IMPACT MONITORING REPORT





Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit

Ninth Weekly Impact Monitoring Report - 21st January to 27th January 2008

1st February 2008

Environmental Resources Management

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CLP Power

Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit: Ninth Weekly Impact Monitoring Report – 21st January 2008 – 27th January 2008

January 2008

Reference 0072833

For and on behalf of					
ERM-Hong	ERM-Hong Kong, Limited				
	-				
Approved	by: Dr Robin Kennish				
Signed: _	Lolien Kernet				
Position: _	Director				
Date:	1 February 2008				

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EXECUTIVE SUMMARY

The construction works for the Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit (Application No. *DIR-143/2006*) commenced on 10 November 2007. This is the 9th weekly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 21 January to 27 January 2008 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Period

During the reporting week, at the Airport landing site, dredging operations were undertaken during the reporting period from 21 January to 22 January 2008. For the remainder of the reporting period (ie from 23 January to 27 January 2008), no marine works were conducted.

Water Quality

Three monitoring events were scheduled between 21 January and 27 January 2008 at Airport landing sites. All monitoring events at all designated monitoring stations were performed on schedule, ie on 22 January, 24 January and 26 January 2008

All measured dissolved oxygen levels complied with the Action and Limit (AL) Levels. All measured Turbidity and Suspended Solids (SS) levels were below AL Levels, with exception of mid-flood monitoring on 24 January 2008, during the reporting week.

Environmental Non-conformance

Two exceedances of Limit Levels of depth-averaged Turbidity and SS were recorded during the reporting week.

No non-compliance event was recorded during the reporting week.

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

Future Key Issues

During the following week (ie 28 January to 3 February 2008), dredging operations will be carried out at the Airport landing site.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by CLP Power (CLP) as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit (thereinafter called the ('Project')).

1.1 PURPOSE OF THE REPORT

This is the 9th weekly EM&A report, which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 21 January to 27 January 2008.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : Introduction Details the background, purpose and structure of the report.

Section 2 : Project Information

Summarises background and scope of the project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3 : Environmental Monitoring Requirement

Summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event / Action Plans, environmental mitigation measures as recommended in the EIA report and relevant environmental requirements.

- Section 4 : Implementation Status on Environmental Mitigation Measures Summarises the implementation of environmental protection measures during the reporting period.
- Section 5 : Monitoring Results Summarises the monitoring results obtained in the reporting period.
- Section 6 : Environmental Non-conformance Summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

- Section 7 : Future Key Issues Summarises the monitoring schedule for the next week.
- Section 8 : **Review of EM&A Data and Impact Assessment Predictions** Compares and contrasts the EM&A data in the reporting period with the impact assessment predictions and annotates with explanations of discrepancies.
- Section 9 : **Conclusions** Presents the key findings of the impact monitoring results.

2.1 BACKGROUND

CLP will install a 132 kV submarine cable circuit to connect Castle Peak Power Station and Hong Kong International Airport in order to meet the electricity load growth at the Airport.

The proposed cable route will start from Tuen Mun and extend southward crossing the Urmston Road to the Airport. The cable landing sites will be located to the west of Butterfly Beach, Tuen Mun and at the northern part of the platform of the Airport (see *Figure 2.1*).

In September 2006, a Project Profile (PP) for the proposed 132kV Cable Route for Airport "A" to Castle Peak CCTS (thereinafter called the 'Project') was prepared and submitted to the Environmental Protection Department (EPD) under the *Environmental Impact Assessment Ordinance (EIAO)* for application for Permission to apply directly for Environmental Permit (EP) (Application No. *DIR-143/2006*).

An Environmental Permit (*EP-267/2007*) for the works was granted on 29 March 2007. Under the requirements of *Condition 2.12* of the EP, an EM&A programme as set out in the *Environmental Monitoring and Audit Manual* (*EM&A Manual*) is required to be implemented. In accordance with the *EM&A Manual*, impact monitoring of water quality is required for the Project.

Baseline Monitoring was conducted at Tuen Mun landing site between 18 October and 28 October 2007. Through communications with EPD, a silt curtain at the water intake of the Airport should already be in place during the baseline monitoring. EPD hence advised the baseline monitoring (thereinafter called *Baseline Environmental Monitoring Part B*) for the Airport East section of works should be postponed until a silt curtain is ready. The baseline monitoring for Tuen Mun section of the Project and sediment quality testing were hence undertaken first (thereinafter called *Baseline Environmental Monitoring Part A*) and the results were presented in *Part A* of the report which was submitted to EPD.

The silt curtains were installed at the Airport seawater intake on 20 December 2007 and *Baseline Environmental Monitoring Part B* was then carried out between 22 December 2007 and 2 January 2008.

Impact Monitoring has been carried out at Tuen Mun landing site since 10 November 2007 and at Airport landing site since 16 January 2008. This report, therefore, presents results of the data from monitoring stations around the Tuen Mun and Airport landing sites (*Figure 2.1*). Results of the impact monitoring data will therefore be compared against the results of the *Baseline Environmental Monitoring Part A* and *Part B*.

2.2 SITE DESCRIPTION

The proposed 132kV cable is located in-between Tuen Mun and the Hong Kong International Airport. The alignment of the cable is illustrated in *Figure* 2.1.

2.3 MARINE CONSTRUCTION WORKS UNDERTAKEN DURING REPORTING WEEK

During the reporting week, at the Airport landing site, dredging operations were undertaken during the reporting period from 21 January to 22 January 2008. For the remainder of the reporting period (ie from 23 January to 27 January 2008), no marine works were conducted.

The works programme of the period between 21 January and 27 January 2008 is presented in *Annex A*.

2.4 PROJECT ORGANISATION

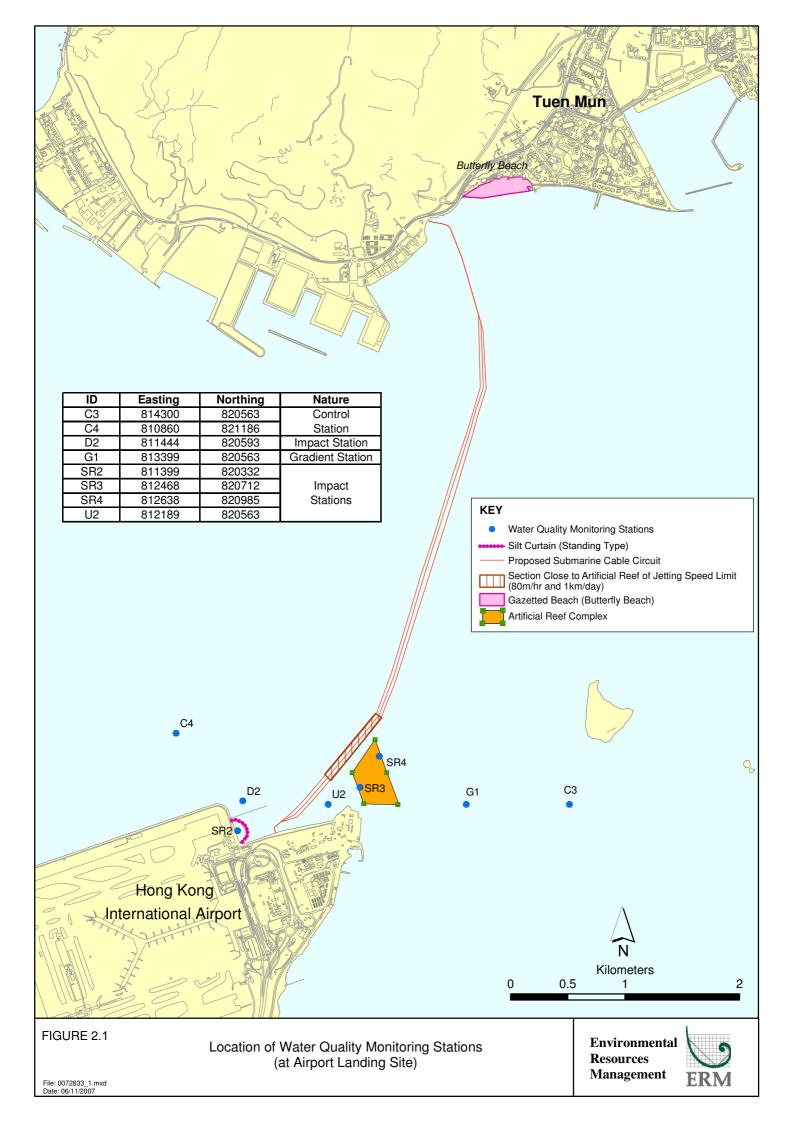
The Project Organisation chart and contact details are shown in *Annex B*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

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

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

Permit / Licence / Notification / Report	Reference	Validity Period	Remarks
EM&A Manual	-	Throughout the construction period	submitted on 25 January 2007
Environmental Permit	EP-267/2007	Throughout the construction period	granted on 29 March 2007
Baseline Environmental Monitoring Report (Part A)	-	Throughout the construction period for Tuen Mun Section	approved by EPD on 8 November 2007
Baseline Environmental Monitoring Report (Part B)	-	Throughout the construction period for Airport Section	approved by EPD on 16 January 2008



3.1 MONITORING LOCATIONS

3

In accordance with the *EM&A Manual*, prior to the installation of the cable, water quality sampling was undertaken at stations situated around the cable laying works area at Tuen Mun and the Airport. The locations of the sampling stations are shown in *Figure 2.1*.

- C3 and C4 are Control Stations near the Airport, which are not expected to be influenced by the construction works due to their remoteness from the construction works.
- U2 and D2 are Impact Stations located approximately 300 m either from the cable alignment for monitoring the effect of dredging at the Airport landing point.
- SR2 is Impact Station (sensitive receiver) used to monitor the effect of the construction works to the Seawater Intake at the Airport.
- SR3 and SR4 are Impact Stations (sensitive receivers) used to verify the predictions concerning sediment plume dispersion during dredging at the areas close to the Artificial Reef (AR) and at the landing sites.
- G1 is Gradient Station which is situated in between C3 and the AR. It is used to determine the source of pollutants by comparing the monitoring results with those recorded at C3, SR3 and SR4. Since G1 is located between C3 and the construction work alignment, it serves the gradient function with C3 during flood tide, but has no relationship and function with C4 during ebb tide.

The co-ordinates of these monitoring stations are listed in *Table 3.1*.

Table 3.1	Co-ordinates of Water Quality Monitoring Stations (HK Grid)
-----------	---

Station	Nature	Easting	Northing	
C3	Control Station	814300	820563	
C4	Control Station	810860	821186	
U2	Impact Station	812189	820563	
D2	Impact Station	811444	820593	
SR2	Impact Station	811399	820332	
SR3	Impact Station	812468	820712	
SR4	Impact Station	812638	820985	
G1	Gradient Station	813399	820563	

3.2 MONITORING PARAMETERS AND FREQUENCY

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

3.2.1 *Monitoring Parameters*

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, tidal state, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

3.2.2 Monitoring Frequency

Impact water quality monitoring was carried out three times a week. The interval between two sets of monitoring was not less than 36 hours. The monitoring was undertaken at 8 locations (five impact monitoring stations D2, U2, SR2, SR3 and SR4, one gradient station G1, and two control monitoring stations C3 and C4), as shown on *Figure 2.1*. Samples were taken during mid-flood and mid-ebb tidal state on each sampling occasion.

3.3 MONITORING EQUIPMENT AND METHODOLOGY

3.3.1 Monitoring Equipment

Dissolved Oxygen, Temperature, Salinity, Turbidity Measuring Equipment

The instrument was a portable, weatherproof multi-parameter measuring instrument (YSI 6820) complete with cables, multi-probe sensor, comprehensive operation manuals, and was operable from a DC power source. It was capable of measuring:

- dissolved oxygen levels in the range of 0 50 mg L⁻¹; and 0-500% saturation;
- temperature of -5 to 50 °C;
- turbidity levels between 0-1000 NTU (response of the sensor was checked with certified standard turbidity solutions before the start of measurement); and,
- salinity in the range of 0-40 ppt (checked with 30 ppt Salinity solutions before the start of the measurement).

Water Depth Gauge

The water depth gauge affixed to the bottom of the water quality monitoring vessel was used.

Current Velocity and Direction

Current velocity and direction was estimated by conducting float tracking.

Positioning Device

A Global Positioning System (GPS) was used (C-Navigator World DGPS, GPS 72A) during monitoring to ensure the accurate recording of the position of the monitoring vessel before taking measurements. The use of DGPS was used for positioning device, which was well calibrated at appropriate checkpoint.

Water Sampling Equipment

Water samples for suspended solids measurement were collected by the use of a multi-bottle water sampling system (General Oceanics Inc., Rosette Sampler ROS02), consisting of PVC bottles of more than two litres, which could be effectively sealed with cups at both ends. The water sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth.

3.3.2 Monitoring Methodology

Timing & Frequency

The water quality sampling was undertaken within a 3 hour window of 1.5 hours before and 1.5 hours after mid-flood and mid-ebb tides. Tidal range for flood and ebb tides was not less than 0.5m for capturing representative tides.

Reference was made to the predicted tides at Lok On Pai, which is the tidal station nearest to the Project site, published on the website of Hong Kong Observatory⁽¹⁾. Based on the predicted water levels at Lok On Pai, the impact water quality monitoring was conducted between 21 January and 27 January 2008, following the schedule presented in *Annex C*.

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

Depths

Each station was sampled and measurements were taken at three depths, 1 m below the sea surface, mid depth and 1m above the sea bed.

Protocols

The multi-parameter measuring instrument (YSI 6820) was checked and calibrated by an HOKLAS accredited laboratory before use. Onsite calibration was also carried out to check the responses of sensors and electrodes using certified standard solutions before each use. Sufficient stocks of spare parts were maintained for replacements when necessary, and 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 an HOKLAS accredited laboratory as soon as possible after collection.

Laboratory Analysis

All laboratory work was carried out by an 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 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 (for details refer to *Annex D*).

(1) Hong Kong Observatory (2007) http://www.hko.gov.hk/tide/eLOPtide.htm [Accessed on 13 October 2007]

3.3.3 Action and Limit Levels

The Action and Limit levels for the Airport landing site, which were established based on the results of *Baseline Environmental Monitoring Part B*, are presented in *Tables 3.2* respectively.

Table 3.2Action and Limit Levels for Water Quality for the Airport Landing Site

Parameter	Unit	Tide	Depth	Action Level	Limit Level
Suspended Solids (SS)	mg L-1	Mid-Ebb	Mid-Ebb Depth-averaged		29.8
		Mid-Flood	Depth-averaged	30.8	34.3
Dissolved	mg L-1	Mid-Ebb	Surface and Middle	6.6	4.0
Oxygen (DO)			Bottom	6.9	2.0
		Mid-Flood	Surface and Middle	6.8	4.0
			Bottom	6.8	2.0
Turbidity	NTU	Mid-Ebb	Depth-averaged	17.4	25.9
		Mid-Flood	Depth-averaged	22.9	27.9

Notes:

 The results recorded at the gradient station during the mid-flood period will be used to decide whether any exceedance being recorded during mid-flood are arising from the marine works of this Project.
 Turbidity and SS levels will make reference to 120% and 130% of value recorded at the upstream control station during the same tidal conditions to assess the compliance of Action and Limit Levels respectively.

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 3.3*.

Event	Action
Action Level	Step 1 - repeat sampling event;
Exceedance	Step 2 – identify source(s) of impact and confirm whether exceedance was due to the construction works;
	Step 3 – inform EPD 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, increase effectiveness of silt curtain).
	Step 5 - repeat measurements after implementation of mitigation for confirmation of compliance.
	Step 6 - if non compliance continues - increase measures in Step 3 and repeat measurements in Step 3. 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.

4.1 RECOMMENDED MITIGATION MEASURES

4

Mitigation measures for water quality control have been recommended in the Project Profile and the Environmental Permit. The Contractor is responsible for the design and implementation of the following measures.

During cable laying the following will be undertaken:

- Although the sediment loss during both grab dredging and suction dredging is expected to be quite small, the Contractor will be employing a silt curtain around the dredgers to reduce the dispersion of sediments from the landing points.
- Closed grab dredgers will be used to avoid dispersion of suspended solids into the sea.
- The maximum dredging rate at Tuen Mun shore approach will be limited to 1,500 m³ day⁻¹ for working 10 hours per day, i.e., 150 m³ hr⁻¹.
- The maximum dredging rates of grab dredgers and suction method, whichever to be deployed by the contractor, at the Airport shore approach will be limited to 650 m³ day⁻¹ and 1,600 m³ day⁻¹ for working 16 hours per day, i.e., 41 m³ hr⁻¹ and 100 m³ hr⁻¹.
- All barges used for the transport of dredged materials will be fitted with tight bottom seals in order to prevent leakage of material during loading and transport.
- All barges will be filled to a level, to ensure that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.
- The forward speed of the jetting machine will be limited to a maximum of 80 m hr⁻¹ and 24 hours operation.

4.2 IMPLEMENTATION STATUS OF MITIGATION MEASURES

In additional to the regulatory requirements as mentioned in *Section 4.1* above, the Contractor has implemented a precautionary measure for the works undertaken at the inshore area. As a precautionary measure, a silt curtain has been installed at the Airport seawater intake.

5 MONITORING RESULTS

5.1 IMPACT MONITORING RESULTS

The monitoring data and graphical presentations of the results are included in *Annex E*. These are summarised below.

A total of three monitoring events were scheduled between 21 January and 27 January 2008 at the Airport landing sites. All monitoring events at all designated monitoring stations were performed on schedule, ie on 22 January, 24 January and 26 January 2008.

No major activities influencing the water quality were identified between 21 January and 27 January 2008.

All measured dissolved oxygen levels compiled with the Action and Limit (AL) Levels. All measured Turbidity and Suspended Solids (SS) levels were below AL Levels, with exception of mid-flood monitoring on 24 January 2008, during the reporting week. (*Annex E*).

ENVIRONMENTAL NON-CONFORMANCES

6

6.1 SUMMARY OF ENVIRONMENTAL EXCEEDANCE

Exceedance of the Action Level of depth-averaged Turbidity (NTU) and SS (mg/L) were recorded at Station SR4 during mid-flood tide on 24 January 2008 (*Table 6.1*).

Table 6.1Exceedance of Action Level of Depth-averaged Turbidity (NTU) and
Suspended Solids (SS, mg/L)

0072833_24 Jan 08_Turb_F_Station SR4			
0072833_24 Jan 08_ SS_F_Station SR4			
24 January 2008			
SR4			
Mid-ebb	Turbidity = 17.4, SS = 21.6		
Mid-flood	Turbidity = 22.9, SS = 30.8		
Mid-ebb	Turbidity = 25.9, SS = 29.8		
Mid-flood	Turbidity = 27.4, SS = 34.3		
Mid-ebb	Turbidity = 6.5, SS = 8.0		
Mid-flood	Turbidity = 28.9 (exceeds Limit Level)		
	SS = 37.2 (exceeds Limit Level)		
	0072833_24 Jan 0 24 January 2008 SR4 Mid-ebb Mid-flood Mid-ebb Mid-flood Mid-ebb		

According to the work programme provided by the Contractor, there were no marine works (ie dredging and jetting operations) undertaken for the Project on that day. Moreover, turbidity and SS levels of downstream Stations C4, SR2 and D2 were of similar magnitude to those of upstream Stations SR3, G3 and C3. Station SR3, which is located closer to the construction site, recorded lower SS and Turbidity levels than that recorded at Station SR4, which is further away from the site (see *Figure 6.1*). Based on the monitoring results (*Table 6.1* and *Annex E*), measurements for mid-ebb were carried out after the mid-flood monitoring at the same day. The readings taken at all monitoring stations during mid-ebb were far below the action and limit levels. As a result, the exceedance was unlikely to be caused by the Project. The exceedance was hence considered to be an isolated case and may be due to natural fluctuation. No action was therefore required.

The exceedance incident has been notified to EPD and LCSD.

6.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

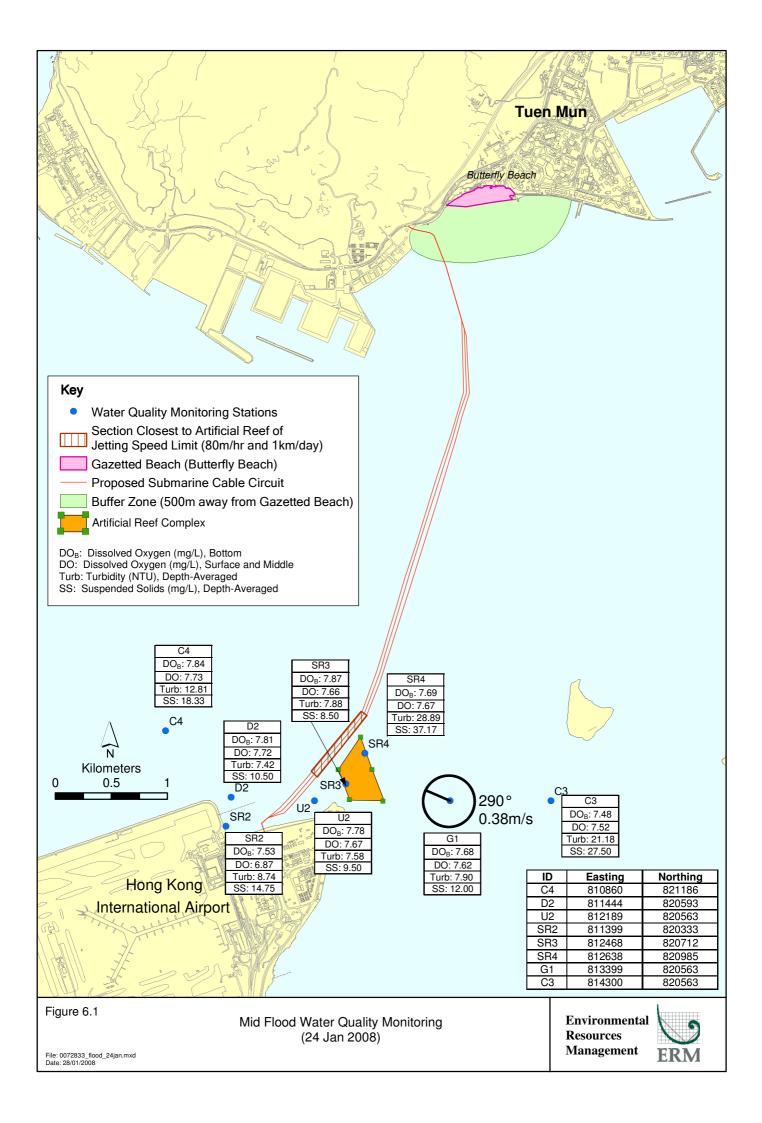
No non-compliance event was recorded during the reporting period.

6.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period.

6.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

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



7 FUTURE KEY ISSUES

7.1 KEY ISSUES FOR THE COMING MONTH

During the following week (ie 28 January to 3 February 2008), dredging operations will be carried out at the Airport landing site. The expected construction programme is enclosed in *Annex A*.

7.2 MONITORING SCHEDULE FOR THE COMING MONTHS

The tentative schedule of impact water quality monitoring in January and February 2008 is presented in *Annex C*. The environmental monitoring will be conducted at the same monitoring locations as those for this reporting week.

Dredging operation was carried out at Tuen Mun land site during the period of 21 to 22 January 2008, the monitoring data collected are therefore compared with the impact assessment predictions in the Project Profile. *Table 8.1* shows the predicted maximum suspended solids (SS) elevations that would occur at different distances away from dredging works at the shore ends after taking into account the deployment of silt curtains.

Distance from Source (m)	Airport (Grab Dredging)		
	Concentration (mg L-1)		
10	54		
100	5		
200	3		
500	1		
1000	1		
2000	0		
3000	0		

Table 8.1Predicted Elevations of Suspended Solids Concentration due to Dredging at
Shore Ends following the Deployment of Silt Curtains

Table 8.2 shows the SS levels that were recorded at monitoring stations on 22 January 2008 together with a calculation of elevations by taking control station data as ambient concentrations. The comparison is not applicable for monitoring results for 24 and 26 January 2008 since there were no marine works conducted on these days. During the reporting week, at Airport landing site, the distance between impact stations and the dredger ranged from 300 m to 1100 m. For Airport landing site, measured elevations of SS at the monitoring stations during mid-ebb did not exceed 2.33 mg L⁻¹ (*Table 8.2*), which was also in line with previous predictions (*Table 8.1*). During midflood tidal condition, the measured elevations of SS, however, exceeded the predictions, but did not result in any exceedence of the AL level.

Date of Monitoring	Tidal State	Station	Distance from Grab Dredger (m)	SS Level (mg L ⁻¹)	Ambient SS Level (mg L ⁻¹) ⁽¹⁾	Measured SS Elevation (mg L ⁻¹)	Predicted SS Elevation (mg L ⁻¹) ⁽²⁾
22/01/2008	Mid-Ebb	SR2	~300	10.25	C4 - 10.0	0.25	2
22/01/2008	Mid-Ebb	SR3	~700	10.83	C4 - 10.0	0.83	1
22/01/2008	Mid-Ebb	SR4	~1100	9.17	C4 - 10.0	-0.83	1
22/01/2008	Mid-Ebb	D2	~400	7.67	C4 - 10.0	2.33	2
22/01/2008	Mid-Ebb	U2	~500	9.50	C4 - 10.0	-0.50	1
22/01/2008	Mid-Flood	SR2	~300	9.00	C3 - 8.17	1.17	2
22/01/2008	Mid-Flood	SR3	~700	13.50	C3 - 8.17	5.33	1
22/01/2008	Mid-Flood	SR4	~1100	6.67	C3 - 8.17	-1.50	1
22/01/2008	Mid-Flood	D2	~400	6.67	C3 - 8.17	-1.50	2
22/01/2008	Mid-Flood	U2	~500	23.50	C3 - 8.17	15.33	1

Table 8.2Depth-averaged Suspended Sediment (SS) Elevations (mg L-1) due to Dredging
at Impact Station during the Reporting Week

Notes:

(1) Negative means SS levels at impact stations were lower than the ambient stations. This may be due to the natural fluctuation at the ambient.

(2) The predicted values represent the maximum SS elevations.

CONCLUSIONS

9

This Weekly Impact Monitoring Report presents the EM&A work undertaken during the period from 21 January to 27 January 2008 in accordance with the EM&A Manual and the requirements under *EP*-267/2007.

Two exceedances of Action and Limit Levels were recorded during the reporting week.

No non-compliance event was recorded during the reporting week.

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

The ET will keep track of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures. Annex A

Works Programme of the Period between 14 January and 10 February 2008

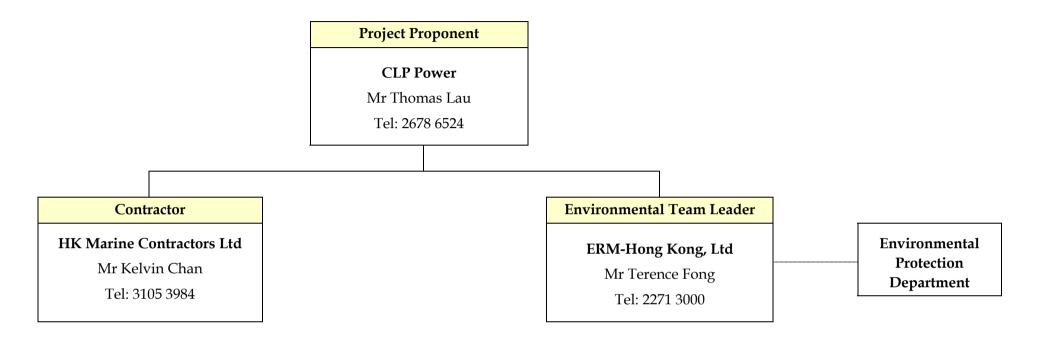
Marine Work of 132kV Submarine Cable Installation between Airport to Tuen Mun

	Workdone for Last Week						Plan f	or This	s Weel	ĸ		Anticipate Plan for Next Week										
	Item Date	21/1	22/1	23/1	24/1	25/1	26/1	27/1	28/1	29/1	30/1	31/1	1/2	2/2	3/2	4/2	5/2	6/2	7/2	8/2	9/2	10/2
1	Mobilization of Plants																					
2	Utilities Detection																					
3	Mobilization of Marine Plant																					
4	Site Setting Out																					
5	Site Clearance																					
6	Installation of Silt Curtain																					
5	Rock Breaking (Land Portion)																					
6	Rock Breaking (Marine Portion)																					
7	Dredging (Tuen Mun)																					
8	Mobilization of Marine Plant																					
8	Dredging (Airport)																					

Prepared by: Hong Kong Marine Contractors Ltd. Ref. No. MCERM-132AIRPORTTM-00301-08 Date: 29/01/2008 Annex B

Project Organisation Chart (with Contact Details)

ANNEX B - PROJECT ORGANIZATION (WITH CONTACT DETAILS)



Line of Project Management Responsibility

Communication Channel

Annex C

Tentative Monitoring Schedule

Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit Tentative Water Quality Monitoring Schedule at Tuen Mun and Airport landing site - January 2008

Sunday	Мог	nday	Tu	esday	Wed	nesday	Thu	ırsday	Fi	riday	Saturday	
				01-Jan		02-Jan		03-Jan		04-Jan		05-Jar
					Mid-Ebb	07:14						
					Mid-Flood	13:54						
						Monitoring						
06-Ja	1	07-Jan		08-Jan	(7.)	09-Jan		10-Jan		11-Jan		12-Jai
0000		01 0411			Mid-Ebb	13:43			Mid-Flood	09:44		
					Mid-Flood	18:41			Mid-Ebb	14:59		
					Impact	Monitoring			Impact	Monitoring		
					(Tue	n Mun)			(Tue	en Mun)		
13-Ja	า	14-Jan		15-Jan		16-Jan		17-Jan		18-Jan		19-Jar
Vid-Ebb 10:43			Mid-Flood		Mid-Flood	12:25	Mid-Flood		Mid-Ebb		Mid-Flood	14:43
Vid-Flood 16:21			Mid-Ebb		Mid-Ebb		Mid-Ebb		Mid-Flood		Mid-Ebb	22:48
Impact Monitoring			,	Monitoring		Monitoring		Monitoring		Monitoring		Monitoring
(Tuen Mun)			1	en Mun)	(Ai	rport)		n Mun)		irport)		n Mun)
20-Ja	า	21-Jan		22-Jan		23-Jan		24-Jan		25-Jan		26-Jar
Mid-Ebb 15:56			Mid-Ebb	12:58			Mid-Flood	09:04			Mid-Flood	10:01
Vid-Flood 23:42			Mid-Flood	18:02			Mid-Ebb	14:19			Mid-Ebb	15:30
Impact Monitoring				Monitoring				Monitoring				Monitoring
<u>(Airport)</u> 27-Ja		28-Jan	(Al	<i>irport)</i> 29-Jan		30-Jan	(Al	rport) 31-Jan			(Al	irport)
27-Ja	Mid-Flood	10:45			Mid-Flood	11:35		31-Jan				
	Mid-Flood Mid-Ebb	16:43			Mid-Flood	18:47						
		Aonitoring				Monitoring						
		port)				rport)						

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

Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit Tentative Water Quality Monitoring Schedule at Tuen Mun and Airport landing site - February 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
					01-Feb	02-Fe		
						Mid-Flood 10:08		
						Mid-Ebb 22:24		
						Impact Monitoring		
						(Airport)		
03-Feb		05-Feb		07-Feb	08-Feb	09-Fe		
	Mid-Ebb 11:34		Mid-Flood 07:46			Mid-Flood 08:55		
	Mid-Flood 16:06		Mid-Ebb 12:54			Mid-Ebb 14:32		
	Impact Monitoring		Impact Monitoring			Impact Monitoring		
	(Airport) + Ma Wan		(Airport)			(Airport)		
10-Feb	11-Feb	12-Feb	13-Feb	14-Feb		16-Fe		
	Mid-Flood 09:41		Mid-Flood 10:38		Mid-Flood 11:50			
	Mid-Ebb 15:44		Mid-Ebb 17:27		Mid-Ebb 20:08			
	Impact Monitoring		Impact Monitoring		Impact Monitoring			
	(Airport) + Ma Wan		(Airport)		(Airport)			
17-Feb		19-Feb		21-Feb		23-Fe		
	Mid-Flood 16:09		Mid-Ebb 12:48		Mid-Ebb 13:53			
	Mid-Ebb 23:37		Mid-Flood 18:12		Mid-Flood 19:39			
	Impact Monitoring		Impact Monitoring		Impact Monitoring			
	(Airport) + Ma Wan		(Airport)		(Airport)			
24-Feb		26-Feb	27-Feb	28-Feb				
	Mid-Flood 09:18		Mid-Flood 10:00		Mid-Flood 10:21			
	Mid-Ebb 15:22		Mid-Ebb 16:40		Mid-Ebb 19:13			
	Impact Monitoring		Impact Monitoring		Impact Monitoring			
	(Airport) + Ma Wan		(Airport)		(Airport)			

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

Annex D

QA/QC Results of Laboratory Testing for Suspended Solids

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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E-mail Telephone	 Karen.Lui@erm.com 2271 3000 	E-mail Telephone	 Alice.Wong@alsenviro.com +852 2610 1044 		
Facsimile Project	2723 5660 EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Facsimile Quote number	: +852 2610 2021 :	Date received	: 23 Jan 2008
Order number C-O-C number Site	: : :			Date of issue No. of samples	: 25 Jan 2008 - Received : 92 - Analysed : 92

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801162 supersedes any previous reports with this reference. The completion date of analysis is 24 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801162 :

Sample(s) were received in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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	Signatory	Position	Authorised results for:-					
	Fung Lim Chee, Richard	General Manager	Inorganics					

A Campbell Brothers Limited Company



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5793	59)						
HK0801162-001	2008/01/22/12:28/C4/B/E/	EA025: Suspended Solids (SS)		1	mg/L	12	13	0.0
	REPL. 1							
HK0801162-011	2008/01/22/12:03/SR3/M/E/	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0
	REPL. 2							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5793	60)						
HK0801162-021	2008/01/22/12:20/D2/T/E/	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0
	REPL. 1							
HK0801162-032	2008/01/22/11:54/SR4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
	REPL. 1							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5793	61)						
HK0801162-041	2008/01/22/11:46/G1/M/E/	EA025: Suspended Solids (SS)		1	mg/L	10	11	0.0
	REPL. 2							
HK0801162-051	2008/01/22/17:31/C4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0
	REPL. 2							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5793	62)						
HK0801162-061	2008/01/22/17:11/U2/T/F/	EA025: Suspended Solids (SS)		1	mg/L	18	16	0.0
	REPL. 1							
HK0801162-071	2008/01/22/16:31/C3/B/F/	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0
	REPL. 1							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5793	63)						
HK0801162-081	2008/01/22/16:56/SR4/M/F/	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
	REPL. 2							
HK0801162-092	2008/01/22/16:44/SR2/T/F/	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0
	REPL. 2							

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Page Number	:	9 of 9
Client	:	ERM HONG KONG
Work Order		HK0801162



Matrix Type: WATER	atrix Type: WATER			Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPL)s (%)			
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit			
EA/ED: Physical and Aggregate Propert	ies (QCLot: 579359)													
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115					
EA/ED: Physical and Aggregate Properties (QCLot: 579360)														
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115					
EA/ED: Physical and Aggregate Propert	ies (QCLot: 579361)													
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115					
EA/ED: Physical and Aggregate Propert	ies (QCLot: 579362)													
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115					
EA/ED: Physical and Aggregate Propert	ies (QCLot: 579363)						-	-			-			
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115					

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CERTIFICATE OF ANALYSIS

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Facsimile Project	2723 5660 EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Facsimile Quote number	: +852 2610 2021 :	Date received	: 25 Jan 2008
Order number C-O-C number	:			Date of issue No. of samples	: 28 Jan 2008 - Received : 92
Site	:				- Analysed : 92

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801300 supersedes any previous reports with this reference. The completion date of analysis is 28 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801300 :

Sample(s) were received in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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	Signatory	Position	Authorised results for:-	
	Fung Lim Chee, Richard	General Manager	Inorganics	



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results								
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and A	Aggregate Properties (QC Lot: 580	956)										
HK0801300-001	2008/01/24/08:41/C4/B/F	EA025: Suspended Solids (SS)		1	mg/L	19	20	8.0				
	REPL. 1											
HK0801300-011	2008/01/24/08:16/SR3/M/F	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0				
	REPL. 2											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 580	957)										
HK0801300-021	2008/01/24/08:31/D2/T/F	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				
	REPL. 1											
HK0801300-031	2008/01/24/08:00/SR4/B/F	EA025: Suspended Solids (SS)		1	mg/L	63	61	2.8				
	REPL. 1											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 580	958)										
HK0801300-041	2008/01/24/07:52/G1/M/F	EA025: Suspended Solids (SS)		1	mg/L	12	11	9.2				
	REPL. 2											
HK0801300-051	2008/01/24/13:47/C4/M/E	EA025: Suspended Solids (SS)		1	mg/L	8	9	17.3				
	REPL. 2											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 580	959)										
HK0801300-061	2008/01/24/13:28/U2/T/E	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0				
	REPL. 1											
HK0801300-071	2008/01/24/12:51/C3/B/E	EA025: Suspended Solids (SS)		1	mg/L	14	13	9.6				
	REPL. 1											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 580	960)										
HK0801300-081	2008/01/24/13:14/SR4/M/E	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0				
	REPL. 2											
HK0801300-091	2008/01/24/13:12/SR2/B/E	EA025: Suspended Solids (SS)		1	mg/L	10	11	12.6				
	REPL. 2											

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

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Client	:	ERM HONG KONG
Work Order		HK0801300



Matrix Type: WATER			Method Blank (MB) Results	Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results								
					Spike	Spike Re	Recovery	Limits (%)	RPDs (%)				
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 580956)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115				
EA/ED: Physical and Aggregate Propert	ies (QCLot: 580957)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115				
EA/ED: Physical and Aggregate Propert	ies (QCLot: 580958)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115				
EA/ED: Physical and Aggregate Propert	ies (QCLot: 580959)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115				
EA/ED: Physical and Aggregate Propert	ies (QCLot: 580960)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115				

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E-mail Telephone	: Karen.Lui@erm.com : 2271 3000	E-mail Telephone	 Alice.Wong@alsenviro.com +852 2610 1044 		
Facsimile Project	2723 5660 EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Facsimile Quote number	: +852 2610 2021 :	Date received	: 26 Jan 2008
Order number C-O-C number Site	: :			Date of issue No. of samples	: 29 Jan 2008 - Received : 92 - Analysed : 92

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801388 supersedes any previous reports with this reference. The completion date of analysis is 29 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

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	Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results								
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5816	645)										
HK0801388-001	2008/01/26/09:41/C4/B/F/	EA025: Suspended Solids (SS)		1	mg/L	24	24	0.0				
	REPL. 1											
HK0801388-011	2008/01/26/09:18/SR3/M/F/	EA025: Suspended Solids (SS)		1	mg/L	18	17	9.9				
	REPL. 2											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5816	646)										
HK0801388-021	2008/01/26/09:32/D2/T/F/	EA025: Suspended Solids (SS)		1	mg/L	12	12	0.0				
	REPL. 1											
HK0801388-031	2008/01/26/09:06/SR4/B/F/	EA025: Suspended Solids (SS)		1	mg/L	11	12	0.0				
	REPL. 1											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5816	647)										
HK0801388-041	2008/01/26/08:58/G1/M/F/	EA025: Suspended Solids (SS)		1	mg/L	21	22	0.0				
	REPL. 2											
HK0801388-051	2008/01/26/14:56/C4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				
	REPL. 2											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5816	648)										
HK0801388-061	2008/01/26/14:37/U2/T/E/	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0				
	REPL. 1											
HK0801388-071	2008/01/26/14:02/C3/B/E/	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0				
	REPL. 1											
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5816	649)										
HK0801388-081	2008/01/26/14:23/SR4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0				
	REPL. 2											
HK0801388-092	2008/01/26/14:43/SR2/T/E/	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0				
	REPL. 2											

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

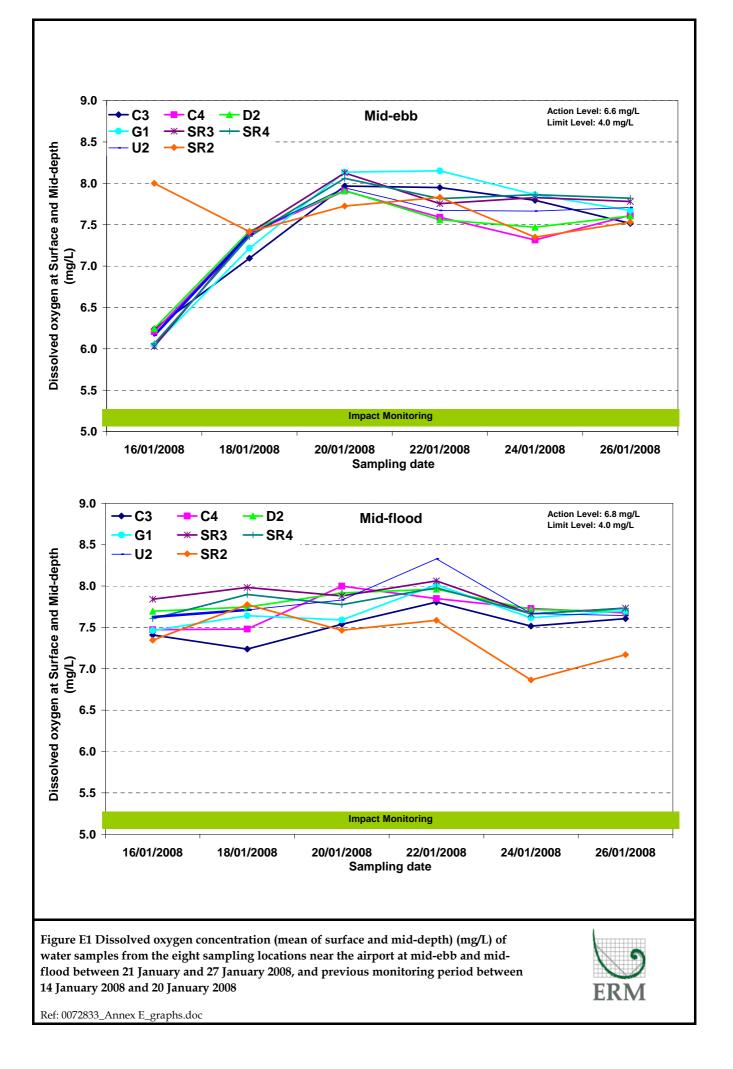
Page Number	: 9 of 9
Client	: ERM HONG KONG
Work Order	HK0801388

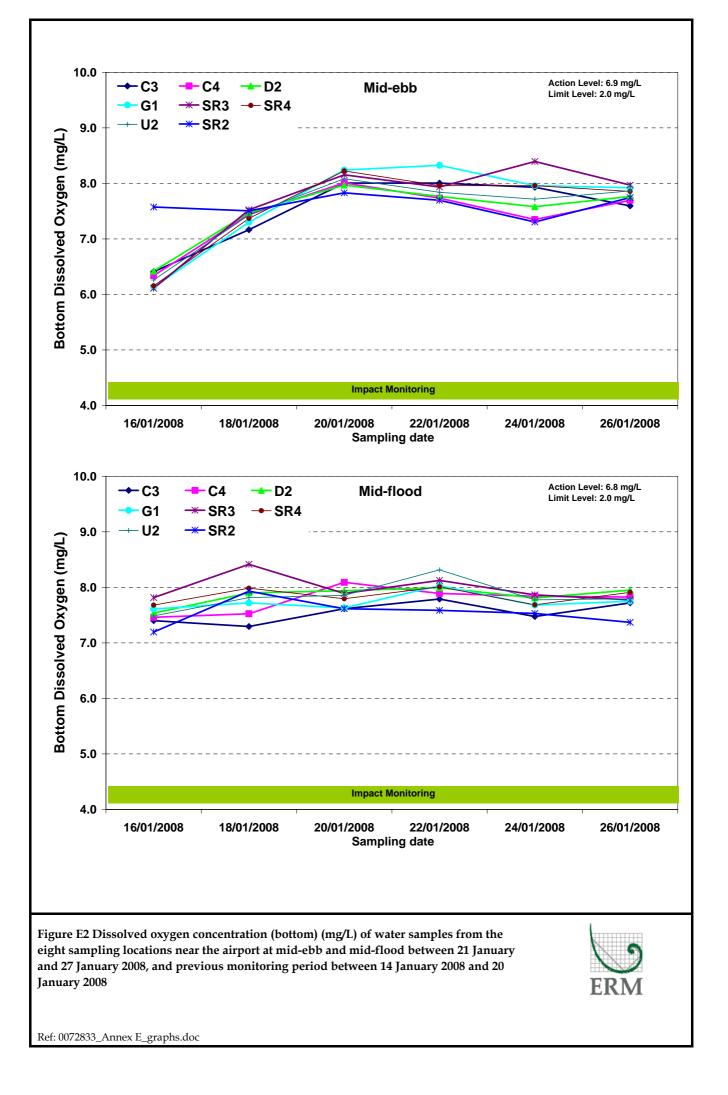


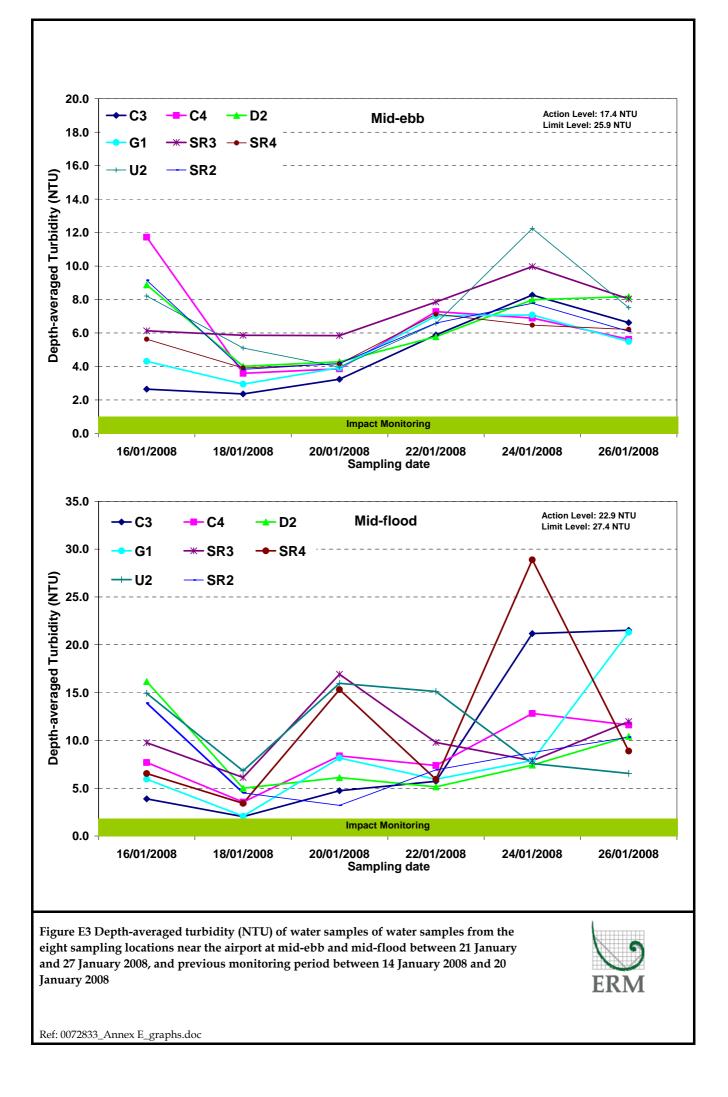
Matrix Type: WATER			Method Blank (MB) Results	Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results								
					Spike	Spike Red	Recovery	Limits (%)	RPDs (%)				
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low High		Value	Control Limit		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581645)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115				
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581646)		·	·									
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115				
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581647)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115				
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581648)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115				
EA/ED: Physical and Aggregate Proper	ties (QCLot: 581649)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115				

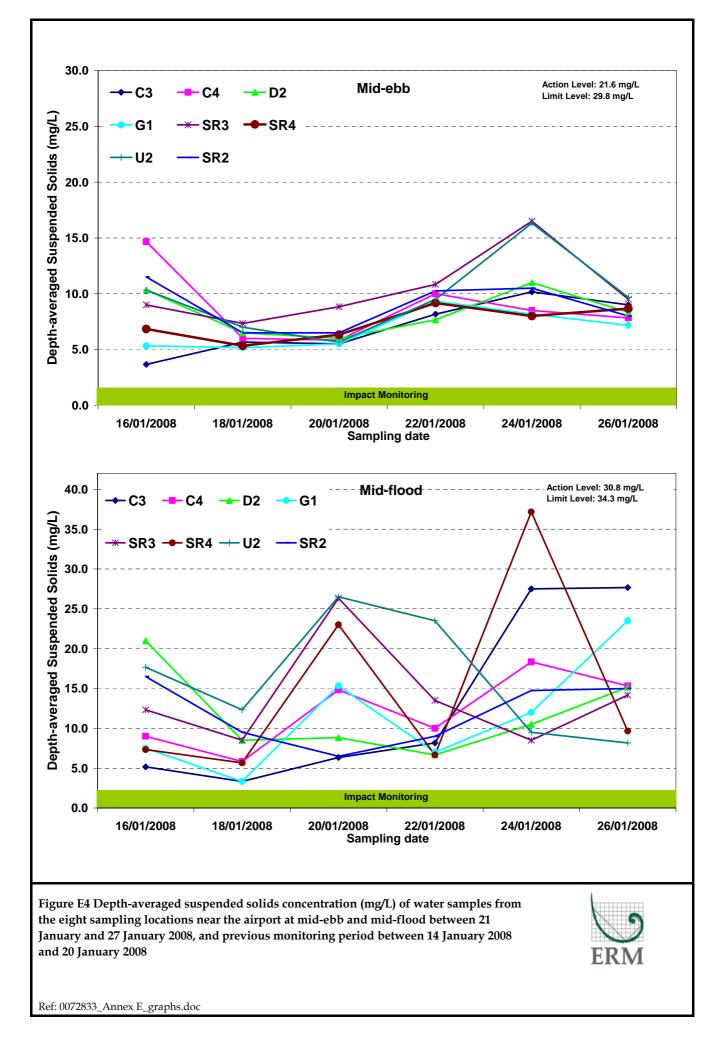
Annex E

Impact Water Quality Monitoring Results









Annex E1 - Water Quality Results at Airport during mid-ebb tide for 22 January 2008

Sampling Date		01/22/08
Weather & Am	pient Temperature	Sunny, 19C

Mid-Ebb

Station			C	3			1			Station			U	2]		
Time (hh:mm)			11:31	-11:35						Time (hh:mm)			12:10	·12:13					
Water Depth (m)			12	.30						Water Depth (m)			9.3	30					
Monitoring Depth (m)	1.	.10	6.	10	11	.10				Monitoring Depth (m)	1.00 4.60 7.90								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface& Middle	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface& Middle
Water Temperature (°C)	18.3	18.4	18.3	18.3	18.3	18.3	18.32	-		Water Temperature (°C)	18.4	18.4	18.3	18.3	18.3	18.3	18.30	-	
Salinity (ppt)	31.5	31.5	31.5	31.6	31.6	31.6	31.55	-		Salinity (ppt)	31.0	31.0	31.2	31.1	31.2	31.2	31.11	-	
рН	7.8	7.9	7.8	7.9	7.8	7.8	7.84			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.85		
D.O. Saturation (%)	102.1	102.6	101.6	102.0	102.8	102.8	102.31	-		D.O. Saturation (%)	99.3	96.4	100.5	96.7	102.8	97.9	98.93	-	
D.O. (mg/L)	7.95	7.98	7.91	7.95	8.01	8.00	7.97	8.01	7.95	D.O. (mg/L)	7.75	7.53	7.85	7.56	8.03	7.65	7.73	7.84	7.67
Turbidity (NTU)	5.80	5.10	5.20	6.90	6.70	5.80	5.88	-		Turbidity (NTU)	5.50	5.10	6.60	6.60	7.80	8.00	6.57	-	
SS (mg/L)	6.0	10.0	9.0	6.0	9.0	9.0	8.17	-		SS (mg/L)	8.0	7.0	7.0	10.0	11.0	14.0	9.50	-	
Remarks										Remarks									

Station			C	4]			Station			SR2]		
Time (hh:mm)			12:28	-12:31						Time (hh:mm)			11:54-12:02					
Water Depth (m)			9.	60						Water Depth (m)	4.30							
Monitoring Depth (m)	1.	10	4.	60	7.	90				Monitoring Depth (m)	1.10 3.10			10				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2		Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle							averaged		Middle
Water Temperature (°C)	18.3	18.3	18.3	18.3	18.3	18.3	18.28	-		Water Temperature (°C)	18.4	18.5		18.3	18.3	18.37	-	
Salinity (ppt)	31.2	31.2	31.2	31.2	31.3	31.3	31.23	-		Salinity (ppt)	30.9	30.9		30.9	30.9	30.91	-	
pH	7.9	7.9	7.8	7.9	7.9	7.9	7.85			рН	8.0	8.0		8.0	8.0	8.01		
D.O. Saturation (%)	98.6	96.0	98.9	95.3	100.8	97.2	97.79	-		D.O. Saturation (%)	101.6	99.1		100.6	96.1	99.34	-	
D.O. (mg/L)	7.70	7.50	7.72	7.44	7.88	7.59	7.64	7.74	7.59	D.O. (mg/L)	7.93	7.73		7.87	7.52	7.76	7.70	7.83
Turbidity (NTU)	5.20	5.30	8.20	6.40	9.60	9.10	7.27	-		Turbidity (NTU)	6.20	6.10		6.80	7.20	6.59	-	
SS (mg/L)	8.0	6.0	11.0	11.0	12.0	12.0	10.00	-		SS (mg/L)	7.0	8.0		14.0	12.0	10.25	-	
Remarks										Remarks								

Station			0	02			1			Station			SI	R3			1		
Time (hh:mm)			12:19	-12:22						Time (hh:mm)	12:02-12:04								
Water Depth (m)			8.	.40						Water Depth (m)			13	.20					
Monitoring Depth (m)	1.	1.20 4.20 6.90								Monitoring Depth (m)	1.	00	6.	50	12	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	18.4	18.4	18.3	18.3	18.3	18.3	18.32	-		Water Temperature (°C)	18.4	18.4	18.3	18.3	18.2	18.2	18.30	-	
Salinity (ppt)	31.0	30.9	31.0	31.0	31.2	31.2	31.05	-		Salinity (ppt)	31.1	31.1	31.1	31.2	31.2	31.2	31.16	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.83			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.85		
D.O. Saturation (%)	97.8	95.1	98.8	95.6	101.8	96.9	97.66	-		D.O. Saturation (%)	100.5	97.2	101.6	98.1	103.8	99.2	100.06	-	
D.O. (mg/L)	7.63	7.42	7.72	7.47	7.96	7.57	7.63	7.77	7.56	D.O. (mg/L)	7.84	7.58	7.94	7.66	8.12	7.75	7.82	7.94	7.76
Turbidity (NTU)	5.20	5.30	6.10	5.80	6.30	6.20	5.77	-		Turbidity (NTU)	7.60	6.90	8.40	7.80	6.80	9.70	7.85	-	
SS (mg/L)	9.0	6.0	6.0	7.0	8.0	10.0	7.67	-		SS (mg/L)	11.0	9.0	10.0	10.0	14.0	11.0	10.83	-	
Remarks										Remarks									

Station			(G1]			Station			SI	R4]		
Time (hh:mm)			11:42	2-11:48						Time (hh:mm)			11:54	-11:57					
Water Depth (m)			12	2.90						Water Depth (m)			14	.20					
Monitoring Depth (m)	1.	20	6	.70	11	.90				Monitoring Depth (m)	1.	.10	7.	20	13	5.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	18.2	18.3	18.2	18.2	18.2	18.2	18.24	-		Water Temperature (°C)	18.2	18.2	18.1	18.1	18.1	18.1	18.16	-	
Salinity (ppt)	31.4	31.5	31.5	31.5	31.5	31.5	31.47	-		Salinity (ppt)	31.2	31.2	31.3	31.3	31.5	31.5	31.32	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.87		
D.O. Saturation (%)	105.2	102.4	106.7	103.4	108.5	104.8	105.15	-		D.O. Saturation (%)	101.5	98.1	101.9	98.1	104.1	99.4	100.52	-	
D.O. (mg/L)	8.21	7.99	8.33	8.07	8.47	8.18	8.21	8.33	8.15	D.O. (mg/L)	7.93	7.67	7.98	7.68	8.14	7.78	7.86	7.96	7.82
Turbidity (NTU)	7.00	7.70	6.50	7.70	7.30	6.10	7.02	-		Turbidity (NTU)	5.80	5.40	6.90	6.60	10.10	8.10	7.12	-	
SS (mg/L)	10.0	8.0	10.0	10.0	9.0	9.0	9.33	-		SS (mg/L)	8.0	7.0	9.0	10.0	11.0	10.0	9.17	-	
Remarks										Remarks									

Annex E2 - Water Quality Results at Airport during mid-flood tide for 22 January 2008

Sampling Date	01/22/08
Weather & Ambient Temperature	Sunny,18C

Mid-Flood

Station			(3			1			Station			ι	J2			1		
Time (hh:mm)			16:31	-16:35						Time (hh:mm)			17:09	-17:12					
Water Depth (m)			12	.10						Water Depth (m)			9.	.40					
Monitoring Depth (m)	1.	20	6.	.00	11	.00				Monitoring Depth (m)	0.	.90	4.	.60	8	.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface& Middle	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface&M iddle
Water Temperature (°C)	18.3	18.3	18.3	18.3	18.3	18.4	18.31	-		Water Temperature (°C)	18.4	18.4	18.3	18.3	18.3	18.3	18.33	-	
Salinity (ppt)	31.4	31.3	31.5	31.4	31.6	31.7	31.47	-		Salinity (ppt)	31.4	31.4	31.5	31.5	31.5	31.5	31.45	-	
рН	7.8	7.8	7.8	7.8	7.7	7.8	7.77			рН	7.8	7.8	7.9	7.9	7.9	7.9	7.85		
D.O. Saturation (%)	100.2	101.5	98.6	99.9	99.5	100.7	100.09	-		D.O. Saturation (%)	107.0	106.4	107.1	106.9	106.5	106.9	106.80	-	
D.O. (mg/L)	7.82	7.92	7.69	7.79	7.75	7.83	7.80	7.79	7.81	D.O. (mg/L)	8.34	8.29	8.35	8.33	8.30	8.33	8.32	8.32	8.33
Turbidity (NTU)	5.20	4.30	6.10	5.20	7.70	6.00	5.72	-		Turbidity (NTU)	11.90	10.20	14.10	13.10	21.00	20.30	15.12	-	
SS (mg/L)	7.0	5.0	11.0	8.0	9.0	9.0	8.17	-		SS (mg/L)	18.0	17.0	18.0	23.0	35.0	30.0	23.50	-	
Remarks										Remarks									

Station			(24			1			Station			SR2			1		
Time (hh:mm)			17:28	-17:32						Time (hh:mm)			16:37-16:44					
Water Depth (m)			9.	.70						Water Depth (m)			4.40					
Monitoring Depth (m)	1.	.10	5.	.10	8.	50				Monitoring Depth (m)	1.	.10		3.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2		Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle							averaged		iddle
Water Temperature (°C)	18.3	18.3	18.3	18.3	18.3	18.3	18.28	-		Water Temperature (°C)	18.7	18.6		18.7	18.7	18.65	-	
Salinity (ppt)	31.1	31.1	31.1	31.1	31.1	31.1	31.07	-		Salinity (ppt)	31.0	30.9		31.0	31.0	30.95	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.81			рН	7.9	7.9		7.9	7.9	7.92		
D.O. Saturation (%)	100.6	100.0	100.9	100.1	101.3	100.6	100.57	-		D.O. Saturation (%)	98.2	97.0		98.4	96.9	97.64	-	
D.O. (mg/L)	7.86	7.82	7.88	7.83	7.92	7.86	7.86	7.89	7.85	D.O. (mg/L)	7.63	7.54		7.64	7.53	7.59	7.59	7.59
Turbidity (NTU)	7.20	7.30	6.20	7.10	7.90	8.70	7.37	-		Turbidity (NTU)	6.30	6.40		8.40	6.50	6.91	-	
SS (mg/L)	9.0	11.0	9.0	10.0	12.0	9.0	10.00	-		SS (mg/L)	8.0	9.0		10.0	9.0	9.00	-	
Remarks										Remarks								

Station			C)2			1			Station			S	R3			1		
Time (hh:mm)			17:17	-17:21						Time (hh:mm)			17:00	-17:05					
Water Depth (m)			8.	70						Water Depth (m)			13	.30					
Monitoring Depth (m)	1.	10	4.	20	7.	00				Monitoring Depth (m)	1.	10	6.	60	11	.80			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	18.4	18.4	18.4	18.4	18.4	18.4	18.36	-		Water Temperature (°C)	18.4	18.4	18.3	18.3	18.3	18.3	18.31	-	
Salinity (ppt)	31.1	31.1	31.1	31.1	31.1	31.1	31.09	-		Salinity (ppt)	31.2	31.2	31.3	31.3	31.5	31.5	31.34	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.82			pН	7.8	7.8	7.8	7.8	7.9	7.9	7.84		
D.O. Saturation (%)	102.2	101.9	102.2	101.9	102.6	102.4	102.19	-		D.O. Saturation (%)	104.0	102.9	104.3	102.3	104.7	103.6	103.64	-	
D.O. (mg/L)	7.97	7.96	7.97	7.95	8.00	7.99	7.97	8.00	7.96	D.O. (mg/L)	8.11	8.02	8.13	7.99	8.17	8.08	8.08	8.13	8.06
Turbidity (NTU)	4.90	4.90	4.90	4.70	5.40	6.30	5.14	-		Turbidity (NTU)	7.00	6.50	9.20	5.30	14.50	16.30	9.78	-	
SS (mg/L)	5.0	8.0	7.0	5.0	7.0	8.0	6.67	-		SS (mg/L)	8.0	9.0	9.0	7.0	16.0	32.0	13.50	-	
Remarks										Remarks									

Station			C	51			1			Station			SI	R4			1		
Time (hh:mm)			16:41	-16:47						Time (hh:mm)			16:53	-16:56					
Water Depth (m)			13	5.10						Water Depth (m)			14	.50					
Monitoring Depth (m)	1.	00	6.	.60	12	.10				Monitoring Depth (m)	1.	.10	7.	30	12	.90			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	18.4	18.4	18.3	18.3	18.3	18.3	18.32	-		Water Temperature (°C)	18.4	18.4	18.3	18.3	18.2	18.2	18.29	-	
Salinity (ppt)	31.1	31.1	31.2	31.2	31.4	31.5	31.23	-		Salinity (ppt)	31.1	31.1	31.3	31.2	31.4	31.4	31.22	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.80			рН	7.8	7.8	7.8	7.8	7.8	7.8	7.81		
D.O. Saturation (%)	103.3	102.6	103.0	102.0	103.7	102.1	102.79	-		D.O. Saturation (%)	103.1	102.4	102.2	101.2	103.3	101.6	102.30	-	
D.O. (mg/L)	8.06	8.00	8.04	7.96	8.10	7.96	8.02	8.03	8.02	D.O. (mg/L)	8.04	7.99	7.98	7.90	8.08	7.94	7.99	8.01	7.98
Turbidity (NTU)	4.90	5.00	4.30	5.80	7.40	8.40	5.94	-		Turbidity (NTU)	5.20	4.90	5.50	4.90	7.60	7.70	5.93	-	
SS (mg/L)	7.0	5.0	8.0	6.0	7.0	9.0	7.00	-		SS (mg/L)	7.0	6.0	4.0	5.0	8.0	10.0	6.67	-	
Remarks										Remarks									

Annex E3 - Water Quality Results at Airport during mid-ebb tide for 24 January 2008

Sampling Date	01/24/08
Weather & Ambient Temperature	Cloudy, 14C

Mid-Ebb

Station			C	3]			Station			L	2			1		
Time (hh:mm)			12:51	-12:55						Time (hh:mm)			13:27	-13:30					
Water Depth (m)			12	.30						Water Depth (m)			8.	70					
Monitoring Depth (m)	1.	00	6.	10	11	.00				Monitoring Depth (m)	1.	00	4.	70	8	.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	18.1	18.1	18.1	18.1	18.1	18.1	18.11	-		Water Temperature (°C)	17.7	17.7	17.7	17.7	17.7	17.7	17.73	-	
Salinity (ppt)	31.8	31.8	31.8	31.8	31.8	31.8	31.82	-		Salinity (ppt)	31.4	31.4	31.4	31.4	31.4	31.4	31.43	-	
рН	7.9	7.9	7.8	7.9	7.8	7.9	7.85			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.89		
D.O. Saturation (%)	100.4	99.3	100.7	99.1	103.1	100.1	100.45	-		D.O. Saturation (%)	97.6	96.7	97.8	96.8	98.8	96.9	97.44	-	
D.O. (mg/L)	7.84	7.75	7.86	7.73	8.05	7.81	7.84	7.93	7.80	D.O. (mg/L)	7.70	7.62	7.71	7.63	7.79	7.64	7.68	7.72	7.67
Turbidity (NTU)	5.90	6.30	9.90	7.70	10.50	9.40	8.27	-		Turbidity (NTU)	7.90	6.90	11.10	8.90	17.20	21.50	12.24	-	
SS (mg/L)	6.0	8.0	10.0	10.0	14.0	13.0	10.17	-		SS (mg/L)	9.0	9.0	14.0	14.0	26.0	26.0	16.33	-	
Remarks										Remarks									

Station			C	:4						Station			S	R2					
Time (hh:mm)			13:44	-13:48						Time (hh:mm)			13:05	-13:14					
Water Depth (m)			10	.10						Water Depth (m)			4.	20					
Monitoring Depth (m)	1.	00	4.	60	8.	00				Monitoring Depth (m)	1	.00			3.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.8	17.8	17.8	17.8	17.8	17.8	17.79	-		Water Temperature (°C)	17.7	17.8			17.7	17.8	17.75	-	
Salinity (ppt)	31.5	31.5	31.5	31.5	31.5	31.5	31.53	-		Salinity (ppt)	31.3	31.3			31.3	31.3	31.26	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.89			рН	8.0	8.0			8.0	8.0	8.02		
D.O. Saturation (%)	93.0	93.0	92.7	93.1	94.0	93.0	93.12	-		D.O. Saturation (%)	94.0	92.3			93.5	91.7	92.87	-	
D.O. (mg/L)	7.32	7.32	7.29	7.33	7.39	7.31	7.33	7.35	7.32	D.O. (mg/L)	7.42	7.28			7.38	7.23	7.33	7.31	7.35
Turbidity (NTU)	6.50	6.20	7.20	6.40	8.50	6.70	6.88	-		Turbidity (NTU)	7.40	7.90			7.80	8.00	7.77	-	
SS (mg/L)	6.0	8.0	11.0	8.0	10.0	8.0	8.50	-		SS (mg/L)	12.0	10.0			10.0	10.0	10.50	-	
Remarks										Remarks									

Station			[)2			8.5			Station			S	R3			1		
Time (hh:mm)			13:36	-13:39						Time (hh:mm)			13:19	-13:23					
Water Depth (m)			8.	50						Water Depth (m)			13	.50					
Monitoring Depth (m)	1.	20	4.	10	7.	00				Monitoring Depth (m)	1.	.10	6.	40	12	.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.8	17.8	17.7	17.7	17.7	17.7	17.72	-		Water Temperature (°C)	17.7	17.7	17.7	17.7	17.7	17.7	17.70	-	
Salinity (ppt)	31.4	31.4	31.5	31.5	31.5	31.5	31.45	-		Salinity (ppt)	31.4	31.5	31.5	31.5	31.4	31.5	31.45	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.89			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.90		
D.O. Saturation (%)	94.9	94.2	95.4	94.6	97.1	95.1	95.22	-		D.O. Saturation (%)	98.5	98.1	98.7	101.9	99.4	113.6	101.69	-	
D.O. (mg/L)	7.48	7.42	7.52	7.46	7.66	7.50	7.51	7.58	7.47	D.O. (mg/L)	7.76	7.74	7.78	8.03	7.83	8.96	8.02	8.40	7.83
Turbidity (NTU)	8.00	7.10	7.60	8.50	8.90	7.90	7.98	-		Turbidity (NTU)	6.10	5.70	8.90	6.40	15.10	17.80	9.97	-	
SS (mg/L)	12.0	8.0	10.0	12.0	14.0	10.0	11.00	-		SS (mg/L)	15.00	10.00	11.00	15.00	19.00	29.00	8.50	-	
Remarks										Remarks									

Station			0	61			1			Station			S	R4			1		
Time (hh:mm)			13:01	-13:05						Time (hh:mm)			13:11	-13:14					
Water Depth (m)			13	.40						Water Depth (m)			14	.30					
Monitoring Depth (m)	1.	10	6.	50	11	.90				Monitoring Depth (m)	1.	00	7.	00	13	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	18.0	18.0	17.9	17.9	17.7	17.8	17.87	-		Water Temperature (°C)	17.7	17.7	17.7	17.7	17.7	17.7	17.69	-	
Salinity (ppt)	31.6	31.6	31.6	31.6	31.6	31.6	31.63	-		Salinity (ppt)	31.4	31.4	31.5	31.5	31.5	31.5	31.48	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.89			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.89		
D.O. Saturation (%)	101.1	99.1	100.8	100.0	102.1	100.1	100.53	-		D.O. Saturation (%)	100.0	98.8	100.8	99.3	102.2	99.7	100.12	-	
D.O. (mg/L)	7.92	7.77	7.91	7.85	8.04	7.88	7.90	7.96	7.86	D.O. (mg/L)	7.88	7.78	7.95	7.84	8.06	7.86	7.90	7.96	7.86
Turbidity (NTU)	6.40	5.70	6.80	6.60	11.20	5.90	7.07	-		Turbidity (NTU)	6.20	6.20	6.00	6.60	6.60	7.40	6.47	-	
SS (mg/L)	9.0	8.0	8.0	7.0	7.0	10.0	8.17	-		SS (mg/L)	7.0	7.0	9.0	10.0	7.0	8.0	8.00	-	
Remarks										Remarks									

Annex E4 - Water Quality Results at Airport during mid-flood tide for 24 January 2008

Sampling Date	01/24/08
Weather & Ambient Temperature	Rainy, 14C

Mid-Flood

Station			C	3]			Station			L	12			1		
Time (hh:mm)			07:37	-07:40						Time (hh:mm)			08:21	-08:24					
Water Depth (m)			11	.20						Water Depth (m)			8.	50					
Monitoring Depth (m)	1.	.00	5.	70	10	.10				Monitoring Depth (m)	1.	10	4.	10	7	.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.8	17.8	17.8	17.8	17.9	17.9	17.85	-		Water Temperature (°C)	18.0	18.0	17.8	18.0	17.8	17.8	17.90	-	
Salinity (ppt)	31.6	31.6	31.6	31.6	31.7	31.7	31.63	-		Salinity (ppt)	31.2	31.2	31.4	31.2	31.4	31.4	31.30	-	
рН	7.8	7.9	7.8	7.8	7.8	7.8	7.82			рН	7.8	7.8	7.9	7.8	7.9	7.9	7.86		
D.O. Saturation (%)	96.4	95.6	95.0	95.1	95.3	95.4	95.50	-		D.O. Saturation (%)	97.4	96.0	99.3	97.5	99.8	97.7	97.98	-	
D.O. (mg/L)	7.59	7.52	7.47	7.48	7.47	7.48	7.50	7.48	7.52	D.O. (mg/L)	7.65	7.54	7.82	7.66	7.86	7.69	7.70	7.78	7.67
Turbidity (NTU)	10.90	11.80	27.30	27.80	25.30	24.00	21.18	-		Turbidity (NTU)	7.00	7.10	7.70	6.70	9.20	7.90	7.58	-	
SS (mg/L)	10.0	17.0	36.0	40.0	28.0	34.0	27.50	-		SS (mg/L)	8.0	8.0	10.0	8.0	11.0	12.0	9.50	-	
Remarks										Remarks									

Station			C	:4]			Station			S	R2			1		
Time (hh:mm)			08:41	-08:45						Time (hh:mm)			08:15	-08:29					
Water Depth (m)			9.	30						Water Depth (m)			4.	20					
Monitoring Depth (m)	1.	00	4.	60	8.	20				Monitoring Depth (m)	1.	10			2.	.90			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.9	17.8	17.9	17.8	17.9	17.8	17.84	-		Water Temperature (°C)	18.2	18.2			18.1	18.0	18.14	-	
Salinity (ppt)	31.5	31.5	31.4	31.5	31.4	31.5	31.47	-		Salinity (ppt)	31.0	30.9			31.0	31.1	30.99	-	
рН	7.9	7.9	7.8	7.9	7.8	7.9	7.86			рН	7.9	7.9			7.9	8.0	7.94		
D.O. Saturation (%)	98.5	98.0	98.5	98.1	100.2	99.1	98.75	-		D.O. Saturation (%)	89.7	85.6			98.1	93.7	91.75	-	
D.O. (mg/L)	7.74	7.71	7.74	7.72	7.88	7.80	7.77	7.84	7.73	D.O. (mg/L)	7.03	6.70			7.70	7.36	7.20	7.53	6.87
Turbidity (NTU)	10.90	14.30	12.20	12.90	11.70	14.80	12.81	-		Turbidity (NTU)	6.60	6.40			8.90	13.00	8.74	-	
SS (mg/L)	19.0	19.0	12.0	21.0	19.0	20.0	18.33	-		SS (mg/L)	14.0	14.0			14.0	17.0	14.75	-	
Remarks										Remarks									

Station			0)2			1			Station			SI	२३			1		
Time (hh:mm)			08:30	-08:33						Time (hh:mm)			08:13·	-08:17					
Water Depth (m)			7.	80						Water Depth (m)			12	.60					
Monitoring Depth (m)	1.	30	3.	50	6.	10				Monitoring Depth (m)	1.	20	6.	10	11	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.9	17.9	17.9	17.9	17.9	17.8	17.88	-		Water Temperature (°C)	17.9	17.9	17.9	17.8	17.9	17.8	17.86	-	
Salinity (ppt)	31.2	31.2	31.4	31.3	31.4	31.4	31.33	-		Salinity (ppt)	31.4	31.4	31.4	31.4	31.4	31.4	31.41	-	
рН	7.8	7.9	7.9	7.9	7.9	7.9	7.85			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.86		
D.O. Saturation (%)	98.0	97.6	98.9	98.1	100.5	98.2	98.52	-		D.O. Saturation (%)	97.6	97.0	98.0	97.2	102.8	97.1	98.28	-	
D.O. (mg/L)	7.71	7.67	7.77	7.71	7.90	7.72	7.75	7.81	7.72	D.O. (mg/L)	7.67	7.63	7.70	7.65	8.09	7.64	7.73	7.87	7.66
Turbidity (NTU)	6.50	6.40	8.20	7.20	8.20	8.20	7.42	-		Turbidity (NTU)	6.30	6.10	7.30	9.00	8.90	9.80	7.88	-	
SS (mg/L)	8.0	9.0	12.0	9.0	14.0	11.0	10.50	-		SS (mg/L)	6.0	7.0	7.0	9.0	11.0	11.0	8.50	-	
Remarks										Remarks									

Station			(61]			Station			SI	R4			1		
Time (hh:mm)			07:47	-07:53						Time (hh:mm)			08:00	-08:05					
Water Depth (m)			12	.80						Water Depth (m)			13	.50					
Monitoring Depth (m)	1.	00	6	.20	10	.90				Monitoring Depth (m)	1.	.00	6.	60	12	.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.8	17.8	17.8	17.8	17.8	17.8	17.81	-		Water Temperature (°C)	17.8	17.8	17.8	17.8	17.8	17.8	17.79	-	
Salinity (ppt)	31.5	31.5	31.5	31.5	31.5	31.5	31.51	-		Salinity (ppt)	31.6	31.6	31.6	31.6	31.6	31.6	31.57	-	
pH	7.8	7.9	7.8	7.9	7.8	7.9	7.85			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.87		
D.O. Saturation (%)	96.5	97.0	96.7	97.2	97.6	97.6	97.08	-		D.O. Saturation (%)	97.6	97.3	97.5	97.2	98.0	97.4	97.52	-	
D.O. (mg/L)	7.59	7.63	7.60	7.64	7.68	7.68	7.64	7.68	7.62	D.O. (mg/L)	7.68	7.66	7.67	7.65	7.71	7.66	7.67	7.69	7.67
Turbidity (NTU)	7.20	7.10	7.60	7.10	9.50	9.00	7.90	-		Turbidity (NTU)	13.80	8.20	32.50	12.90	53.00	52.80	28.89	-	
SS (mg/L)	11.0	14.0	9.0	12.0	11.0	15.0	12.00	-		SS (mg/L)	12.0	11.0	37.0	18.0	63.0	82.0	37.17	-	
Remarks										Remarks									

Annex E5 - Water Quality Results Results at Airport during mid-ebb tide for 26 January 2008

Sampling Date	01/26/08
Weather & Ambient Temperature	Sunny, 13C

Mid-Ebb

Station			C	3			1			Station			L	2			1		
Time (hh:mm)			14:02	-14:06						Time (hh:mm)			14:36	-14:40					
Water Depth (m)			12	.20						Water Depth (m)			9.	40					
Monitoring Depth (m)	1.	.10	6.	10	11	.10				Monitoring Depth (m)	0.	90	4.	60	8.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	17.4	17.4	17.4	17.4	17.4	17.4	17.43	-		Water Temperature (°C)	17.0	17.0	17.0	17.0	17.0	17.0	16.98	-	
Salinity (ppt)	32.0	32.0	31.9	32.0	31.9	32.0	31.94	-		Salinity (ppt)	31.7	31.7	31.8	31.8	31.8	31.8	31.75	-	
pH	7.8	7.8	7.8	7.8	7.7	7.8	7.77			pH	7.9	7.9	7.9	7.9	7.9	7.9	7.87		
D.O. Saturation (%)	95.7	94.6	95.1	94.7	97.0	95.2	95.39	-		D.O. Saturation (%)	96.7	96.0	97.2	96.3	99.6	97.4	97.20	-	
D.O. (mg/L)	7.57	7.48	7.52	7.49	7.67	7.52	7.54	7.60	7.52	D.O. (mg/L)	7.72	7.66	7.76	7.69	7.95	7.78	7.76	7.87	7.71
Turbidity (NTU)	6.50	5.90	7.20	6.80	6.80	6.70	6.62	-		Turbidity (NTU)	6.60	6.60	7.20	7.30	7.90	9.60	7.51	-	
SS (mg/L)	7.0	9.0	11.0	7.0	9.0	11.0	9.00	-		SS (mg/L)	9.0	11.0	11.0	7.0	9.0	11.0	9.67	-	
Remarks										Remarks									

Station			C	4]			Station			S	R2			1		
Time (hh:mm)			14:54	-14:57						Time (hh:mm)			14:32	-14:43					
Water Depth (m)			9.	90						Water Depth (m)			4.	20					
Monitoring Depth (m)	1.	10	5.	10	9.	10				Monitoring Depth (m)	1.	.00			3.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	17.0	17.0	17.0	17.0	17.0	17.0	16.99	-		Water Temperature (°C)	17.0	17.0			17.0	17.0	16.97	-	
Salinity (ppt)	31.8	31.8	31.8	31.8	31.8	31.9	31.84	-		Salinity (ppt)	31.5	31.5			31.6	31.6	31.54	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.87			рН	8.0	8.0			7.9	8.0	7.97		
D.O. Saturation (%)	95.6	95.0	95.9	95.1	97.9	95.1	95.77	-		D.O. Saturation (%)	95.7	92.7			100.7	93.2	95.56	-	
D.O. (mg/L)	7.63	7.58	7.65	7.59	7.81	7.58	7.64	7.70	7.61	D.O. (mg/L)	7.65	7.41			8.05	7.44	7.64	7.75	7.53
Turbidity (NTU)	5.50	5.60	5.90	5.50	5.30	6.20	5.62	-		Turbidity (NTU)	6.20	6.20			5.30	6.60	6.10	-	
SS (mg/L)	6.00	10.00	8.00	8.00	6.00	9.00	15.33	-		SS (mg/L)	8.0	7.0			10.0	7.0	8.00	-	
Remarks										Remarks									

Station			D	2			1			Station			SI	२३			1		
Time (hh:mm)			14:45	-14:48						Time (hh:mm)			14:28	-14:31					
Water Depth (m)			8.	20						Water Depth (m)			12	.80					
Monitoring Depth (m)	1.	.00	4.	20	7.	00				Monitoring Depth (m)	0.	90	6.	80	12	.20			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	17.1	17.1	17.1	17.1	17.1	17.1	17.05	-		Water Temperature (°C)	16.9	16.9	16.9	17.0	16.9	16.9	16.93	-	
Salinity (ppt)	31.7	31.8	31.8	31.8	31.8	31.8	31.77	-		Salinity (ppt)	31.8	31.8	31.8	31.8	31.8	31.8	31.78	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.86			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.86		
D.O. Saturation (%)	95.9	94.7	96.1	95.0	99.0	95.9	96.11	-		D.O. Saturation (%)	97.6	96.6	98.4	96.9	102.5	97.1	98.19	-	
D.O. (mg/L)	7.64	7.55	7.66	7.57	7.89	7.64	7.66	7.77	7.61	D.O. (mg/L)	7.80	7.71	7.87	7.74	8.19	7.75	7.84	7.97	7.78
Turbidity (NTU)	5.80	7.90	7.60	7.90	10.10	9.80	8.17	-		Turbidity (NTU)	6.80	7.50	7.40	6.50	9.00	11.10	8.03	-	
SS (mg/L)	6.0	8.0	9.0	9.0	11.0	7.0	8.33	-		SS (mg/L)	8.0	10.0	10.0	8.0	10.0	11.0	9.50	-	
Remarks										Remarks									

Station			(G1]			Station			SI	R4]		
Time (hh:mm)			14:11	-14:15						Time (hh:mm)			14:21	-14:24					
Water Depth (m)			13	3.20						Water Depth (m)			14	.10					
Monitoring Depth (m)	1.	.00	6	.70	12	.10				Monitoring Depth (m)	1.	.10	7.	20	13	3.30			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	17.3	17.3	17.3	17.3	17.3	17.3	17.28	-		Water Temperature (°C)	16.9	16.9	17.0	17.0	17.1	17.1	17.00	-	
Salinity (ppt)	32.0	32.0	32.0	32.0	31.9	31.9	31.95	-		Salinity (ppt)	31.8	31.8	31.8	31.8	31.9	31.9	31.83	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.83			рН	7.8	7.9	7.8	7.8	7.8	7.8	7.84		
D.O. Saturation (%)	97.1	96.1	97.8	96.4	103.1	96.6	97.85	-		D.O. Saturation (%)	98.2	97.5	98.6	97.5	99.8	97.6	98.21	-	
D.O. (mg/L)	7.69	7.61	7.75	7.64	8.18	7.66	7.76	7.92	7.67	D.O. (mg/L)	7.84	7.79	7.87	7.78	7.94	7.77	7.83	7.86	7.82
Turbidity (NTU)	5.60	4.80	5.10	5.30	6.30	6.10	5.49	-		Turbidity (NTU)	6.30	6.20	6.40	6.70	6.00	5.90	6.21	-	
SS (mg/L)	6.0	10.0	7.0	6.0	7.0	7.0	7.17	-		SS (mg/L)	7.0	7.0	9.0	9.0	7.0	13.0	8.67	-	
Remarks										Remarks									

Annex 6 - Water Quality Results at Airport during mid-flood tide for 26 January 2008

Sampling Date	01/26/08
Weather & Ambient Temperature	Sunny, 11C

Mid-Flood

Station			C	3			1			Station			ι	12			1		
Time (hh:mm)			08:38	-08:48						Time (hh:mm)			09:23	-09:26					
Water Depth (m)			11	.40						Water Depth (m)			8.	80					
Monitoring Depth (m)	1.	10	6.	00	10	.10				Monitoring Depth (m)	1.	00	4.	10	6.	.90			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.3	17.2	17.3	17.3	17.2	17.3	17.24	-		Water Temperature (°C)	17.1	17.1	17.0	17.1	16.9	16.9	17.02	-	
Salinity (ppt)	32.0	31.9	32.0	32.0	32.0	32.0	31.97	-		Salinity (ppt)	31.6	31.6	31.6	31.6	31.6	31.6	31.63	-	
pH	7.8	7.9	7.8	7.9	7.8	7.8	7.82			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	96.1	95.9	95.5	96.1	96.9	97.8	96.36	-		D.O. Saturation (%)	96.0	95.3	96.6	95.6	99.1	95.7	96.40	-	
D.O. (mg/L)	7.62	7.61	7.57	7.62	7.69	7.75	7.64	7.72	7.61	D.O. (mg/L)	7.65	7.59	7.71	7.62	7.93	7.66	7.69	7.80	7.64
Turbidity (NTU)	11.40	11.10	27.50	22.10	30.00	27.00	21.51	-		Turbidity (NTU)	6.30	5.80	6.00	6.40	7.80	7.20	6.55	-	
SS (mg/L)	15.0	15.0	34.0	28.0	35.0	39.0	27.67	-		SS (mg/L)	7.0	8.0	9.0	7.0	8.0	10.0	8.17	-	
Remarks										Remarks									

Station			(24]			Station			S	R2					
Time (hh:mm)			09:41	-09:48						Time (hh:mm)			09:39	-09:49					
Water Depth (m)			9	.80						Water Depth (m)			4.	20					
Monitoring Depth (m)	1.	.20	4	.30	8.	10				Monitoring Depth (m)	1	.00			3.	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.1	17.1	17.1	17.1	17.1	17.2	17.14	-		Water Temperature (°C)	17.4	17.4			17.2	17.2	17.32	-	
Salinity (ppt)	31.7	31.7	31.7	31.7	31.7	31.8	31.74	-		Salinity (ppt)	31.4	31.4			31.6	31.6	31.49	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.89			рН	7.9	7.9			8.0	8.0	7.96		
D.O. Saturation (%)	97.1	95.8	96.2	96.7	97.8	98.8	97.06	-		D.O. Saturation (%)	92.8	88.0			93.0	92.3	91.50	-	
D.O. (mg/L)	7.73	7.63	7.65	7.69	7.79	7.86	7.73	7.83	7.68	D.O. (mg/L)	7.36	6.98			7.40	7.34	7.27	7.37	7.27
Turbidity (NTU)	9.00	5.80	12.30	7.60	20.70	14.30	11.62	-		Turbidity (NTU)	8.00	8.10			13.80	11.50	10.34	-	
SS (mg/L)	8.0	10.0	13.0	12.0	24.0	25.0	15.33	-		SS (mg/L)	10.0	9.0			22.0	19.0	15.00	-	
Remarks										Remarks									

Station	D2						1			Station	SR3					1			
Time (hh:mm)	09:31-09:35 7.90						Time (hh:mm) Water Depth (m)			09:06-09:11									
Water Depth (m)										Water Depth (m)			13						
Monitoring Depth (m)	1.00		4.10		7.00					Monitoring Depth (m)	0.80		6.20		11.00		1		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.89	-		Water Temperature (°C)	17.1	17.0			17.0	17.0	17.02	-	
Salinity (ppt)	31.7	31.7	31.7	31.7	31.7	31.6	31.65	-		Salinity (ppt)	31.7	31.7			31.7	31.7	31.72	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88			рН	7.9	7.9			7.9	7.9	7.89		
D.O. Saturation (%)	96.0	95.8	96.4	96.7	98.9	99.8	97.26	-		D.O. Saturation (%)	97.5	96.5			98.1	96.8	97.21	-	
D.O. (mg/L)	7.67	7.66	7.71	7.73	7.91	7.99	7.78	7.95	7.69	D.O. (mg/L)	7.77	7.70			7.83	7.72	7.76	7.78	7.74
Turbidity (NTU)	8.60	9.30	9.10	13.70	10.20	11.60	10.42	-		Turbidity (NTU)	8.20	16.60			10.40	12.80	11.99	-	
SS (mg/L)	12.0	16.0	14.0	17.0	13.0	19.0	15.17	-		SS (mg/L)	9.0	14.0			13.0	16.0	13.00	-	
Remarks										Remarks									

Station	G1						1			Station	SR4					1			
Time (hh:mm)	08:56-08:59 12:50						Time (hh:mm) Water Depth (m)			Time (hh:mm)	09:06-09:11								
Water Depth (m)										Water Depth (m)	13.60								
Monitoring Depth (m)	0.90		6.10		10.90					Monitoring Depth (m)	1.20		6.60		12.10				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.2	17.2	17.2	17.2	17.2	17.2	17.18	-		Water Temperature (°C)	17.1	17.1	17.1	17.2	17.2	17.2	17.14	-	
Salinity (ppt)	31.8	31.9	31.9	31.9	31.8	31.9	31.87	-		Salinity (ppt)	31.7	31.8	31.7	31.8	31.8	31.8	31.78	-	
рН	7.9	7.9	7.9	7.9	7.8	7.9	7.87			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	97.4	96.7	97.6	96.3	98.6	96.6	97.18	-		D.O. Saturation (%)	97.1	96.6	97.8	97.1	100.0	98.9	97.93	-	
D.O. (mg/L)	7.74	7.68	7.75	7.64	7.84	7.66	7.72	7.75	7.70	D.O. (mg/L)	7.73	7.69	7.78	7.72	7.95	7.87	7.79	7.91	7.73
Turbidity (NTU)	20.80	14.90	20.10	22.60	18.40	31.10	21.31	-		Turbidity (NTU)	6.10	6.60	6.10	13.00	10.30	11.30	8.89	-	
SS (mg/L)	22.0	25.0	26.0	21.0	21.0	26.0	23.50	-		SS (mg/L)	8.0	6.0	7.0	12.0	11.0	14.0	9.67	-	
Remarks										Remarks									