26.8	26.8	5.0	4.9	5.0	73.0	72.4	72.7	4.0	4.1	4.0		4.8	4.8	4.8	
S1	1555-1612	10.1	W	0.3	*Surface*	27.4	27.5	27.5	26.3	26.4	26.4	5.2	5.3	5.2	76.8	77.2	77.0	3.5	3.5	3.5		4.0	3.7	3.9	
					Middle	27.3	27.3	27.3	26.5	26.5	26.5	5.1	5.1	5.1	75.5	74.9	75.2	3.6	3.6	3.6	3.6	3.9	4.1	4.0	4.0
					Bottom	27.2	27.2	27.2	26.7	26.7	26.7	4.9	5.8	5.4	71.5	70.9	71.2	3.7	3.7	3.7		4.1	4.2	4.2	
G1	1616-1633	11.6	W	0.2	*Surface*	27.5	27.4	27.5	26.3	26.3	26.3	5.0	5.1	5.0	73.8	74.3	74.1	3.3	3.4	3.4		4.1	3.8	4.0	
					Middle	27.3	27.3	27.3	26.5	26.6	26.6	5.0	4.9	4.9	72.7	72.2	72.5	5.1	5.1	5.1	4.3	4.4	4.3	4.4	4.5
					Bottom	27.2	27.2	27.2	26.7	26.8	26.8	4.8	4.7	4.7	69.7	69.4	69.6	4.4	4.3	4.4		5.2	5.4	5.3	
E7	1637-1654	12.9	W	0.2	*Surface*	27.4	27.4	27.4	26.4	26.4	26.4	5.1	5.1	5.1	74.3	74.9	74.6	3.3	3.3	3.3		4.0	4.3	4.2	
					Middle	27.3	27.4	27.4	26.6	26.6	26.6	5.0	4.9	5.0	73.0	72.5	72.8	3.8	3.8	3.8	3.7	4.6	4.8	4.7	4.7
					Bottom	27.2	27.3	27.3	26.8	26.9	26.9	4.8	4.9	4.8	70.8	71.4	71.1	4.0	4.1	4.0		5.2	5.1	5.2	
F1	1658-1715	11.8	W	0.3	*Surface*	27.5	27.4	27.5	26.4	26.4	26.4	5.1	5.1	5.1	75.0	75.5	75.3	3.4	3.5	3.4		3.9	3.6	3.8	
					Middle	27.3	27.3	27.3	26.5	26.6	26.6	5.0	5.0	5.0	73.3	72.7	73.0	3.6	3.7	3.6	3.7	3.9	4.3	4.1	4.3
					Bottom	27.2	27.2	27.2	26.8	26.8	26.8	4.9	4.8	4.9	71.5	71.1	71.3	3.9	3.9	3.9		4.9	4.9	4.9	
G3	1722-1739	15.0	W	0.3	*Surface*	27.4	27.4	27.4	26.4	26.4	26.4	5.0	5.0	5.0	73.4	73.9	73.7	3.8	3.8	3.8		4.2	4.0	4.1	
					Middle	27.3	27.3	27.3	26.5	26.6	26.6	4.9	4.9	4.9	72.5	72.1	72.3	3.9	4.0	3.9	3.9	4.7	5.0	4.9	4.6
					Bottom	27.2	27.1	27.2	26.7	26.8	26.8	4.8	4.8	4.8	70.8	70.2	70.5	4.0	4.0	4.0		4.8	4.9	4.9	
E9	1745-1802	18.6	W	0.3	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.0	5.1	5.0	73.7	74.3	74.0	3.5	3.5	3.5		4.1	4.3	4.2	
					Middle	27.4	27.4	27.4	26.7	26.7	26.7	4.9	4.9	4.9	72.5	72.1	72.3	3.7	3.7	3.7	3.7	4.5	4.7	4.6	4.5
					Bottom	27.3	27.3	27.3	26.8	26.9	26.9	4.8	4.8	4.8	70.8	70.3	70.6	3.8	3.8	3.8		4.8	4.8	4.8	
S2	1808-1825	10.4	W	0.4	*Surface*	27.4	27.5	27.5	26.6	26.6	26.6	5.2	5.2	5.2	75.7	76.2	76.0	3.6	3.6	3.6		4.3	4.2	4.3	
					Middle	27.3	27.2	27.3	26.7	26.7	26.7	5.0	5.0	5.0	73.3	72.7	73.0	3.8	3.9	3.8	3.8	4.4	4.5	4.5	4.5
					Bottom	27.2	27.1	27.2	26.8	26.9	26.9	4.9	4.9	4.9	71.6	71.2	71.4	4.0	4.1	4.0		4.8	4.9	4.9	
G2	1830-1847	13.3	W	0.3	*Surface*	27.5	27.4	27.5	26.6	26.7	26.7	5.1	5.1	5.1	74.1	74.7	74.4	3.5	3.6	3.6		4.1	4.3	4.2	
					Middle	27.3	27.4	27.4	26.7	26.7	26.7	5.0	4.9	4.9	72.8	72.2	72.5	3.8	3.8	3.8	3.8	4.3	4.4	4.4	4.5
					Bottom	27.2	27.3	27.3	26.8	26.7	26.8	4.8	4.8	4.8	69.7	70.3	70.0	3.9	4.0	4.0		4.9	4.8	4.9	
S3	1852-1909	10.6	W	0.2	*Surface*	27.5	27.4	27.5	26.5	26.6	26.6	5.1	5.1	5.1	74.9	74.3	74.6	3.7	3.7	3.7		4.2	4.3	4.3	
					Middle	27.3	27.3	27.3	26.7	26.7	26.7	5.0	4.9	5.0	73.0	72.4	72.7	4.0	4.0	4.0	4.0	4.7	4.9	4.8	4.7
					Bottom	27.2	27.2	27.2	26.8	26.8	26.8	4.6	4.6	4.6	68.1	67.7	67.9	4.1	4.1	4.1		4.8	5.0	4.9	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C28 Impact Water Quality Monitoring Results during Forth Round Monitoring on 12 October 2012

Date:	12-Oct-12
Weather:	Fine
Sea Conditions:	Great Wave
Zone	A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1915-1932	36.9	W	0.6	*Surface*	27.5	27.4	27.5	26.5	26.5	26.5	5.3	5.4	5.4	78.2	78.7	78.5	4.0	4.0	4.0		4.6	4.8	4.7	
					Middle	27.3	27.2	27.3	26.6	26.6	26.6	5.2	5.2	5.2	76.3	75.9	76.1	3.5	3.6	3.6	3.8	4.1	4.2	4.2	4.4
					Bottom	27.2	27.1	27.2	26.8	26.8	26.8	5.1	5.0	5.1	74.4	73.9	74.2	3.7	3.8	3.7		4.3	4.5	4.4	
E8	1939-1956	20.2	W	0.3	*Surface*	27.4	27.4	27.4	26.4	26.5	26.5	5.2	5.3	5.2	76.6	77.2	76.9	3.6	3.6	3.6		3.9	3.7	3.8	
					Middle	27.3	27.3	27.3	26.6	26.6	26.6	5.1	5.1	5.1	75.5	74.9	75.2	3.8	3.8	3.8	3.8	3.9	4.2	4.1	4.2
					Bottom	27.2	27.1	27.2	26.7	26.8	26.8	5.0	5.0	5.0	73.3	72.7	73.0	4.0	4.0	4.0		4.9	4.8	4.9	
S1	2001-2018	10.3	W	0.4	*Surface*	27.4	27.4	27.4	26.4	26.4	26.4	5.2	5.2	5.2	76.9	76.5	76.7	3.5	3.6	3.5		4.1	4.2	4.2	
					Middle	27.2	27.3	27.3	26.5	26.6	26.6	5.1	5.1	5.1	75.0	74.4	74.7	3.7	3.7	3.7	3.6	4.3	4.6	4.5	4.3
					Bottom	27.2	27.1	27.2	26.7	26.7	26.7	4.9	4.9	4.9	72.2	71.8	72.0	3.6	3.6	3.6		4.2	4.3	4.3	
G1	2023-2040	11.6	W	0.1	*Surface*	27.4	27.4	27.4	26.3	26.3	26.3	5.0	5.0	5.0	73.1	73.7	73.4	3.4	3.4	3.4		3.9	4.2	4.1	
					Middle	27.3	27.2	27.3	26.5	26.5	26.5	4.9	4.8	4.9	71.8	71.7	71.8	4.8	4.9	4.9	4.2	5.2	4.9	5.1	4.8
					Bottom	27.1	27.1	27.1	26.7	26.7	26.7	4.7	4.7	4.7	69.0	68.9	69.0	4.5	4.4	4.5		5.3	5.5	5.4	
E7	2045-2102	13.2	W	0.2	*Surface*	27.4	27.5	27.5	26.4	26.5	26.5	5.0	5.1	5.0	73.5	74.4	74.0	3.3	3.3	3.3		4.3	3.9	4.1	
					Middle	27.3	27.3	27.3	26.6	26.6	26.6	4.9	4.9	4.9	71.6	72.1	71.9	3.7	3.8	3.7	3.7	4.6	4.6	4.6	4.6
					Bottom	27.2	27.1	27.2	26.9	26.8	26.9	4.8	4.8	4.8	70.5	70.9	70.7	4.0	4.0	4.0		5.1	5.3	5.2	
F1	2106-2123	12.2	W	0.3	*Surface*	27.4	27.4	27.4	26.5	26.4	26.5	5.1	5.1	5.1	74.3	75.2	74.8	3.4	3.4	3.4		4.5	4.2	4.4	
					Middle	27.3	27.2	27.3	26.5	26.6	26.6	4.9	4.9	4.9	72.4	71.8	72.1	3.6	3.6	3.6	3.7	3.7	3.6	3.7	4.0
					Bottom	27.2	27.2	27.2	26.8	26.7	26.8	4.8	4.8	4.8	70.5	70.0	70.3	4.0	3.9	4.0		3.9	4.1	4.0	
G3	2129-2146	15.2	W	0.4	*Surface*	27.3	27.4	27.4	26.4	26.4	26.4	5.1	5.1	5.1	74.4	75.0	74.7	3.8	3.9	3.8		4.4	4.5	4.5	
					Middle	27.2	27.2	27.2	26.5	26.6	26.6	4.9	4.8	4.9	71.5	70.9	71.2	4.0	4.1	4.0	4.0	4.8	4.8	4.8	4.8
					Bottom	27.1	27.2	27.2	26.7	26.8	26.8	4.9	5.0	4.9	72.1	72.8	72.5	4.1	4.1	4.1		5.2	5.1	5.2	
E9	2153-2210	18.9	W	0.4	*Surface*	27.3	27.4	27.4	26.5	26.6	26.6	5.0	5.0	5.0	73.4	72.8	73.1	3.6	3.6	3.6		4.1	4.4	4.3	
					Middle	27.2	27.3	27.3	26.7	26.7	26.7	4.9	4.8	4.9	71.5	70.9	71.2	3.7	3.7	3.7	3.7	4.2	4.5	4.4	4.5
					Bottom	27.1	27.1	27.1	26.9	26.9	26.9	4.8	4.8	4.8	70.3	69.7	70.0	3.8	3.9	3.9		4.8	5.0	4.9	
S2	2217-2234	10.4	W	0.4	*Surface*	27.4	27.4	27.4	26.5	26.5	26.5	5.1	5.2	5.1	75.2	75.6	75.4	3.6	3.7	3.6		4.0	4.3	4.2	
					Middle	27.3	27.3	27.3	26.7	26.6	26.7	5.0	4.9	5.0	73.0	72.5	72.8	3.8	3.8	3.8	3.8	4.5	4.5	4.5	4.5
					Bottom	27.1	27.2	27.2	26.8	26.8	26.8	4.9	4.9	4.9	71.8	71.4	71.6	3.9	4.0	4.0		4.7	4.9	4.8	
G2	2238-2255	13.7	W	0.2	*Surface*	27.3	27.3	27.3	26.6	26.7	26.7	5.0	5.0	5.0	73.1	73.7	73.4	3.5	3.5	3.5		4.0	4.3	4.2	
					Middle	27.3	27.2	27.3	26.8	26.7	26.8	4.9	4.9	4.9	71.6	71.2	71.4	3.7	3.8	3.8	3.7	4.6	4.8	4.7	4.6
					Bottom	27.1	27.1	27.1	26.9	26.8	26.9	4.7	4.7	4.7	69.2	69.6	69.4	4.0	4.0	4.0		5.0	4.8	4.9	
S3	2259-2316	10.8	W	0.3	*Surface*	27.3	27.3	27.3	26.6	26.5	26.6	5.1	5.0	5.0	74.1	73.7	73.9	3.8	3.8	3.8		4.4	4.3	4.4	
					Middle	27.2	27.2	27.2	26.7	26.7	26.7	4.9	4.9	4.9	71.9	71.5	71.7	4.1	4.1	4.1	4.0	5.0	4.9	5.0	4.9
					Bottom	27.1	27.1	27.1	26.9	26.9	26.9	4.6	4.7	4.6	67.8	68.4	68.1	4.2	4.2	4.2		5.3	5.6	5.5	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C29 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 1 (07:00), 12 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.55	5.10
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.93	5.53
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 2 (11;00), 12 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.51	5.18
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.89	5.61
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C30 Summary of Compliance with Action and Limit Level for Zone A

Compliance with Action Level and Limit Level for Zone A - Round 3 (15:00), 12 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.51	5.24
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.88	5.68
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone A - Round 4 (19:00), 12 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.36	4.36	4.39	4.38	6.27
	Or Action Level (C1*1.2)	N.A.	N.A.	N.A.	4.51	5.30
	Limit Level (Baseline)	4.25	4.25	4.33	4.43	6.40
	And Limit Level (C1*1.3)	N.A.	N.A.	N.A.	4.88	5.74
E7	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E8	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
F1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
S3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C31 Impact Water Quality Monitoring Results during First Round Monitoring on 13 October 2012

Date:	13-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	B

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
E9	1102-1117	18.6	E	0.4	*Surface*	27.5	27.5	27.5	26.8	26.8	26.8	5.4	5.3	5.3	78.8	77.8	78.3	3.7	3.7	3.7		4.5	4.4	4.5	
					Middle	27.4	27.4	27.4	26.9	26.9	26.9	5.1	5.1	5.1	75.1	74.7	74.9	3.9	3.9	3.9	3.9	4.7	4.7	4.7	4.7
					Bottom	27.3	27.3	27.3	27.0	27.0	27.0	4.9	4.9	4.9	72.3	72.6	72.5	4.2	4.2	4.2		4.9	5.2	5.1	
G3	1119-1135	12.7	E	0.6	*Surface*	27.5	27.5	27.5	26.6	26.6	26.6	5.3	5.2	5.2	77.3	76.1	76.7	3.2	3.2	3.2		4.0	4.2	4.1	
					Middle	27.4	27.4	27.4	26.7	26.7	26.7	5.4	5.3	5.4	79.1	78.2	78.7	3.1	3.0	3.0	3.2	3.8	3.9	3.9	4.1
					Bottom	27.4	27.3	27.4	26.8	26.9	26.9	5.3	5.2	5.3	77.8	77.0	77.4	3.3	3.2	3.3		4.1	4.3	4.2	
F1	1137-1153	7.7	E	0.5	*Surface*	27.5	27.5	27.5	26.4	26.4	26.4	5.6	5.6	5.6	82.0	82.0	82.0	2.7	2.8	2.8		3.5	3.6	3.6	
					Middle	27.4	27.4	27.4	26.6	26.6	26.6	4.7	4.6	4.7	69.4	68.1	68.8	3.0	3.1	3.1	3.0	3.9	4.1	4.0	3.9
					Bottom	27.3	27.3	27.3	26.7	26.7	26.7	4.7	4.6	4.6	68.5	67.8	68.2	3.2	3.2	3.2		4.0	4.4	4.2	
C2	1159-1215	30.8	E	0.4	*Surface*	27.6	27.6	27.6	26.6	26.6	26.6	6.4	6.4	6.4	94.2	93.8	94.0	2.1	2.0	2.1		2.9	3.1	3.0	
					Middle	27.5	27.4	27.5	26.8	26.8	26.8	6.2	6.1	6.1	90.6	90.0	90.3	2.3	2.2	2.2	2.3	3.1	3.3	3.2	3.2
					Bottom	27.3	27.3	27.3	27.0	27.1	27.1	5.8	5.8	5.8	85.8	85.4	85.6	2.6	2.6	2.6		3.6	3.4	3.5	
E2	1221-1237	8.0	E	0.4	*Surface*	27.6	27.5	27.6	26.7	26.7	26.7	5.4	5.4	5.4	79.5	78.8	79.2	2.2	2.5	2.3		3.5	3.2	3.4	
					Middle	27.4	27.4	27.4	26.9	26.9	26.9	5.2	5.2	5.2	77.0	76.6	76.8	2.5	2.5	2.5	2.6	3.7	3.8	3.8	3.6
					Bottom	27.3	27.3	27.3	27.0	27.0	27.0	5.0	5.0	5.0	73.9	73.6	73.8	2.9	3.0	2.9		3.7	3.9	3.8	
G4	1239-1255	24.7	E	0.6	*Surface*	27.6	27.6	27.6	26.8	26.8	26.8	5.8	5.8	5.8	85.8	85.8	85.8	2.5	2.4	2.4		3.5	3.3	3.4	
					Middle	27.5	27.5	27.5	26.9	26.9	26.9	5.7	5.7	5.7	83.9	83.2	83.6	2.6	2.6	2.6	2.6	3.6	3.6	3.6	3.6
					Bottom	27.4	27.4	27.4	27.0	27.0	27.0	5.5	5.5	5.5	81.1	80.9	81.0	2.8	2.7	2.7		3.6	3.7	3.7	
E6	1258-1314	26.3	E	0.5	*Surface*	27.6	27.6	27.6	26.7	26.7	26.7	5.7	5.6	5.6	83.2	82.8	83.0	1.9	1.9	1.9		2.9	2.6	2.8	
					Middle	27.5	27.5	27.5	26.8	26.8	26.8	5.4	5.3	5.4	79.1	78.5	78.8	2.2	2.2	2.2	2.2	3.0	2.9	3.0	3.1
					Bottom	27.4	27.4	27.4	26.9	27.0	27.0	5.4	5.4	5.4	79.5	79.1	79.3	2.4	2.4	2.4		3.4	3.5	3.5	
B1	1318-1334	10.6	E	0.5	*Surface*	27.6	27.5	27.6	26.8	26.8	26.8	5.4	5.4	5.4	79.6	79.1	79.4	1.8	1.9	1.8		2.6	2.8	2.7	
					Middle	27.5	27.5	27.5	26.9	26.9	26.9	5.0	5.0	5.0	73.1	72.8	73.0	2.4	2.3	2.3	2.3	3.4	3.3	3.4	3.2
					Bottom	27.4	27.4	27.4	27.0	27.1	27.1	4.8	4.7	4.8	71.1	69.2	70.2	2.6	2.6	2.6		3.6	3.6	3.6	
B2	1339-1355	15.4	E	0.5	*Surface*	27.6	27.6	27.6	26.8	26.8	26.8	5.7	5.7	5.7	83.6	84.2	83.9	2.0	2.0	2.0		2.7	3.0	2.9	
					Middle	27.5	27.5	27.5	26.9	26.9	26.9	5.3	5.3	5.3	77.8	77.9	77.9	2.5	2.5	2.5	2.5	3.2	3.4	3.3	3.3
					Bottom	27.4	27.4	27.4	27.1	27.1	27.1	5.4	5.4	5.4	79.4	78.9	79.2	2.9	3.0	3.0		3.8	3.9	3.9	
B3	1359-1416	12.6	E	0.6	*Surface*	27.6	27.5	27.6	26.4	26.5	26.5	5.4	5.4	5.4	79.8	78.9	79.4	1.3	1.3	1.3		2.0	2.0	2.0	
					Middle	27.5	27.4	27.5	26.7	26.7	26.7	5.2	5.2	5.2	76.6	76.6	76.6	1.8	1.8	1.8	1.8	2.6	2.7	2.7	2.6
					Bottom	27.4	27.4	27.4	26.8	26.8	26.8	5.1	5.1	5.1	75.4	74.8	75.1	2.2	2.3	2.2		3.2	3.0	3.1	
G7	1421-1437	32.1	E	0.5	*Surface*	27.6	27.6	27.6	26.7	26.7	26.7	5.7	5.6	5.6	83.1	82.5	82.8	1.4	1.5	1.5		2.5	2.7	2.6	
					Middle	27.4	27.4	27.4	26.8	26.9	26.9	5.5	5.4	5.4	80.4	79.1	79.8	1.9	1.9	1.9	1.9	2.6	2.9	2.8	2.8
					Bottom	27.3	27.3	27.3	27.0	27.0	27.0	5.2	5.2	5.2	77.0	76.4	76.7	2.4	2.3	2.3		3.0	3.2	3.1	
E1	1440-1458	46.2	E	0.6	*Surface*	27.6	27.6	27.6	26.7	26.7	26.7	5.7	5.7	5.7	83.9	83.6	83.8	1.8	1.3	1.5		2.4	2.5	2.5	
					Middle	27.4	27.4	27.4	26.9	26.9	26.9	5.8	5.8	5.8	85.5	84.7	85.1	2.1	2.0	2.0	2.1	2.9	2.6	2.8	2.9
					Bottom	27.3	27.2	27.3	27.2	27.3	27.3	5.4	5.4	5.4	79.8	79.5	79.7	2.7	2.7	2.7		3.5	3.6	3.6	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C32 Impact Water Quality Monitoring Results during Second Round Monitoring on 13 October 2012

Date:	13-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	B

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
E1	1504-1519	48.0	W	0.9	*Surface*	27.6	27.6	27.6	26.7	26.7	26.7	5.6	5.7	5.7	83.1	83.7	83.4	1.9	1.9	1.9		2.8	2.9	2.9	
					Middle	27.5	27.5	27.5	26.9	27.0	27.0	5.6	5.5	5.6	82.1	81.5	81.8	2.3	2.2	2.2	2.3	3.3	3.1	3.2	3.3
					Bottom	27.4	27.3	27.4	27.2	27.3	27.3	5.5	5.5	5.5	81.0	81.5	81.3	2.9	2.8	2.8		3.7	3.8	3.8	
G7	1523-1539	33.2	W	0.8	*Surface*	27.6	27.5	27.6	26.7	26.6	26.7	5.7	5.8	5.7	84.3	84.7	84.5	1.8	1.9	1.9		2.9	2.6	2.8	
					Middle	27.5	27.4	27.5	26.9	26.9	26.9	5.6	5.6	5.6	83.1	82.5	82.8	1.9	1.9	1.9	1.9	3.0	3.1	3.1	3.0
					Bottom	27.4	27.4	27.4	27.1	27.1	27.1	5.5	5.5	5.5	80.9	80.3	80.6	2.0	2.1	2.1		3.0	3.2	3.1	
B3	1544-1558	13.6	W	0.5	*Surface*	27.6	27.6	27.6	26.6	26.6	26.6	5.6	5.6	5.6	82.3	82.8	82.6	1.4	1.4	1.4		2.3	2.4	2.4	
					Middle	27.4	27.3	27.4	26.8	26.7	26.8	5.3	5.2	5.3	77.5	77.1	77.3	2.0	1.9	1.9	1.9	3.0	2.8	2.9	2.9
					Bottom	27.4	27.4	27.4	27.0	27.1	27.1	5.1	5.2	5.2	75.6	73.8	74.7	2.3	2.4	2.4		3.3	3.4	3.4	
B2	1603-1616	16.4	W	0.2	*Surface*	27.6	27.7	27.7	26.6	26.7	26.7	5.7	5.8	5.7	84.3	84.8	84.6	1.9	1.9	1.9		2.7	2.8	2.8	
					Middle	27.5	27.5	27.5	26.8	26.9	26.9	5.3	5.3	5.3	78.3	78.0	78.2	2.5	2.6	2.6	2.4	3.4	3.6	3.5	3.3
					Bottom	27.3	27.4	27.4	27.1	27.0	27.1	5.1	5.1	5.1	75.1	74.7	74.9	2.7	2.8	2.8		3.9	3.6	3.8	
B1	1622-1636	10.8	W	0.3	*Surface*	27.6	27.6	27.6	26.7	26.8	26.8	5.6	5.6	5.6	82.5	83.1	82.8	2.0	2.1	2.1		3.0	3.2	3.1	
					Middle	27.5	27.4	27.5	26.9	27.0	27.0	5.3	5.2	5.3	77.5	77.1	77.3	2.4	2.4	2.4	2.3	3.5	3.6	3.6	3.4
					Bottom	27.4	27.4	27.4	27.1	27.1	27.1	5.1	5.0	5.1	74.5	74.1	74.3	2.4	2.5	2.4		3.5	3.8	3.7	
E6	1641-1657	27.2	W	0.4	*Surface*	27.6	27.5	27.6	26.8	26.7	26.8	5.8	5.7	5.8	85.1	84.6	84.9	1.9	1.9	1.9		2.8	2.9	2.9	
					Middle	27.4	27.4	27.4	27.0	27.0	27.0	5.5	5.5	5.5	80.8	80.4	80.6	2.3	2.2	2.3	2.2	3.3	3.2	3.3	3.2
					Bottom	27.4	27.3	27.4	27.2	27.1	27.2	5.4	5.4	5.4	79.5	80.1	79.8	2.5	2.6	2.6		3.4	3.4	3.4	
G4	1700-1715	25.6	W	0.5	*Surface*	27.6	27.6	27.6	26.8	26.8	26.8	5.4	5.5	5.5	79.9	80.5	80.2	2.1	2.1	2.1		3.0	3.2	3.1	
					Middle	27.4	27.4	27.4	27.0	26.9	27.0	5.2	5.1	5.2	76.0	75.6	75.8	2.4	2.4	2.4	2.4	3.3	3.6	3.5	3.4
					Bottom	27.3	27.3	27.3	27.2	27.2	27.2	5.1	5.1	5.1	75.3	74.7	75.0	2.7	2.7	2.7		3.6	3.7	3.7	
E2	1718-1734	8.8	W	0.5	*Surface*	27.6	27.6	27.6	26.8	26.7	26.8	5.7	5.7	5.7	83.8	83.2	83.5	2.2	2.3	2.3		3.0	3.2	3.1	
					Middle	27.4	27.4	27.4	27.0	26.9	27.0	5.3	5.3	5.3	78.3	77.7	78.0	2.5	2.4	2.4	2.4	3.3	3.2	3.3	3.3
					Bottom	27.4	27.3	27.4	27.2	27.2	27.2	5.3	5.3	5.3	77.5	78.0	77.8	2.6	2.6	2.6		3.6	3.4	3.5	
C2	1740-1755	31.4	W	0.7	*Surface*	27.6	27.5	27.6	26.9	26.8	26.9	6.1	6.1	6.1	90.2	89.5	89.9	1.9	2.0	1.9		2.9	2.8	2.9	
					Middle	27.4	27.3	27.4	27.0	27.1	27.1	5.9	5.9	5.9	87.6	87.0	87.3	2.3	2.4	2.4	2.2	3.4	3.6	3.5	3.3
					Bottom	27.3	27.3	27.3	27.3	27.2	27.3	5.9	5.9	5.9	87.0	86.2	86.6	2.3	2.3	2.3		3.3	3.6	3.5	
F1	1803-1817	8.4	W	0.3	*Surface*	27.6	27.6	27.6	26.9	26.9	26.9	5.7	5.7	5.7	84.6	84.0	84.3	2.9	2.9	2.9		4.0	3.7	3.9	
					Middle	27.4	27.4	27.4	27.1	27.1	27.1	5.3	5.4	5.4	78.6	79.1	78.9	3.1	3.1	3.1	3.1	4.1	4.0	4.1	4.1
					Bottom	27.4	27.3	27.4	27.3	27.3	27.3	5.4	5.3	5.4	79.1	78.6	78.9	3.3	3.3	3.3		4.3	4.2	4.3	
G3	1820-1835	13.2	W	0.3	*Surface*	27.6	27.5	27.6	26.9	26.8	26.9	5.8	5.8	5.8	85.4	84.8	85.1	3.0	3.1	3.0		4.2	4.0	4.1	
					Middle	27.4	27.4	27.4	27.1	27.0	27.1	5.5	5.5	5.5	80.3	80.7	80.5	3.3	3.2	3.3	3.2	4.4	4.2	4.3	4.3
					Bottom	27.3	27.4	27.4	27.3	27.2	27.3	5.2	5.2	5.2	76.5	77.1	76.8	3.3	3.3	3.3		4.5	4.4	4.5	
E9	1844-1900	19.6	W	0.4	*Surface*	27.5	27.4	27.5	26.8	26.7	26.8	5.6	5.5	5.6	82.1	81.6	81.9	3.2	3.3	3.2		4.0	4.1	4.1	
					Middle	27.3	27.3	27.3	26.9	26.9	26.9	5.2	5.2	5.2	76.6	76.1	76.4	3.1	3.1	3.1	3.2	4.2	3.9	4.1	4.2
					Bottom	27.3	27.2	27.3	27.1	27.0	27.1	5.0	5.0	5.0	73.1	73.4	73.3	3.2	3.2	3.2		4.4	4.4	4.4	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C33 Impact Water Quality Monitoring Results during Third Round Monitoring on 13 October 2012

Date:	13-Oct-12
Weather:	Fine
Sea Conditions:	Small Wave
Zone	B

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
E9	1902-1918	19.8	W	0.4	*Surface*	27.4	27.5	27.5	26.8	26.8	26.8	5.6	5.6	5.6	83.1	82.5	82.8	3.3	3.3	3.3		3.8	3.9	3.9	
					Middle	27.3	27.2	27.3	26.9	26.9	26.9	5.3	5.3	5.3	78.0	78.6	78.3	3.4	3.3	3.4	3.3	3.9	4.0	4.0	4.0
					Bottom	27.2	27.2	27.2	27.0	27.1	27.1	5.0	5.0	5.0	73.6	73.4	73.5	3.2	3.2	3.2		4.0	4.2	4.1	
G3	1926-1940	13.6	W	0.4	*Surface*	27.4	27.4	27.4	26.9	26.8	26.9	5.7	5.7	5.7	84.3	83.7	84.0	3.0	3.1	3.0		4.2	4.2	4.2	
					Middle	27.4	27.3	27.4	26.9	27.0	27.0	5.6	5.6	5.6	83.1	82.7	82.9	3.4	3.4	3.4	3.3	4.3	4.6	4.5	4.3
					Bottom	27.3	27.2	27.3	27.1	27.2	27.2	5.6	5.6	5.6	82.3	82.1	82.2	3.4	3.4	3.4		4.2	4.4	4.3	
F1	1944-1959	9.2	W	0.3	*Surface*	27.4	27.4	27.4	26.9	26.9	26.9	5.8	5.7	5.8	85.2	84.6	84.9	2.9	3.0	2.9		3.7	0.8	2.3	
					Middle	27.3	27.3	27.3	27.0	27.0	27.0	5.4	5.4	5.4	80.0	79.0	79.5	2.9	2.8	2.8	3.0	3.7	3.6	3.7	3.4
					Bottom	27.2	27.2	27.2	27.1	27.1	27.1	5.3	5.2	5.3	77.6	77.1	77.4	3.2	3.2	3.2		4.3	4.2	4.3	
C2	2008-2023	31.8	W	0.8	*Surface*	27.4	27.4	27.4	26.9	26.9	26.9	6.0	6.1	6.1	89.0	89.5	89.3	1.7	1.8	1.8		2.8	2.7	2.8	
					Middle	27.3	27.2	27.3	27.0	27.0	27.0	6.0	6.0	6.0	88.2	88.7	88.5	1.9	1.9	1.9	1.9	3.1	2.9	3.0	3.0
					Bottom	27.1	27.2	27.2	27.1	27.1	27.1	6.0	5.9	5.9	87.7	87.0	87.4	2.1	2.1	2.1		3.1	3.1	3.1	
E2	2030-2044	9.2	W	0.5	*Surface*	27.4	27.3	27.4	26.9	26.8	26.9	5.6	5.6	5.6	82.5	83.1	82.8	2.1	2.1	2.1		3.1	3.2	3.2	
					Middle	27.3	27.3	27.3	26.8	26.9	26.9	5.2	5.2	5.2	76.6	76.1	76.4	2.4	2.3	2.3	2.3	3.5	3.6	3.6	3.4
					Bottom	27.2	27.2	27.2	27.2	27.1	27.2	5.2	5.1	5.2	75.9	75.6	75.8	2.3	2.4	2.4		3.4	3.6	3.5	
G4	2047-2101	25.8	W	0.4	*Surface*	27.4	27.4	27.4	26.9	26.9	26.9	5.6	5.6	5.6	83.0	82.5	82.8	1.9	2.0	2.0		2.8	2.9	2.9	
					Middle	27.3	27.2	27.3	26.9	27.0	27.0	5.2	5.2	5.2	76.8	76.1	76.5	2.3	2.3	2.3	2.2	3.3	3.2	3.3	3.1
					Bottom	27.2	27.1	27.2	27.2	27.2	27.2	5.2	5.1	5.1	75.9	75.3	75.6	2.2	2.2	2.2		3.0	3.2	3.1	
E6	2105-2120	27.8	W	0.5	*Surface*	27.4	27.4	27.4	26.9	26.9	26.9	5.7	5.7	5.7	84.3	83.7	84.0	2.0	2.0	2.0		3.0	2.8	2.9	
					Middle	27.2	27.2	27.2	27.0	27.0	27.0	5.3	5.3	5.3	78.6	78.0	78.3	2.4	2.5	2.4	2.3	3.2	3.5	3.4	3.1
					Bottom	27.2	27.2	27.2	27.2	27.1	27.2	5.3	5.3	5.3	77.2	77.8	77.5	2.3	2.3	2.3		3.0	3.1	3.1	
B1	2126-2140	11.2	W	0.3	*Surface*	27.4	27.3	27.4	26.8	26.8	26.8	5.4	5.3	5.4	79.1	78.6	78.9	1.9	1.9	1.9		2.9	2.7	2.8	
					Middle	27.2	27.1	27.2	27.0	26.9	27.0	5.2	5.3	5.3	77.1	77.5	77.3	1.9	1.9	1.9	1.9	2.9	2.9	2.9	3.0
					Bottom	27.0	27.1	27.1	27.2	27.3	27.3	5.0	5.1	5.0	73.8	74.4	74.1	2.1	2.0	2.1		3.0	3.3	3.2	
B2	2145-2158	16.8	W	0.2	*Surface*	27.3	27.3	27.3	26.8	26.9	26.9	5.4	5.4	5.4	79.3	78.8	79.1	1.9	1.9	1.9		2.8	2.8	2.8	
					Middle	27.2	27.2	27.2	27.1	27.0	27.1	5.2	5.2	5.2	75.9	76.3	76.1	2.1	2.1	2.1	2.0	3.0	3.1	3.1	3.0
					Bottom	27.1	27.1	27.1	27.2	27.2	27.2	5.1	5.0	5.1	74.7	74.1	74.4	2.1	2.1	2.1		3.3	3.0	3.2	
B3	2202-2215	13.2	W	0.4	*Surface*	27.4	27.3	27.4	26.9	26.9	26.9	5.5	5.5	5.5	81.3	80.5	80.9	2.0	2.1	2.1		2.9	3.0	3.0	
					Middle	27.2	27.1	27.2	27.1	27.0	27.1	5.3	5.3	5.3	77.9	78.5	78.2	2.6	2.5	2.5	2.4	3.5	3.4	3.5	3.3
					Bottom	27.1	27.0	27.1	27.2	27.1	27.2	5.2	5.2	5.2	76.5	77.1	76.8	2.6	2.7	2.6		3.5	3.7	3.6	
G7	2222-2236	33.4	W	0.4	*Surface*	27.3	27.3	27.3	26.9	26.9	26.9	5.5	5.4	5.5	80.5	80.1	80.3	1.8	1.8	1.8		2.8	2.9	2.9	
					Middle	27.1	27.1	27.1	27.2	27.1	27.2	5.2	5.3	5.2	76.8	77.2	77.0	2.5	2.6	2.6	2.3	3.4	3.3	3.4	3.3
					Bottom	27.1	27.1	27.1	27.2	27.2	27.2	5.3	5.3	5.3	77.2	77.8	77.5	2.5	2.5	2.5		3.5	3.7	3.6	
E1	2242-2300	47.6	W	0.6	*Surface*	27.3	27.3	27.3	27.0	26.9	27.0	5.7	5.7	5.7	83.8	83.2	83.5	2.0	2.1	2.0		3.2	3.2	3.2	
					Middle	27.1	27.1	27.1	27.2	27.1	27.2	5.3	5.4	5.4	78.5	78.9	78.7	2.0	1.9	1.9	2.1	2.8	2.8	2.8	3.1
					Bottom	27.1	27.0	27.1	27.3	27.3	27.3	5.3	5.3	5.3	77.9	77.3	77.6	2.4	2.4	2.4		3.2	3.5	3.4	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C34 Summary of Compliance with Action and Limit Level for Zone B

Compliance with Action Level and Limit Level for Zone B - Round 1 (11:00), 13 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.72	4.72	4.52	3.01	4.09
	Or Action Level (C2*1.2)	N.A.	N.A.	N.A.	2.76	3.88
	Limit Level (Baseline)	4.57	4.57	4.44	3.13	4.60
	And Limit Level (C2*1.3)	N.A.	N.A.	N.A.	2.99	4.20
B1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E6	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	Y	Y
F1	Exceedance of Action Level	N	Y	N	Y	Y
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone B - Round 2 (15:00), 13 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.72	4.72	4.52	3.01	4.09
	Or Action Level (C2*1.2)	N.A.	N.A.	N.A.	2.64	3.92
	Limit Level (Baseline)	4.57	4.57	4.44	3.13	4.60
	And Limit Level (C2*1.3)	N.A.	N.A.	N.A.	2.86	4.25
B1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E6	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	Y	N
F1	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C35 Summary of Compliance with Action and Limit Level for Zone B

Compliance with Action Level and Limit Level for Zone B - Round 3 (19:00), 13 October						
Station	Limits	DO (Surface)	DO (Middle)	DO (Bottom)	Turbidity (*DA)	SS (*DA)
	Action Level (Baseline)	4.72	4.72	4.52	3.01	4.09
	Or Action Level (C2*1.2)	N.A.	N.A.	N.A.	2.31	3.54
	Limit Level (Baseline)	4.57	4.57	4.44	3.13	4.60
	And Limit Level (C2*1.3)	N.A.	N.A.	N.A.	2.50	3.84
B1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B3	Exceedance of Action Level	N	N	N	Y	N
	Exceedance of Limit Level	N	N	N	N	N
E1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E6	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	Y	N
F1	Exceedance of Action Level	N	N	N	Y	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Annex C36 Impact Water Quality Monitoring Results during First Round Monitoring on 14 October 2012

Date:	14-Oct-12
Weather:	Cloudy
Sea Conditions:	Small Wave
Zone	B

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
E1	0700-0718	46.0	E	0.5	*Surface*	27.3	27.3	27.3	26.6	26.7	26.7	5.8	5.7	5.7	84.5	84.2	84.4	1.3	1.4	1.4		2.2	2.3	2.3	
					Middle	27.3	27.2	27.3	26.8	26.9	26.9	5.8	5.8	5.8	85.8	85.4	85.6	2.1	2.1	2.1	2.0	2.9	3.0	3.0	3.0
					Bottom	27.2	27.1	27.2	27.0	27.1	27.1	5.5	5.4	5.4	80.4	79.5	80.0	2.7	2.7	2.7		3.5	3.8	3.7	
G7	0726-0740	32.2	E	0.7	*Surface*	27.3	27.2	27.3	26.5	26.5	26.5	5.6	5.6	5.6	82.6	82.0	82.3	1.4	1.5	1.5		2.5	2.6	2.6	
					Middle	27.1	27.1	27.1	26.6	26.7	26.7	5.4	5.4	5.4	79.8	79.4	79.6	1.9	1.9	1.9	1.9	2.7	3.0	2.9	3.0
					Bottom	27.0	27.0	27.0	26.8	26.9	26.9	5.2	5.2	5.2	76.4	76.0	76.2	2.4	2.4	2.4		3.4	3.6	3.5	
B3	0744-0800	12.8	E	0.4	*Surface*	27.4	27.3	27.4	26.4	26.5	26.5	5.4	5.3	5.4	79.1	78.5	78.8	1.3	1.3	1.3		2.4	2.5	2.5	
					Middle	27.3	27.2	27.3	26.6	26.7	26.7	5.2	5.2	5.2	76.1	75.7	75.9	1.8	1.8	1.8	1.8	2.6	2.6	2.6	2.8
					Bottom	27.1	27.0	27.1	26.8	26.0	26.4	5.2	5.1	5.1	76.1	75.0	75.6	2.3	2.3	2.3		3.4	3.3	3.4	
B2	0805-0818	15.2	E	0.3	*Surface*	27.4	27.4	27.4	26.7	26.8	26.8	5.6	5.7	5.7	82.9	83.6	83.3	2.0	2.1	2.1		3.0	3.0	3.0	
					Middle	27.3	27.3	27.3	26.9	26.9	26.9	5.3	5.3	5.3	77.5	77.6	77.6	2.5	2.6	2.5	2.5	3.4	3.1	3.3	3.4
					Bottom	27.2	27.1	27.2	27.0	27.1	27.1	5.4	5.3	5.3	78.8	78.2	78.5	2.9	3.0	3.0		3.9	3.8	3.9	
B1	0824-0838	10.4	E	0.4	*Surface*	27.5	27.4	27.5	26.7	26.7	26.7	5.4	5.3	5.4	78.9	78.7	78.8	1.9	1.9	1.9		2.9	2.8	2.9	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	4.9	4.9	4.9	72.5	72.1	72.3	2.4	2.4	2.4	2.3	3.4	3.6	3.5	3.3
					Bottom	27.2	27.2	27.2	27.0	27.1	27.1	4.8	4.7	4.8	70.6	69.4	70.0	2.6	2.6	2.6		3.3	3.5	3.4	
E6	0843-0859	26.2	E	0.7	*Surface*	27.4	27.5	27.5	26.6	26.7	26.7	5.6	5.6	5.6	82.6	81.9	82.3	1.9	2.0	2.0		2.7	2.8	2.8	
					Middle	27.4	27.4	27.4	26.8	26.8	26.8	5.3	5.3	5.3	78.2	77.8	78.0	2.3	2.3	2.3	2.2	3.1	3.4	3.3	3.2
					Bottom	27.5	27.5	27.5	26.9	27.0	27.0	5.4	5.3	5.3	78.8	78.2	78.5	2.4	2.5	2.4		3.5	3.5	3.5	
G4	0902-0916	24.6	E	0.6	*Surface*	27.4	27.4	27.4	26.7	26.7	26.7	5.8	5.8	5.8	85.3	84.5	84.9	2.5	2.4	2.5		3.2	3.4	3.3	
					Middle	27.3	27.2	27.3	26.8	26.9	26.9	5.7	5.6	5.7	83.5	82.8	83.2	2.6	2.6	2.6	2.6	3.6	3.8	3.7	3.6
					Bottom	27.2	27.1	27.2	27.0	27.1	27.1	5.5	5.4	5.5	80.7	80.0	80.4	2.9	2.8	2.8		3.8	3.7	3.8	
E2	0919-0936	7.8	E	0.5	*Surface*	27.4	27.5	27.5	26.7	2.8	14.8	5.4	5.3	5.4	79.1	78.2	78.7	2.2	2.3	2.3		3.3	3.2	3.3	
					Middle	27.4	27.4	27.4	26.9	27.0	27.0	5.2	5.2	5.2	76.7	76.1	76.4	2.5	2.5	2.5	2.6	3.4	3.6	3.5	3.6
					Bottom	27.3	27.3	27.3	27.1	27.1	27.1	5.0	4.9	4.9	73.1	72.3	72.7	2.9	3.0	2.9		3.9	4.0	4.0	
C2	0941-0956	30.4	E	0.4	*Surface*	27.5	27.4	27.5	26.6	26.7	26.7	6.4	6.3	6.4	93.9	92.9	93.4	2.1	2.1	2.1		3.0	3.3	3.2	
					Middle	27.4	27.4	27.4	26.8	26.8	26.8	6.1	6.1	6.1	90.1	89.4	89.8	2.3	2.3	2.3	2.3	3.3	3.4	3.4	3.4
					Bottom	27.3	27.2	27.3	26.9	27.0	27.0	5.8	5.8	5.8	85.6	84.8	85.2	2.6	2.7	2.6		3.7	3.6	3.7	
F1	1004-1019	7.4	E	0.4	*Surface*	27.5	27.4	27.5	26.7	26.7	26.7	5.5	5.5	5.5	81.0	80.7	80.9	2.8	2.8	2.8		3.6	3.7	3.7	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	4.7	4.6	4.7	69.1	68.2	68.7	3.1	3.1	3.1	3.0	4.1	4.0	4.1	4.0
					Bottom	27.3	27.2	27.3	27.0	27.1	27.1	4.6	4.6	4.6	67.9	67.2	67.6	3.2	3.3	3.2		4.2	4.4	4.3	
G3	1022-1037	12.4	E	0.5	*Surface*	27.5	27.4	27.5	26.6	26.7	26.7	5.2	5.1	5.2	76.6	75.6	76.1	2.7	2.7	2.7		3.8	3.9	3.9	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	5.3	5.3	5.3	78.4	77.8	78.1	3.1	3.0	3.1	3.0	4.1	4.0	4.1	4.1
					Bottom	27.2	27.1	27.2	27.0	27.0	27.0	5.2	5.2	5.2	76.9	76.6	76.8	3.3	3.3	3.3		4.5	4.3	4.4	
E9	1045-1101	18.6	E	0.4	*Surface*	27.4	27.4	27.4	26.6	26.7	26.7	5.3	5.3	5.3	78.1	77.2	77.7	3.7	3.7	3.7		4.8	4.9	4.9	
					Middle	27.3	27.3	27.3	26.8	26.9	26.9	5.1	5.1	5.1	74.5	74.2	74.4	3.9	3.9	3.9	3.9	5.1	4.9	5.0	5.0
					Bottom	27.2	27.1	27.2	27.0	27.1	27.1	4.9	4.9	4.9	71.7	72.2	72.0	4.2	4.2	4.2		5.1	5.2	5.2	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C37 Impact Water Quality Monitoring Results during Second Round Monitoring on 14 October 2012

Date:	14-Oct-12
Weather:	Cloudy
Sea Conditions:	Small Wave
Zone	B

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
E9	1102-1120	18.8	W	0.5	*Surface*	27.5	27.4	27.5	26.6	26.7	26.7	5.3	5.3	5.3	78.5	77.6	78.1	3.7	3.7	3.7		4.5	4.7	4.6	
					Middle	27.4	27.4	27.4	26.8	26.8	26.8	5.1	5.1	5.1	74.8	75.4	75.1	3.9	3.9	3.9	3.9	4.9	5.0	5.0	4.9
					Bottom	27.3	27.2	27.3	26.9	27.0	27.0	5.0	5.0	5.0	72.8	73.4	73.1	4.2	4.2	4.2		5.0	5.2	5.1	
G3	1128-1142	12.6	W	0.4	*Surface*	27.5	27.5	27.5	26.6	26.7	26.7	5.2	5.2	5.2	77.0	76.1	76.6	2.7	2.7	2.7		3.6	3.7	3.7	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	5.4	5.3	5.3	78.9	78.2	78.6	3.1	3.0	3.0	3.0	4.0	3.9	4.0	4.0
					Bottom	27.2	27.1	27.2	27.0	27.1	27.1	5.3	5.3	5.3	77.5	77.2	77.4	3.3	3.3	3.3		4.4	4.2	4.3	
F1	1146-1201	7.6	W	0.3	*Surface*	27.5	27.4	27.5	26.6	26.6	26.6	5.5	5.5	5.5	80.4	80.1	80.3	2.7	2.8	2.8		3.8	3.7	3.8	
					Middle	27.3	27.3	27.3	26.7	26.8	26.8	4.7	4.8	4.7	69.7	69.8	69.8	3.0	3.1	3.1	3.0	4.0	4.2	4.1	4.0
					Bottom	27.2	27.1	27.2	26.9	27.0	27.0	4.6	4.7	4.7	68.2	68.6	68.4	3.2	3.2	3.2		4.1	4.2	4.2	
C2	1208-1223	30.4	W	0.4	*Surface*	27.6	27.5	27.6	26.6	26.7	26.7	6.4	6.3	6.4	94.2	93.2	93.7	2.1	2.1	2.1		3.2	3.1	3.2	
					Middle	27.4	27.4	27.4	26.8	26.9	26.9	6.1	6.1	6.1	90.3	89.7	90.0	2.3	2.2	2.3	2.3	3.4	3.3	3.4	3.4
					Bottom	27.3	27.2	27.3	27.0	27.0	27.0	5.9	5.8	5.8	86.0	85.3	85.7	2.6	2.6	2.6		3.7	3.7	3.7	
E2	1232-1246	7.8	W	0.5	*Surface*	27.5	27.5	27.5	26.7	26.8	26.8	5.4	5.4	5.4	79.5	78.6	79.1	2.2	2.3	2.2		3.1	3.0	3.1	
					Middle	27.4	27.4	27.4	26.9	27.0	27.0	5.3	5.2	5.3	77.5	77.0	77.3	2.5	2.5	2.5	2.5	3.5	3.6	3.6	3.5
					Bottom	27.3	27.2	27.3	27.1	27.1	27.1	5.0	5.0	5.0	73.8	73.4	73.6	2.9	2.9	2.9		4.0	3.8	3.9	
G4	1249-1303	24.8	W	0.6	*Surface*	27.5	27.4	27.5	26.7	26.7	26.7	5.8	5.8	5.8	85.7	85.0	85.4	2.5	2.4	2.4		3.4	3.6	3.5	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	5.7	5.6	5.7	83.6	82.9	83.3	2.6	2.6	2.6	2.6	3.8	3.6	3.7	3.7
					Bottom	27.3	27.3	27.3	27.0	27.0	27.0	5.5	5.5	5.5	81.0	80.4	80.7	2.8	2.8	2.8		4.0	3.8	3.9	
E6	1307-1322	26.4	W	0.6	*Surface*	27.5	27.5	27.5	26.6	26.7	26.7	5.6	5.6	5.6	82.3	81.7	82.0	1.9	2.0	1.9		2.7	2.9	2.8	
					Middle	27.4	27.4	27.4	26.8	26.8	26.8	5.3	5.3	5.3	78.1	77.5	77.8	2.3	2.3	2.3	2.2	3.3	3.1	3.2	3.2
					Bottom	27.4	27.5	27.5	26.9	27.0	27.0	5.3	5.3	5.3	78.5	78.1	78.3	2.4	2.4	2.4		3.5	3.6	3.6	
B1	1326-1342	10.8	W	0.4	*Surface*	27.5	27.4	27.5	26.7	26.7	26.7	5.4	5.4	5.4	79.1	78.9	79.0	1.9	1.9	1.9		2.9	3.0	3.0	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	5.0	5.0	5.0	73.2	72.8	73.0	2.4	2.3	2.3	2.3	3.3	3.1	3.2	3.2
					Bottom	27.3	27.2	27.3	27.0	27.0	27.0	4.8	4.8	4.8	70.9	70.3	70.6	2.6	2.6	2.6		3.4	3.7	3.6	
B2	1347-1400	15.4	W	0.2	*Surface*	27.5	27.4	27.5	26.7	26.8	26.8	5.7	5.7	5.7	83.1	84.1	83.6	2.0	2.1	2.0		2.9	2.8	2.9	
					Middle	27.3	27.3	27.3	26.9	27.0	27.0	5.3	5.3	5.3	77.8	78.2	78.0	2.5	2.5	2.5	2.5	3.6	3.3	3.5	3.4
					Bottom	27.2	27.2	27.2	27.1	27.1	27.1	5.4	5.4	5.4	79.1	78.6	78.9	2.9	3.0	2.9		4.0	4.0	4.0	
B3	1404-1417	12.9	W	0.3	*Surface*	27.5	27.4	27.5	26.4	26.5	26.5	5.4	5.4	5.4	79.5	79.2	79.4	1.3	1.3	1.3		2.4	2.5	2.5	
					Middle	27.3	27.3	27.3	26.6	26.7	26.7	5.2	5.2	5.2	77.0	76.6	76.8	1.8	1.7	1.8	1.8	2.9	2.7	2.8	2.8
					Bottom	27.2	27.1	27.2	26.8	26.9	26.9	5.2	5.1	5.2	76.3	75.4	75.9	2.2	2.3	2.3		3.1	3.0	3.1	
G7	1424-1438	32.4	W	0.7	*Surface*	27.5	27.5	27.5	26.5	26.5	26.5	5.6	5.6	5.6	83.0	82.5	82.8	1.4	1.5	1.5		2.3	2.6	2.5	
					Middle	27.4	27.4	27.4	26.6	26.7	26.7	5.5	5.4	5.4	80.1	79.5	79.8	1.8	1.9	1.9	1.9	2.9	3.1	3.0	3.0
					Bottom	27.3	27.3	27.3	26.8	26.9	26.9	5.2	5.2	5.2	76.7	76.4	76.6	2.4	2.3	2.4		3.5	3.3	3.4	
E1	1444-1502	46.2	W	0.5	*Surface*	27.5	27.4	27.5	26.6	26.7	26.7	5.8	5.8	5.8	85.1	84.7	84.9	1.3	1.4	1.3		2.4	2.3	2.4	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	5.9	5.8	5.9	86.3	85.7	86.0	2.1	2.0	2.0	2.0	3.1	3.2	3.2	3.2
					Bottom	27.2	27.2	27.2	27.0	27.1	27.1	5.5	5.4	5.5	80.7	80.0	80.4	2.7	2.7	2.7		3.9	4.0	4.0	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C38 Impact Water Quality Monitoring Results during Third Round Monitoring on 14 October 2012

Date:	14-Oct-12
Weather:	Cloudy
Sea Conditions:	Small Wave
Zone	B

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
E1	1505-1520	46.3	W	0.5	*Surface*	27.4	27.5	27.5	26.6	26.6	26.6	5.9	5.8	5.8	86.0	85.4	85.7	1.3	1.4	1.4		2.4	2.3	2.4	
					Middle	27.3	27.3	27.3	26.9	26.8	26.9	5.8	5.8	5.8	85.1	84.5	84.8	2.0	2.0	2.0	2.0	3.0	3.2	3.1	3.1
					Bottom	27.2	27.1	27.2	27.0	27.1	27.1	5.5	5.5	5.5	81.0	81.4	81.2	2.7	2.7	2.7		3.9	3.7	3.8	
G7	1524-1539	32.6	W	0.7	*Surface*	27.5	27.4	27.5	26.5	26.5	26.5	5.6	5.6	5.6	81.9	82.4	82.2	1.4	1.5	1.5		2.6	2.4	2.5	
					Middle	27.3	27.4	27.4	26.6	26.7	26.7	5.4	5.4	5.4	79.4	79.8	79.6	1.9	1.9	1.9	1.9	3.1	2.8	3.0	3.0
					Bottom	27.2	27.3	27.3	26.9	26.9	26.9	5.3	5.2	5.2	77.3	76.9	77.1	2.4	2.4	2.4		3.5	3.4	3.5	
B3	1544-1559	13.0	W	0.4	*Surface*	27.5	27.5	27.5	26.7	26.6	26.7	5.4	5.4	5.4	78.6	79.4	79.0	1.4	1.3	1.4		2.5	2.3	2.4	
					Middle	27.3	27.4	27.4	26.9	26.8	26.9	5.2	5.2	5.2	76.3	75.7	76.0	1.8	1.8	1.8	1.8	2.9	2.9	2.9	2.9
					Bottom	27.2	27.2	27.2	27.0	27.1	27.1	5.1	5.1	5.1	74.4	74.8	74.6	2.3	2.3	2.3		3.3	3.2	3.3	
B2	1604-1619	15.6	W	0.3	*Surface*	27.4	27.4	27.4	26.8	26.8	26.8	5.7	5.7	5.7	83.8	84.4	84.1	2.1	2.1	2.1		3.0	3.2	3.1	
					Middle	27.3	27.3	27.3	26.9	27.0	27.0	5.4	5.4	5.4	79.4	78.9	79.2	2.4	2.4	2.4	2.5	3.4	3.3	3.4	3.4
					Bottom	27.2	27.1	27.2	27.2	27.1	27.2	5.5	5.5	5.5	80.3	80.7	80.5	3.0	3.0	3.0		3.9	3.8	3.9	
B1	1624-1639	10.8	W	0.4	*Surface*	27.5	27.4	27.5	26.7	26.6	26.7	5.3	5.3	5.3	77.9	78.4	78.2	2.0	2.0	2.0		3.0	3.2	3.1	
					Middle	27.3	27.4	27.4	26.8	26.8	26.8	4.9	4.9	4.9	72.5	72.0	72.3	2.4	2.4	2.4	2.3	3.3	3.6	3.5	3.5
					Bottom	27.2	27.2	27.2	27.0	26.9	27.0	4.8	4.8	4.8	70.7	71.1	70.9	2.7	2.6	2.6		3.9	4.0	4.0	
E6	1643-1658	26.6	W	0.5	*Surface*	27.4	27.4	27.4	26.7	26.6	26.7	5.8	5.7	5.7	84.7	83.8	84.3	1.9	1.9	1.9		2.9	3.1	3.0	
					Middle	27.3	27.3	27.3	26.8	26.9	26.9	5.3	5.4	5.4	78.5	78.8	78.7	2.3	2.3	2.3	2.2	3.3	3.4	3.4	3.2
					Bottom	27.1	27.2	27.2	27.0	27.1	27.1	5.2	5.3	5.3	77.0	77.5	77.3	2.5	2.5	2.5		3.4	3.3	3.4	
G4	1701-1716	25.0	W	0.6	*Surface*	27.4	27.5	27.5	26.7	26.7	26.7	5.9	5.9	5.9	86.6	86.9	86.8	2.4	2.5	2.5		3.5	3.6	3.6	
					Middle	27.3	27.3	27.3	26.9	26.9	26.9	5.7	5.7	5.7	83.8	84.4	84.1	2.7	2.7	2.7	2.7	3.9	3.8	3.9	3.8
					Bottom	27.2	27.2	27.2	27.1	27.0	27.1	5.6	5.6	5.6	82.5	82.0	82.3	2.9	2.9	2.9		4.0	3.8	3.9	
E2	1720-1735	8.2	W	0.4	*Surface*	27.5	27.4	27.5	26.7	26.8	26.8	5.4	5.5	5.5	80.0	80.4	80.2	2.3	2.3	2.3		3.3	3.4	3.4	
					Middle	27.4	27.3	27.4	26.9	26.9	26.9	5.3	5.3	5.3	78.2	77.8	78.0	2.5	2.5	2.5	2.6	3.6	3.6	3.6	3.6
					Bottom	27.2	27.3	27.3	27.0	27.1	27.1	5.1	5.0	5.1	74.8	73.9	74.4	2.9	2.9	2.9		3.9	3.7	3.8	
C2	1740-1755	30.2	W	0.5	*Surface*	27.5	27.5	27.5	26.6	26.6	26.6	6.3	6.4	6.3	92.9	93.5	93.2	2.1	2.1	2.1		3.3	3.1	3.2	
					Middle	27.4	27.3	27.4	26.8	26.9	26.9	6.2	6.2	6.2	90.8	90.4	90.6	2.3	2.4	2.4	2.4	3.5	3.6	3.6	3.5
					Bottom	27.2	27.1	27.2	27.1	27.0	27.1	5.9	5.9	5.9	87.0	86.3	86.7	2.6	2.6	2.6		3.8	3.5	3.7	
F1	1804-1820	8.2	W	0.3	*Surface*	27.4	27.4	27.4	26.6	26.7	26.7	5.5	5.5	5.5	81.4	81.0	81.2	2.7	2.7	2.7		3.5	3.6	3.6	
					Middle	27.2	27.3	27.3	26.8	26.8	26.8	4.9	4.8	4.9	71.6	71.0	71.3	3.0	3.1	3.0	3.0	4.1	4.4	4.3	4.1
					Bottom	27.1	27.1	27.1	26.9	27.0	27.0	4.7	4.7	4.7	69.4	68.6	69.0	3.2	3.2	3.2		4.5	4.2	4.4	
G3	1823-1838	13.0	W	0.4	*Surface*	27.4	27.5	27.5	26.7	26.7	26.7	5.4	5.3	5.3	78.6	77.9	78.3	2.5	2.6	2.5		3.4	3.5	3.5	
					Middle	27.3	27.2	27.3	26.8	26.8	26.8	5.2	5.2	5.2	76.6	76.0	76.3	3.0	3.0	3.0	2.9	4.2	3.9	4.1	3.9
					Bottom	27.1	27.0	27.1	26.9	27.1	27.0	5.4	5.4	5.4	79.4	78.8	79.1	3.2	3.3	3.2		4.3	4.3	4.3	
E9	1845-1902	19.4	W	0.4	*Surface*	27.4	27.4	27.4	26.7	26.6	26.7	5.3	5.3	5.3	78.4	77.8	78.1	3.6	3.6	3.6		4.4	4.5	4.5	
					Middle	27.3	27.2	27.3	26.8	26.8	26.8	5.2	5.1	5.1	75.9	75.3	75.6	3.8	3.9	3.8	3.9	4.8	4.9	4.9	4.8
					Bottom	27.1	27.1	27.1	27.1	27.2	27.2	4.9	5.0	5.0	72.5	73.1	72.8	4.1	4.1	4.1		4.9	5.2	5.1	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C39 Impact Water Quality Monitoring Results during Forth Round Monitoring on 14 October 2012

Date:	14-Oct-12
Weather:	Cloudy
Sea Conditions:	Small Wave
Zone	B

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms^{-1})	Monitoring Depth	Temperrature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
E9	1905-1920	19.6	W	0.3	*Surface*	27.5	27.4	27.5	26.6	26.6	26.6	5.4	5.4	5.4	79.4	79.7	79.6	3.5	3.5	3.5		4.6	4.4	4.5	
					Middle	27.3	27.3	27.3	26.8	26.9	26.9	5.3	5.3	5.3	77.3	77.8	77.6	3.8	3.8	3.8	3.8	4.9	4.7	4.8	4.8
					Bottom	27.1	27.1	27.1	27.2	27.2	27.2	5.0	5.0	5.0	73.4	72.9	73.2	4.0	4.1	4.1		5.1	5.0	5.1	
G3	1924-1940	13.2	W	0.4	*Surface*	27.4	27.3	27.4	26.7	26.6	26.7	5.3	5.3	5.3	78.1	77.7	77.9	2.5	2.5	2.5		3.4	3.6	3.5	
					Middle	27.3	27.2	27.3	26.8	26.7	26.8	5.3	5.2	5.3	77.5	77.0	77.3	2.9	3.0	2.9	2.9	4.1	4.2	4.2	4.0
					Bottom	27.0	27.0	27.0	26.9	27.0	27.0	5.4	5.4	5.4	79.1	79.2	79.2	3.2	3.2	3.2		4.5	4.4	4.5	
F1	1944-1959	8.4	W	0.4	*Surface*	27.4	27.3	27.4	26.7	26.8	26.8	5.5	5.5	5.5	80.9	80.7	80.8	2.6	2.6	2.6		3.6	3.4	3.5	
					Middle	27.3	27.3	27.3	26.8	26.9	26.9	5.4	5.4	5.4	79.1	78.8	79.0	3.0	2.9	2.9	2.9	3.9	4.1	4.0	4.0
					Bottom	27.0	27.1	27.1	27.0	27.0	27.0	5.5	5.5	5.5	81.3	80.9	81.1	3.2	3.2	3.2		4.3	4.4	4.4	
C2	2002-2017	30.4	W	0.5	*Surface*	27.5	27.5	27.5	26.6	26.7	26.7	6.3	6.3	6.3	92.8	92.5	92.7	2.1	2.1	2.1		3.0	2.9	3.0	
					Middle	27.3	27.4	27.4	26.8	26.9	26.9	6.2	6.2	6.2	91.1	90.7	90.9	2.3	2.3	2.3	2.3	3.3	3.4	3.4	3.3
					Bottom	27.2	27.1	27.2	27.0	27.0	27.0	6.0	6.0	6.0	88.1	87.5	87.8	2.4	2.4	2.4		3.5	3.5	3.5	
E2	2021-2036	8.4	W	0.4	*Surface*	27.4	27.5	27.5	26.7	26.6	26.7	5.6	5.6	5.6	82.3	82.9	82.6	2.4	2.4	2.4		3.3	3.5	3.4	
					Middle	27.3	27.3	27.3	26.8	26.8	26.8	5.4	5.5	5.4	79.5	80.4	80.0	2.4	2.4	2.4	2.5	3.3	3.3	3.3	3.5
					Bottom	27.2	27.2	27.2	27.0	27.1	27.1	5.3	5.3	5.3	77.5	77.2	77.4	2.8	2.8	2.8		3.8	4.0	3.9	
G4	2041-2056	25.2	W	0.5	*Surface*	27.4	27.5	27.5	26.8	26.9	26.9	6.0	6.0	6.0	87.5	87.8	87.7	2.4	2.5	2.4		3.5	3.4	3.5	
					Middle	27.2	27.3	27.3	26.9	26.9	26.9	5.8	5.8	5.8	84.9	84.7	84.8	2.6	2.6	2.6	2.6	3.6	3.4	3.5	3.6
					Bottom	27.2	27.1	27.2	27.1	27.0	27.1	5.7	5.7	5.7	83.8	84.4	84.1	2.7	2.8	2.8		3.6	3.8	3.7	
E6	2105-2120	26.8	W	0.5	*Surface*	27.4	27.4	27.4	26.6	26.7	26.7	5.8	5.9	5.8	85.4	85.9	85.7	1.8	1.7	1.7		2.7	2.7	2.7	
					Middle	27.3	27.3	27.3	26.7	26.8	26.8	5.5	5.6	5.6	80.9	82.2	81.6	2.3	2.2	2.3	2.1	3.3	3.5	3.4	3.2
					Bottom	27.1	27.2	27.2	27.0	27.0	27.0	5.4	5.4	5.4	78.8	79.4	79.1	2.4	2.4	2.4		3.5	3.4	3.5	
B1	2123-2137	11.0	W	0.5	*Surface*	27.4	27.3	27.4	26.7	26.6	26.7	5.5	5.5	5.5	80.7	80.1	80.4	1.8	1.9	1.9		2.9	3.2	3.1	
					Middle	27.3	27.3	27.3	26.8	26.9	26.9	5.0	5.0	5.0	73.6	73.9	73.8	2.4	2.4	2.4	2.3	3.5	3.6	3.6	3.5
					Bottom	27.1	27.2	27.2	27.0	27.1	27.1	5.0	5.0	5.0	72.9	73.4	73.2	2.6	2.6	2.6		3.9	4.0	4.0	
B2	2145-2203	15.8	W	0.4	*Surface*	27.4	27.5	27.5	26.7	26.7	26.7	5.9	5.9	5.9	86.9	87.2	87.1	2.0	2.1	2.0		3.1	3.0	3.1	
					Middle	27.3	27.4	27.4	26.8	26.9	26.9	5.6	5.6	5.6	82.0	81.6	81.8	2.3	2.4	2.3	2.4	3.6	3.4	3.5	3.5
					Bottom	27.2	27.1	27.2	27.1	27.0	27.1	5.4	5.4	5.4	79.4	79.8	79.6	2.9	3.0	3.0		3.9	3.7	3.8	
B3	2208-2223	13.2	W	0.3	*Surface*	27.6	27.5	27.6	26.7	26.6	26.7	5.4	5.4	5.4	79.2	79.5	79.4	1.5	1.5	1.5		2.3	2.6	2.5	
					Middle	27.4	27.4	27.4	26.8	26.8	26.8	5.2	5.2	5.2	76.1	76.4	76.3	1.7	1.8	1.8	1.8	2.9	2.7	2.8	2.8
					Bottom	27.1	27.2	27.2	27.0	27.0	27.0	5.0	5.0	5.0	73.8	74.0	73.9	2.2	2.2	2.2		3.0	3.1	3.1	
G7	2228-2244	32.8	W	0.3	*Surface*	27.5	27.4	27.5	26.4	26.5	26.5	5.7	5.7	5.7	83.5	83.6	83.6	1.3	1.4	1.4		2.3	2.5	2.4	
					Middle	27.4	27.3	27.4	26.7	26.8	26.8	5.6	5.5	5.5	81.7	81.0	81.4	1.8	1.9	1.9	1.9	2.9	2.9	2.9	2.9
					Bottom	27.2	27.1	27.2	26.9	26.9	26.9	5.1	5.1	5.1	75.4	74.9	75.2	2.4	2.4	2.4		3.4	3.2	3.3	
E1	2249-2304	46.0	W	0.5	*Surface*	27.5	27.6	27.6	26.7	26.8	26.8	5.9	5.9	5.9	87.2	86.7	87.0	1.3	1.3	1.3		2.4	2.3	2.4	
					Middle	27.4	27.4	27.4	26.8	26.7	26.8	5.8	5.8	5.8	85.4	85.7	85.6	2.0	1.9	1.9	1.9	2.9	2.8	2.9	2.9
					Bottom	27.1	27.1	27.1	27.0	27.1	27.1	5.7	5.7	5.7	83.5	83.8	83.7	2.6	2.6	2.6		3.5	3.7	3.6	

Remark or Obsevation:

Note: * Average ** Depth Average

Annex C40 Summary of Compliance with Action and Limit Level for Zone B

Compliance with Action Level and Limit Level for Zone B - Round 1 (07:00), 14 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.72	4.72	4.52	3.01	4.09
	Or Action Level (C2*1.2)	N.A.	N.A.	N.A.	2.80	4.06
	Limit Level (Baseline)	4.57	4.57	4.44	3.13	4.60
	And Limit Level (C2*1.3)	N.A.	N.A.	N.A.	3.04	4.40
B1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E6	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	Y	Y
F1	Exceedance of Action Level	N	Y	N	Y	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone B - Round 2 (11;00), 14 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.72	4.72	4.52	3.01	4.09
	Or Action Level (C2*1.2)	N.A.	N.A.	N.A.	2.78	4.08
	Limit Level (Baseline)	4.57	4.57	4.44	3.13	4.60
	And Limit Level (C2*1.3)	N.A.	N.A.	N.A.	3.01	4.42
B1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E6	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	Y	Y
F1	Exceedance of Action Level	N	N	N	Y	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

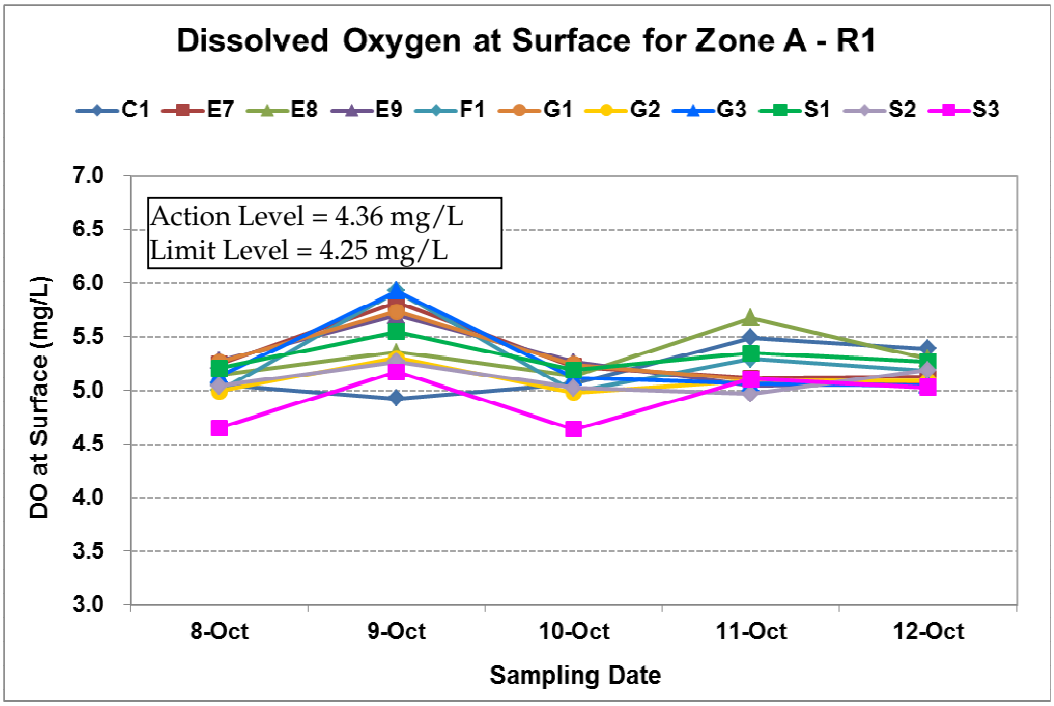
Annex C41 Summary of Compliance with Action and Limit Level for Zone B

Compliance with Action Level and Limit Level for Zone B - Round 3 (15:00), 14 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.72	4.72	4.52	3.01	4.09
	Or Action Level (C2*1.2)	N.A.	N.A.	N.A.	2.83	4.16
	Limit Level (Baseline)	4.57	4.57	4.44	3.13	4.60
	And Limit Level (C2*1.3)	N.A.	N.A.	N.A.	3.06	4.51
B1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E6	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	Y	Y
F1	Exceedance of Action Level	N	N	N	Y	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged

Compliance with Action Level and Limit Level for Zone B - Round 4 (19:00), 14 October						
Station	Limits	Surface DO (mg/L)	Middle DO (mg/L)	Bottom DO (mg/L)	* DA Turbidity (NTU)	*DA SS (mg/L)
	Action Level (Baseline)	4.72	4.72	4.52	3.01	4.09
	Or Action Level (C2*1.2)	N.A.	N.A.	N.A.	2.71	3.92
	Limit Level (Baseline)	4.57	4.57	4.44	3.13	4.60
	And Limit Level (C2*1.3)	N.A.	N.A.	N.A.	2.93	4.25
B1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
B3	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E1	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E2	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E6	Exceedance of Action Level	N	N	N	N	N
	Exceedance of Limit Level	N	N	N	N	N
E9	Exceedance of Action Level	N	N	N	Y	Y
	Exceedance of Limit Level	N	N	N	Y	Y
F1	Exceedance of Action Level	N	N	N	Y	N
	Exceedance of Limit Level	N	N	N	N	N

*DA: Depth-averaged



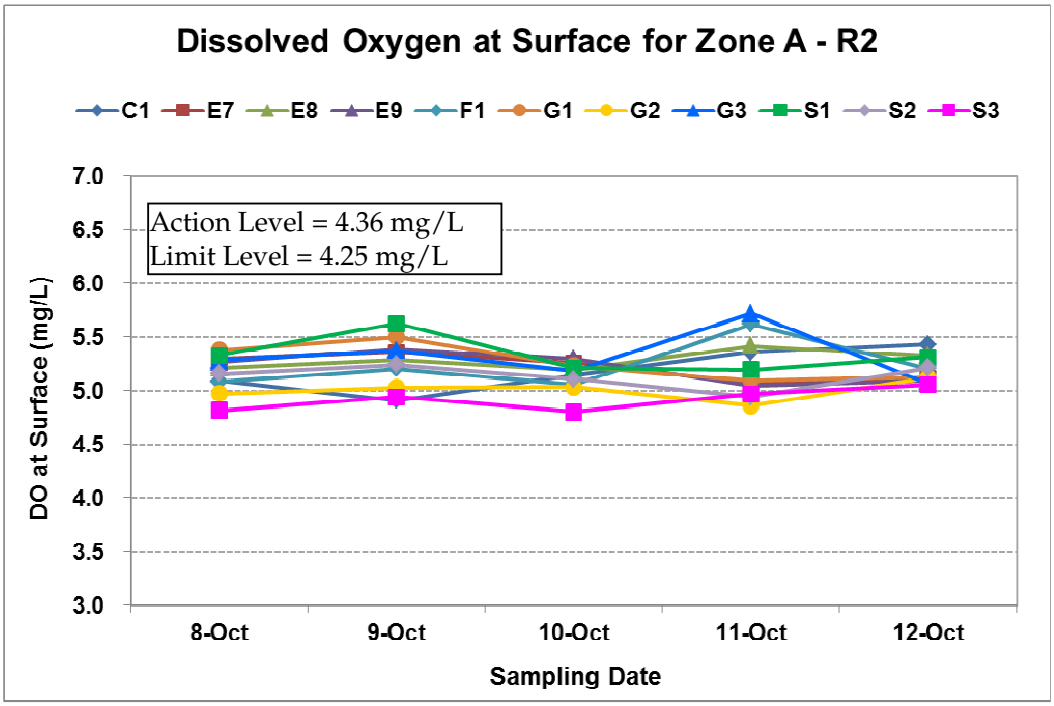
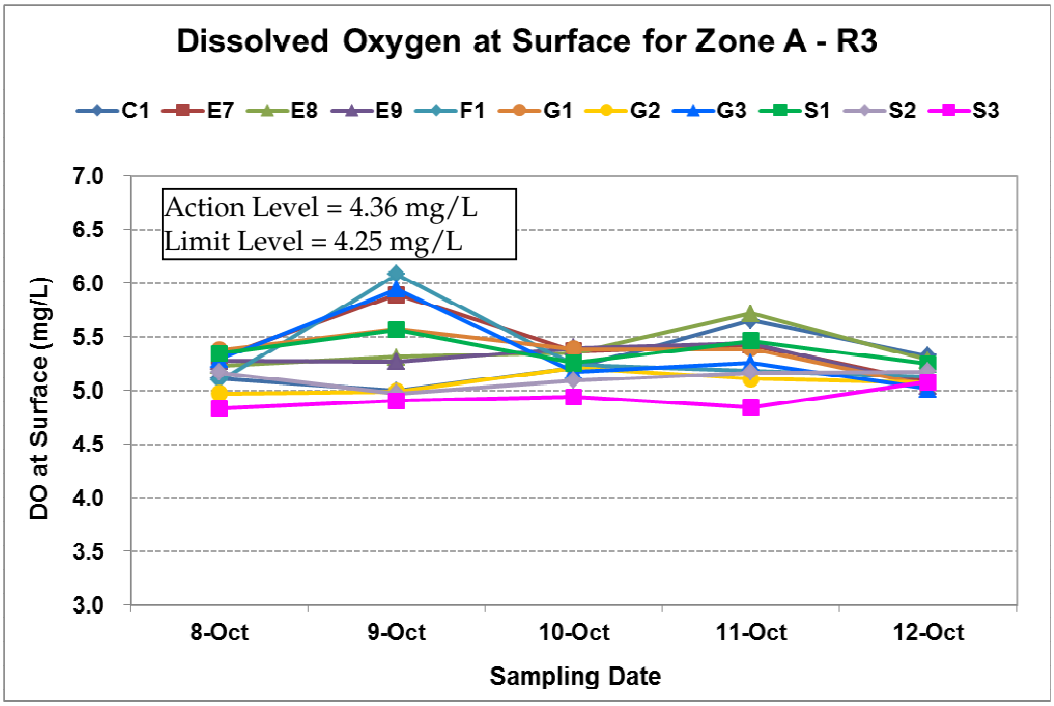


Figure C1 Dissolved oxygen (mg/L) at surface of water column measured during the impact monitoring Round 1 (07:00) and Round 2 (11:00) period from 8 October to 12 October for Zone A



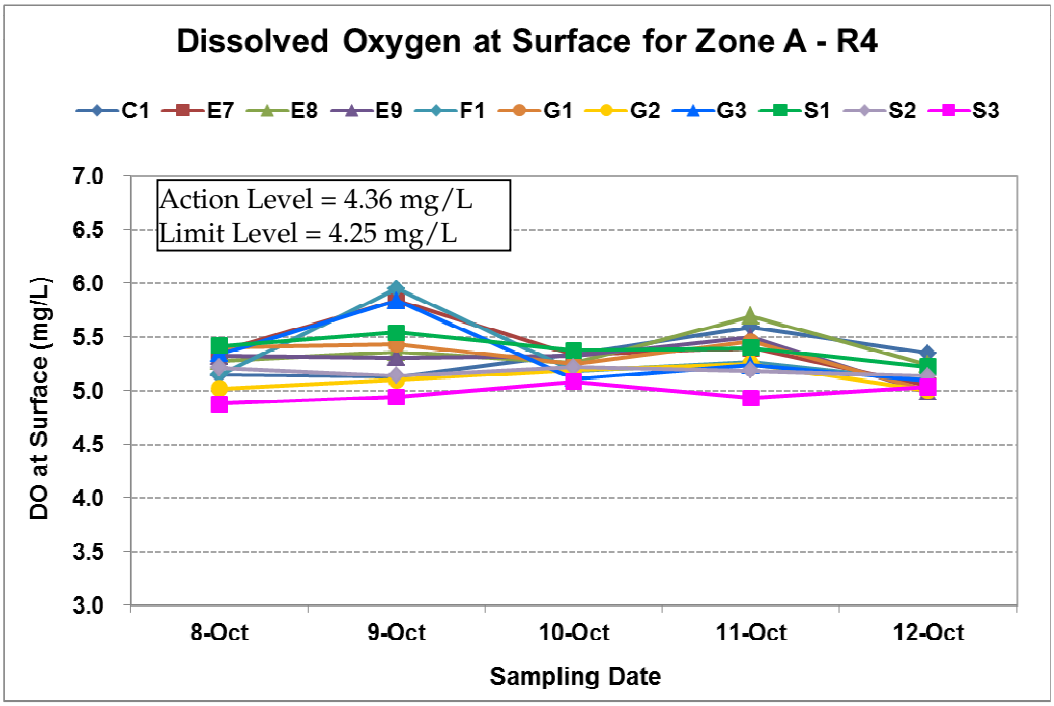
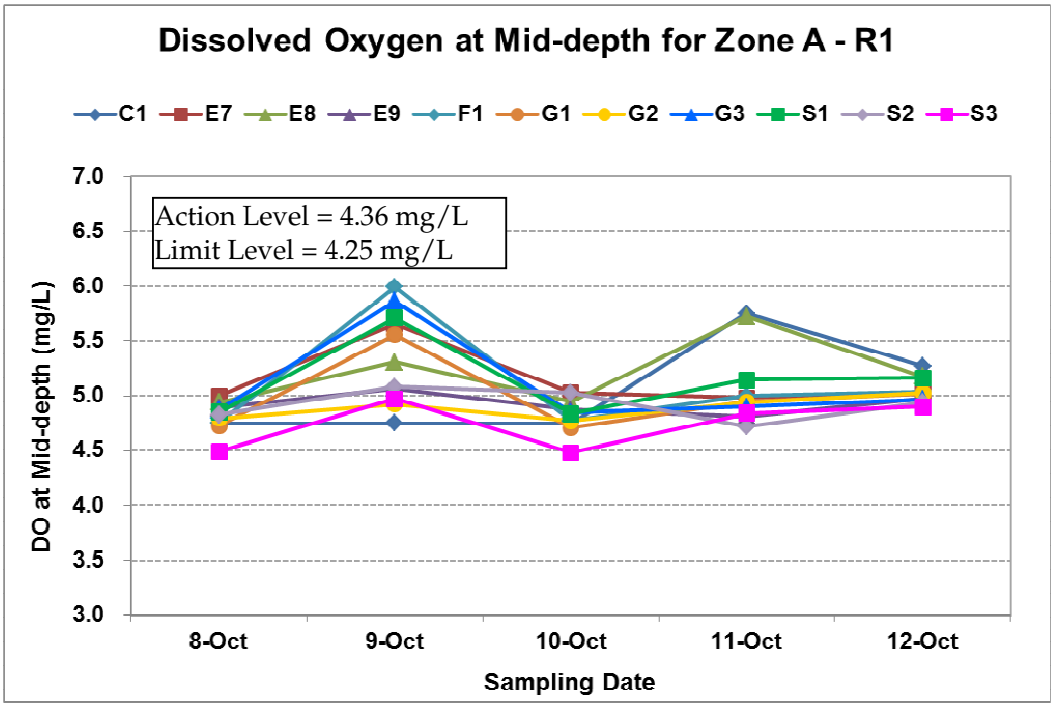


Figure C2 Dissolved oxygen (mg/L) at surface of water column measured during the impact monitoring Round 3 (15:00) and Round 4 (19:00) period from 8 October to 12 October for Zone A



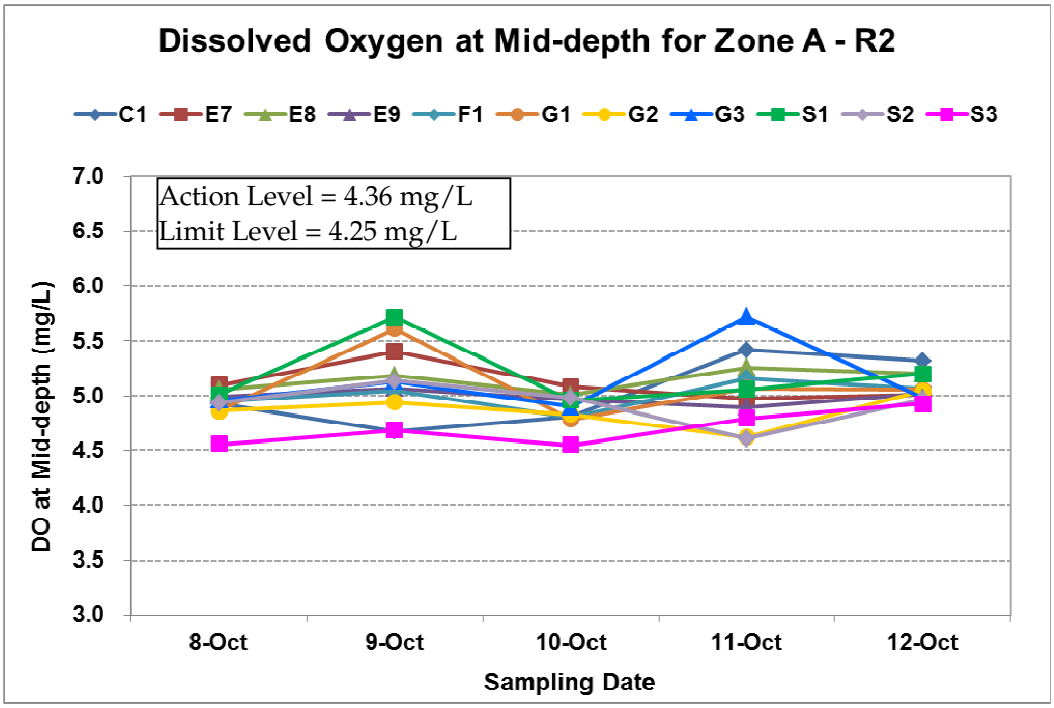
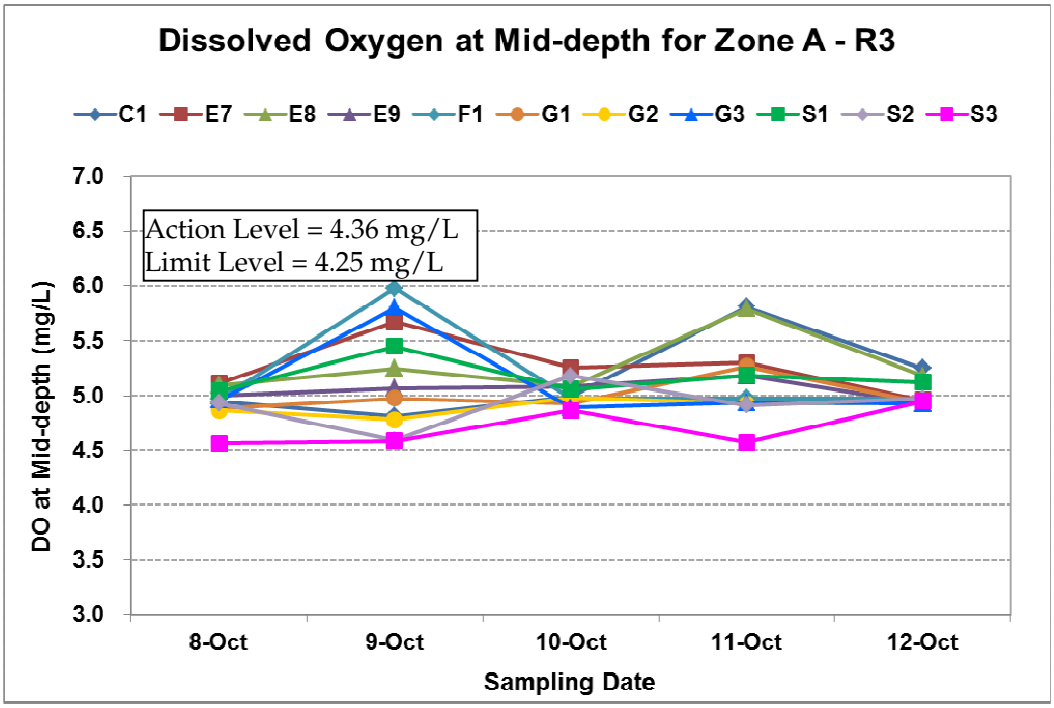


Figure C3 Dissolved oxygen (mg/L) at mid-depth of water column measured during the impact monitoring Round 1 (07:00) and Round 2 (11:00) period from 8 October to 12 October for Zone A



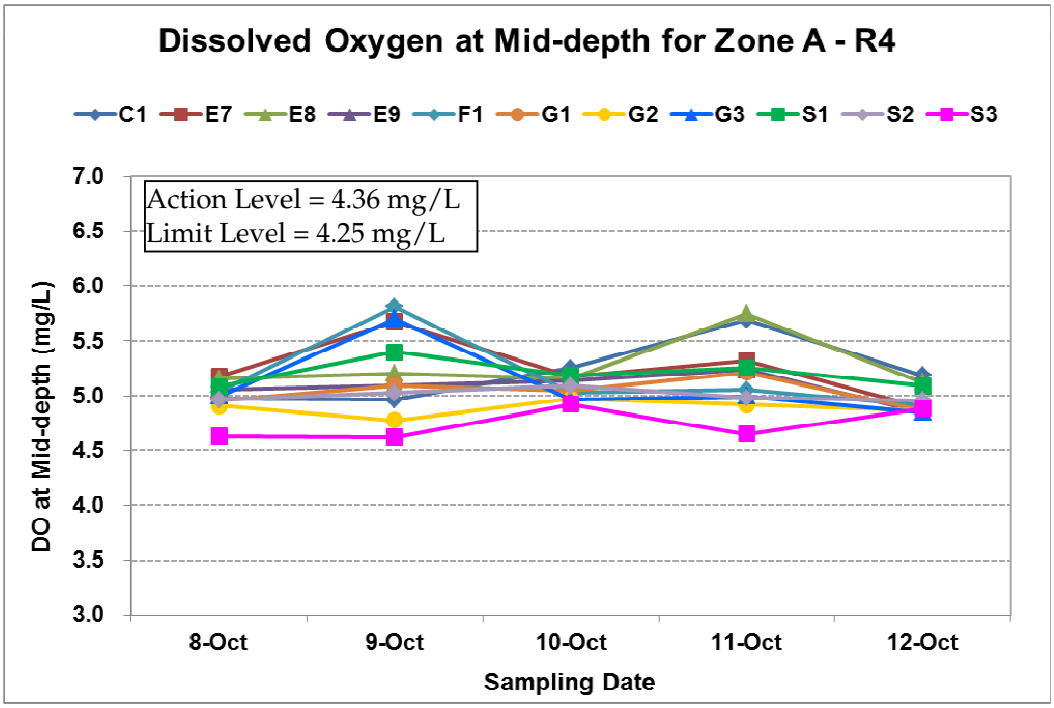
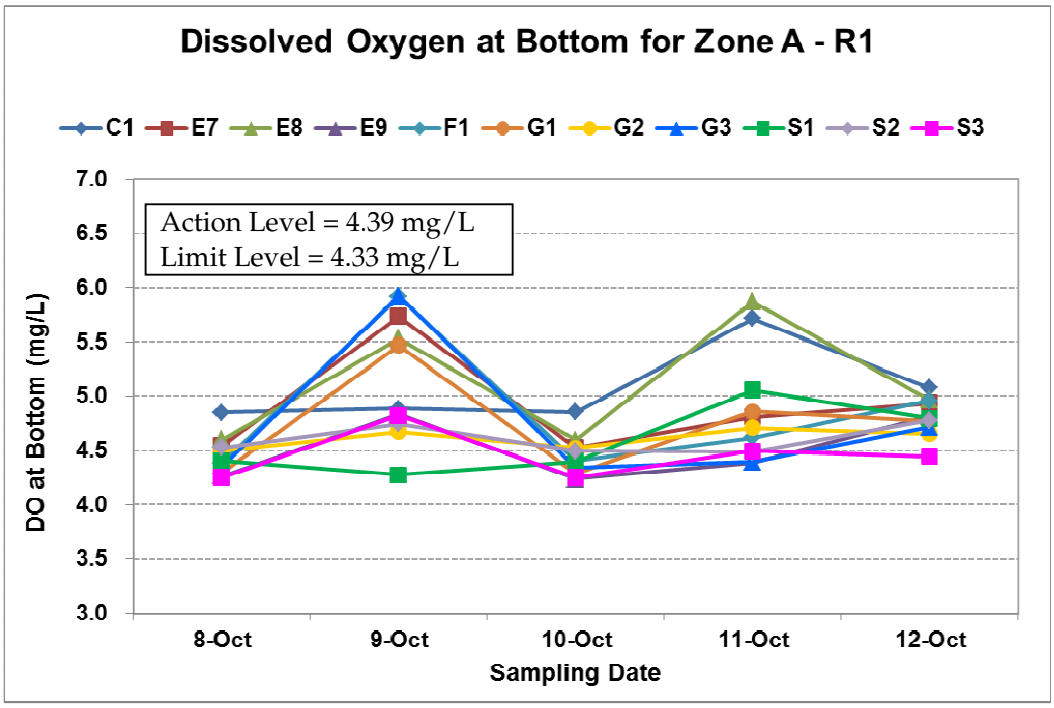


Figure C4 Dissolved oxygen (mg/L) at mid-depth of water column measured during the impact monitoring Round 3 (15:00) and Round 4 (19:00) period from 8 October to 12 October for Zone A



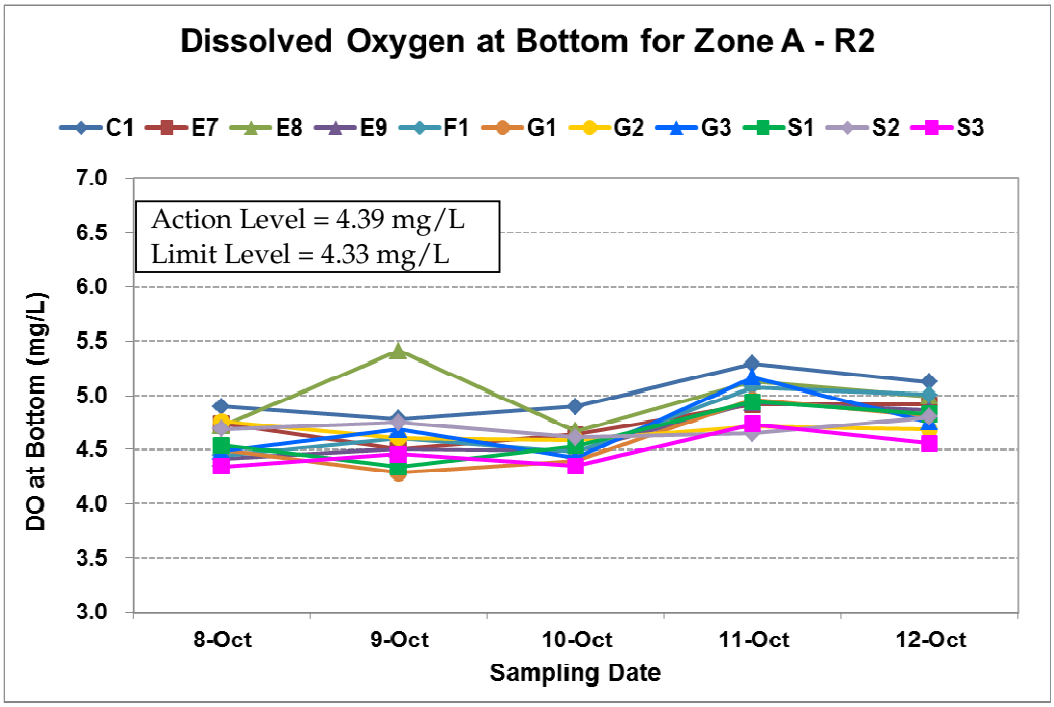
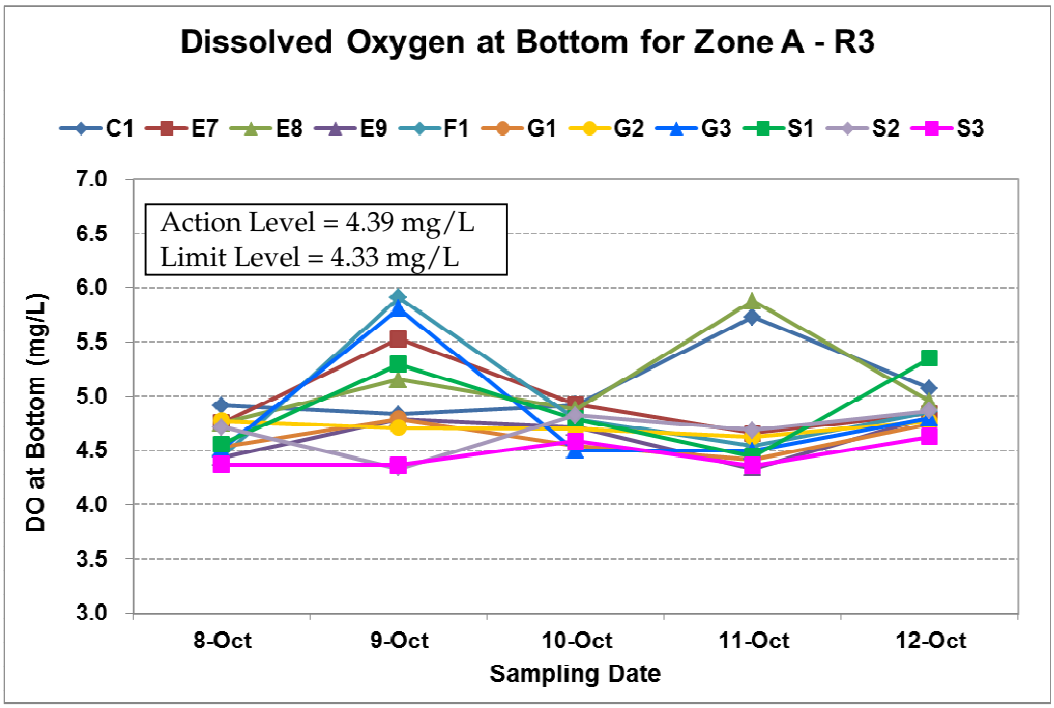


Figure C5 Dissolved oxygen (mg/L) at bottom of water column measured during the impact monitoring Round 1 (07:00) and Round 2 (11:00) period from 8 October to 12 October for Zone A



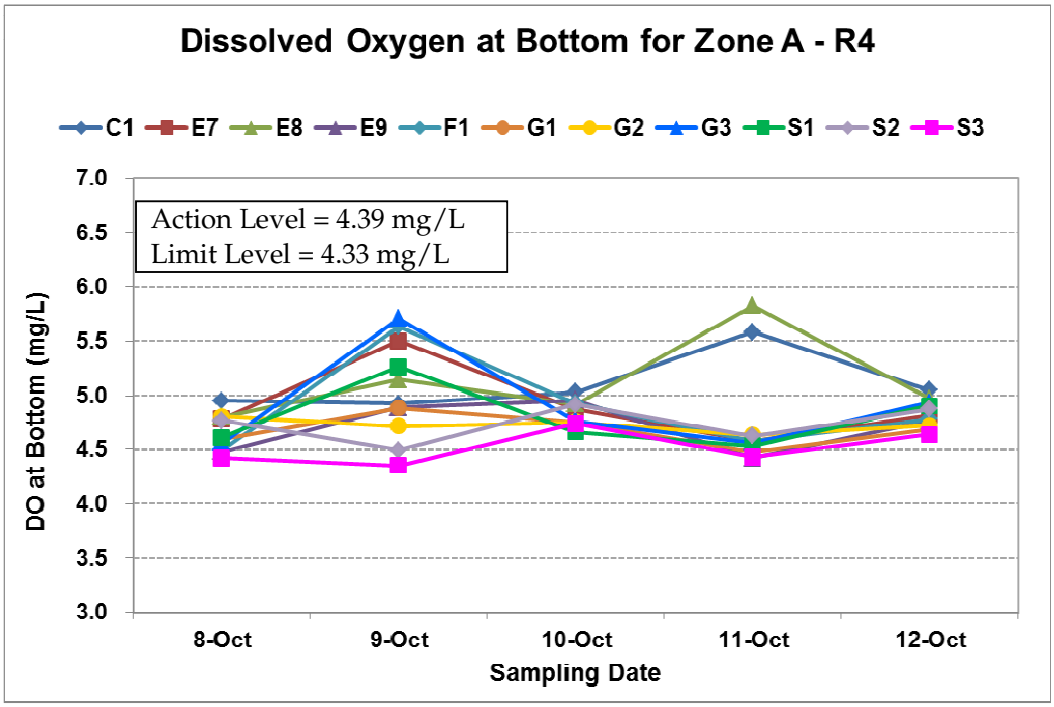
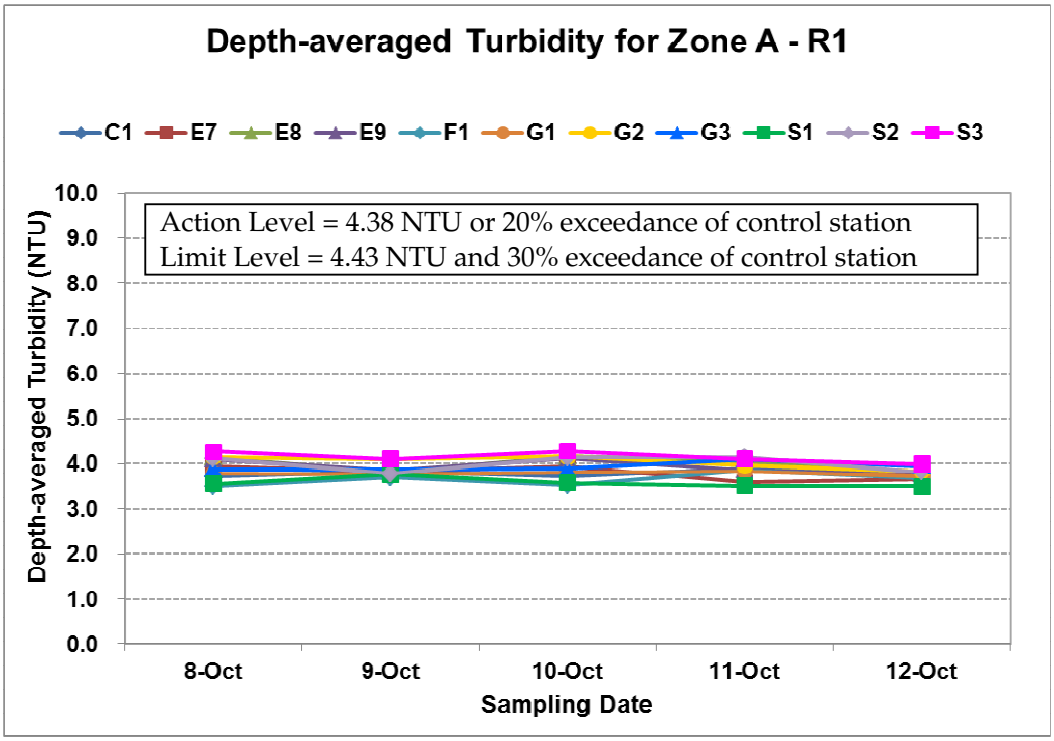


Figure C6 Dissolved oxygen (mg/L) at bottom of water column measured during the impact monitoring Round 3 (15:00) and Round 4 (19:00) period from 8 October to 12 October for Zone A



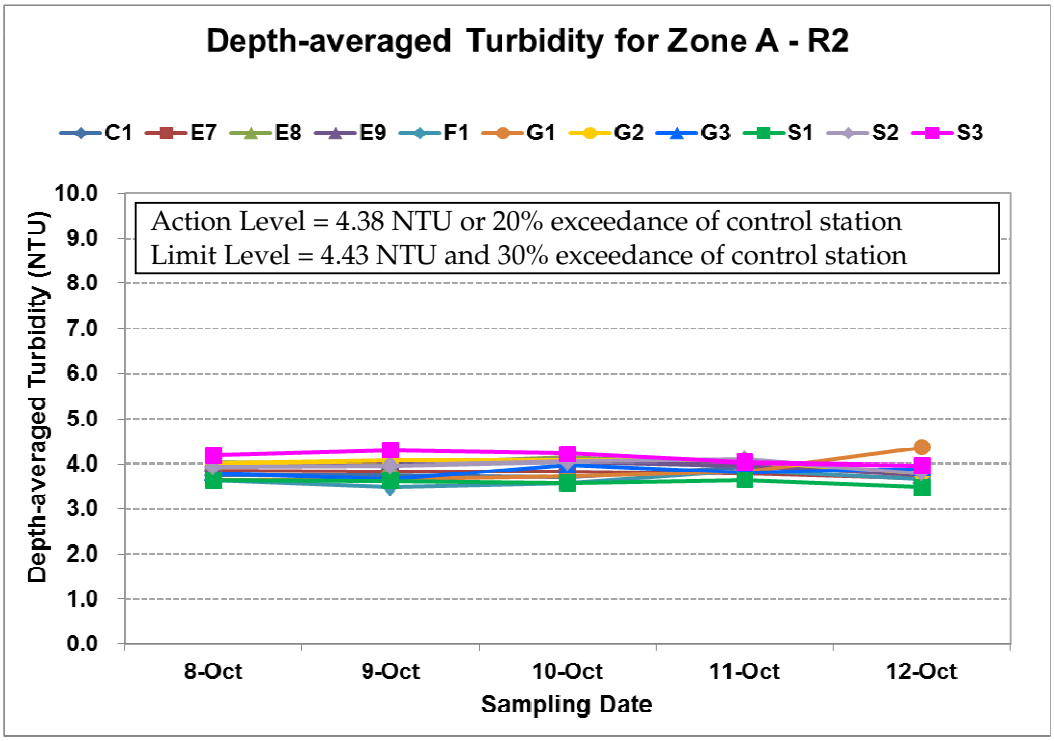
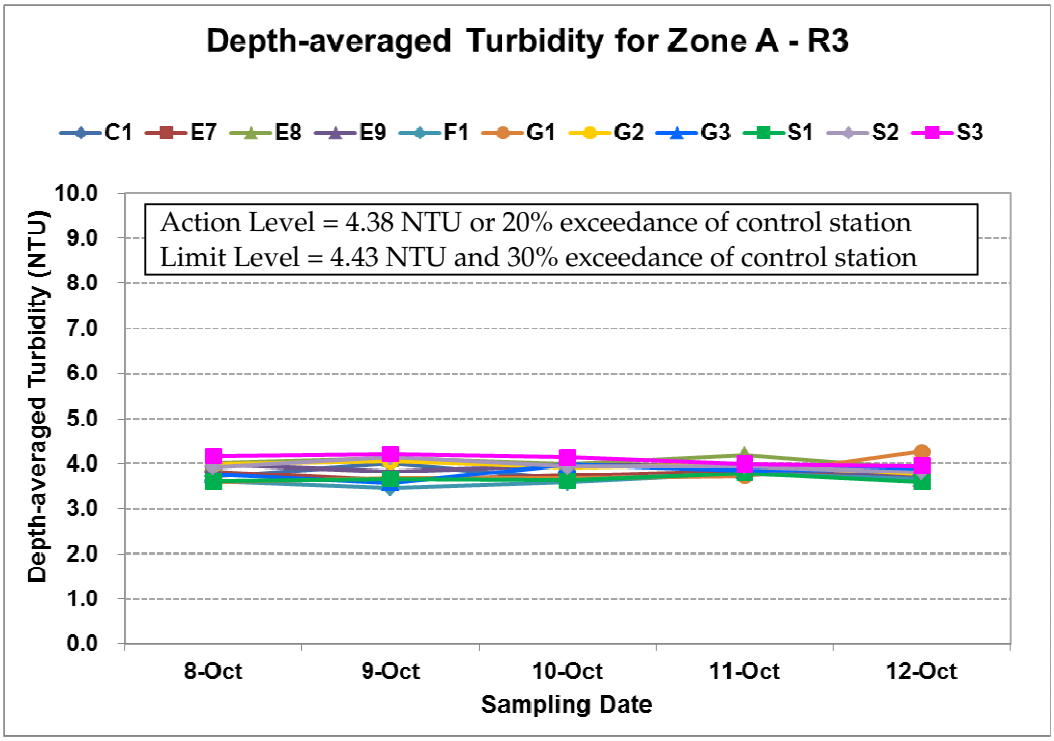


Figure C7 Depth-averaged Turbidity (NTU) of water column measured during the impact monitoring Round 1 (07:00) and Round 2 (11:00) period from 8 October to 12 October for Zone A



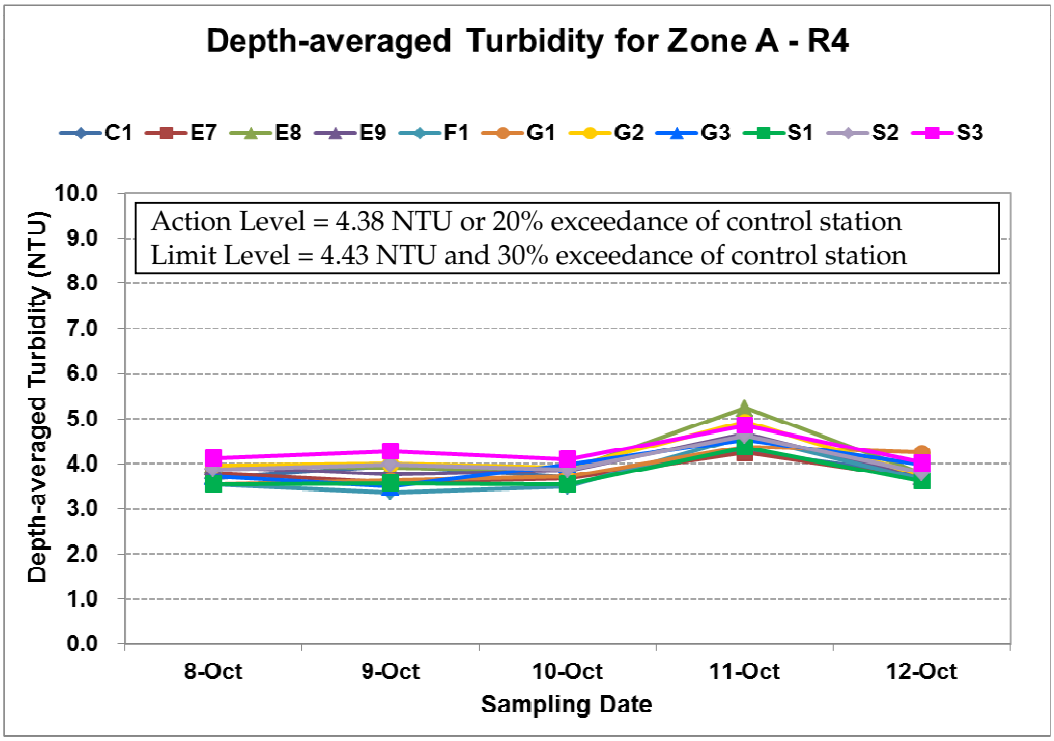


Figure C8 Depth-averaged Turbidity (NTU) of water column measured during the impact monitoring Round 3 (15:00) and Round 4 (19:00) period from 8 October to 12 October for Zone A

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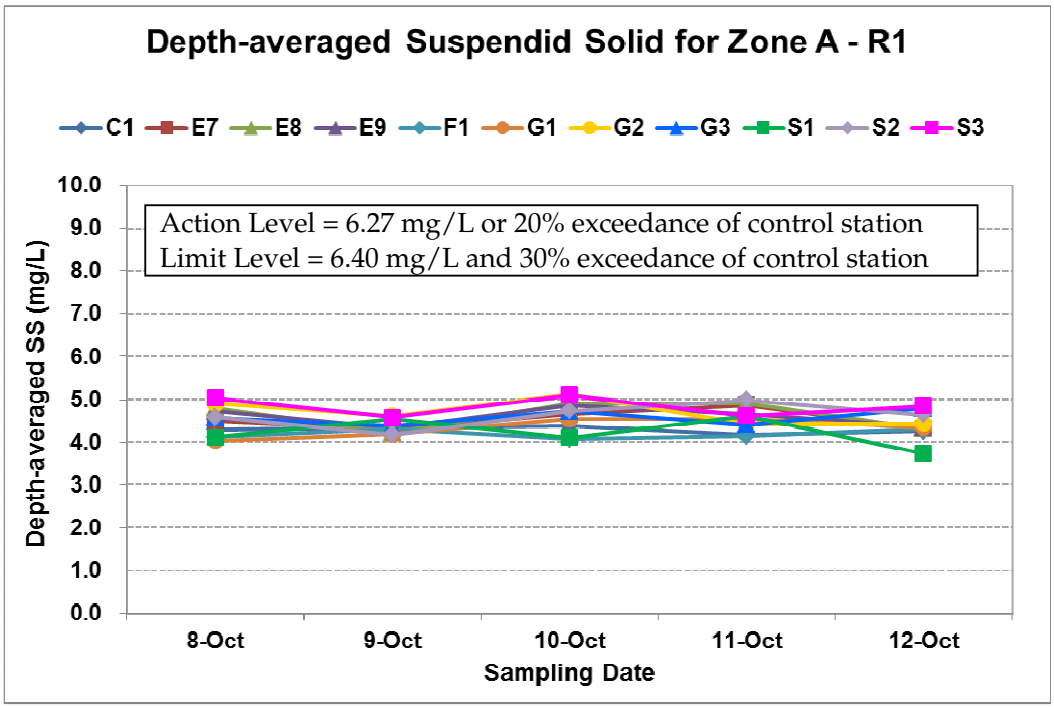


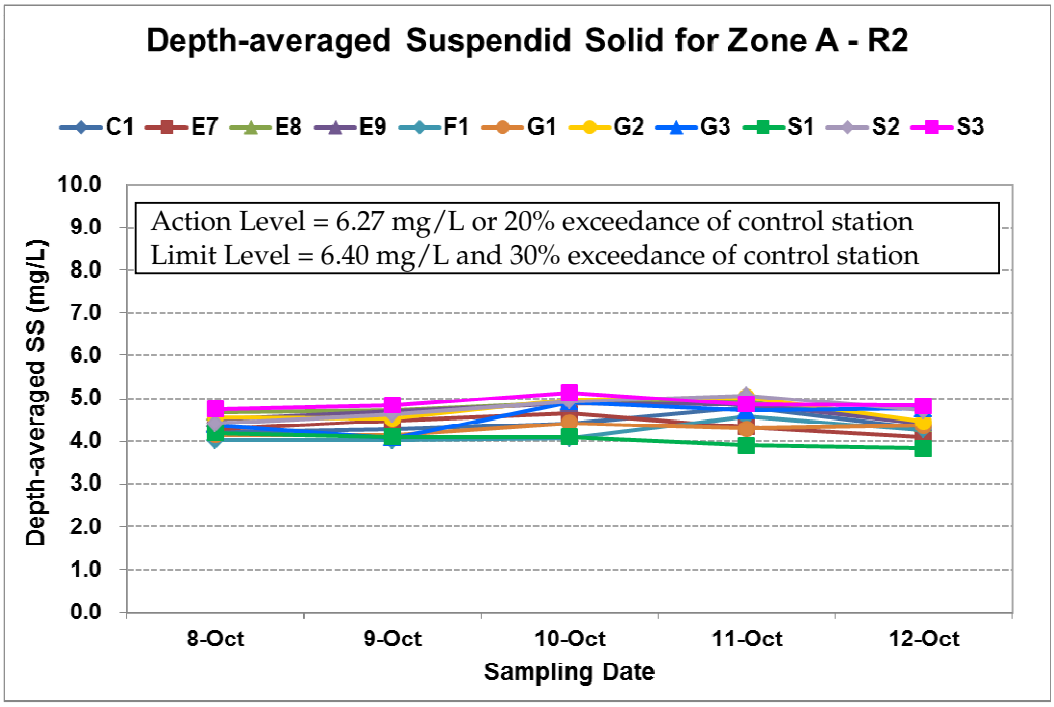
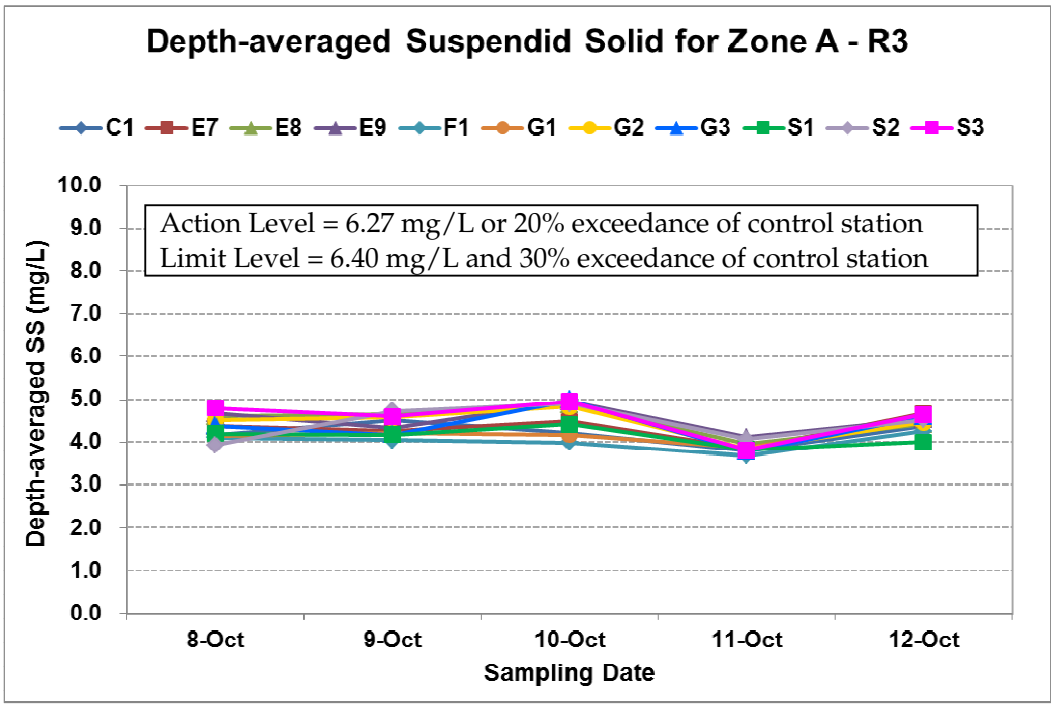


Figure C9 Depth-averaged suspended solid (mg/L) of water column measured during the impact monitoring Round 1 (07:00) and Round 2 (11:00) period from 8 October to 12 October for Zone A



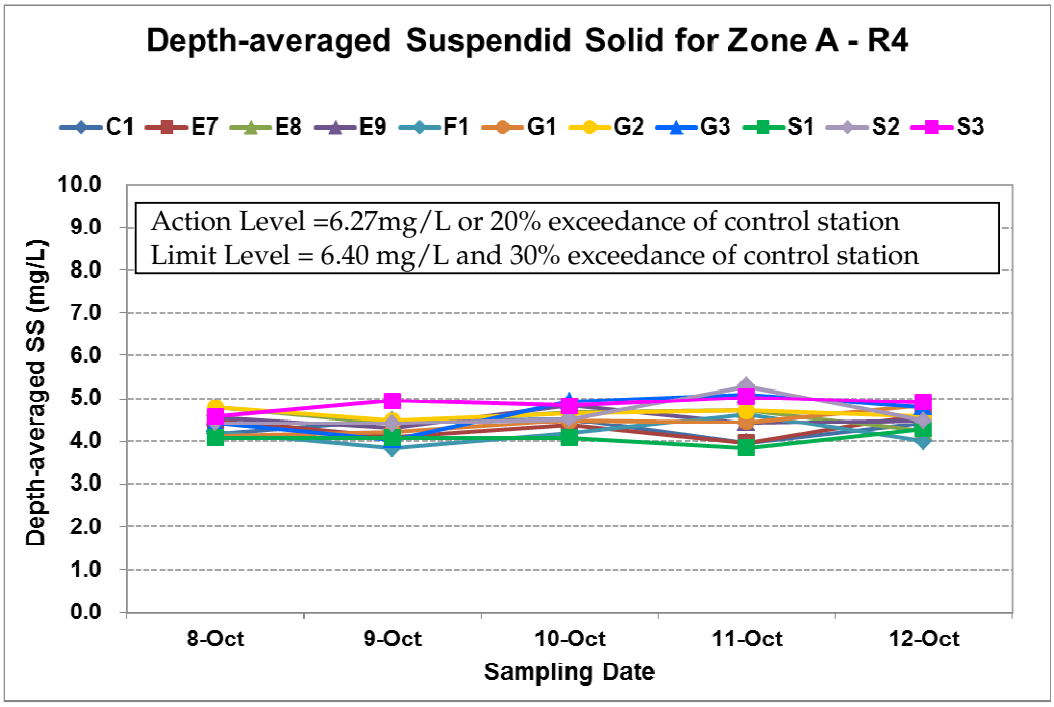
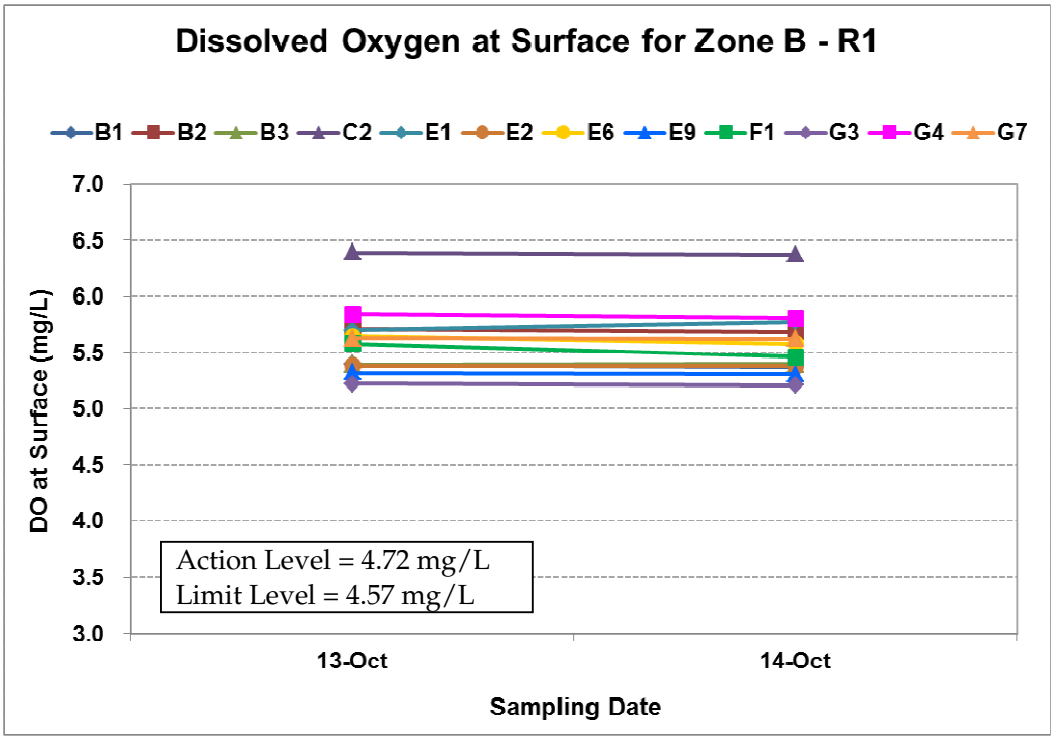


Figure C10 Depth-averaged suspended solid (mg/L) of water column measured during the impact monitoring Round 3 (15:00) and Round 4 (19:00) period from 8 October to 12 October for Zone A



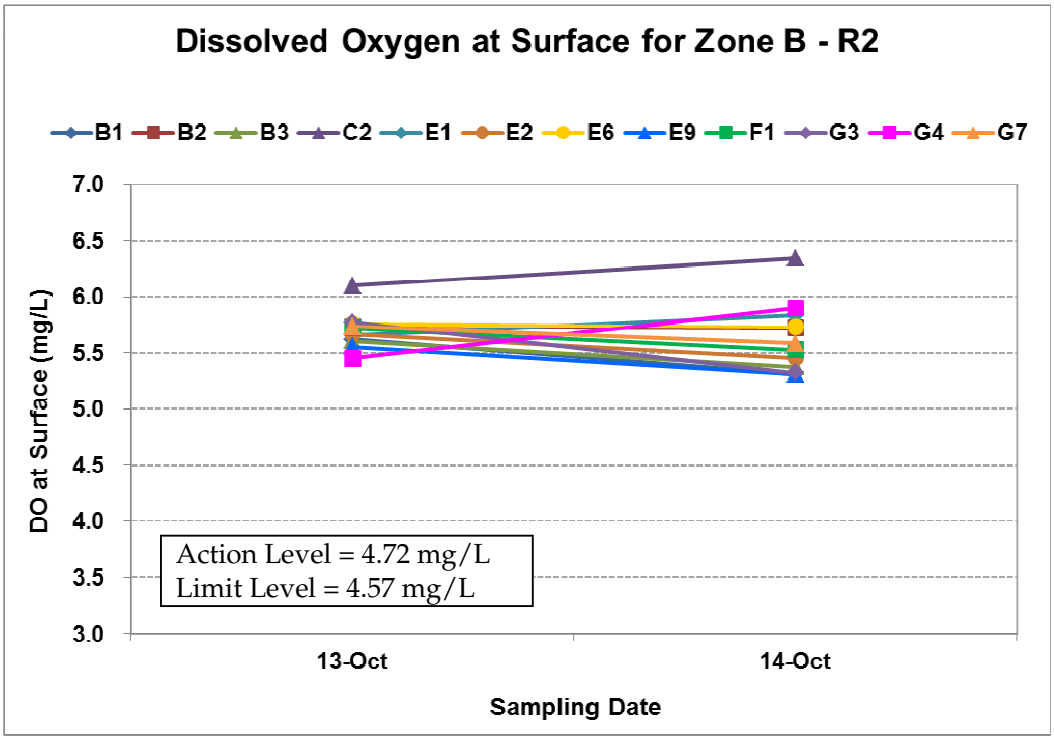


Figure C11 Dissolved Oxygen (mg/L) at surface of water column measured during the impact monitoring Round 1 (11:00) and Round 2 (15:00) period from 13 October to 14 October for Zone B

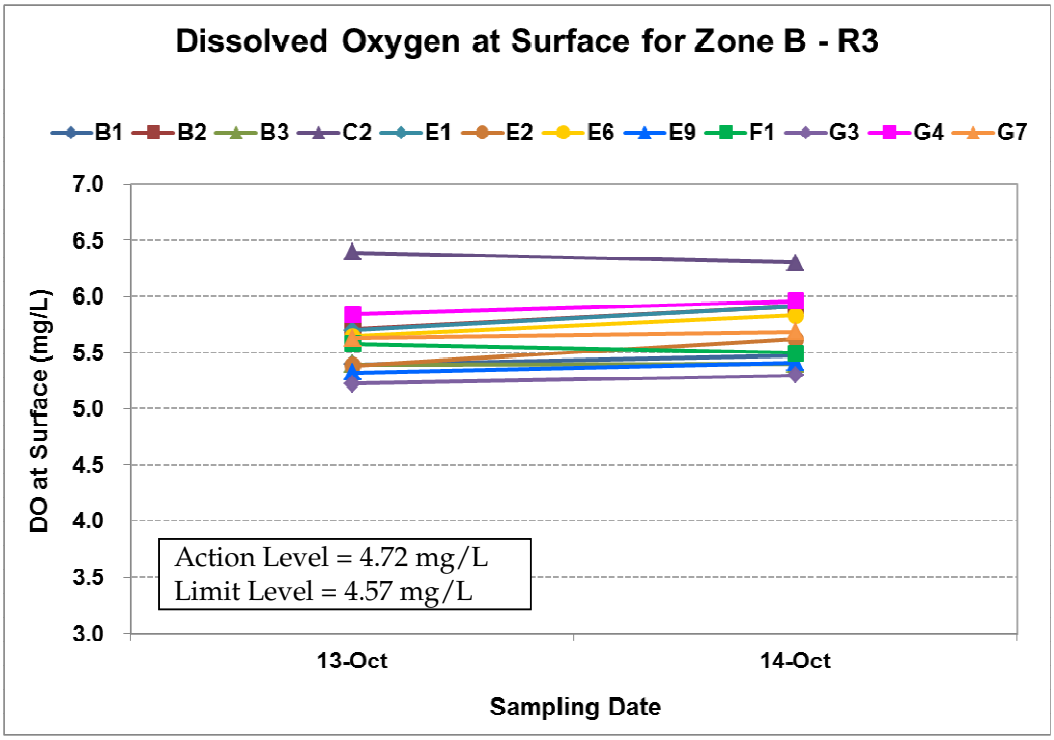
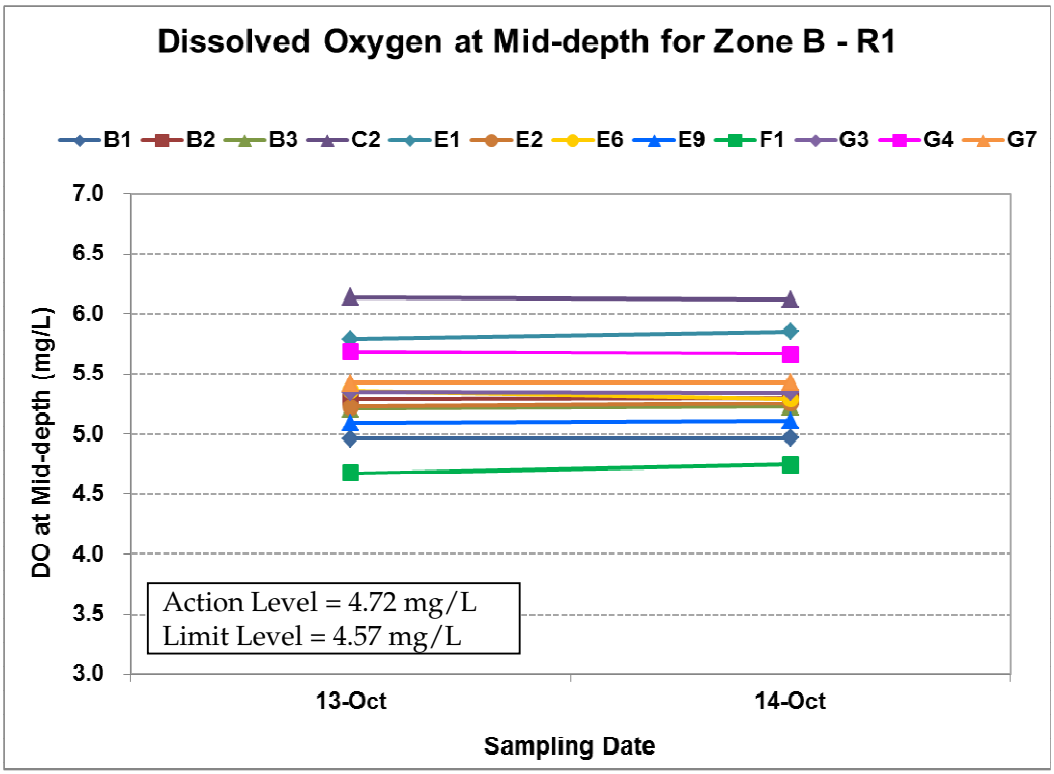


Figure C12 Dissolved Oxygen (mg/L) at surface of water column measured during the impact monitoring Round 3 (19:00) from 13 October to 14 October for Zone B



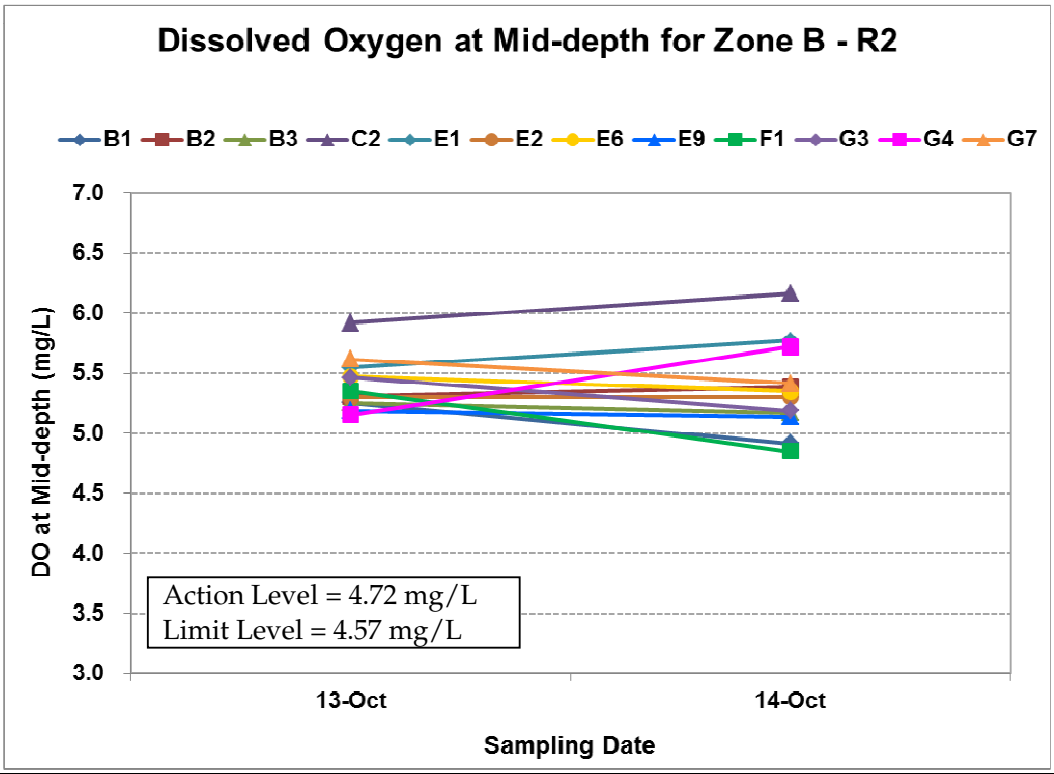


Figure C13 Dissolved Oxygen (mg/L) at mid-depth of water column measured during the impact monitoring Round 1 (11:00) and Round 2 (15:00) period from 13 October to 14 October for Zone B

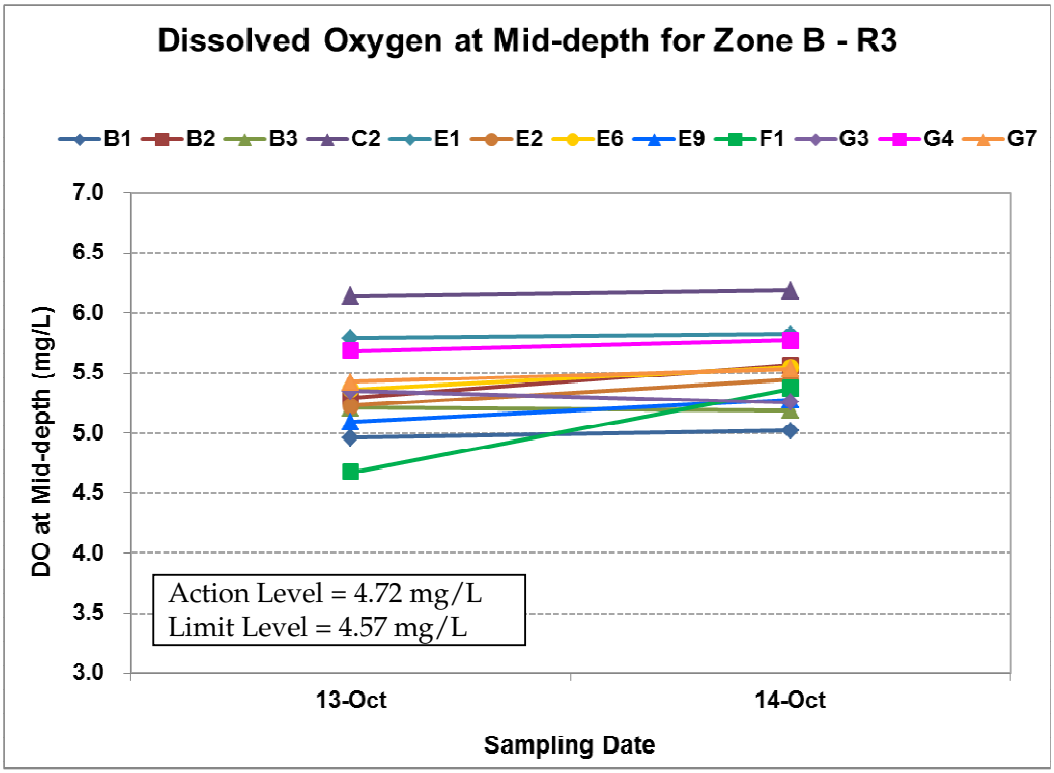
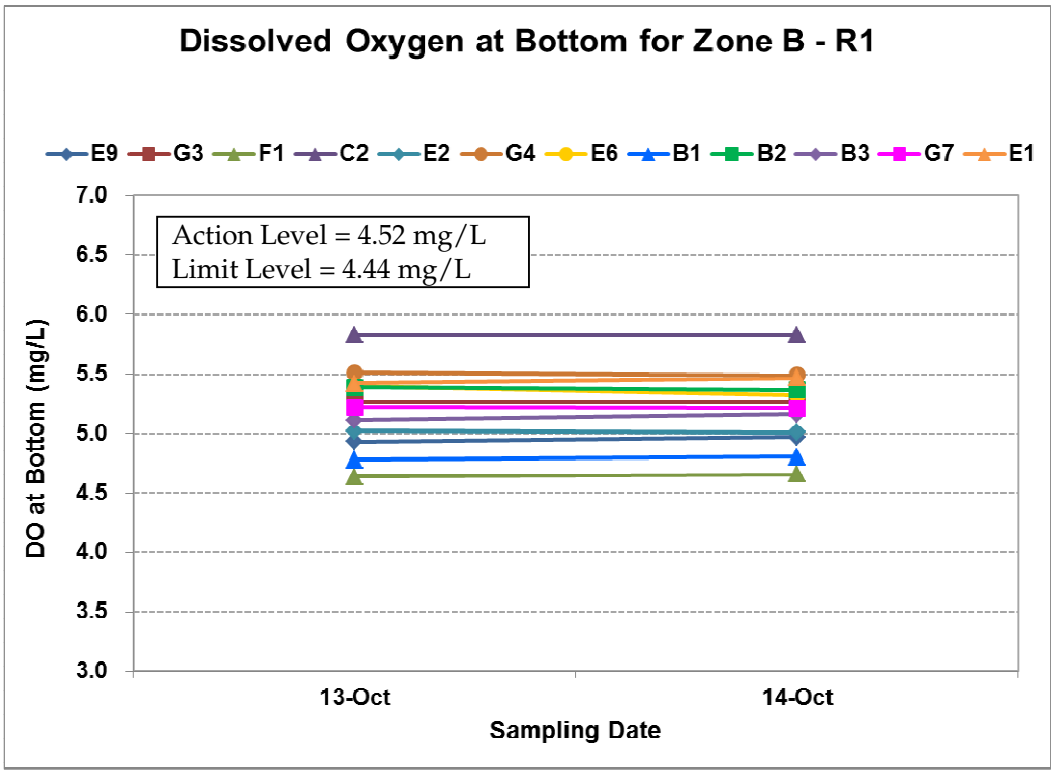


Figure C14 Dissolved Oxygen (mg/L) at mid-depth of water column measured during the impact monitoring Round 3 (19:00) from 13 October to 14 October for Zone B



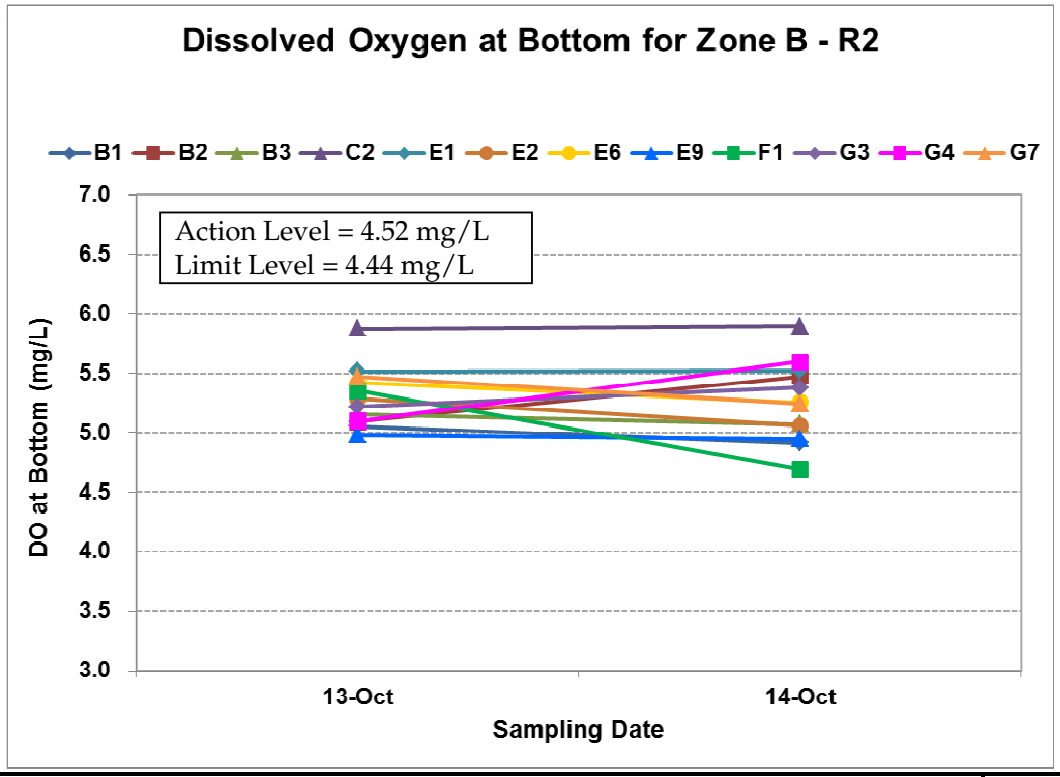


Figure C15 Dissolved Oxygen (mg/L) at bottom of water column measured during the impact monitoring Round 1 (11:00) and Round 2 (15:00) period from 13 October to 14 October for Zone B

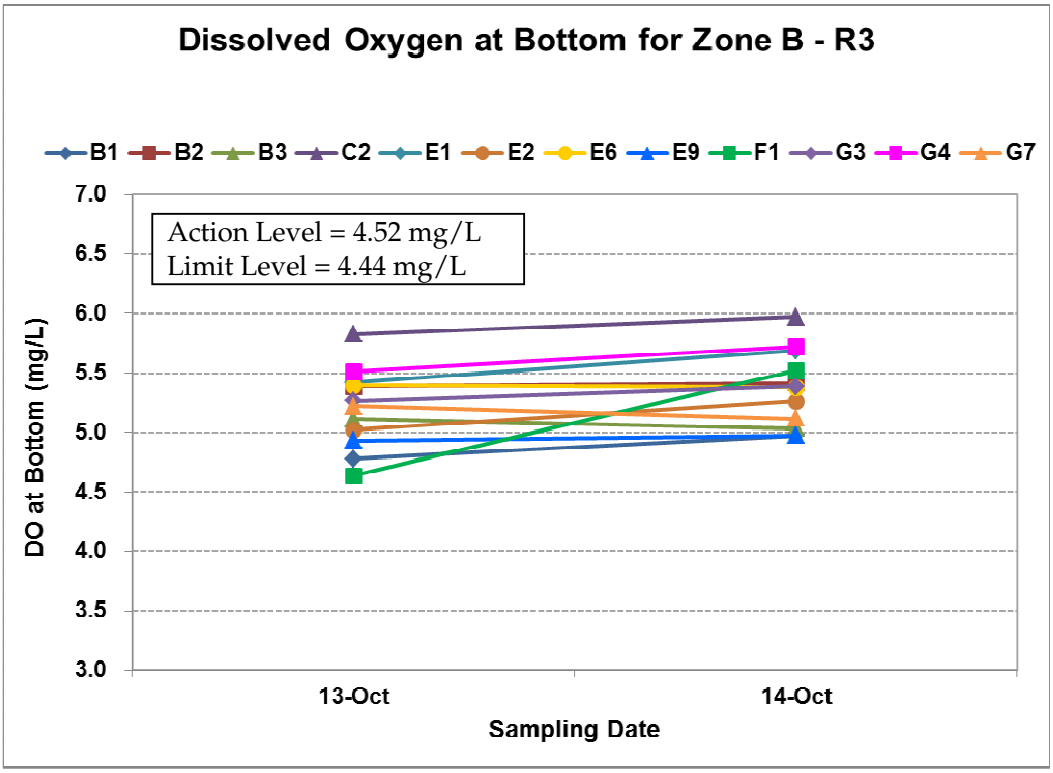
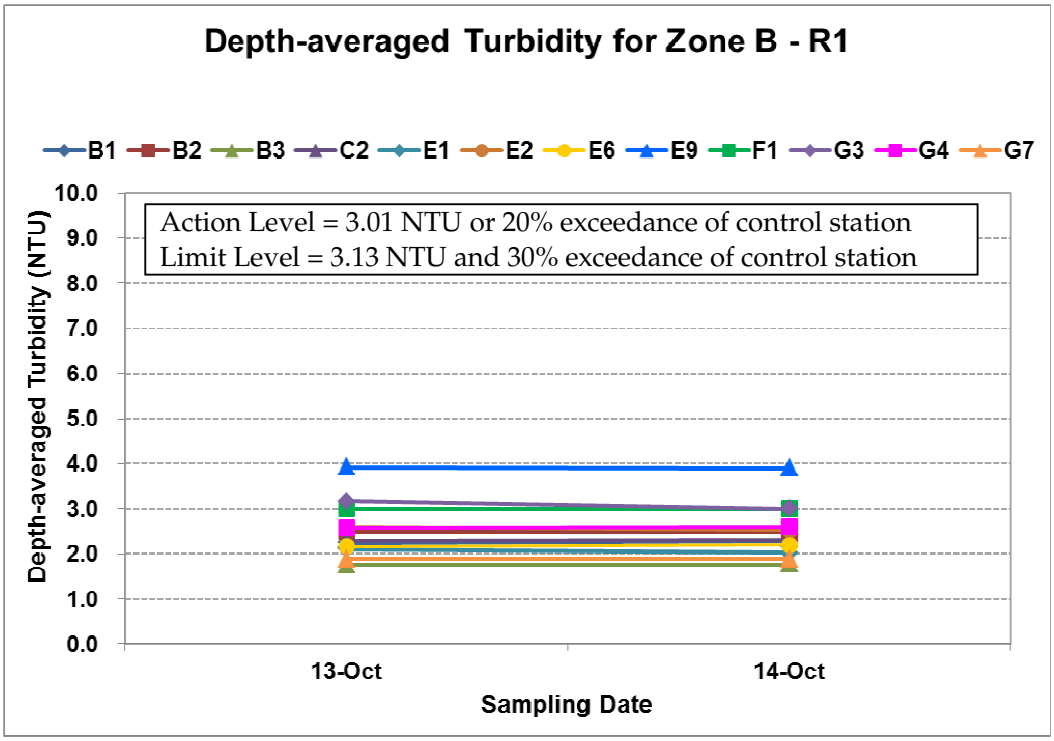


Figure C16 Dissolved Oxygen (mg/L) at bottom of water column measured during the impact monitoring Round 3 (19:00) from 13 October to 14 October for Zone B



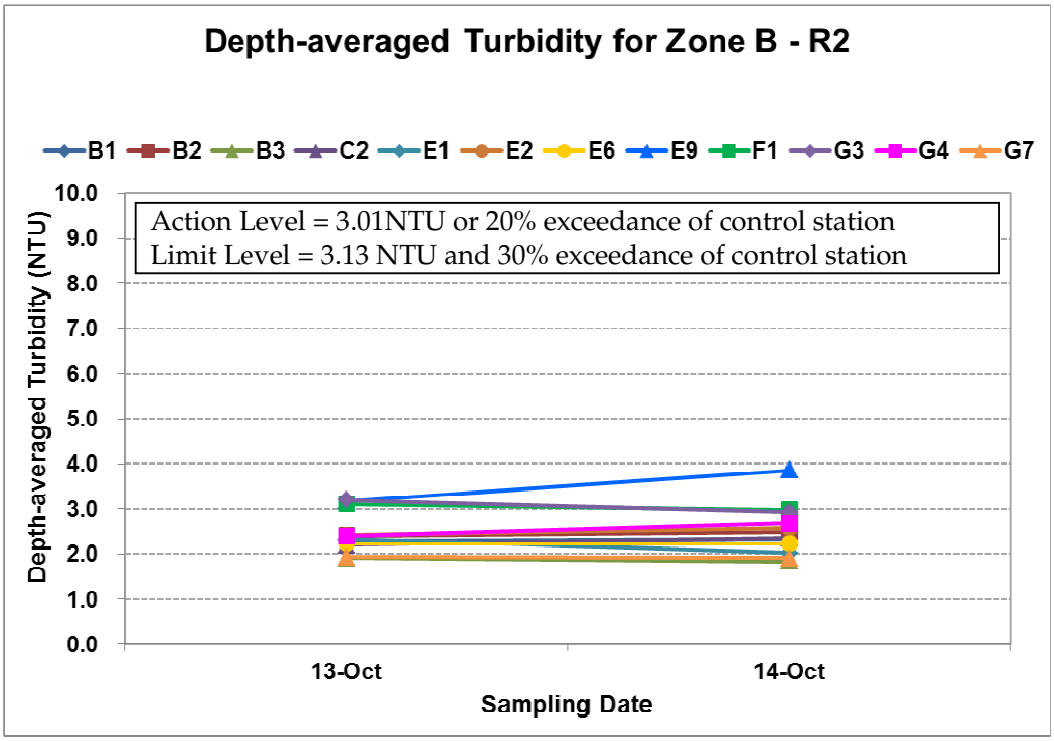


Figure C17 Depth-averaged Turbidity (NTU) of water column measured during the impact monitoring Round 1 (11:00) and Round 2 (15:00) period from 13 October to 14 October for Zone B

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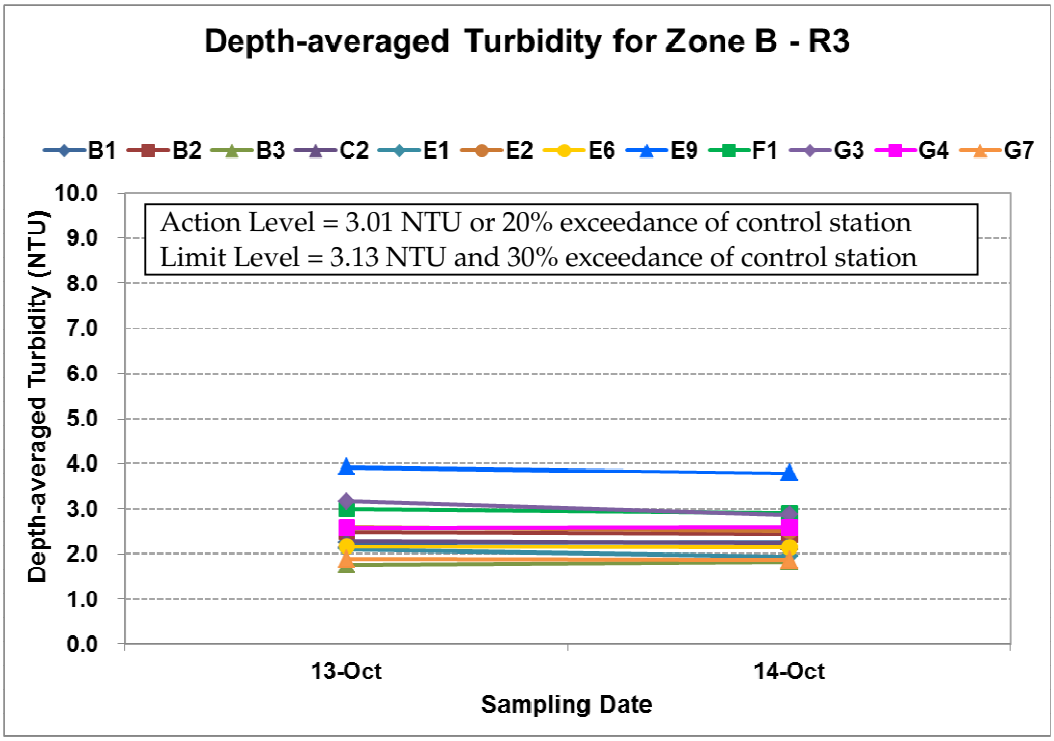
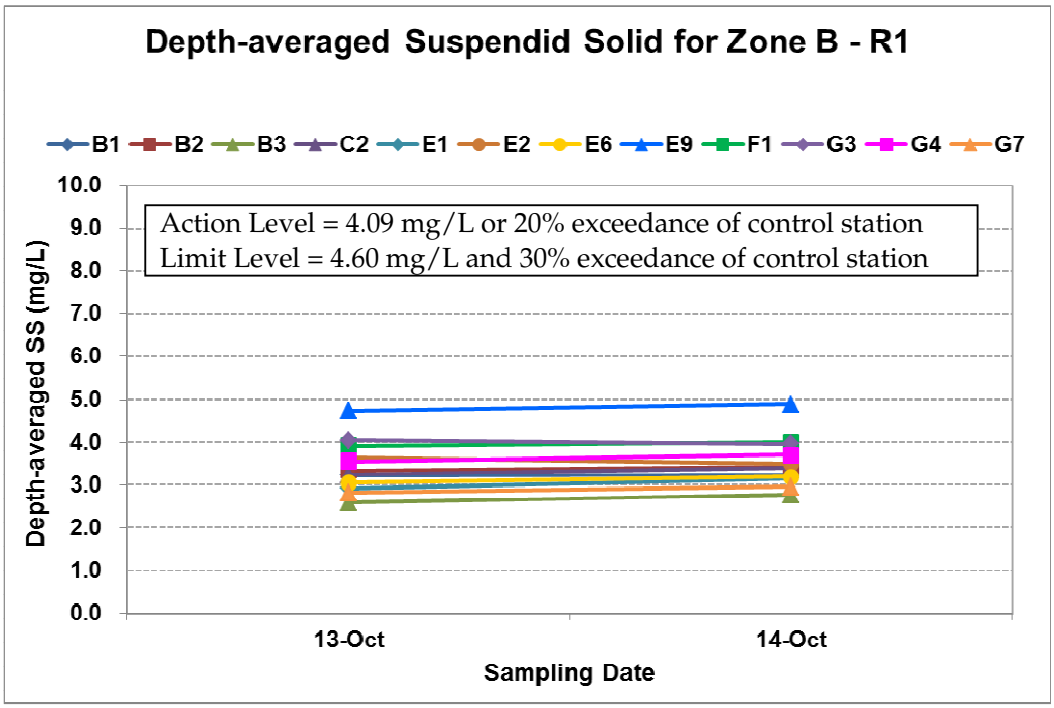


Figure C18 Depth-averaged Turbidity (NTU) of water column measured during the impact monitoring Round 3 (19:00) from 13 October to 14 October for Zone B



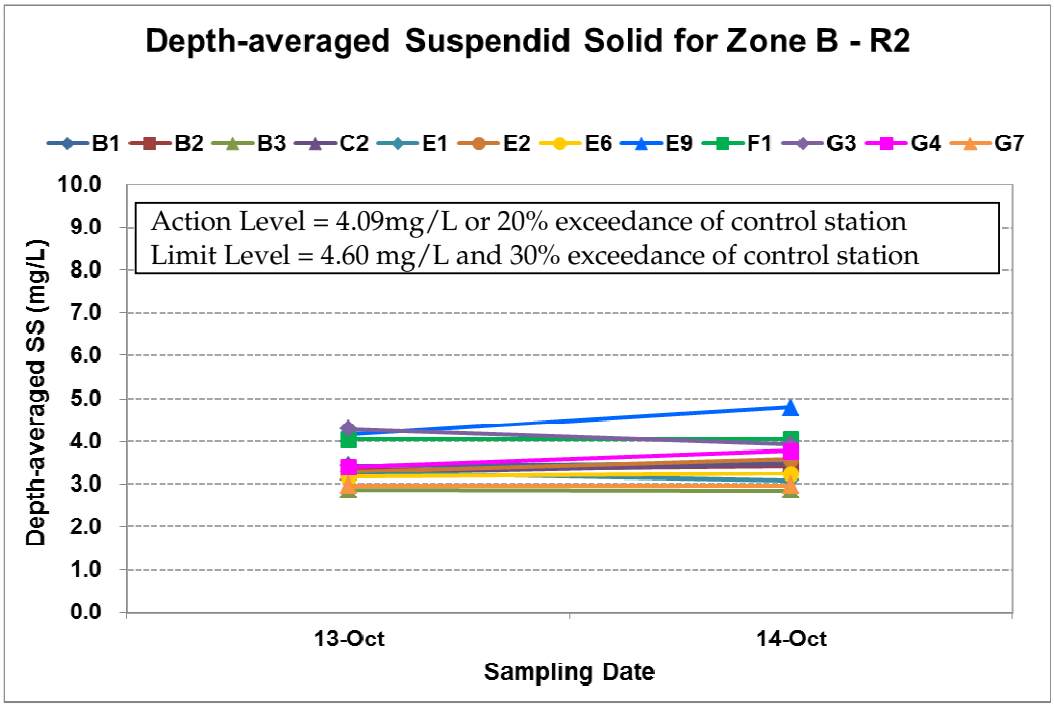


Figure C19 Depth-averaged suspended solid (mg/L) of water column measured during the impact monitoring Round 1 (11:00) and Round 2 (15:00) period from 13 October to 14 October for Zone B

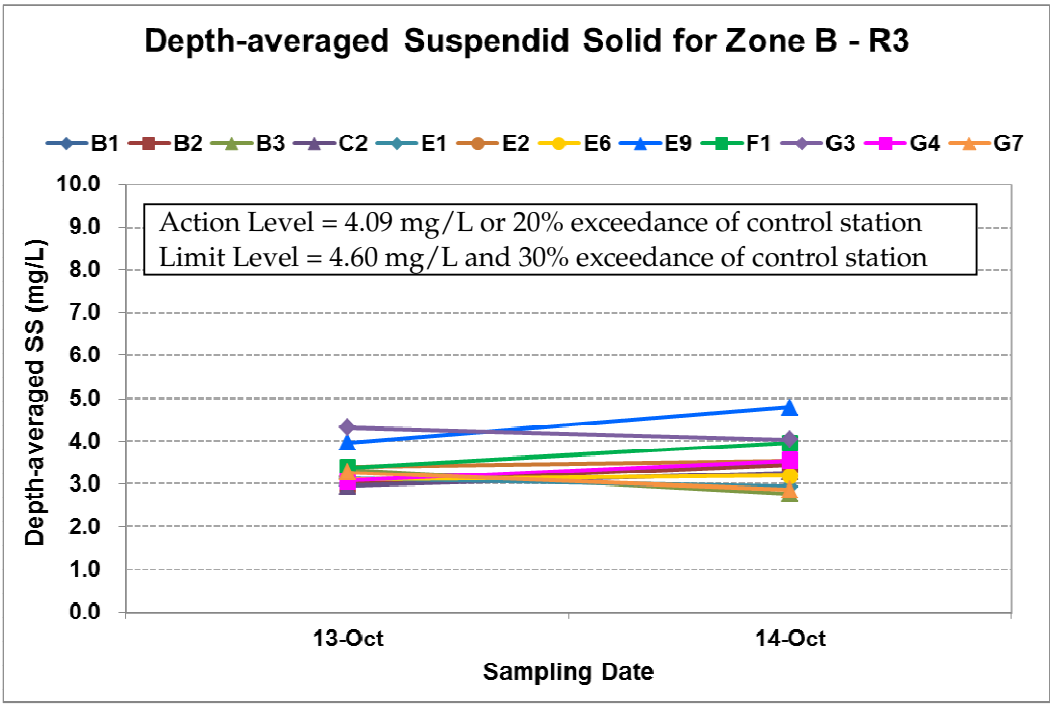


Figure C20 Depth-averaged suspended solid (mg/L) of water column measured during the impact monitoring Round 3 (19:00) from 13 October to 14 October for Zone B

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