





Permanent Aviation Fuel Facility (EP-262/2007/B)

Twenty-Fourth Monthly Environmental Monitoring and Audit Report – October 2008

17 November 2008

Environmental Resources Management

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Permanent Aviation Fuel Facility for Hong Kong International Airport

Environmental Certification Sheet EP-262/2007/B

Reference Document/Plan

Document/Plan-to be Certified/ Verified:

24th Monthly EM&A Report - October 2008

Date of Report:

17 November 2008

Date prepared by ET:

17 November 2008

Date received by IEC:

17 November 2008

Reference EP Condition

Environmental Permit Condition:

Condition No.: 5.3

Content:

Environmental Monitoring and Audit (EM&A) for the Project

5.3 Four hard copies and one electronic copy of the monthly EM&A Report for the Project shall be submitted to the Director within 2 weeks after the end of the reporting month. The submissions shall be certified by the ET Leader and verified by the IEC before submission to the Director. Additional copies of the submission shall be provided upon request by the Director.

ET Certification

I hereby certify that the above referenced document/plan complies with the above referenced condition of EP-262/2007/B

Craig A Reid, Environmental

Team Leader:

Date:

17 November 2008

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-262/2007/B

Dr Guiyi Li, Independent Environmental Checker:

Date:

18 Nov 2008

Notes: EP-262/2007/B has replaced the former EP-262/2007/A, EP-262/2007 and EP-139-2002/A for the PAFF project after the resubmission of revised EM&A Manual and revised EIA Report respectively.

REPORT

Permanent Aviation Fuel Facility (EP-262/2007/B)

Twenty-Fourth Monthly Environmental Monitoring and Audit Report - October 2008

17 November 2008

Prepared by: Karen Lui/Clement Pang/Craig A Reid

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For and on behalf of

Environmental Resources Management

Approved by: Craig A Reid

Signed:

Position: Environmental Team Leader

Date: 17 November 2008

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CONTENTS

	EXECUTIVE SUMMARY	I
1	INTRODUCTION	1
1.1	PURPOSE OF THE REPORT	1
2	ENVIRONMENTAL STATUS	2
2.1	PROJECT AREA	2
2.2	ENVIRONMENTAL SENSITIVE RECEIVERS	2
2.3	MAJOR CONSTRUCTION ACTIVITIES	
2.4	MONITORING SCHEDULE OF THE REPORTING MONTH	2 2 3
2.5	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	3
2.6	COMMUNITY LIAISON GROUP MEETING	5
2.7	SUMMARY OF NON-COMPLIANCE WITH THE ENVIRONMENTAL QUALITY	
	PERFORMANCE LIMITS	5
2.8	SUMMARY OF ENVIRONMENTAL COMPLAINTS	5
2.9	SUMMARY OF ENVIRONMENTAL SUMMONS	5
3	ENVIRONMENTAL ISSUES AND ACTIONS	6
3.1	PREVIOUS ENVIRONMENTAL DEFICIENCIES AND FOLLOW-UP ACTIONS	6
3.2	IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS	s 8
4	ENVIRONMENTAL MONITORING	9
4.1	AIR AND NOISE	9
4.2	WATER QUALITY	9
4.3	POPs Monitoring	9
4.4	WASTE MANAGEMENT	9
4.5	Cultural Heritage	9
4.6	LANDSCAPE AND VISUAL	9
4.7	LAND CONTAMINATION, HAZARD TO LIFE AND FUEL SPILL RISK	10
4.8	ECOLOGY	10
4.9	EM&A MANUAL	10
4.10	BASELINE WATER QUALITY MONITORING	10
5	FUTURE KEY ISSUES	11
5.1	KEY ISSUES FOR THE NEXT ONE MONTH	11
5.2	IMPACT PREDICTION FOR THE NEXT ONE MONTH	11
5.3	WORKS AND MONITORING SCHEDIII E FOR THE NEVT ONE MONTH	11

LIST OF TABLES

Table 2.1	Summary of Works Undertaken During the Reporting Period
Table 2.2	Cumulative Quantity of Excavated Marine Sediments up to 31
	October 2008
Table 2.3	Summary of Environmental Licensing, Notification and Permit
	Status

LIST OF ANNEXES

Annex A	Project Location
Annex B	Water Quality Monitoring Stations, Water Quality and Ecological
	Sensitive Receivers
Annex C	Monitoring Schedule for the Reporting Period and Next Month
Annex D	Cumulative Complaints Statistics
Annex E	Implementation Programme of Mitigation Measures
Annex F	QA/QC Results of Laboratory Testing for Suspended Solids
Annex G	Impact Water Quality Monitoring Results
Annex H	Monitoring Results and QA/QC Reports of Laboratory Testing for
	POPs
Annex I	Dolphin Sighting Records

EXECUTIVE SUMMARY

The construction works for the Permanent Aviation Fuel Facility resumed on 9 July 2007. This **twenty-fourth** monthly Environmental Monitoring and Audit (EM&A) report presents the EM&A work carried out during the period from **1 October** to **31 October 2008** in accordance with the EM&A Manual.

Breaches of all Action and Limit Levels

No exceedance of depth-averaged Turbidity, depth-averaged Suspended Solids (SS) and depth-averaged Dissolved Oxygen (DO) was recorded during the monitoring month.

Complaint Log

No environmental complaints were received during the reporting period.

Notifications of any Summons and Successful Prosecutions

No environmental summon or prosecutions were received in this reporting period.

Reporting Changes

There were no reporting changes in the reporting period.

Future Key Issues

- Dust release and suppression;
- Operation of dredging activities; and
- Water quality monitoring and dolphin monitoring during the dredging activities.

1 INTRODUCTION

Leighton Contractors (Asia) Limited (LCAL) has appointed ERM-Hong Kong, Limited (ERM) as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Permanent Aviation Fuel Facility (the Project) during construction works.

The construction works for PAFF commenced in November 2005 based upon the previous EIA (*EIAO Register Number AEIAR-062-2002*) conducted and the Environmental Permit *EP-139/2002* granted on the 28th August 2002. Due to minor changes to the detailed layout of the site and the site boundary, application for Variation to the Environmental Permit (VEP) (*VEP-133/2004*) was submitted to the Director of Environmental Protection (DEP) for approval. The variation to the EP (*EP-139/2002/A*) was granted by the EPD in February 2004.

The decision by the EPD to grant the above Environmental Permit was, however, subject to a Judicial Review. The Judicial Review sided in the favour of the DEP, as did the subsequent Judgement from the Court of Appeal from the High Court for Judicial Review in March 2005. However, the DEP's decision to grant the EP was quashed by the Judgement of the Court of Final Appeal of July 2006.

The construction works were stopped following the Judgement of the Court of Final Appeal of July 2006. As such, in order to continue with the construction of the project, the project went through the statutory procedures under the EIAO again with a new design in order to obtain an environmental permit. The revised EIA was submitted in 2007 and the environmental permit (*EP-262/2007*) was granted in May 2007. *EP-262/2007* has been amended to *EP-262/2007/A* and issued by the EPD on 30 November 2007. A further Variation to the Environmental Permit has been approved to allow dredging works to continue until March 2008. As such, *EP-262/2007/A* has been amended to *EP-262/2007/B* and issued by the EPD on 27 February 2008.

The construction works and EM&A requirements were resumed on 9th July 2007 following the latest requirements of the *EP-262/2007/B* and *EM&A Manual*. Details regarding the EM&A requirements and changes should refer to the updated *EM&A Manual*. For the marine works, all piling activities were completed before the previous suspension of construction works in 2006.

1.1 PURPOSE OF THE REPORT

This is the **twenty-fourth** EM&A Report which summarizes the monitoring results and audit findings for the EM&A programme during the reporting period from **1 October** to **31 October** 2008.

2 ENVIRONMENTAL STATUS

2.1 PROJECT AREA

The project area is in Area 38 of Tuen Mun and the pipelines are located in Urmston Road between Tuen Mun Area 38 and Sha Chau. The site is illustrated in *Annex A*.

2.2 Environmental Sensitive Receivers

No air and noise sensitive receivers were identified close to the project area. However, water sensitive receivers and ecological sensitive receivers were identified in the EIA study, and are shown in *Annex B*.

2.3 MAJOR CONSTRUCTION ACTIVITIES

A summary of the major works undertaken in this reporting period is shown in *Table 2.1*. Dredging operation was suspended from 1 April to 31 August 2008 and resumed on 1 September 2008. *Table 2.2* presents the cumulative quantity of excavated materials up to 31 October 2008. Daily and cumulative dredging production rates are illustrated in *Figure 2.1*.

Table 2.1 Summary of Works Undertaken During the Reporting Period

Area	Works undertaken
Tuen Mun Area 38	Tank Farm, Roof Truss and Bund Wall Construction
	Permanent Drainage Construction
	Operational & Fire Services Buildings Construction
	Jetty Works (Non-piling)
Submarine Pipeline Route	Dredging Operations

Table 2.2 Cumulative Quantity of Excavated Marine Sediments up to 31 October 2008

Type of Excavated Materials	Cumulative Bulk Volume (m³)
From 17 December 2007 to 31 March 2008	
Contaminated Mud	105,974
Uncontaminated Mud	97,815
From 1 September to 31 October 2008	
Contaminated Mud	0
Uncontaminated Mud	37,217

2.4 MONITORING SCHEDULE OF THE REPORTING MONTH

Daily water quality monitoring during dredging activities recommenced on 1 September 2008. The monitoring schedule for October 2008 is presented in *Annex C*.

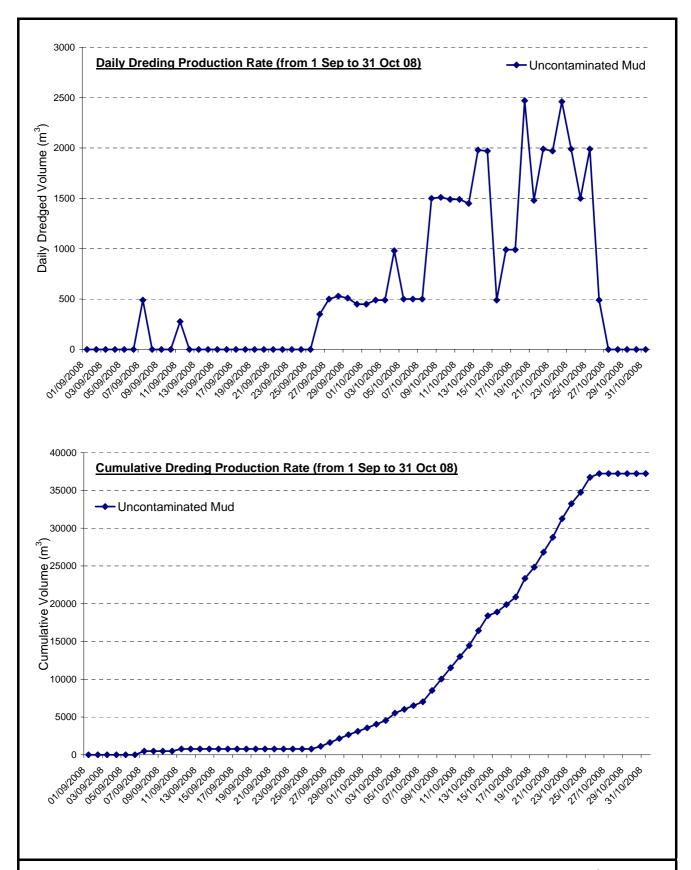


Figure 2.1 Daily and cumulative volumes (m³) of excavated materials from 1 September to 31 October 2008. Excavated materials contained uncontaminated mud only.



Ref: 0018105_Figure 2.1_dredging volume.doc

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since July 2007 is presented in *Table* **2.3**.

Table 2.3 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Environmental Permit	EP-262/2007/B	Throughout Project	Issued on 27 February 2008 (<i>EP-262/2007/A</i> on 30 November 2007, <i>EP-262/2007</i> issued on 31 May 2007, <i>EP-139/2002</i> originally granted on 28 August 2002 and <i>EP-139/2002/A</i> granted on 24 February 2004 were superseded)
Chemical Waste Producer Registration	WPN 5111-421-L2174- 25	Throughout Project	Issued on 10 November 2005
Notification of Construction Works under Air Pollution Control (Construction Dust) Regulation	H2104/U1D/5542/DG/ DH/PL	Throughout Project	Notification on 6 July 2007
Construction Noise Permit	GW-RW0676-07	21 December 2007 to 19 June 2008	For land-based works including air compressors, breakers, excavators, wheeled loaders, mobile cranes, concrete lorry mixers, hand-held pokers, bar benders/cutters, wood saws, grinders, submarine water pump, lorries with crane, dump trucks, rollers, ventilation fans and generators
	GW-RW0677-07	21 December 2007 to 29 February 2008	For marine dredging operation including grab dredger, tug boat, split hopper barge and motor sampan
	GW-RW0678-07	21 December 2007 to 18 June 2008	For marine jetty works including concrete pump derrick barges, hand-held grinders, generators, air compressors, boring machines, water pumps, tug boat, grout mixers and grout pumps

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Notification	GW-RW0094-08	1 March to 31 March 2008	For marine dredging operation including grab dredger, tug boat, split hopper barge and motor sampan
	GW-RW0312-08	04 July 2008 to 22 December 2008	For marine jetty works including concrete pump derrick barges, hand-held grinders, generators, air compressors, boring machines, water pumps, tug boat, grout mixers and grout pumps
	GW-RW0313-08	04 July 2008 to 19 December 2008	For land-based works including air compressors, breakers, excavators, wheeled loaders, mobile cranes, concrete lorry mixers, hand-held pokers, bar benders/cutters, wood saws, grinders, submarine water pump, lorries with crane, dump trucks, rollers, ventilation fans and generators
	GW-RW0373-08	1 August 2008 to 20 January 2009	For land-based works including air compressors, breakers, excavators, wheeled loaders, mobile cranes, concrete lorry mixers, hand-held pokers, bar benders/cutters, wood saws, grinders, submarine water pump, lorries with crane, dump trucks, rollers, ventilation fans, generators, stirrer, jet chisel, water jet machine and dehumidifier
	GW-RW0368-08	1 September to 30 November 2008	For marine dredging operation including grab dredger, tug boat, split hopper barge and motor sampan
Marine Dumping Permit	EP/MD/08-064	13 December 2007 to 29 February 2008	For Type 1 – Open Sea Disposal
	EP/MD/08-065	13 December 2007 to 12 January 2008	For Type 1d & Type 2 marine disposal
	EP/MD/08-071	13 January 2008 to 12 February 2008	For Type 1d & Type 2 marine disposal
	EP/MD/08-090	3 March to 31 March 2008	For Type 1d & Type 2 marine disposal

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
	EP/MD/08-091	3 March to 31 March 2008	For Type 1 – Open Sea Disposal
	EP/MD/09-018	1 September to 30 September 2008	For Type 1d & Type 2 marine disposal
	EP/MD/09-032	1 October to 31 October 2008	For Type 1d & Type 2 marine disposal
	EP/MD/09-017	1 September to 30 November 2008	For Type 1 – Open Sea Disposal
Wastewater Discharge License	EP760/421/011399/l	15 March 2006 to 31 March 2011	Issued on 15 March 2006

2.6 COMMUNITY LIAISON GROUP MEETING

According to the EP requirements, a Community Liaison Group (CLG) shall be established within three months after commencement of construction of the Project. The major duty of the CLG is to advise on and monitor the proper design, construction and operation of the Project. The CLG comprises representatives from Airport Authority, members of Tuen Mun community and academics.

The details of the CLG (including Membership and its Terms of Reference) can be found on the Project website (http://www.paffhk.com).

2.7 SUMMARY OF NON-COMPLIANCE WITH THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

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

2.8 SUMMARY OF ENVIRONMENTAL COMPLAINTS

No environmental complaints were received during the reporting period. A summary of environmental complaints since project commencement is presented in *Annex D*.

2.9 SUMMARY OF ENVIRONMENTAL SUMMONS

No summons was received in this reporting period. A summary of legal proceeding since project commencement is presented in *Annex D*.

3 ENVIRONMENTAL ISSUES AND ACTIONS

3.1 Previous Environmental Deficiencies and Follow-up Actions

As no environmental complaint was received over the last reporting period, no follow-up action was required.

Weekly site inspections were carried out by the ET on 2, 10, 15, 24 and 30 October 2008. Overall, the site was in good orderly manner and no noncompliances were found. Environmental deficiencies and follow-up actions/mitigation measures were identified during the inspections, as follows:

Air Quality

- Water tankers were used regularly to wet the road surface to minimize dust emission.
- Site entrance was paved and wheel-washing facility was provided to avoid dust deposit on the public road.
- Main access road within the site (between site office and exit) was paved to avoid dust emission. Other sections of the major access road in the construction area were paved with stones.
- On 24 October 2008, open sand piles were observed outside the operation building. On 30 October 2008, open sand and soil piles were observed near the tank farms and surcharge area. The Contractor was reminded to cover open piles with impervious sheets in non-working hours.

Noise

- No noisy activities that generated excessive noise were observed during the audit.
- All air compressors inspected on site were operated with a valid noise label.

Water Quality

- Site toilets were provided on site. A soil soakaway system with holding tanks was installed to treat the sewage from the toilets. No effluent discharge out of the site was observed during the audits.
- During the site inspection on 2 October 2008, silt curtains were not properly installed in the dredging area. The Contactor was recommended to ensure silt curtains were properly installed prior to all dredging activities.

- During the site inspections on 15 October 2008, sediment plumes were observed in the water at the discharge outlet near the operation building. The Contractor was recommended to check the efficiency of sedimentation facilities and to review the effluent discharge arrangements in the tank farm area.
- During the site inspections on 24 October 2008, oil sheen was observed on the edge of the dredging barge deck. A hose nearby was observed to be leaking, and part of the oil sheen was flushed onto the sea surface. The Contractor was recommended to arrange clearance of the oil sheen as soon as possible.
- During the site inspection on 30 October 2008, the oil interceptor and the
 car washing facility was observed to be filled with sediments. The
 Contractor was recommended to clear the sediments in the respective
 facilities as soon as possible.

Waste Management

- During the site inspection on 2 and 9 October 2008, chemical wastes were stored on the deck of the barge without spillage preventive measures.
 On 15 October 2008, the chemical waste storage area on the dredging barge was observed to be full. Drums of chemical wastes were placed on the deck of the dredging barge without spillage preventive measures. The Contractor was recommended to store chemical wastes in bunded areas to avoid potential spillages and arranged collection as soon as the storage area is full.
- During the site inspection on 15 October 2008, it was observed that wastes
 were piled up on ground next to the operation building without refuse
 bin. The Contractor was recommended to replace refuse bin for
 temporary storage of general refuse as soon as possible.
- During the site inspection on 2 and 10 October 2008, oil was observed on the floor behind the workshop. On 24 October 2008, oil stains were observed on the ground under a pile of unused oil hose outside the operation building. The Contractor was recommended to clear all oil stains as soon as possible.
- During the site inspection on 2 October 2008, waste drums in the chemical waste storage were not labelled. On 15 October 2008, chemical waste drums on the dredging barge were not labelled. The Contractor was recommended to label the containers with proper stickers with reference to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes under the Waste Disposal Ordinance (Cap. 354).
- During the site inspection on 2 and 10 October 2008, machinery inside the workshop was placed on the floor without drip trays. The Contractor was recommended to provide drip trays for the temporary storage of oily machines in works area.

• On 2 October 2008, water was observed in the chemical waste storage. The Contractor was recommended to clear the water from the storage and dispose the collected wastewater properly.

Landscape and Visual

- The transplanted trees at the new site were in good and healthy condition; and,
- The berm was habilitated by vegetation.

With the exception of the above observations, the site was in a good orderly manner. The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

3.2 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The implementation status of environmental mitigation measures and requirements as stated in the *EIA Report, Environmental Permits* and *EM&A Manual* during the reporting period is summarized in *Annex E*.

4 ENVIRONMENTAL MONITORING

4.1 AIR AND NOISE

Air and Noise monitoring is not required for the project.

4.2 WATER QUALITY

In accordance to the EM&A Manual, water quality monitoring recommenced on 1 September 2008 alongside dredging activities. QA/QC reports for suspended solids testing are presented in *Annex F*. Monitoring data and graphical presentations of the results are included in *Annex G*.

Results of the monitoring demonstrated that all measured turbidity, dissolved oxygen (DO) and suspended solids (SS) levels of all Impact Stations were compliant with the Action and Limit (AL) Levels specified in the *EM&A Manual*.

4.3 POPS MONITORING

Biweekly monitoring of POPs in water samples was conducted on 8 and 22 October for POPs analysis. At the time of this report, results were available for total PCBs, total DDTs and total PAHs on 8 October. All POPs parameters were below detection limits. Monitoring results and QA/QC reports for POPs testing are presented in *Annex H*.

4.4 WASTE MANAGEMENT

The Contractor's revised Waste Management Plan (Revision 4) (WMP) was submitted to the EPD on 20 September 2007. Pursuant to EP *Condition 3.3,* the Contractor submitted the updated and revised WMP (Revision 5) to the ET. The revised WMP has been certified by the ET and IEC, and the revised WMP will be submitted to the EPD in the next reporting month.

4.5 CULTURAL HERITAGE

The *Watching Brief Report*, verified by the Independent Environmental Checker, was submitted to the EPD and AMO on 9 May 2008.

4.6 LANDSCAPE AND VISUAL

According to the *EIA report* and *EM&A Manual*, mitigation measures and site inspection are required during the landscaping/planting works. The berm/landscaping bund was habilitated by vegetation which was grown

during the project suspension period. The transplanted trees were in good and healthy condition.

The weekly site inspections included audits on landscape and visual issues to ensure that the site was in orderly acceptable manner.

4.7 LAND CONTAMINATION, HAZARD TO LIFE AND FUEL SPILL RISK

The ET and IEC verified updated design audit plan was submitted to the EPD on 7 November 2007.

Weekly site inspection covered the waste management aspects which included measures to prevent land contamination by chemical wastes.

4.8 ECOLOGY

Dolphin Visual Monitoring

In accordance with *EM&A Manual*, dolphin monitoring has been undertaken during dredging activities since 1 September 2008. During the reporting period, a total of 9 dolphin sightings were recorded. Appropriate action was taken in accordance with the *EM&A Manual*. The sighting locations and field records are presented in *Annex I*.

4.9 EM&A MANUAL

The *EM&A Manual* for the Project has been updated by the ET to include the detailed arrangements of setting up a Community Liaison Group, carrying out design audit, and monitoring of Persistent Organic Pollutants during construction of the Project. Further comments were received from the EPD on 22 January 2008. The ET will update the *EM&A Manual* which will be submitted to the EPD within the next reporting month.

4.10 BASELINE WATER QUALITY MONITORING

The *Final Baseline Monitoring Report* was submitted to the EPD on 20 February 2008 and placed under the EIAO register.

5 FUTURE KEY ISSUES

5.1 KEY ISSUES FOR THE NEXT ONE MONTH

It should be noted that dredging activities have been resumed from 1 September 2008. As such, the key issues to be considered in the next one month will be:

- Dust release and suppression;
- Operation of dredging activities; and,
- Water quality monitoring and dolphin monitoring during the dredging activities

5.2 IMPACT PREDICTION FOR THE NEXT ONE MONTH

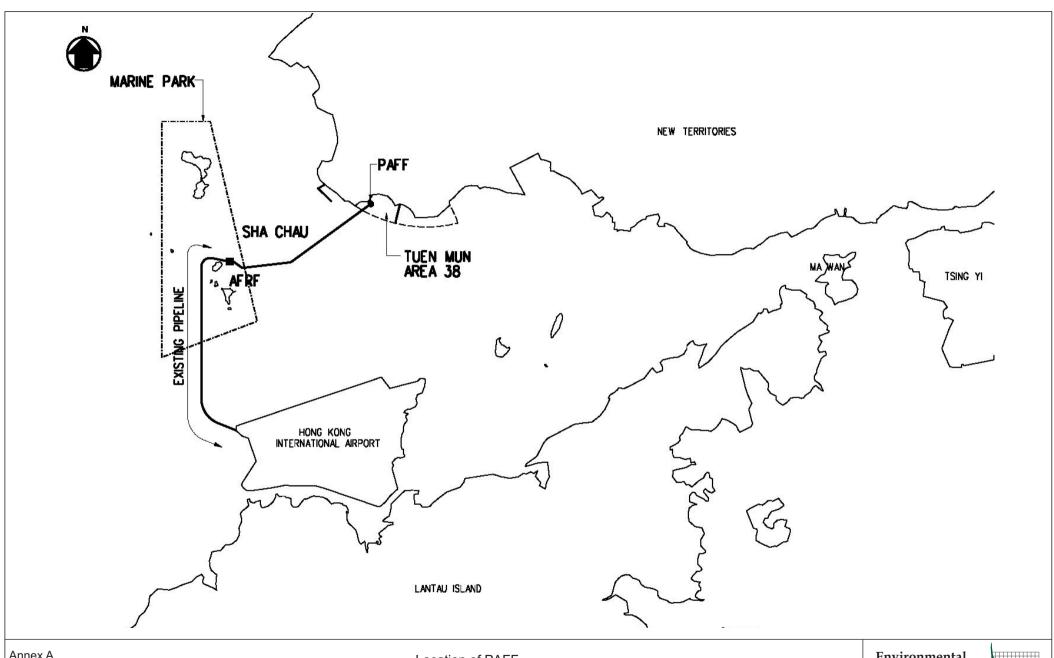
Provided that environmental mitigation measures including good on-site practises are properly implemented, it is not expected that unacceptable adverse impacts will arise.

5.3 WORKS AND MONITORING SCHEDULE FOR THE NEXT ONE MONTH

Work programme for the next one month includes jetty platform works (non-piling), site works (construction works for tank farm, operational and fire services buildings, pump platform, drainages, bund wall, security wall etc) and dredging operations. Weekly site inspections will be undertaken. Water quality and dolphin monitoring will be undertaken in accordance with the *EM&A Manual*.

Annex A

Project Location



Annex A

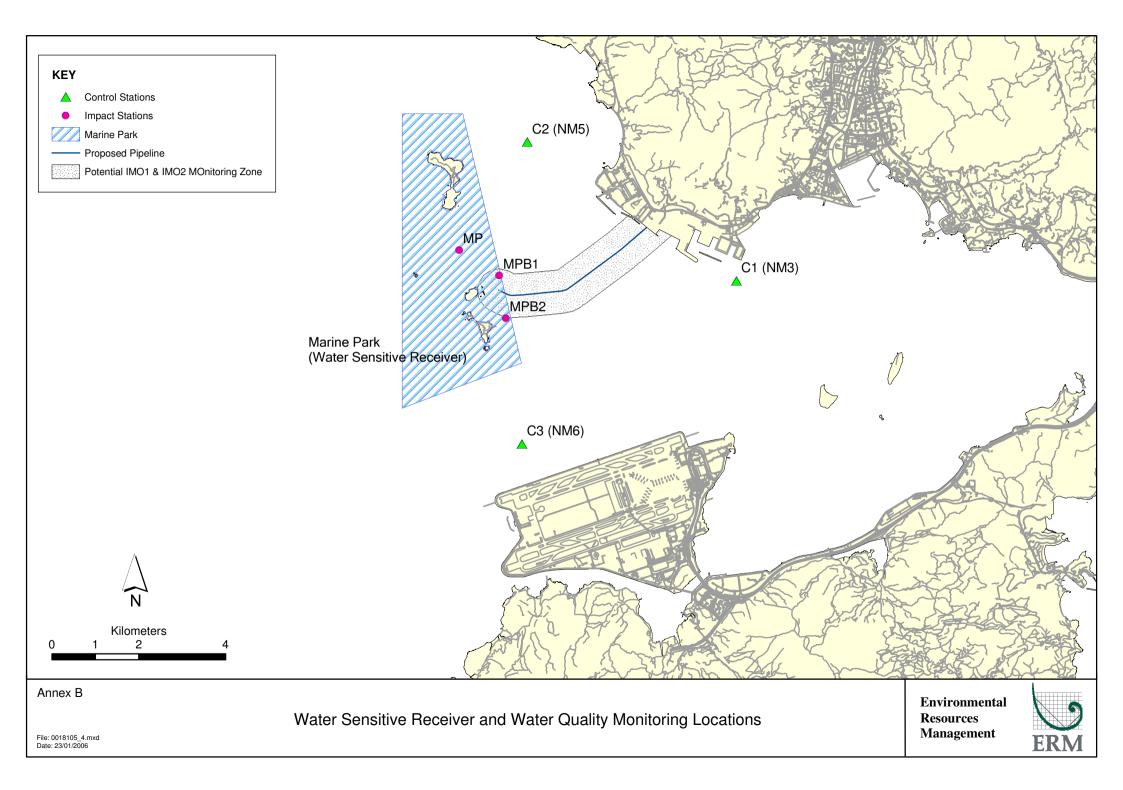
Location of PAFF

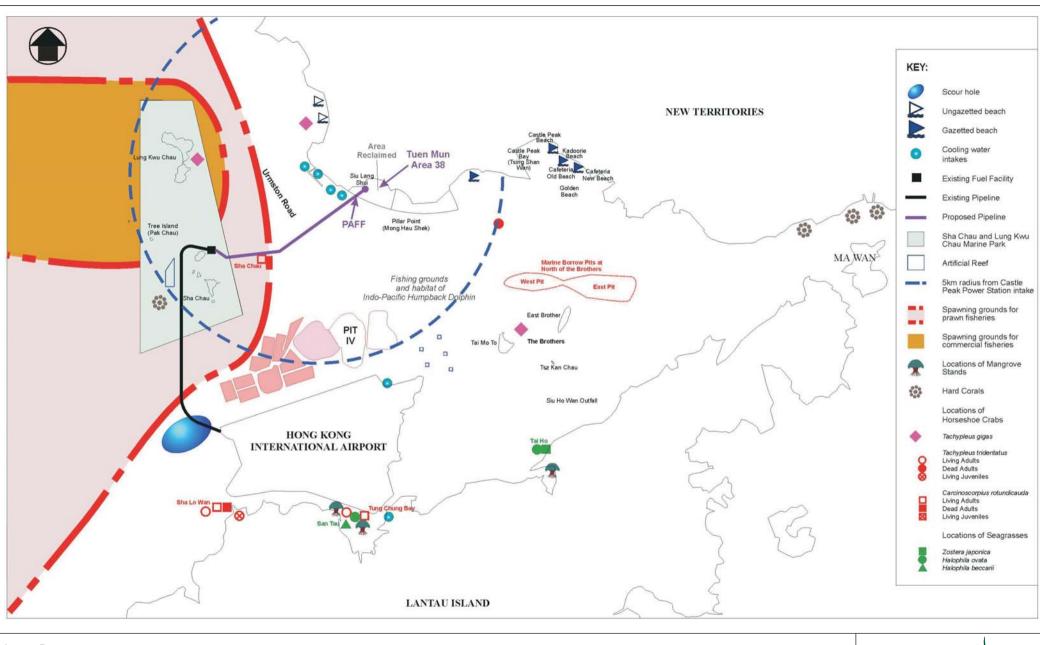
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Annex B

Water Quality Monitoring Stations, Water Quality and Ecological Sensitive Receivers





Annex B

FILE: C2475aa

DATE: 12/11/2007

Water Quality and Ecological Sensitive Receivers

(Soure: PAFF for Hong Kong International Airport EIA, Mouchel 2002)

Environmental Resources Management



Annex C

Monitoring Schedule for the Reporting Period and Next Month

PAFF
Tentative Impact Water Quality Monitoring Schedule for October 2008

Sund	lay	Mond	ay	Tues	day	Wedne	sday	Thurs	day	Frid	ay	Satur	day
							01-Oct		02-Oct		03-Oct		04-Oct
						Mid-Ebb	14:02	Mid-Flood	08:46	Mid-Flood	09:28	Mid-Flood	10:18
						Mid-Flood	19:48	Mid-Ebb	14:33	Mid-Ebb	15:04	Mid-Ebb	15:37
	05-Oct		06-Oct		07-Oct		08-Oct		09-Oct		10-Oct		11-Oct
						(POP sampl	ing)						
Mid-Ebb	11:22	Mid-Ebb	04:48	Mid-Ebb	05:44	Mid-Ebb	06:58	Mid-Flood	16:57	Mid-Ebb	09:24	Mid-Ebb	10:17
Mid-Flood	16:09	Mid-Flood	17:06	Mid-Flood	18:13	Mid-Flood	19:48	Mid-Ebb	22:16	Mid-Flood	17:05	Mid-Flood	17:24
	12-Oct		13-Oct		14-Oct		15-Oct		16-Oct		17-Oct		18-Oct
Mid-Ebb	11:02	Mid-Ebb	11:42	Mid-Ebb	12:21	Mid-Ebb	13:00	Mid-Ebb	13:40	Mid-Ebb	08:47	Mid-Flood	09:48
Mid-Flood	17:44	Mid-Flood	18:02	Mid-Flood	18:25	Mid-Flood	18:51	Mid-Flood	19:20	Mid-Flood	14:22	Mid-Ebb	15:09
	19-Oct		20-Oct		21-Oct		22-Oct		23-Oct		24-Oct		25-Oct
						(POP sampl	ing)						
Mid-Flood	10:54	Mid-Flood	12:08	Mid-Ebb	05:26	Mid-Ebb	06:41	Mid-Flood	16:02	Mid-Ebb	09:28	Mid-Ebb	10:24
Mid-Ebb	15:57	Mid-Ebb	16:41	Mid-Flood	18:04	Mid-Flood	19:44	Mid-Ebb	21:47	Mid-Flood	16:34	Mid-Flood	17:01
	26-Oct		27-Oct		28-Oct		29-Oct		30-Oct		31-Oct		
Mid-Ebb	11:10	Mid-Ebb	11:52	Mid-Ebb	12:30	Mid-Ebb	13:06	No WQ m	onitoring	No WQ m	onitoring		
Mid-Flood	17:25	Mid-Flood	17:49	Mid-Flood	18:12	Mid-Flood	18:36						

PAFF
Tentative Impact Water Quality Monitoring Schedule for November 2008

Sun	day	Mono	lay	Tues	day	Wedne	sday	Thurs	sday	Frid	ay	Satur	day
													01-Nov
												Mid-Flood	09:33
												Mid-Ebb	14:45
	02-Nov		03-Nov		04-Nov		05-Nov		06-Nov		07-Nov		08-Nov
Mid-Flood	10:19	Mid-Flood	11:13	Mid-Ebb	04:13	Mid-Ebb	04:42	Mid-Ebb	05:52	Mid-Ebb	15:25	Mid-Ebb	08:17
Mid-Ebb	15:15	Mid-Ebb	15:42	Mid-Flood	16:32	Mid-Flood	17:23	Mid-Flood	18:28	Mid-Flood	21:21	Mid-Flood	15:51
	09-Nov		10-Nov		11-Nov		12-Nov		13-Nov		14-Nov		15-Nov
						(POP samp	ling)						
Mid-Flood	09:20	Mid-Flood	10:15	Mid-Flood	11:05	Mid-Flood	11:51	Mid-Flood	12:37	Mid-Flood	13:25	Mid-Flood	14:13
Mid-Flood	16:15	Mid-Ebb	16:38	Mid-Ebb	17:04	Mid-Ebb	17:34	Mid-Ebb	18:07	Mid-Ebb	18:41	Mid-Ebb	19:18
	16-Nov		17-Nov		18-Nov		19-Nov		20-Nov		21-Nov		22-Nov
Mid-Flood	09:58	Mid-Flood	10:55	Mid-Flood	11:56	Mid-Flood	13:30	Mid-Flood	14:19	Mid-Flood	14:59	Mid-Ebb	08:47
Mid-Ebb	15:00	Mid-Ebb	15:49	Mid-Ebb	16:47	Mid-Ebb	18:29	Mid-Ebb	20:01	Mid-Ebb	21:10	Mid-Flood	15:34
	23-Nov		24-Nov		25-Nov		26-Nov		27-Nov		28-Nov		29-Nov
						(POP samp	ling)						
Mid-Ebb	09:47	Mid-Ebb	10:40	Mid-Ebb	11:28	Mid-Ebb	12:10	Mid-Ebb	12:46	Mid-Ebb	13:20	Mid-Ebb	13:52
Mid-Flood	16:04	Mid-Flood	16:32	Mid-Flood	16:58	Mid-Flood	17:23	Mid-Flood	17:50	Mid-Flood	18:32	Mid-Flood	18:45
	30-Nov								•				

Mid-Ebb 09:30 Mid-Flood 14:23

Annex D

Cumulative Complaints Statistics

Summary of Environmental Complaints

Reporting Period	Complaint Statistics					
_	Frequency	Cumulative	Complaint Nature			
Before construction	1	1	Dust			
works						
18/11/05 - 15/12/05	1	2	Dust			
15/12/05 - 14/01/06	0	2	Nil			
15/01/06 - 14/02/06	0	2	Nil			
15/02/06 - 14/03/06	0	2	Nil			
15/03/06 - 14/04/06	0	2	Nil			
15/04/06 - 14/05/06	0	2	Nil			
15/05/06 - 14/06/06	0	2	Nil			
15/06/06 - 14/07/06	0	2	Nil			
01/08/07 - 31/08/07 01/09/07 - 30/09/07	0	2	N1l Nil			
09/07/07 - 31/07/07	0	2	Nil			
01/08/07 - 31/08/07	0	2	Nil			
	•					
01/10/07 - 31/10/07	0	2	Nil			
01/11/07 - 30/11/07	0	2	Nil			
01/12/07 - 31/12/07	0	2	Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08	0	2 2	Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08	0 0 0	2 2 2	Nil Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08 01/03/08 - 31/03/08	0 0 0 0	2 2 2 2	Nil Nil Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08 01/03/08 - 31/03/08 01/04/08 - 30/04/08	0 0 0 0 0	2 2 2 2 2	Nil Nil Nil Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08 01/03/08 - 31/03/08 01/04/08 - 30/04/08 01/05/08 - 31/05/08	0 0 0 0	2 2 2 2 2 2 2	Nil Nil Nil Nil Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08 01/03/08 - 31/03/08 01/04/08 - 30/04/08 01/05/08 - 31/05/08 01/06/08 - 30/06/08	0 0 0 0 0	2 2 2 2 2 2 2 2	Nil Nil Nil Nil Nil Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08 01/03/08 - 31/03/08 01/04/08 - 30/04/08 01/05/08 - 31/05/08	0 0 0 0 0	2 2 2 2 2 2 2	Nil Nil Nil Nil Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08 01/03/08 - 31/03/08 01/04/08 - 30/04/08 01/05/08 - 31/05/08 01/06/08 - 30/06/08	0 0 0 0 0 0	2 2 2 2 2 2 2 2	Nil Nil Nil Nil Nil Nil Nil			
01/12/07 - 31/12/07 01/01/08 - 31/01/08 01/02/08 - 29/02/08 01/03/08 - 31/03/08 01/04/08 - 30/04/08 01/05/08 - 31/05/08 01/06/08 - 30/06/08 01/07/08 - 31/07/08	0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2	Nil Nil Nil Nil Nil Nil Nil			

Summary of Environmental Summons

Reporting Period	Environmental Summons						
	Frequency	Cumulative	Summon Nature				
18/11/05 - 15/12/05	0	0	Nil				
16/12/05 - 14/01/06	0	0	Nil				
15/01/06 - 14/02/06	0	0	Nil				
15/02/06 - 14/03/06	0	0	Nil				
15/03/06 - 14/04/06	0	0	Nil				
15/04/06 - 14/05/06	0	0	Nil				
15/05/06 - 14/06/06	0	0	Nil				
15/06/06 - 14/07/06	0	0	Nil				
09/07/07 - 31/07/07 01/08/07 - 31/08/07	0 0	0 0	Nil Nil				
Re-commencement of con	struction works on 9th	July 2007					
01/08/07 - 31/08/07							
01/09/07 - 30/09/07	0	0	Nil				
01/10/07 - 31/10/07	0	0	Nil				
01/11/07 - 30/11/07	0	0	Nil				
01/12/07 - 31/12/07	0	0	Nil				
01/01/08 - 31/01/08	0	0	Nil				
01/02/08 - 29/02/08	0	0	Nil				
01/03/08 - 31/03/08	0	0	Nil				
01/04/08 - 30/04/08	0	0	Nil				
01/05/08 - 31/05/08	0	0	Nil				
01/06/08 - 30/06/08	0	0	Nil				
01/07/08 - 31/07/08	0	0	Nil				
01/08/08 - 31/08/08	0	0	Nil				
01/09/08 - 30/09/08	0	0	Nil				
01/10/08 - 31/10/08	0	0	Nil				

Annex E

Implementation Programme of Mitigation Measures

ANNEX E IMPLEMENTATION SCHEDULE

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	In D	ementation chedule C O	Maintenance Agency	Implementation Status
Water Qua	lity				<u>.</u>				
6.7	6.8.1	There should be no access to the shore or working from land within the Marine Park. No marine anchors shall be used within the Marine Park.	Marine Park / Pipeline Dredging	Contractor	TMEIA		Y	N/A	On going
6.7	6.8.1	No hydraulic dredging within Marine Park.	Marine Park / Pipeline Dredging	Contractor	TMEIA		Y	N/A	Completed
6.7	6.8.1	Dredging for pipeline trench should be timed to coincide with maintenance dredging for Sha Chau AFRF marine access channel if relevant.	Sha Chau ARFR Marine access channel	Airport Authority	TMEIA		Y	N/A	On going
6.4		The work rate for dredging should not exceed 4,000 m ³ /hr for the TSHD and 7,000 m ³ /day for the grab dredger.	Marine Park / Pipeline Dredging	Contractor	TMEIA		Y	N/A	On going
6.7	6.8.1	Standard good dredging practice measures shall be written in the dredging contract.	Marine Park / Pipeline Dredging	Franchisee	TMEIA		Y	N/A	On going
6.7	6.8.1	Use of Lean Material Overboard (LMOB) systems shall be prohibited. No mud overflow is to be permitted for dredging using TSHD.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y	N/A	Not applicable
6.7	6.8.1	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y	N/A	On going
6.7	6.8.1	Barges and hopper dredgers shall have tight fittings seals to their bottom openings to prevent leakage of material.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y	N/A	On going

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	In	-		tation	Maintenance Agency	Implementation Status
Reference	Reference		Timing		Requirement	Schedule D C O	Agency	Status			
6.7	6.8.1	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions			Y		N/A	Not applicable
6.7	6.8.1	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions			Y		N/A	On going
6.7	6.8.1	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions			Y		N/A	On going
6.7	6.8.1	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions			Y		N/A	On going
6.7	6.8.1	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions			Y		N/A	On going
6.7	6.8.1	The works shall not cause foam, oil, grease, letter or other objectionable matter to be present in the water within and adjacent to the works site.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions			Y		N/A	Ongoing

EIA	EM&A Manual Reference	Environmental Protection Measures	Location/	Implementation	Relevant	In	-	nenta			Implementation Status
Reference			Timing	Agent	Standard or Requirement	D		i <mark>edule</mark> C	O	Agency	
6.7	6.8.1	Placement of pipeline trench backfill should be undertaken in a controlled manner to minimise impacts. Backfilling with rock should be undertaken either down pipe or by a reverse grab operation or other controlled technique to ensure that this material does not mound on the seabed	Pipeline trench/ Pipeline Dredging	Contractor	TMEIA Minimise disturbance	<u> </u>		Y	<u> </u>	N/A	Pending
6.7	6.8.1	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing
6.7	6.8.1	Sewage effluent and discharges from onsite kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		-	Y		N/A	Ongoing
6.7	6.8.1	Storm drainage should be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sandbag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing
6.7	6.8.1	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	In	-	eme ched	ntation ule	Maintenance Agency	Implementation Status
	Reference		o		Requirement	D		C	О	<i>8</i> 7	
6.7	6.8.1	Temporary access roads should be surfaced with crushed stone or gravel.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing
6.7	6.8.1	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing
6.7	6.8.1	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing
6.7	6.8.1	Open stockpiles of construction materials (e.g. aggregates and sand) o nsite should be covered with tarpaulin or similar fabric during rainstorms.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing
6.7	6.8.1	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing
6.7	6.8.1	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards			Y		N/A	Ongoing

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	In	-	mentation hedule	Maintenance Agency	Implementation Status
	Reference		· ·	Ü	Requirement	D		C O		
6.7	6.8.1	All vehicles and plant should be cleaned	Land site/	Contractor	TMEIA			Y	N/A	Ongoing
		before they leave the construction site to	Throughout		ProPECC Note					
		ensure that no earth, mud or debris is	construction		1/94. WPCO					
		deposited by them on roads. A wheel	period		TM on Effluent					
		washing bay should be provided at every site exit.			Standards					
6.7	6.8.1	Wheel wash overflow shall be directed to	•	Contractor	TMEIA			Y	N/A	Ongoing
		silt removal facilities before being	Throughout		ProPECC Note					
		discharged to the storm drain.	construction		1/94. WPCO					
			period		TM on Effluent					
					Standards					
6.7	6.8.1	The section of construction road between	•	Contractor	TMEIA			Y	N/A	Ongoing
		the wheel washing bay and the public	Throughout		ProPECC Note					
		road should be surfaced with crushed	construction		1/94. WPCO					
		stone or coarse gravel.	period		TM on Effluent					
				_	Standards					
6.7	6.8.1	Wastewater generated from concreting,	Throughout e construction period	TMEIA	Y	N/A	Ongoing			
		plastering, internal decoration, cleaning			ProPECC Note					
		work and other similar activities, shall be			1/94. WPCO					
		screened to remove large objects.			TM on Effluent					
		*****	T 1 /		Standards			3./	NT / A	
6.7	6.8.1	Vehicle and plant servicing areas, vehicle		Contractor	TMEIA		Y	N/A	Ongoing	
		wash bays and lubrication facilities shall	Throughout		ProPECC Note					
		be located under roofed areas. The	construction		1/94. WPCO					
		drainage in these covered areas shall be	period		TM on Effluent					
		connected to foul sewers via a petrol			Standards					
		interceptor in accordance with the								
		requirements of the WPCO or collected								
6.7	6.8.1	for off site disposal. The contractors shall prepare	Land site/	Contractor	TMEIA			V	NI / A	Ongoing
0.7	0.0.1	oil/chemical cleanup plan and ensure	Throughout	Contractor	ProPECC Note			Y	N/A	Ongoing
		that leakages or spillages are contained	construction		1/94. WPCO					
		and cleaned up immediately.	period		TM on Effluent					
		and cleaned up mimediatery.	periou		Standards					
					Januarus					

EIA Reference	EM&A Manual Reference 6.8.1	Environmental Protection Measures Waste oil should be collected and stored	Location/ Timing	Implementation Agent Contractor	Relevant Standard or	Implementation Schedule			Maintenance Agency	Implementation Status
			Land site/		Requirement TMEIA	D	Y		N/A	Ongoing
		for recycling or disposal, in accordance with the Waste Disposal Ordinance.	Throughout construction period		ProPECC Note 1/94. WPCO TM on Effluent Standards					
6.7	6.8.1	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Υ	,	N/A	Ongoing
6.7	6.8.1	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Υ	,	N/A	Ongoing
6.7	6.8.1	Wastewater from pipe commissioning dewatering exercises shall be stored on site and for chemical analysis and safe disposal in accordance with the WPCO.	Tank Farm/Tank farm commissioning	Franchisee	TMEIA WPCO TM on Effluent Standards		Υ	,	N/A	Ongoing
6.7	Section 6	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	Land site/ Throughout construction period	Contractor	EM&A Manual		Υ	,	N/A	Ongoing
6.7	Section 6	Submarine section of aviation fuel pipeline shall be covered with rock armour protection which shall not protrude above the level of the adjacent natural seabed.	Submarine pipeline	Franchisee	TMEIA Rock armour to minimum thickness of 1m	Y	Υ	,	Franchisee	On going
6.7	Section 6	Detailed emergency response procedures shall be drawn up. These will include requirements to maintain floating oil booms, absorbent materials and skimmers on site at all times.	All facilities	Franchisee	TMEIA Industry Standards e.g. Oil Companies International Marine Forum			Υ	Franchisee	Pending

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	In	-	ementa chedul		Maintenance Agency	Implementation Status
	Reference				Requirement	D		C	О		
6.7	Section 6	Coupling points on the jetty will be protected with slop collection utilities.	Jetty	Franchisee	TMEIA Rock armour to minimum thickness of 1m			Y		Franchisee	On going
6.7	Section 6	Auxiliary tanks shall be permanently maintained at the tank farm for recovered fuel and slops.	Tank farm	Franchisee	TMEIA				Y	Franchisee	Pending
6.7	Section 6	Oily drainage systems and slop collection systems will connect to an oil/water separator.	Tank farm	Franchisee	TMEIA Industry Standards e.g. Oil Companies International Marine Forum			Y		Franchisee	On going
6.7	Section 6	All tanks shall be bunded to a capacity of at least 150% of the largest individual tank in each compound by 2040. Tank pits shall be protected by an impermeable bed (e.g. geotextile sheeting) to prevent seepage of aviation fuel to ground. A leak detection system shall be installed beneath the containment membrane.	Tank farm	Franchisee	TMEIA Hong Kong Code of Practice for Oil Installations, 1992			Y		Franchisee	On going
6.7	Section 6	There shall be no direct outlet from the bund. A collection pump shall be included in the base. Removal of accumulated rainwater shall be activated manually and discharged to storm drain via an oil/water separator.	Tank farm	Franchisee	TMEIA			Y		Franchisee	On going
6.7	Section 6	Contingency procedures shall be drawn up to ensure containment and safe disposal of any fuel lost from tanks or pipework. Suitable absorbent materials (e.g. sand or earth) shall be kept on site to deal with spillages.	Tank farm	Franchisee	TMEIA Hong Kong Code of Practice for Oil Installations, 1992				Y	Franchisee	Pending
6.7	Section 6	Valves shall be installed within the storm drainage system to facilitate the retention of spillages.	Tank farm	Franchisee	TMEIA			Y		Franchisee	On going

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	In D	nplementat Schedule C		Maintenance Agency	Implementation Status
6.10	Section 6	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen.	Design monitoring stations as defined in EM&A Manual, section 6. Construction period when dredging takes place within 1000m of Marine Park and along entire length of the pipeline	Contractor	EM&A Manual		Y		N/A	Ongoing
6.10	Section 6	Routine water quality monitoring in the vicinity of the PAFF site to check the effectiveness of the proposed precautionary measures implemented for on-site spill control. The details of the monitoring to be undertaken will be prepared by the Franchisee as part of the PAFF Operations Manual and the details will be agreed with the relevant authorities within 3 months of the commencement of operation of the PAFF. Monitoring should include but not be limited to the parameters of TPH and PAH and reference should be made to the existing monitoring programme undertaken for the fuel tank farm on the HKIA platform.	Operational phase. Location and frequency to be determined and agreed with relevant	Franchisee	EM&A Manual			Y	N/A	Pending
Ecology 7.8	5.3	Undertake post construction dolphin abundance monitoring.	Construction	Contractor	TMEIA		Y		N/A	Pending

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	Im	plemen Schedi		Maintenance Agency	Implementation Status
	Reference		J	J	Requirement	D	C	О	3)	
7.8	5.3	A 250m dolphin exclusion zone shall be implemented and dredging shall not begin until the observer has confirmed that the area has been clear for 30 minutes.	250m around dredger/throug hout dredging in Marine Park and along the length of pipeline	Contractor	TMEIA		Y		N/A	Ongoing
7.8	5.3	Avoidance of dolphin main calving season between March and August.	Throughout dredging in Marine Park and along the length of the pipeline	Contractor	TMEIA		Y		N/A	Ongoing
Landscape	& Visual									
8.10	7.2.1	The construction programme for the PAFF should be reduced to the shortest possible period.	PAFF site / throughout construction period	Contractor	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	The extent and periphery of the works areas should be managed so that they are as small as possible and do not appear cluttered, untidy and unattractive, particularly to road traffic along Lung Mun Road.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing
8.10	7.2.1	Temporary hoarding barriers should be of a recessive visual appearance in both colour and form.	PAFF site / throughout construction period	Contractor	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Materials should be stored in areas with the least obstruction to residents, pedestrians and traffic.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	Im	plement Schedu		Maintenance Agency	Implementation Status
	Reference		_	-	Requirement	D	C	O		
8.10	7.2.1	All material stockpiles should be covered with an impermeable material and sandbagging diversions should be placed around exposed soil.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing
8.10	7.2.1	Conservation of existing and imported soil resources.	PAFF site / throughout construction period of fuel tank expansion	Contractor	TMEIA			Y	N/A	Ongoing
8.10	7.2.1	A landscape perimeter bund comprising containment bund-wall, access road and planting buffer shall be built and maintained around the tank farm.	PAFF site / throughout construction period	Project Proponent	TMEIA	Y	Y	Y	Franchisee	Ongoing
8.10	7.2.1	The design of the PAFF should incorporate materials, details and textures which are visually recessive.	PAFF site / design	Project Proponent	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Colours should be of low chromatic intensity to reduce the potential contrast between the structure and their background.	PAFF site tanks / design	Project Proponent	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Visually permeable security fencing should be used around the perimeter.	Site perimeter	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Minimum amount of lighting for the tanks shall be used, only applied for safety at the key access points and staircases.	Tanks / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Limited lighting intensity on the site.	PAFF site / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Directional down lighting is suggested to minimise light spill to the surrounding area.	-	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing

Cultural Heritage

EIA Reference	EM&A Manual	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or		plement Schedu		Maintenance Agency	Implementation Status
Reference	Reference		Timing	Agent	Requirement	D	C	0	Agency	Status
9.8.1	9.2.1	Undertake a watching brief during	Within vicinity	Franchisee	TMEIA		Y		N/A	Ongoing
		dredging of the pipeline within 25m	of SS1 and SS2							

Dredge operators to be made aware of the potential presence of cultural heritage material. The operators would be required to report to the AMO any unusual resistance and/or recovery of timbers, anchors or other wreck related material. Any obstacles encountered during the dredging that are of timber should be reported to the marine archaeologist. The obstacle should be avoided and not removed until it has been assessed by the marine archaeologist as to whether the obstacle is of cultural heritage importance;

either side of anomalies SS1 and SS2.

This should comprise:

 A marine archaeologist shall be on board the dredging barge during dredging within 25m either side of SS1 and SS2 in the event of any unusual resistance occurring or blockages which requires the dredge head to be bought on deck for cleaning and examination; and,

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or		Schedu	ıle	Maintenance Agency	Implementation Status
	Reference				Requirement	D	С	О		
		Dredging to cease in the nominated area SS1 after 3 meters of sediment removal and after 1 metre for SS2. A dive survey will then be undertaken to examine the trench for possible cultural remains.								
9.8.2	9.2.1	During the course of the watching brief, if the targets are identified as being potentially archaeologically important, then an immediate marine archaeological impact assessment in accordance with EIAO TM Annex 19 will be required to be undertaken by a qualified marine archaeologist.	With vicinity of SS1 and SS2	Franchisee	TMEIA		Y		N/A	Ongoing
9.8.4	9.2.1	Any changes, additions or alterations to the dredging method and alignment should be further assessed by marine archaeologist to determine if any further assessment is required.	Pipeline alignment	Franchisee	TMEIA		Y		N/A	Ongoing
Fuel Spill I	Risk	1								
11.4.1	10.2	Tank farms will be constructed in a bunded area surrounding the tanks which will have collection capacity of 150% of the maximum content of the largest tank.	Tank farm / Design Phase	Franchisee	TMEIA	Y			N/A	On going
11.4.1	10.2	Emergency shut down valves shall be installed within the wider site storm drainage system.	Tank farm / Design Phase	Franchisee	TMEIA	Y			N/A	On going
11.4.1	10.2	An impermeable membrane shall be installed in the tank foundation beneath the tank bottom.	Tank farm / Design Phase	Franchisee	TMEIA	Y			N/A	On going
11.4.1	10.2	Pipeline to be covered with a protective rock armour layer.	Pipelines/ Design Phase	Franchisee	TMEIA	Y			Franchisee	On going
11.4.1	10.2	An integrated leak detection system shall be installed to all pipelines to provide early detection of any leak.	0	Franchisee	TMEIA	Y			N/A	On going

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	plem	nentation	Maintenance	Implementation
Reference	Manual		Timing	Agent	Standard or		Sche	edule	Agency	Status
	Reference				Requirement	D	C	O		
11.4.1	10.2	An automatic shut-off system shall be implemented for pipelines.	Pipelines/ Design Phase	Franchisee	TMEIA	Y			N/A	On going
11.4.1	10.2	A workboat shall be on standby at the jetty during tanker berthing.	Jetty/ During Tanker Berth	Franchisee	TMEIA	Y		Y	N/A	Pending
11.4.1	10.2	Skimmers shall be available for quick deployment in case of a spill.	Jetty/ During Tanker Berth	Franchisee	TMEIA	Y		Y	N/A	Pending
11.4.1	10.2	An emergency response plan shall be prepared prior to the operation of the PAFF.	Jetty/ During Tanker Berth	Franchisee	TMEIA	Y		Y	N/A	Pending
11.4.1	10.2	Operator-training programme shall be implemented.	Jetty/ During Tanker Berth	Franchisee	TMEIA	Y		Y	N/A	Pending
11.6	10.4	During the planning of the later phase of the tank farm development, in order to ensure that the required mitigation measures are undertaken at that time, review the EIA report only if the latest technology, industrial standards and statutory requirements have changed by that time.	During planning stage for future tank construction	Franchisee	TMEIA			Υ	N/A	Pending

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	In	plement Schedu		Maintenance Agency	Implementation Status
Reference	Reference		1 mmig	Agent	Requirement	D	C	O	Agency	Status
11.6	10.4	Regular inspections and audits will be undertaken by the Franchisee during the operational phase of the facility:	Operation	Franchisee	TMEIA			Y	N/A	Pending
		Two inspections every year of the tank farm, jetty and pipelines including one undertaken pursuant to the Joint Inspection Group (JIG) explained above;								
		• Inspection of the whole sub sea pipelines every 5 to 10 years;								
		 Health, Safety and Environmental audit of the facility once every 3 years; and, 								
		• Inspection of the structural integrity of the tanks once per year.								
11.6	10.4	Prepare an Environmental Management Plan to ensure the on-going adequacy of the fuel spill contingency plan and that it is being implemented as required and that the above mitigation measures have been incorporated and are effective.	the PAFF with	Franchisee	TMEIA			Y	N/A	Pending
Land Conta	amination									
13.5.1	10.2	Bunding shall be provided by all fuel storage areas to at least 150% of largest individual tank in each compound.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going
13.5.1	10.2	Relevant design standards for storage tanks, pipework, containment and drainage shall be adhered to.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going
13.5.1	10.2	Plant inspections and maintenance shall be undertaken once per month.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.1	10.2	Impermeable lining shall be provided for all tank pits.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	_	olement Schedul		Maintenance Agency	Implementation Status
	Reference				Requirement	D	C	O		
13.5.1	10.2	Leak detection systems shall be provided to all valves.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going
13.5.1	10.2	Surface drainage shall be contained and treated prior to discharge.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.1	10.2	Emergency spill response plans shall be prepared.	Tank farm / Design	Franchisee	TMEIA	Y		Y	N/A	Pending
13.5.1	10.2	Spill control materials and equipment shall be provided on site.	Tank farm / Design	Franchisee	TMEIA	Y		Y	N/A	Pending
13.5.1	10.2	Runoff from the rood of site buildings and landscaped areas shall be conveyed in closed drains to the nearest storm water drain to prevent the generation of excessive quantities of surface water which may be polluted.	Tank farm / Design	Franchisee	TMEIA	Y		Y	N/A	On going
13.5.5	10.2	Suitable absorbent materials (e.g. sand or earth) shall be kept on site to deal with spills. Chemical dispersants shall not be employed.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	Pending
13.5.5	10.2	The facility shall be designed, constructed, operated and maintained in full accordance with the Code of Practice for Oil Installations, 1992.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	Tank pressure testing shall be carried out routinely to check for possible tank leaks. Product inventory monitoring shall be integrated into site management procedures to check for any abnormal or unexpected product loss.		Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	Tank overfill monitoring systems shall be installed and regularly tested. Inlet valves shall be designed to automatically shutdown on exceedance of "high-high level" to prevent over-filling.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	Pipe leakages shall be routinely checked for by means of a pressure sensitive leak detection system and routine inventory control.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Imp	lement	ation	Maintenance	Implementation
Reference	Manual		Timing	Agent	Standard or	9	Schedu	le	Agency	Status
	Reference				Requirement	D	C	O		
13.5.5	10.2	Drainage from areas of hardstanding	Tank farm /	Franchisee	TMEIA	Y	Y	Y	N/A	On going
		shall be treated by means of oil/water	Design							
		separators prior to discharge to storm								
		drain. All surface drainage shall be								
		fitted with closure valves to provided								
		additional containment and facilitate								
		clean up of any leaks.								
13.5.5	10.2	The delivery pipeline from the jetty and	Tank farm /	Franchisee	TMEIA	Y	Y		N/A	On going
		the supply line to the airport shall be	Design							
		fitted with pressure sensitive leak								
Marta Mara		detectors.								
Waste Man	U				TEN ATEL A		3/		NT / A	
14.7.2	8.3.1	The Contractor shall identify a coordinator for the management of	Contract mobilisation	Contractor	TMEIA		Y		N/A	Ongoing
		waste.	modifisation							
14.7.2	8.3.1	The waste coordinator shall prepare and	Contract	Contractor	TMEIA, Works		Y		N/A	Ongoing
14.7.2	0.3.1	implement a Waste Management Plan	mobilisation	Contractor	Branch		1		11/11	Origonig
		which specifies procedures such as	mobilisation		Technical					
		ticketing system, to facilitate tracking of			Circular No.					
		loads and to ensure that illegal disposal			5/99 for the					
		of waste does not occur, and protocols			Trip-ticket					
		for the maintenance of records of the			System for					
		quantities of wastes generated, recycled			Disposal of					
		and disposal.			Construction					
		-			and Demolition					
					Material					

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	-	nentat		Maintenance	Implementation
Reference	Manual Reference		Timing	Agent	Standard or Requirement	D		edule	O	Agency	Status
14.7.2	8.3.1	The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.			Y		N/A	Ongoing
14.7.2	8.3.1	No waste shall be burnt on site.	PAFF Site throughout construction period	Contractor	TMEIA		•	Ý		N/A	Ongoing
14.7.2	8.3.1	Excavated material shall be used on site for purposes of landscaping or formation of bund walls as far as possible.	All site / throughout construction period	Contractor	TMEIA		,	Y		N/A	Ongoing
14.7.2	8.3.1	All material shall be reused on site as far as practicable, including formwork plywood, topsoil and excavated material.	All site / throughout construction period	Contractor	TMEIA		,	Ý		N/A	Ongoing
14.7.2	8.3.1	Suitable provisions shall be included in the construction contract to ensure that the Contractor sorts and recycles waste.	Contract preparation stage	HyD	TMEIA	Y				N/A	Ongoing

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im			Maintenance	Implementation
Reference	Manual Reference		Timing	Agent	Standard or Requirement	D	hedule C	o	Agency	Status
14.7.2	8.3.1	Re-use and recycling of waste must always be considered first. Waste disposal shall only be undertaken in the last resort. Any surplus material generated shall be sorted on site into construction and demolition (C&D) waste and the public fill fraction. A sorting facility shall be set up on the site.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	The C&D waste shall be disposed of at a licensed landfill or deposited at an authorised waste transfer facility and the material suitable for public fill delivered to a public filling area, public filling barging point or public fill stockpile area after obtaining the appropriate licence.	CEDD pubic fill stockpile in Mui Wo, North Lantau or Mui Wo refuse	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Stockpile material shall avoid vegetated areas.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Stockpiles shall be covered by tarpaulin and/or watered as required.	All areas / throughout construction period, particularly during dry season	Contractor	TMEIA, Public Health and Municipal Services Ordinance (Cap 132) and the Public Cleansing and Prevention of Nuisances (Regional Council) By- laws		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	In D	-	emen chedu C	tation le O	Maintenance Agency	Implementation Status
14.7.2	8.3.1	Storage of material on site should be kept to a minimum.	All areas / throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances (Regional Council) By- laws			Y		N/A	Ongoing
14.7.2	8.3.1	Excavated material in trucks shall be covered by tarpaulins.	All areas, particularly at site exits / throughout construction period	Contractor	TMEIA, Reduce the potential for spillage and dust. Public Health and Municipal Services Ordinance (Cap 132) and the Public Cleansing and Prevention of Nuisances (Regional Council) By- laws			Y		N/A	Ongoing
14.7.2	8.3.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent the transfer of mud onto public roads.	Site entrances and exits/ throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances (Regional Council) By- laws			Y		N/A	Ongoing

EIA	EM&A	Environmental Protection Measures	Location/	Implementation		In	-	Maintenance	-
Reference	Manual Reference		Timing	Agent	Standard or Requirement	D	Schedule C O	Agency	Status
14.7.2	8.3.1	Suitable chemical waste storage areas should be formed at the works site for temporary storage pending collection.	Works site/ throughout construction period	Contractor	TMEIA, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. A Guide to the Chemical Waste Control Scheme		Y	N/A	Ongoing
14.7.2	8.3.1	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical waste treatment facility at Tsing Yi / throughout construction period		TMEIA, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. A Guide to the Chemical Waste Control Scheme		Y	N/A	Ongoing
14.7.2	8.3.1	Temporary storage areas for general refuse should be enclosed to avoid environmental impacts.	All areas/ throughout construction period	Contractor	TMEIA, Public Health and Municipal Services Ordinance		Y	N/A	Ongoing
14.7.2	8.3.1	Sufficient dustbins should be provided for storage of waste.	All areas/ throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances Ordinance (Regional Council) By- laws, Public Health and Municipal Services Ordinance		Y	N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	In D	nplementation Schedule C O	Maintenance Agency	Implementation Status
14.7.2	8.3.1	General refuse should be cleared daily and should be disposed of to the nearest licensed facility.	All areas, WENT landfill or NWNT refuse transfer stations/ throughout construction period	Contractor	TMEIA, Sanitation and Conservancy (Regional Council) By- laws		Y	N/A	Ongoing
14.7.2	8.3.1	Waste oils, chemicals or solvents shall not be disposed of to drain.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	Good site practice shall be implemented to avoid waste generation and promote waste minimisation.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		Ongoing
14.7.2	8.3.1	Waste materials such as paper, metal, timber and waste oil shall be recycled as far as practicable.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	Temporary structures used during construction shall be provided in the form of proprietary Protakabin type units sited on areas of permanent hard paving units as far as practicable.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Sea Ordinance.	PAFF site/ throughout construction period				Y	N/A	Ongoing
14.7.2	8.3.1	All waste containers shall be in good condition and fitted with lids or covers to prevent waste from escaping or the ingress of water.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	All waste containers shall be in a secure area on hardstanding.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	In D	nplementation Schedule C O	Maintenance Agency	Implementation Status
14.7.2	8.3.1	Emergency equipment to deal with any spillage or fire shall be kept on site.	PAFF site/ throughout construction period		TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	All containers used for storage of chemical waste shall be maintained in good condition and clearly labelled in both English and Chinese.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	All storage areas for chemical waste shall be:	•	Contractor	TMEIA		Y	N/A	Ongoing
		Clearly labelled;Enclosed on at least 3 sides;	period						
		 Have impermeable floor and bunding sufficient to fully retain any spillage or leakages; 							
		• Ventilated; and,							
		Covered to prevent rainfall from entering.							
14.7.2	8.3.1	All types of asbestos including sources (such as clutch linings) shall be treated as chemical waste. Asbestos containing wastes shall be kept separate from other wastes.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	All leaking containers shall be contained and removed from site an soon as is reasonably practicable.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing
14.7.2	8.3.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	PAFF site/ throughout construction period	Contractor	TMEIA		Y	N/A	Ongoing

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	Implementation		Maintenance	Implementation				
Reference	Manual		Timing	Agent	Standard or		Schedule		Schedule		Schedule		Agency	Status
	Reference				Requirement	D								
14.7.2	8.3.1	EM&A of waste handling, storage,	All areas/	Contractor	TMEIA		Y		N/A	Ongoing				
Section 5		transportation, disposal procedures and	throughout											
		documentation through the site audit	construction											
		programme shall be undertaken.	period											

Annex F

QA/QC Results for Laboratory Testing of Suspended Solids

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 01-OCT-2008

FACILITY

Order number : ---- Date of issue : 08-OCT-2008

C-O-C number : ---
No of samples - Received

O-C number : ---
No. of samples - Received : 74

te : ---
- Analysed : 74

Site : ---- - Analysed : ---

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0815259 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0815259: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories.

Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance'

of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

Client

: ERM HONG KONG

Work Order



Laboratory Duplicate (DUP) Report

HK0815259

Matrix: WATER					Labo	ratory Duplicate (DUP) I	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and	Aggregate Properties	s (QC Lot: 773919)						
HK0815259-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	10	11	0.0
HK0815259-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
EA/ED: Physical and	I Aggregate Properties	s (QC Lot: 773920)						
HK0815259-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	13	13	0.0
HK0815259-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	5	24.7
EA/ED: Physical and	I Aggregate Properties	s (QC Lot: 773921)						
HK0815259-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	7	8	20.5
HK0815259-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	8	6	21.5
EA/ED: Physical and	I Aggregate Properties	s (QC Lot: 773922)						
HK0815259-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
HK0815259-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	12	10	14.4

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QC	Lot: 773919)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115			
EA/ED: Physical and Aggregate Properties (QC	Lot: 773920)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115			
EA/ED: Physical and Aggregate Properties (QC	Lot: 773921)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115			
EA/ED: Physical and Aggregate Properties (QC	Lot: 773922)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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: EM&A FOR THE PERMANENT AVIATION FUEL

FACILITY

Order number : ----

C-O-C number : ----Site

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Date received

No. of samples

Page

Work Order

· 02-OCT-2008

HK0816029

: 1 of 5

08-OCT-2008 Date of issue

> Received Analysed

74 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816029 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816029:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0816029



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 775440)								
HK0816029-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
HK0816029-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 775441)								
HK0816029-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0		
HK0816029-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 775442)								
HK0816029-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0		
HK0816029-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 775443)								
HK0816029-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
HK0816029-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QC	CLot: 775440)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 775441)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.0		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 775442)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 775443)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Contact

: MS KAREN LUI

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FACILITY

Order number : ----

Address

C-O-C number : ----Site

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Quote number

E-mail

· 03-OCT-2008 Date received

Page

Work Order

: 1 of 5

HK0816034

09-OCT-2008 Date of issue No. of samples

Received Analysed

74

74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816034 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816034:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

. 3013

Client Work Order : ERM HONG KONG HK0816034



Laboratory Duplicate (DUP) Report

Matrix: WATER					Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776374)						
HK0816034-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0816034-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776375)						
HK0816034-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0
HK0816034-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	16.1
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776376)						
HK0816034-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
HK0816034-065	MPB2 B MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	18.4
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776377)						
HK0816034-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0816034-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit		
EA/ED: Physical and Aggregate Properties (Q	CLot: 776374)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115				
EA/ED: Physical and Aggregate Properties (Q	CLot: 776375)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115				
EA/ED: Physical and Aggregate Properties (Q	CLot: 776376)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	92.5		85	115				
EA/ED: Physical and Aggregate Properties (Q	CLot: 776377)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115				

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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Proiect : EM&A FOR THE PERMANENT AVIATION FUEL

FACILITY

Order number : ----

Address

C-O-C number : ----Site

Laboratory Contact

E-mail

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Date received

· 05-OCT-2008

HK0816037

: 1 of 5

Date of issue No. of samples

Page

Work Order

09-OCT-2008

Received

74 74

Analysed

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816037 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816037:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0816037



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776378)								
HK0816037-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0		
HK0816037-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776379)								
HK0816037-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	7	8	17.6		
HK0816037-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776380)								
HK0816037-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0		
HK0816037-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0		
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776381)								
HK0816037-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0		
HK0816037-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	9	13.2		

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (MI	B) Report		Laboratory Control S	Spike (LCS) and Labora	tory Control S	pike Duplica		
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties	(QCLot: 776378)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Properties	(QCLot: 776379)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	110		85	115		
EA/ED: Physical and Aggregate Properties	(QCLot: 776380)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115		
EA/ED: Physical and Aggregate Properties	(QCLot: 776381)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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: MS KAREN LUI

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Project : EM&A FOR THE PERMANENT AVIATION FUEL

FACILITY

Order number : ----

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Quote number : ----

Date received

Page

Work Order

: 05-OCT-2008

HK0816031

: 1 of 5

Date of issue
No. of samples

: **09-OCT-2008** - Received

:

74

74

Analysed :

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816031 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816031:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order HK0816031



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776370)										
HK0816031-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0				
HK0816031-015	MPB2 M ME	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776371)										
HK0816031-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	11	11	0.0				
HK0816031-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	13.2				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776372)										
HK0816031-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	13	12	11.5				
HK0816031-072	IMO1 B DUP MF	EA025: Suspended Solids (SS)		1	mg/L	12	10	12.9				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 776373)										
HK0816031-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	12	13.8				
HK0816031-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 776370)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 776371)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 776372)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 776373)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	113		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI : Wong Wai Man, Alice Work Order : LIKE

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0816035

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 06-OCT-2008

FACILITY

Order number : ---- Date of issue : 10-OCT-2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816035 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816035 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0816035



Laboratory Duplicate (DUP) Report

Matrix: WATER					Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779240)						
HK0816035-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	11	11	0.0
HK0816035-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779241)						
HK0816035-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	12	11	0.0
HK0816035-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779242)						
HK0816035-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	11	11	0.0
HK0816035-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	12	11	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779243)						
HK0816035-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0
HK0816035-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (MI	B) Report		Laboratory Control S	Spike (LCS) and Labora	tory Control S	pike Duplica	e Duplicate (DCS) Report		
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties	(QCLot: 779240)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			
EA/ED: Physical and Aggregate Properties	(QCLot: 779241)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.5		85	115			
EA/ED: Physical and Aggregate Properties	(QCLot: 779242)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115			
EA/ED: Physical and Aggregate Properties	(QCLot: 779243)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	105		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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FACILITY

Order number : ----

Contact

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Date of issue

Date received

Page

Work Order

· 10-OCT-2008

· 07-OCT-2008

: 1 of 5

HK0816038

No. of samples

Received Analysed

74

74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816038 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816038:

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

E-mail

Quote number

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Signatory

Position

Authorised results for:-

Fung Lim Chee, Richard

General Manager

: 5 of 5

Client : ERM HONG KONG

Work Order HK0816038



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779244)										
HK0816038-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	2	2	0.0				
HK0816038-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779245)										
HK0816038-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0				
HK0816038-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779246)										
HK0816038-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
HK0816038-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 779247)										
HK0816038-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0				
HK0816038-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCI	Lot: 779244)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.5		85	115		
EA/ED: Physical and Aggregate Properties (QCI	_ot: 779245)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Properties (QCI	_ot: 779246)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Properties (QCI	_ot: 779247)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	110		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0816459

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 08-OCT-2008

FACILITY

Order number : ---- Date of issue : 13-OCT-2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816459 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816459: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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Approval from ALS Technichem (HK) Pty Ltd.

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Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance'

of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

Client

: ERM HONG KONG

Work Order HK0816459



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and	Aggregate Properties (Q0	C Lot: 780432)									
HK0816459-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
HK0816459-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			
EA/ED: Physical and	Aggregate Properties (QC	C Lot: 780433)									
HK0816459-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
HK0816459-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0			
EA/ED: Physical and	Aggregate Properties (QC	C Lot: 780434)									
HK0816459-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	14	13	11.9			
HK0816459-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
EA/ED: Physical and	Aggregate Properties (QC	C Lot: 780435)									
HK0816459-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0			
HK0816459-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPDs	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCL	ot: 780432)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 780433)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	92.0		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 780434)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 780435)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0816464

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 09-OCT-2008

FACILITY

Order number : ---- Date of issue : 14-OCT-2008

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816464 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816464 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0816464



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 781864)										
HK0816464-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0				
HK0816464-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 781865)										
HK0816464-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
HK0816464-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 781866)										
HK0816464-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
HK0816464-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 781867)										
HK0816464-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0				
HK0816464-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (ME	3) Report		Laboratory Control S	pike (LCS) and Laborate	ory Control S	pike Duplica	te (DCS) Report	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCI	Lot: 781864)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 781865)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 781866)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 781867)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	105		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG

: MS KAREN LUI

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Proiect : EM&A FOR THE PERMANENT AVIATION FUEL

FACILITY

Order number : ----

Contact

Address

C-O-C number : ----Site

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Quote number

Date received

· 10-OCT-2008

HK0816460

Date of issue No. of samples

Page

Work Order

Amendment No.

· 16-OCT-2008

Received

: 1 of 5

: 1

74

74

Analysed

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816460 1.00 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816460:

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

Laboratory

E-mail

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Signatory

Position

Authorised results for:-

Fung Lim Chee, Richard

General Manager

: 5 of 5

Client : ERM HONG KONG

Work Order HK0816460, Amendment 1



Laboratory Duplicate (DUP) Report

Matrix: WATER			Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 782805)									
HK0816460-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0			
HK0816460-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 782806)									
HK0816460-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0			
HK0816460-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0			
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 782807)									
HK0816460-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0			
HK0816460-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 782808)									
HK0816460-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
HK0816460-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

			Method Blank (MB	2) Panart	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Matrix: WATER			Welliou Blank (WE	в) кероп		Laboratory Control Spine (200) and Laboratory Control Spine Duplicate (2003) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QC	CLot: 782805)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.0		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 782806)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 782807)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.0		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 782808)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	91.5		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

TAIKOO PLACE, ISLAND EAST,

QUARRY BAY, HONG KONG

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG

Laboratory

Contact : Wong Wai Man, Alice Page : 1 of 5 Work Order

Contact : MS KAREN LUI Address

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: EM&A FOR THE PERMANENT AVIATION FUEL

Quote number

Address

· 11-OCT-2008 Date received

FACILITY

+852 2271 3000

Date of issue

15-OCT-2008

HK0816032

Order number : ----

Received

C-O-C number

Proiect

Site

: ----

No. of samples

Analysed

74

74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816032 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816032:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order



Laboratory Duplicate (DUP) Report

HK0816032

Matrix: WATER					Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784071)						
HK0816032-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0
HK0816032-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784072)						
HK0816032-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0816032-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784073)						
HK0816032-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	14	14	0.0
HK0816032-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784074)						
HK0816032-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0
HK0816032-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	17.1

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 784071)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 784072)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 784073)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	91.5		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 784074)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	87.5		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI : Wong Wai Man, Alice Work Order : LIKE

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0816461

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 12-OCT-2008

FACILITY

Order number : ---- Date of issue : 15-OCT-2008

C-O-C number : ---- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816461 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816461: Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order HK0816461



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784075)										
HK0816461-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	17.8				
HK0816461-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784076)										
HK0816461-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	20.4				
HK0816461-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784077)										
HK0816461-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
HK0816461-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784078)										
HK0816461-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
HK0816461-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 784075)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115			
EA/ED: Physical and Aggregate Properties (QCLot: 784076)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115			
EA/ED: Physical and Aggregate Properties (QCLot: 784077)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	112		85	115			
EA/ED: Physical and Aggregate Properties (QCLot: 784078)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	109		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 13-OCT-2008

FACILITY

Order number : ---- Date of issue : 16-OCT-2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816462 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816462 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

Client

: ERM HONG KONG

Work Order HK0816462



Laboratory Duplicate (DUP) Report

Matrix: WATER					Labo	ratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784079)						
HK0816462-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
HK0816462-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784080)						
HK0816462-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
HK0816462-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784081)						
HK0816462-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0816462-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	9	10	10.7
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 784082)						
HK0816462-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
HK0816462-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (ME	3) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPDs	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCL	_ot: 784079)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Properties (QCL	_ot: 784080)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Properties (QCL	_ot: 784081)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	103		85	115		
EA/ED: Physical and Aggregate Properties (QCL	_ot: 784082)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	112		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI : Wong Wai Man, Alice Work Order : LIKE

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0816463

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 14-OCT-2008

FACILITY

Order number : ---- Date of issue : 17-OCT-2008

C-O-C number : ---- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816463 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816463: Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order HK0816463



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 786117)										
HK0816463-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0				
HK0816463-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 786118)										
HK0816463-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	12.3				
HK0816463-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 786119)										
HK0816463-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				
HK0816463-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 786120)										
HK0816463-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				
HK0816463-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	overy (%)	Recovery	Limits (%)	RPDs	s (%)
Method: Compound CAS	Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 78	36117)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	91.0		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 78	36118)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	111		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 78	36119)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 78	36120)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	110		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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Proiect : EM&A FOR THE PERMANENT AVIATION FUEL

FACILITY

Order number : ----

C-O-C number : ----

Site

Laboratory : ALS Technichem (HK) Pty Ltd

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Quote number

E-mail

15-OCT-2008 Date received

20-OCT-2008 Date of issue

Page

Work Order

No. of samples Received

: 1 of 5

HK0816030

Analysed

74

74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0816030 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0816030:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0816030





Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical an	d Aggregate Properties	(QC Lot: 787380)									
HK0816030-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0			
HK0816030-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	0.0			
EA/ED: Physical an	d Aggregate Properties	(QC Lot: 787381)									
HK0816030-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0			
HK0816030-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	10	22.8			
EA/ED: Physical an	d Aggregate Properties	(QC Lot: 787382)									
HK0816030-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0			
HK0816030-068	IMO1 S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	11	12	9.8			
EA/ED: Physical an	d Aggregate Properties	(QC Lot: 787383)									
HK0816030-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	11	10	0.0			
HK0816030-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties	(QCLot: 787380)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	91.5		85	115			
EA/ED: Physical and Aggregate Properties	(QCLot: 787381)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115			
EA/ED: Physical and Aggregate Properties	(QCLot: 787382)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115			
EA/ED: Physical and Aggregate Properties	(QCLot: 787383)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	92.5		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

: EM&A FOR THE PERMANENT AVIATION FUEL

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Contact

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FACILITY

Order number : ----

C-O-C number Site

: ----

Laboratory

E-mail

: ALS Technichem (HK) Pty Ltd : Wong Wai Man, Alice

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Date received

Page

Work Order

· 16-OCT-2008

HK0817214

: 1 of 5

Date of issue No. of samples 22-OCT-2008 Received

Analysed

74 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817214 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817214:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order



Laboratory Duplicate (DUP) Report

HK0817214

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 788446)										
HK0817214-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0				
HK0817214-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	8	14.1				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 788447)										
HK0817214-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0				
HK0817214-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 788448)										
HK0817214-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0				
HK0817214-068	IMO1 S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 788449)										
HK0817214-078	IMO2 B DUP MF	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0				
HK0817214-100	C3 (NM6) M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCI	Lot: 788446)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	103		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 788447)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 788448)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 788449)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0818168

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 17-OCT-2008

FACILITY

Order number : ---- Date of issue : 22-OCT-2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818168 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818168: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

Client : El

: ERM HONG KONG

Work Order



Laboratory Duplicate (DUP) Report

HK0818168

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and	Aggregate Properties (Q	C Lot: 792305)									
HK0818168-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	11.8			
HK0818168-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0			
EA/ED: Physical and	Aggregate Properties (Q	C Lot: 792306)									
HK0818168-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	12.0			
HK0818168-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0			
EA/ED: Physical and	Aggregate Properties (Q	C Lot: 792307)									
HK0818168-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0			
HK0818168-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0			
EA/ED: Physical and	Aggregate Properties (Q	C Lot: 792308)									
HK0818168-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	8	18.6			
HK0818168-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	10	11	13.4			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 792305)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 792306)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 792307)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 792308)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS

74

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 18-OCT-2008

FACILITY

Order number : ---- Date of issue : 22-OCT-2008

C-O-C number : ---- No. of samples - Received :

Site : --- - Analysed : 74

Report Comments

Address

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817245 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817245: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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Signatory Position Authorised results for:-

Page

Work Order

: 1 of 5

HK0817245

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

. 5015

: ERM HONG KONG

Work Order

Client

HK0817245



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789842)										
HK0817245-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0				
HK0817245-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	13.9				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789843)										
HK0817245-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	18.2				
HK0817245-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	12	12	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789844)										
HK0817245-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	8	6	17.4				
HK0817245-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789845)										
HK0817245-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	17	18	0.0				
HK0817245-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	22	22	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPI	Ds (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properti	es (QCLot: 789842)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			
EA/ED: Physical and Aggregate Properti	es (QCLot: 789843)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.0		85	115			
EA/ED: Physical and Aggregate Properti	es (QCLot: 789844)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115			
EA/ED: Physical and Aggregate Properti	es (QCLot: 789845)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	105		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Contact

: MS KAREN LUI

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Order number : ----

C-O-C number Site

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· 19-OCT-2008 Date received

Page

Work Order

· 22-OCT-2008 Date of issue

No. of samples Received 74

: 1 of 5

HK0817252

74 Analysed

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817252 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817252:

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

Laboratory

E-mail

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Signatory Position Authorised results for:-

Fung Lim Chee, Richard **General Manager** Inorganics

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0817252

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)					
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789846)											
HK0817252-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0					
HK0817252-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	0.0					
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789847)											
HK0817252-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	13.5					
HK0817252-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	14	13	0.0					
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789848)											
HK0817252-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0					
HK0817252-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	7	6	20.3					
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 789849)											
HK0817252-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0					
HK0817252-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0					

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QC	CLot: 789846)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 789847)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 789848)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115			
EA/ED: Physical and Aggregate Properties (QC	CLot: 789849)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115			

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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FACILITY

Order number : ----C-O-C number : ----

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· 20-OCT-2008 Date received

Page

Work Order

23-OCT-2008 Date of issue

No. of samples Received 74 74

: 1 of 5

HK0817246

Analysed

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817246 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817246:

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

E-mail

Quote number

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Signatory Position Authorised results for:-

Fung Lim Chee, Richard

General Manager

: 5 of 5

Client : I

: ERM HONG KONG

Work Order



Laboratory Duplicate (DUP) Report

HK0817246

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 792044)										
HK0817246-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
HK0817246-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 792045)										
HK0817246-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
HK0817246-046	C2 (NM5) M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 792046)										
HK0817246-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
HK0817246-068	IMO1 S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	6	5	18.9				
EA/ED: Physical and	d Aggregate Properties (C	QC Lot: 792047)										
HK0817246-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0				
HK0817246-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCI	Lot: 792044)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 792045)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 792046)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 792047)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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FACILITY

Order number : ----

C-O-C number : ----

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Quote number

Date received

21-OCT-2008

: 1 of 5

HK0817247

Date of issue No. of samples

Page

Work Order

24-OCT-2008

Received Analysed 74 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817247 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817247:

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

E-mail

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Signatory

Position

Authorised results for:-

Fung Lim Chee, Richard

General Manager

: 5 of 5

Client : ERM HONG KONG

Work Order HK0817247



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 793157)										
HK0817247-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
HK0817247-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 793159)										
HK0817247-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
HK0817247-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 793160)										
HK0817247-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0				
HK0817247-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 793161)										
HK0817247-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	22.4				
HK0817247-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCL	_ot: 793157)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Properties (QCL	_ot: 793159)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Properties (QCL	_ot: 793160)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		
EA/ED: Physical and Aggregate Properties (QCL	_ot: 793161)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

: EM&A FOR THE PERMANENT AVIATION FUEL

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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Order number : ----C-O-C number

Site

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Date received

Page

Work Order

· 22-OCT-2008

HK0817249

: 1 of 5

Date of issue No. of samples 25-OCT-2008 Received Analysed

74

74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817249 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817249:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order HK0817249



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 794522)										
HK0817249-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
HK0817249-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 794523)										
HK0817249-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
HK0817249-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	18.6				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 794524)										
HK0817249-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0				
HK0817249-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 794525)										
HK0817249-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0				
HK0817249-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 794522)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 794523)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	88.0		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 794524)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 794525)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 23-OCT-2008

FACILITY

Order number : ---- Date of issue : 28-OCT-2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818069 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818069: Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0818069

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and	Aggregate Properties (QC	Lot: 795969)									
HK0818069-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0			
HK0818069-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
EA/ED: Physical and	Aggregate Properties (QC	Lot: 795970)									
HK0818069-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0			
HK0818069-046	C2 (NM5) M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0			
EA/ED: Physical and	Aggregate Properties (QC	Lot: 795971)									
HK0818069-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0			
HK0818069-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	22.5			
EA/ED: Physical and	Aggregate Properties (QC	Lot: 795972)									
HK0818069-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0			
HK0818069-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPDs	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCL	ot: 795969)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 795970)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 795971)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 795972)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Contact

: MS KAREN LUI

: 21/F, LINCOLN HOUSE, 979 KING'S ROAD,

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Facsimile Proiect

: EM&A FOR THE PERMANENT AVIATION FUEL

FACILITY

Order number : ----

C-O-C number : ----Site

Laboratory : ALS Technichem (HK) Pty Ltd

Contact : Wong Wai Man, Alice

Address : 11/F., Chung Shun Knitting Centre,

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Quote number

E-mail

Date received

Page

Work Order

· 24-OCT-2008

HK0818070

: 1 of 5

29-OCT-2008 Date of issue

No. of samples

Received Analysed

74

74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818070 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818070:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order



Laboratory Duplicate (DUP) Report

HK0818070

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 796433)										
HK0818070-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
HK0818070-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 796434)										
HK0818070-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
HK0818070-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 796435)										
HK0818070-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	21.4				
HK0818070-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
EA/ED: Physical and	d Aggregate Properties (QC Lot: 796436)										
HK0818070-102	C3 (NM6) B DUP MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
HK0818070-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 796433)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 796434)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	105		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 796435)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 796436)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG

Laboratory

: ALS Technichem (HK) Pty Ltd Contact : Wong Wai Man, Alice

Page : 1 of 5

Contact : MS KAREN LUI Address

: 21/F, LINCOLN HOUSE, 979 KING'S ROAD,

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HK0818072

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> 25-OCT-2008 Date received

FACILITY

+852 2271 3000

Date of issue

Work Order

29-OCT-2008

Order number : ----

Address

Quote number

No. of samples

Received

C-O-C number Site

: ----

Analysed

74 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818072 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818072:

Sample(s) were picked up from client by ALS Technichem (HK) staff 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

: 5 of 5

Client

: ERM HONG KONG

Work Order

HK0818072

Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 796491)										
HK0818072-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0				
HK0818072-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 796492)										
HK0818072-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0				
HK0818072-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 796493)										
HK0818072-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0				
HK0818072-069	IMO1 M MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 796494)										
HK0818072-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0				
HK0818072-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCL	ot: 796491)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	91.5		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 796492)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 796493)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Properties (QCL	ot: 796494)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0818073

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 26-OCT-2008

FACILITY

Order number : ---- Date of issue : 29-OCT-2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818073 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818073: Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

: 5 of 5

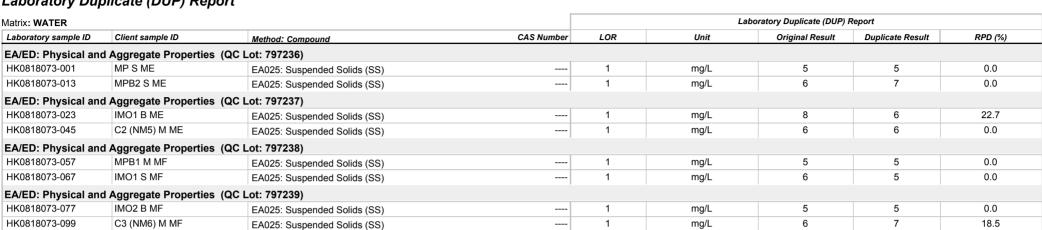
Client :

: ERM HONG KONG

Work Order

HK0818073





Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (MI	B) Report		Laboratory Control S	Spike (LCS) and Laborat	ory Control S	pike Duplica	te (DCS) Report	
					Spike	Spike Re	covery (%)	Recovery Limits (%)		RPDs (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties ((QCLot: 797236)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Properties ((QCLot: 797237)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Properties ((QCLot: 797238)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Properties ((QCLot: 797239)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG
Contact : MS KAREN LUI

: MS KAREN LUI

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Project : EM&A FOR THE PERMANENT AVIATION FUEL

FACILITY

Order number : ----

C-O-C number : ----Site : ----

Contact : Wong Wai Man, Alice

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Quote number : ----

Date received : 27-OCT-2008

Date of issue : 30-OCT-2008

No. of samples

Page

Work Order

Doggiyad

: 1 of 5

HK0818074

Received :
Analysed :

74

74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818074 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818074:

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

Laboratory

E-mail

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Signatory

Position

Authorised results for:-

Fung Lim Chee, Richard

General Manager

: 5 of 5

Client

: ERM HONG KONG

Work Order HK0818074



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 798338)										
HK0818074-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0				
HK0818074-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	7	8	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 798340)										
HK0818074-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0				
HK0818074-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 798341)										
HK0818074-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0				
HK0818074-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0				
EA/ED: Physical and	d Aggregate Properties	(QC Lot: 798342)										
HK0818074-078	IMO2 B DUP MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				
HK0818074-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0				

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 798338)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 798340)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	110		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 798341)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	89.0		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 798342)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

ALS Technichem (HK) Pty Ltd

ALS

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

FACILITY

CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 5

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice Work Order : HK0818075

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 28-OCT-2008

Order number : ---- Date of issue : 31-OCT-2008

C-O-C number : --- No. of samples - Received : 74

Site : --- - Analysed : 74

Report Comments

E-mail

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818075 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818075 : Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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Approval from ALS Technichem (HK) Pty Ltd.

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Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance'

of Hong Kong. Chapter 553. Section 6.

Signatory Position Authorised results for:-

Fung Lim Chee, Richard General Manager Inorganics

Page Number

: 5 of 5

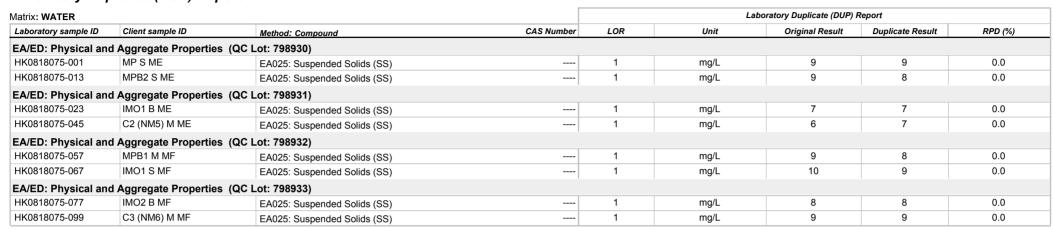
Client

: ERM HONG KONG

Work Order

HK0818075

Laboratory Duplicate (DUP) Report



Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (ME	3) Report		Laboratory Control S	pike (LCS) and Laborate	ory Control S	pike Duplica	te (DCS) Report	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 798930)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 798931)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	103		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 798932)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Properties (QCI	Lot: 798933)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

· ERM HONG KONG : ALS Technichem (HK) Pty Ltd Client Laboratory Page : 1 of 5

: MS KAREN LUI : Wong Wai Man, Alice Work Order Contact Contact HK0818076 Address : 21/F, LINCOLN HOUSE, 979 KING'S ROAD, Address : 11/F., Chung Shun Knitting Centre,

> TAIKOO PLACE, ISLAND EAST, 1 - 3 Wing Yip Street,

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : 29-OCT-2008 Date received

FACILITY

Date of issue : 03-NOV-2008 Order number

C-O-C number No. of samples Received 74

74 Analysed Site

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818076 supersedes any previous reports with this reference. The completion date of analysis is . 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.

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Specific comments for Work Order HK0818076:

Water sample(s) analysed and reported on an as received basis.

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of Hong Kong. Chapter 553. Section 6.

Position Authorised results for:-Signatory

General Manager Fung Lim Chee, Richard Inorganics Page Number

: 5 of 5

Client : ERM HONG KONG

Work Order HK0818076



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Client sample ID	Method: Compound	Compound CAS Number LOR Unit Original Result Duplicate Result								
EA/ED: Physical and	d Aggregate Properties (Q	C Lot: 800145)									
HK0818076-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	18.3			
HK0818076-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0			
EA/ED: Physical and	d Aggregate Properties (Q	C Lot: 800146)									
HK0818076-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0			
HK0818076-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
EA/ED: Physical and	d Aggregate Properties (Q	C Lot: 800147)									
HK0818076-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			
HK0818076-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0			
EA/ED: Physical and	d Aggregate Properties (Q	C Lot: 800148)									
HK0818076-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0			
HK0818076-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER		Method Blank (MB) Report				Laboratory Control S	pike (LCS) and Laborat	ory Control S	pike Duplica	te (DCS) Report	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	Os (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties	(QCLot: 800145)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Properties	(QCLot: 800146)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Properties	(QCLot: 800147)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Properties	(QCLot: 800148)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Sampling Date	01/10/2008
Weather & Ambient Temperature	Sunny, 30C

Station			C2 (NM5)			1					
Time (hh:mm)			14:57	-14:58								
Water Depth (m)		18.8										
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.6	27.6	27.5	27.4	27.3	27.4	27.48	-				
Salinity (ppt)	28.9	29.0	30.6	30.9	31.7	31.5	30.43	-				
pH	7.1	7.1	7.1	7.13								
D.O. Saturation (%)	82.3	83.2	82.5	81.37	-							
D.O. (mg/L)	5.5	5.6	5.2	5.4	5.4	5.5	5.43	5.43				
Turbidity (NTU)	3.9	4.0	5.2	4.8	5.7	5.5	4.85	-				
SS (mg/L)	5.0	4.0	6.0	6.0	4.0	5.0	5.00	1				
Remarks	No dredging works was observed.											

Station			IM	01			Co-ore	dinates			
Time (hh:mm)			14:12	-14:14			Northing	Easting			
Water Depth (m)		10.8 22.21.280 113.57									
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 1 Trial 2		Bottom			
							averaged				
Water Temperature (°C)	27.7	27.5	27.4	27.4	27.4	27.4	27.47	-			
Salinity (ppt)	27.8 28.4 30.5 30.4 30.7 30.8					29.78	-				
pH	7.0	7.0 7.0 7.1 7.1 7.1 7.1									
D.O. Saturation (%)	83.0	82.7	82.50	-							
D.O. (mg/L)	5.6	5.6	5.52	5.49							
Turbidity (NTU)	9.1	9.2	18.0	17.5	18.7	18.4	15.15	-			
SS (mg/L)	9.0	7.0	8.0	7.0	13.0	12.0	9.33	-			
Remarks	No dredging works was observed.										

Station			IM	02			Co-ord	dinates			
Time (hh:mm)			14:02	-14:04			Northing	Easting			
Water Depth (m)		13.8 22.21.268 113.55.438									
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2					Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.8	27.8	27.5	27.5	27.4	27.5	27.58	-			
Salinity (ppt)	27.7	27.8	29.70	-							
pH	7.1	7.1	7.2	7.2	7.2	7.2	7.13				
D.O. Saturation (%)	88.4	87.6	87.4	88.1	87.7	88.8	88.00	-			
D.O. (mg/L)	6.0	6.0 5.9 5.8 5.9 5.8 5.90 5.88									
Turbidity (NTU)	5.9	6.0	8.9	9.2	10.8	11.1	8.65	-			
SS (mg/L)	7.0	7.0	7.0	5.0	5.0	5.0	6.00	-			
Remarks	No dredging works was observed.										

Station			MF	PB1			1		
Time (hh:mm)			14:21	-14:23					
Water Depth (m)									
Monitoring Depth (m)	1	.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
				averaged					
Water Temperature (°C)	27.6	27.6	27.5	27.5	27.4	27.4	27.51	-	
Salinity (ppt)	27.3	27.5	28.30	-					
pH	7.0	7.0	7.0	7.0	7.0	7.0	6.98		
D.O. Saturation (%)	85.5	84.4	85.40	-					
D.O. (mg/L)	5.8	5.7	5.76	5.80					
Turbidity (NTU)	9.1	9.5	20.2	20.2	21.6	21.2	16.97	-	
SS (mg/L)	8.0	7.0	9.0	9.0	9.0	11.0	8.83	-	
Remarks		No dredging works was observed.							

Station			MF	PB2							
Time (hh:mm)			13:51	-13:52							
Water Depth (m)		8.8									
Monitoring Depth (m)	1	1.0 4.4 7.8									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.7	27.6	27.6	27.5	27.4	27.4	27.52	-			
Salinity (ppt)	26.5	26.5 26.6 27.2 28.4 28.6 30.5									
pH	6.9	6.9	6.9	6.9	6.9	7.0	6.91				
D.O. Saturation (%)	82.9	84.6	82.6	84.6	83.2	84.8	83.78	=			
D.O. (mg/L)	5.6	5.8	5.6	5.7	5.6	5.7	5.66	5.64			
Turbidity (NTU)	7.4	6.8	9.4	9.2	10.9	11.1	9.13	=			
SS (mg/L)	5.0	5.0	8.0	8.0	9.0	8.0	7.17	-			
Remarks	No dredging works was observed.										

Station			N	IP			1				
Time (hh:mm)			14:31	-14:32							
Water Depth (m)		5.6									
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2						Bottom			
Water Temperature (°C)	27.7	27.5	-	-	27.4	27.4	27.48	-			
Salinity (ppt)	27.8	28.3	29.10	-							
pH	7.0	7.0	-	-	7.0	7.0	6.98				
D.O. Saturation (%)	85.0	88.3	-	-	91.3	89.0	88.40	-			
D.O. (mg/L)	5.7	5.7 6.0 6.1 6.0 5.94 6.0									
Turbidity (NTU)	11.4	11.4 11.7 - 22.2 21.8									
SS (mg/L)	10.0	10.0	-	-	7.0	7.0	8.50	-			
Remarks		No dredging works was observed.									

Compliance with Action at	omphance with Action and Limit Level													
Parameter	As in	EM&A	C2*1	30%	IIV	IMO1		IMO2		MPB1	MF	PB2	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.4	5.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.4	5.4	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	6.3	6.3	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	6.5	6.5	N	N	N	N	N	N	N	N	N	N

Sampling Date	01/10/2008
Weather & Ambient Temperature	Fine, 29C

Station			C1 (NM3)						
Time (hh:mm)			19:57	-19:59						
Water Depth (m)			16	6.2						
Monitoring Depth (m)	1	.0	8							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.6	27.6	27.5	27.4	27.3	27.3	27.45	-		
Salinity (ppt)	28.9	28.9	30.4	30.6	31.3	31.3	30.22	-		
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.12			
D.O. Saturation (%)	84.1	85.9	81.4	80.7	81.9	82.8	82.80	-		
D.O. (mg/L)	5.6	5.8	5.4	5.4	5.4	5.5	5.52	5.47		
Turbidity (NTU)	3.9	4.1	3.9	4.3	4.2	4.1	4.08	-		
SS (mg/L)	3.0	4.0	6.0	5.0	4.0	6.0	4.67	-		
Remarks		No dredging works was observed.								

Station			C3 (NM6)							
Time (hh:mm)			19:42	-19:43							
Water Depth (m)			7								
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.6	27.4	27.3	27.3	27.3	27.3	27.34	-			
Salinity (ppt)	28.2	28.8	30.3	30.2	32.4	32.6	30.39	-			
pH	6.9	6.9	7.0	7.0	7.0	7.0	6.97				
D.O. Saturation (%)	89.9	88.8	89.3	90.4	90.4	91.3	90.02	-			
D.O. (mg/L)	6.1	6.0	6.0	6.0	6.0	6.0	6.01	6.00			
Turbidity (NTU)	7.3	7.1	9.7	9.3	12.8	12.5	9.78	-			
SS (mg/L)	4.0	6.0	12.0	10.0	8.0	8.0	8.00	-			
Remarks		No dredging works was observed.									

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			19:01	-19:03			Northing	Easting		
Water Depth (m)			11	1.0		22.21.282	113.57.078			
Monitoring Depth (m)	1	1.0 5.5 10.0								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.6	27.6	27.3	27.3	27.3	27.3	27.42	-		
Salinity (ppt)	27.7	27.8	30.4	30.4	30.8	30.6	29.63	-		
pH	7.0	7.0	7.1	7.1	7.1	7.1	7.06			
D.O. Saturation (%)	85.2	84.5	83.2	83.9	83.9	84.4	84.18	-		
D.O. (mg/L)	5.8	5.7	5.6	5.6	5.6	5.6	5.64	5.61		
Turbidity (NTU)	8.4	8.7	17.6	17.9	18.3	18.4	14.88	-		
SS (mg/L)	8.0 11.0 9.0 11.0 15.0 16.0 11.67							-		
Remarks		No dredging works was observed.								

Station			IM	02			Co-ordinate	s	
Time (hh:mm)			19:28	-19:30			Northing	Easting	
Water Depth (m)			14	4.1			22.21.271	113.55.437	
Monitoring Depth (m)	1	1.0 7.0 13.1							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.7	27.7	27.5	27.4	27.4	27.4	27.50	-	
Salinity (ppt)	27.8	27.7	30.3	7.2	31.2	31.3	29.81	-	
pH	7.1	7.1	7.2	7.2	7.2	7.2	7.15		
D.O. Saturation (%)	87.7	88.0	88.9	88.5	89.8	88.7	88.60	-	
D.O. (mg/L)	5.9	5.9	5.9	5.9	6.0	5.9	5.91	5.93	
Turbidity (NTU)	6.5	6.2	9.5	9.1	12.0	11.9	9.20	-	
SS (mg/L)	7.0	8.0	7.0	8.0	6.0	6.0	7.00	-	
Remarks		No dredging works was observed.							

Station			MF						
Time (hh:mm)			19:10	-19:12					
Water Depth (m)			8	.2					
Monitoring Depth (m)	1	.0	4	.1	7	.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.5	27.5	27.4	27.4	27.3	27.3	27.41	-	
Salinity (ppt)	27.4	27.4	28.1	28.0	30.4	29.8	28.52	-	
pH	7.0	7.0	7.0	7.0	7.0	7.0	6.99		
D.O. Saturation (%)	85.1	85.4	85.9	84.5	87.9	84.9	85.62	-	
D.O. (mg/L)	5.8	5.8	5.8	5.7	5.9	5.7	5.77	5.78	
Turbidity (NTU)	8.1	7.9	20.2	20.5	22.2	22.8	16.95	-	
SS (mg/L)	6.0	5.0	7.0	7.0	10.0	11.0	7.67	-	
Remarks		No dredging works was observed.							

Station			MF	B2						
Time (hh:mm)			19:19	-19:20						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.6	27.6	27.4	27.4	27.3	27.3	27.42	-		
Salinity (ppt)	26.6	26.5	28.5	27.8	30.2	30.3	28.33	-		
pH	6.9	6.9	6.9	6.9	7.0	7.0	6.93			
D.O. Saturation (%)	83.3	82.5	84.5	85.6	86.1	85.6	84.60	-		
D.O. (mg/L)	5.7	5.6	5.7	5.8	5.8	5.7	5.71	5.74		
Turbidity (NTU)	8.4	8.2	9.5	9.5	12.3	12.1	10.00	-		
SS (mg/L)	7.0	6.0	13.0	11.0	12.0	11.0	10.00	-		
Remarks		No dredging works was observed.								

Station			N							
Time (hh:mm)			18:51	-18:52						
Water Depth (m)			5	.3						
Monitoring Depth (m)	1.	.0	2							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.6	27.6	-	-	27.3	27.3	27.44	-		
Salinity (ppt)	27.3	27.5	,	-	30.3	30.3	28.83	-		
pH	7.0	7.0	-	-	7.0	7.1	7.02			
D.O. Saturation (%)	84.3	85.0	-	-	85.9	84.6	84.95	-		
D.O. (mg/L)	5.7	5.7	-	-	5.7	5.7	5.71	5.70		
Turbidity (NTU)	12.5	12.6	-	-	22.2	22.6	17.48	-		
SS (mg/L)	10.0	11.0	-	-	9.0	10.0	#DIV/0!	-		
Remarks		No dredging works was observed.								

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	01	IMO2	IMO2		MPB1	MF	PB2 MP		IP .
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.7	5.7	N	N	N	N	N	N	Z	N	N	N
DO (Depth-averaged)	4.2	4.0	5.8	5.8	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.0	9.0	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	8.2	8.2	N	Ν	N	N	N	N	N	N	#DIV/0!	#DIV/0!

Sampling Date	02/10/2008
Weather & Ambient Temperature	Sunny, 29C

Station	I		C2/	NM5)			1				
••••											
Time (hh:mm)			14:40								
Water Depth (m)											
Monitoring Depth (m)	1	.0	10).3	19	9.6					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.9	28.0	27.8	27.8	27.7	27.7	27.81	-			
Salinity (ppt)	28.1	28.1	29.9	29.9	31.3	31.3	29.77	-			
pH	7.1	7.1	7.2	7.2	7.2	7.2	7.15				
D.O. Saturation (%)	82.3	82.8	82.6	81.7	83.6	83.3	82.72	-			
D.O. (mg/L)	5.6	5.6	5.5	5.5	5.6	5.5	5.53	5.54			
Turbidity (NTU)	4.4	4.6	4.8	5.0	5.5	5.8	5.02	-			
SS (mg/L)	4.0	4.0 2.0 3.0 3.0 7.0 5.0 4.00									
Remarks			No	dredging wo	orks was obs	erved.					

Station			IM	01			Co-ore	dinates
Time (hh:mm)			14:09	-14:11			Northing	Easting
Water Depth (m)				22.21.455	113.53.832			
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.7	27.7	27.73	-
Salinity (ppt)	30.3	30.3	30.6	30.5	30.9	30.9	30.58	-
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.22	
D.O. Saturation (%)	82.2	82.9	81.8	82.4	82.9	83.7	82.65	-
D.O. (mg/L)	5.5	5.5	5.4	5.5	5.5	5.55	5.50	5.53
Turbidity (NTU)	4.8	4.7	5.6	5.8	6.7	6.5	5.68	-
SS (mg/L)	6.0	5.0	4.0	4.67	-			
Remarks			No	dredging wo	orks was obs	served.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			13:50	-13:52			Northing	Easting
Water Depth (m)				22.20.655	113.58.656			
Monitoring Depth (m)	1	.0	3	.7	6	.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.6	27.6	27.71	-
Salinity (ppt)	30.3	30.2	30.8	30.6	31.1	31.0	30.65	-
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.16	
D.O. Saturation (%)	83.0	82.3	80.9	81.3	86.2	85.9	83.27	-
D.O. (mg/L)	5.5	5.5	5.4	5.4	5.7	5.69	5.54	5.71
Turbidity (NTU)	4.2	4.4	4.7	4.7	5.2	5.4	4.77	-
SS (mg/L)	4.0	5.0	4.0	4.00	-			
Remarks		•	No	dredging wo	orks was obs	erved.	•	

Station			MF	PB1			1	
Time (hh:mm)			13:59	-14:01				
Water Depth (m)			7	.8				
Monitoring Depth (m)	1	.0	3	.9	6	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.9	27.7	27.8	27.7	27.7	27.76	-
Salinity (ppt)	26.4	26.4	29.2	29.4	30.5	30.6	28.73	-
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.21	
D.O. Saturation (%)	83.2	81.6	83.8	83.9	85.7	84.2	83.73	-
D.O. (mg/L)	5.7	5.6	5.6	5.6	5.7	5.6	5.63	5.65
Turbidity (NTU)	3.9	3.9	4.8	4.5	5.1	5.2	4.57	-
SS (mg/L)	2.0	2.0	3.00	-				
Remarks		-	No	dredging wo	orks was obs	served.		

Station			M	PB2						
Time (hh:mm)										
Water Depth (m)			g	.2						
Monitoring Depth (m)	1	.0	4	.6	8	.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.9	27.9	27.7	27.7	27.7	27.7	27.76	-		
Salinity (ppt)	26.6	26.6	28.6	28.6	30.1	30.1	28.45	-		
pH	7.3	7.3	7.3	7.3	7.4	7.4	7.30			
D.O. Saturation (%)	80.3	79.5	80.9	81.3	82.5	82.5	81.17	-		
D.O. (mg/L)	5.4	5.4	5.4	5.5	5.5	5.5	5.46	5.50		
Turbidity (NTU)	4.8	4.9	5.3	5.5	6.1	5.9	5.42	-		
SS (mg/L)	4.0	4.0	4.0	5.0	6.0	5.0	4.67	-		
Remarks		No dredging works was observed.								

Station			IV	IP						
Time (hh:mm)			14:18	-14:19						
Water Depth (m)			5	.5						
Monitoring Depth (m)	1	.0	2	.8	4	.5				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	28.2	28.2	-	-	27.8	27.8	27.98	-		
Salinity (ppt)	25.8	25.7	-	-	30.7	30.6	28.21	-		
pH	7.2	7.2	-	-	7.3	7.3	7.22			
D.O. Saturation (%)	84.1	83.4	-	-	84.8	84.3	84.15	=		
D.O. (mg/L)	5.7	5.7	-	-	5.6	5.6	5.66	5.63		
Turbidity (NTU)	3.5	3.4	-	-	4.1	4.2	3.80	-		
SS (mg/L)	4.0	5.0	-	-	4.0	4.0	4.25	-		
Remarks		No dredging works was observed.								

Compliance with Action an	ia Limit Lev	<u>ei</u>													
Parameter	As in	EM&A	C2*1	30%	IM	IMO1		02		MPB1	MF	PB2	IV	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan	
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit	
					Action	Level	Level	Level	Level		Action	Level	Action	Level	
DO (Bottom)	3.3	2.5	5.5	5.5	N	N	N	N	N	N	N	N	N	N	
DO (Depth-averaged)	4.2	4.0	5.5	5.5	N	N	N	N	N	N	N	N	N	N	
Turbidity (Depth-averaged)	29.0	49.0	6.5	6.5	N	N	N	N	N	N	Ν	N	Ν	N	
SS (Depth-averaged)	24.0	37.0	5.2	5.2	N	N	N	N	N	N	Ν	N	Ν	N	

Sampling Date	02/10/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C1 (NM3)				
Time (hh:mm)			8:31					
Water Depth (m)			16	6.0				
Monitoring Depth (m)	1	.0	8	3.0	15	5.0		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.9	27.8	27.5	27.5	27.5	27.5	27.61	-
Salinity (ppt)	30.5	30.5	31.1	31.1	31.4	31.5	31.02	-
pH	7.4	7.3	7.3	7.3	7.3	7.3	7.32	
D.O. Saturation (%)	81.2	80.7	77.2	78.0	78.3	78.9	79.05	-
D.O. (mg/L)	5.4	5.4	5.1	5.2	5.2	5.2	5.24	5.21
Turbidity (NTU)	2.2	2.1	2.5	2.6	3.2	3.5	2.68	-
SS (mg/L)	3.0	3.0	3.0	3.0	4.0	3.0	3.17	-
Remarks				No dred	dging works	was observe	d.	

Station			C3 (NM6)							
Time (hh:mm)			9:51								
Water Depth (m)			6	.6							
Monitoring Depth (m)	1	.0	3	.3	5	.6					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.0	27.9	27.6	27.6	27.5	27.5	27.67	-			
Salinity (ppt)	27.0	27.0	31.6	31.6	32.2	32.2	30.25	-			
pH	7.3	7.3	7.4	7.4	7.4	7.4	7.37				
D.O. Saturation (%)	88.7	89.7	87.8	87.5	88.8	89.2	88.62	-			
D.O. (mg/L)	6.0	6.0	5.8	5.8	5.9	5.9	5.89	5.87			
Turbidity (NTU)	4.6	4.7	5.4	5.3	5.8	5.6	5.23	-			
SS (mg/L)	5.0	5.0	6.0	5.0	6.0	5.0	5.33	-			
Remarks		No dredging works was observed.									

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			9:04	-9:07			Northing	Easting		
Water Depth (m)			6		22.19.448	113.54.829				
Monitoring Depth (m)	1	.0	3	.3	5	i.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.7	27.7	27.6	27.6	27.5	27.5	27.60	-		
Salinity (ppt)	30.1	30.0	30.5	30.5	31.0	31.0	30.52	-		
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.11			
D.O. Saturation (%)	85.9	86.2	84.3	84.1	88.7	87.2	86.07	-		
D.O. (mg/L)	5.7	5.7	5.6	5.6	5.9	5.8	5.72	5.83		
Turbidity (NTU)	4.5	4.7	4.2	4.2	5.0	5.2	4.63	-		
SS (mg/L)	6.0	7.0	6.0	4.0	5.33	-				
Remarks		No dredging works was observed.								

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			9:34	-9:36			Northing	Easting		
Water Depth (m)			7		22.20.649	113.53.656				
Monitoring Depth (m)	1	.0	3							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.8	27.7	27.6	27.6	27.6	27.6	27.65	-		
Salinity (ppt)	29.8	29.8	30.5	30.3	30.9	30.9	30.36	-		
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.21			
D.O. Saturation (%)	84.6	84.5	83.4	83.1	85.4	85.1	84.35	-		
D.O. (mg/L)	5.6	5.6	5.5	5.5	5.7	5.7	5.61	5.66		
Turbidity (NTU)	3.9	3.8	4.2	4.5	5.5	5.6	4.58	-		
SS (mg/L)	4.0	5.0	5.0	4.0	4.0	5.0	4.50	-		
Remarks		No dredging works was observed.								

Station			MF	PB1					
Time (hh:mm)			9:16						
Water Depth (m)			8						
Monitoring Depth (m)	1	.0	4	.1	7	.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.8	27.8	27.6	27.6	27.6	27.6	27.67	-	
Salinity (ppt)	26.0	26.0	29.2	29.2	30.5	30.5	28.54	-	
pH	7.2	7.2	7.2	7.2	7.3	7.3	7.22		
D.O. Saturation (%)	83.5	82.2	83.3	85.0	86.2	84.4	84.10	-	
D.O. (mg/L)	5.7	5.6	5.6	5.7	5.7	5.6	5.65	5.67	
Turbidity (NTU)	3.3	3.4	3.7	3.8	4.6	4.4	3.87	-	
SS (mg/L)	4.0	4.0	3.0	2.0	5.0	4.0	3.67	-	
Remarks		No dredging works was observed.							

Station			MF	PB2				
Time (hh:mm)			9:24					
Water Depth (m)			9	.2				
Monitoring Depth (m)	1	.0	4	.6	8	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.8	27.9	27.6	27.6	27.6	27.6	27.67	-
Salinity (ppt)	25.9	25.9	28.7	28.7	30.0	30.1	28.20	-
pH	7.2	7.2	7.3	7.3	7.3	7.3	7.25	
D.O. Saturation (%)	79.5	79.9	81.0	81.4	82.7	82.9	81.23	-
D.O. (mg/L)	5.4	5.4	5.4	5.5	5.5	5.5	5.46	5.53
Turbidity (NTU)	5.7	5.8	6.5	6.2	7.5	7.4	6.52	-
SS (mg/L)	5.0	6.0	7.0	6.0	6.0	6.0	6.00	-
Remarks	No dredging works was observed.							

Station			N	IP					
Time (hh:mm)			8:56						
Water Depth (m)			5	.6					
Monitoring Depth (m)	1.	.0	2	.8	4	.6			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	28.1	28.1	-	-	27.6	27.6	27.85	-	
Salinity (ppt)	25.1	25.1	-	-	30.4	30.3	27.73	-	
pH	7.2	7.2	-	-	7.3	7.3	7.23		
D.O. Saturation (%)	83.7	84.1	-	-	86.6	86.9	85.33	-	
D.O. (mg/L)	5.7	5.7	-	-	5.8	5.8	5.74	5.78	
Turbidity (NTU)	3.6	3.8	-	-	4.3	4.5	4.05	-	
SS (mg/L)	6.0	6.0	-	-	5.0	5.0	5.50	-	
Remarks		No dredging works was observed.							

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	Mean(C1+C3)*130%		101	IMO2		MPB1		MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.5	5.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.6	5.6	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	5.1	5.1	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	5.5	5.5	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	03/10/2008
Weather & Ambient Temperature	Cloudy, 28C

Station			C2 (NM5)			1					
Time (hh:mm)			9:26	-9:27			1					
Water Depth (m)												
Monitoring Depth (m)	1	.0	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
			averaged									
Water Temperature (°C)	27.7	27.7	27.5	27.5	27.4	27.4	27.52	-				
Salinity (ppt)	29.1	29.1	30.6	30.8	31.5	31.5	30.41	-				
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.23					
D.O. Saturation (%)	87.7	89.5	85.0	84.6	85.8	86.7	86.55	-				
D.O. (mg/L)	5.9	6.0	5.7	5.6	5.7	5.8	5.79	5.74				
Turbidity (NTU)	4.3	4.1	4.73	-								
SS (mg/L)	4.0	4.0 6.0 6.0 5.0 6.0 5.50 -										
Remarks			No	dredging wo	orks was obs	served.						

Station			IM	101			Co-ord	dinates
Time (hh:mm)			9:58-	-10:00			Northing	Easting
Water Depth (m)				22.19.452	113.54.838			
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.6	27.5	27.4	27.5	27.5	27.53	-
Salinity (ppt)	28.0	28.6	30.6	30.7	31.0	30.9	29.97	-
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.18	
D.O. Saturation (%)	86.9	86.3	86.3	86.1	86.2	86.0	86.30	-
D.O. (mg/L)	5.9	5.8	5.8	5.8	5.8	5.74	5.79	5.75
Turbidity (NTU)	6.3	6.2	6.5	6.8	7.2	7.5	6.75	-
SS (mg/L)	7.0	6.0	7.33	-				
Remarks			No	dredging wo	orks was obs	served.	•	

Station			IM	02			Co-ore	dinates			
Time (hh:mm)			9:39	-9:40			Northing	Easting			
Water Depth (m)				22.20.651	113.53.650						
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.8	27.8	27.5	27.5	27.4	27.4	27.57	-			
Salinity (ppt)	28.0	27.9	30.6	30.5	31.4	31.5	30.00	-			
pH	7.2	7.2	7.3	7.3	7.3	7.3	7.25				
D.O. Saturation (%)	91.6	91.6	92.4	92.8	93.7	92.6	92.45	-			
D.O. (mg/L)	6.2	6.2	6.2	6.2	6.2	6.16	6.18	6.20			
Turbidity (NTU)	4.7	4.7	5.1	5.5	5.8	5.9	5.28	-			
SS (mg/L)	4.0	6.0	7.0	6.00	-						
Remarks	No dredging works was observed.										

Station			MF	PB1			1					
Time (hh:mm)			10:07	-10:08								
Water Depth (m)												
Monitoring Depth (m)	1	.0	4	.1	7	.2						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
							averaged					
Water Temperature (°C)	27.7	27.6	27.6	27.5	27.5	27.5	27.57	-				
Salinity (ppt)	27.5	27.7	28.2	28.3	29.7	29.6	28.49	-				
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.08					
D.O. Saturation (%)	89.4	88.3	89.3	88.1	91.2	89.2	89.25	-				
D.O. (mg/L)	6.1	6.0	6.0	6.0	6.1	6.0	6.03	6.06				
Turbidity (NTU)	7.1	7.2	7.2	7.4	7.6	7.28	-					
SS (mg/L)	7.1	7.2	7.28	-								
Remarks		No dredging works was observed.										

Station			MF	PB2								
Time (hh:mm)			9:48	-9:49								
Water Depth (m)												
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
							averaged					
Water Temperature (°C)	27.7	27.7	27.7	27.5	27.5	27.5	27.59	-				
Salinity (ppt)	26.7	26.7	27.4	28.6	28.8	30.7	28.14	-				
pH	7.0	7.0	7.0	7.0	7.0	7.1	7.02					
D.O. Saturation (%)	86.8	88.2	86.2	88.5	87.1	88.7	87.58	-				
D.O. (mg/L)	5.9	6.0	5.9	6.0	5.9	5.9	5.93	5.91				
Turbidity (NTU)	5.7	5.8	6.2	6.2	6.3	6.1	6.05	-				
SS (mg/L)	5.7	5.8	6.2	6.2	6.3	6.1	6.05	-				
Remarks		No dredging works was observed.										

Station			N	IP			1				
Time (hh:mm)			10:15	-10:16							
Water Depth (m)			5	.6							
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.7	27.7	-	-	27.4	27.4	27.51	-			
Salinity (ppt)	27.5	27.7	-	-	30.4	30.4	29.01	-			
pH	7.1	7.1	-	-	7.1	7.2	7.12				
D.O. Saturation (%)	88.2	88.6	-	-	89.8	88.5	88.78	-			
D.O. (mg/L)	6.0	6.0	-	-	6.0	5.9	5.98	5.97			
Turbidity (NTU)	7.4	7.5	7.58	-							
SS (mg/L)	5.0	5.0 5.0 - 7.0 6.0 5.75									
Remarks	No dredging works was observed.										

Compliance with Action an	Only late with Action and Limit Level														
Parameter	As in	EM&A	C2*1	30%	IM	IMO1 IMO2				MPB1	MF	PB2	IV	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	eedan Exceedanc Exceedanc Exceedanc Exceedance of Limit Level		Exceedan	Exceedan	Exceedan	Exceedan			
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit	
					Action	Level	Level	Level	Level		Action	Level	Action	Level	
DO (Bottom)	3.3	2.5	5.7	5.7	N	N	N	N	N	N	N	N	N	N	
DO (Depth-averaged)	4.2	4.0	5.8	5.8	N	N	N	N	N	N	N	N	N	N	
Turbidity (Depth-averaged)	29.0	49.0	6.2	6.2	N	N	N	N	N	N	N	N	N	N	
SS (Depth-averaged)	24.0	37.0	7.2	7.2	N	N	N	N	N	N	N	N	N	N	

Station			C1 (NM3)						
Time (hh:mm)			14:06	-14:07						
Water Depth (m)			19							
Monitoring Depth (m)	1	.0	9							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.7	27.7	27.5	27.5	27.4	27.4	27.54	-		
Salinity (ppt)	29.1	29.2	31.1	30.8	31.9	31.7	30.62	-		
pH	7.2	7.2	7.3	7.2	7.2	7.3	7.23			
D.O. Saturation (%)	85.9	87.1	84.6	82.4	84.9	86.4	85.22	-		
D.O. (mg/L)	5.8	5.9	5.6	5.5	5.6	5.8	5.69	5.70		
Turbidity (NTU)	5.9	6.2	6.8	6.8	7.7	7.9	6.88	-		
SS (mg/L)	6.0	6.0	6.17	-						
Remarks	No dredging works was observed.									

Station			C3 (NM6)								
Time (hh:mm)			10:29	-10:30								
Water Depth (m)			16	6.2								
Monitoring Depth (m)	1	.0	8									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.5 27.6 27.4 27.3 27.3 27.3						27.41	-				
Salinity (ppt)	29.0	28.3	30.4	30.5	32.7	32.6	30.58	-				
pH	7.0	7.0	7.1	7.1	7.1	7.1	7.08					
D.O. Saturation (%)	92.7	93.5	94.3	93.2	95.2	94.0	93.82	-				
D.O. (mg/L)	6.2	6.3	6.3	6.2	6.3	6.2	6.27	6.27				
Turbidity (NTU)	7.1	7.3	7.3	7.2	7.5	7.8	7.37	-				
SS (mg/L)	4.0	5.0	7.0	5.0	5.83	-						
Remarks		No dredging works was observed.										

Station			IM	01			Co-ordinates					
Time (hh:mm)			14:41	-14:42			Northing	Easting				
Water Depth (m)			6	.8			22.19.454	113.54.836				
Monitoring Depth (m)	1	.0	3									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.7	27.7	27.4	27.4	27.4	27.4	27.48	-				
Salinity (ppt)	27.9 28.0		30.6	30.6	30.8	31.0	29.82	-				
pH	7.1	7.2	7.2	7.2	7.2	7.2	7.17					
D.O. Saturation (%)	89.1	88.4	87.1	87.8	88.3	87.5	88.03	-				
D.O. (mg/L)	6.0	6.0	5.8	5.9	5.9	5.9	5.90	5.87				
Turbidity (NTU)	7.3	7.2	7.5	7.8	8.4	8.3	7.75	-				
SS (mg/L)	4.0	6.0	5.0	5.0	5.33	-						
Remarks		No dredging works was observed.										

Station			IM	02			Co-ordinates	
Time (hh:mm)			15:06	-15:08			Northing	Easting
Water Depth (m)			8		22.20.649	113.53.649		
Monitoring Depth (m)	1	.0	4	'.1				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.7	27.7	27.5	27.6	27.5	27.5	27.64	-
Salinity (ppt)	27.8 27.7 30.4 30.4 31.3 31.3						29.88	-
pH	7.1	7.1	7.3	7.3	7.3	7.3	7.24	
D.O. Saturation (%)	92.3	91.2	92.0	91.3	91.3	92.4	91.75	-
D.O. (mg/L)	6.2	6.2	6.2	6.1	6.1	6.2	6.15	6.13
Turbidity (NTU)	6.9	6.8	7.5	8.1	7.50	-		
SS (mg/L)	6.0	6.0	5.0	6.0	6.0	5.67	-	
Remarks		,		No dred	dging works	was observe	d.	

Station			MF	PB1				
Time (hh:mm)			14:32	-14:33				
Water Depth (m)			8	.8				
Monitoring Depth (m)	1	.0	4					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom

Mid-Flood

Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.6	27.6	27.5	27.5	27.4	27.4	27.47	-				
Salinity (ppt)	27.6	27.6	28.2	28.2	30.6	30.0	28.70	-				
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.09					
D.O. Saturation (%)	89.0	89.3	88.1	89.8	91.8	88.8	89.47	-				
D.O. (mg/L)	6.0	6.1	6.0	6.1	6.1	6.0	6.04	6.05				
Turbidity (NTU)	8.1	7.9	7.9	7.7	8.2	8.4	8.03	-				
SS (mg/L)	6.0	5.0	4.0	5.0	6.0	6.0	5.33	-				
Remarks		No dredging works was observed.										

Station			MF	PB2				
Time (hh:mm)			14:53	-14:54				
Water Depth (m)			8					
Monitoring Depth (m)	1	.0	4	.3	7	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.7	27.6	27.5	27.4	27.4	27.4	27.49	-
Salinity (ppt)	26.8	26.7	28.0	28.7	30.5	30.4	28.52	-
pH	7.0	7.0	7.0	7.0	7.1	7.1	7.03	
D.O. Saturation (%)	87.2	86.1	89.5	88.4	89.5	89.7	88.40	-
D.O. (mg/L)	5.9	5.9	6.1	6.0	6.0	6.0	5.97	6.01
Turbidity (NTU)	7.1	7.1	7.2	7.2	7.5	7.3	7.23	-
SS (mg/L)	5.0	7.0	4.0	5.83	-			
Remarks				No dredgi	ng works wa	s observed.		

Station			N	1P								
Time (hh:mm)			14:23	-14:24								
Water Depth (m)			5									
Monitoring Depth (m)	1	.0	2	.9	4	.7						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.7	27.6	-	-	27.4	27.5	27.55	-				
Salinity (ppt)	28.0	28.5	-	-	30.4	30.3	29.29	-				
pH	7.1	7.1	-	-	7.1	7.1	7.09					
D.O. Saturation (%)	88.6	92.2	-	-	95.2	92.6	92.15	-				
D.O. (mg/L)	6.0	6.2	-	-	6.4	6.2	6.20	6.29				
Turbidity (NTU)	7.4	7.7	-	-	8.2	8.4	7.93	-				
SS (mg/L)	6.0	5.0	-	4.0	5.00	-						
Remarks		No dredging works was observed.										

Compliance with	Action	and	Limit Laval	
Compliance with	Action	and	Limit Level	

Compliance with Action an	ia Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	101	IMO2	IMO2		MPB1	MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedance	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	6.0	6.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.0	6.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.3	9.3	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	7.8	7.8	N	N	N	N	N	N	N	N	N	N

Sampling Date	04/10/2008
Weather & Ambient Temperature	Cloudy, 30C

Station			C2 (NM5)			1	
Time (hh:mm)								
Water Depth (m)			18	3.4				
Monitoring Depth (m)	1	.0	9	.2	17	7.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	29.7	30.0	28.4	28.4	26.9	26.9	28.38	-
Salinity (ppt)	24.3	23.8	27.6	27.6	31.1	31.1	27.57	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.02	
D.O. Saturation (%)	103.5	102.9	83.7	83.1	79.0	79.1	88.55	-
D.O. (mg/L)	6.9	6.9	5.6	5.5	5.3	5.3	5.89	5.26
Turbidity (NTU)	5.0	5.1	7.8	6.02	-			
SS (mg/L)	7.0	7.0	8.0	7.83	-			
Remarks			No	dredging wo	orks was obs	erved.		

Station			IM	01			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			17	7.0			22.19.457	113.54.850
Monitoring Depth (m)	1	.0	8	.5	16	6.0		-
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	29.9	30.1	28.6	28.6	27.3	27.2	28.60	-
Salinity (ppt)	23.3	23.0	26.8	27.0	30.3	30.5	26.81	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	99.7	102.2	79.0	80.4	73.3	76.1	85.12	-
D.O. (mg/L)	6.7	6.8	5.2	5.3	4.9	5.05	5.66	4.96
Turbidity (NTU)	6.0	5.9	8.3	7.10	-			
SS (mg/L)	6.0	7.0	6.0	6.67	-			
Remarks			No	dredging wo	orks was obs	erved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			12	2.2			22.20.650	113.53.659
Monitoring Depth (m)	1	.0	6	.1	11	1.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	30.3	30.3	29.1	29.2	27.6	27.5	29.00	-
Salinity (ppt)	22.7	22.7	26.1	25.7	30.2	30.2	26.26	-
pH	8.1	8.0	8.0	8.0	8.0	8.0	8.01	
D.O. Saturation (%)	108.5	106.6	89.2	89.0	80.4	80.4	92.35	-
D.O. (mg/L)	7.2	7.1	5.9	5.9	5.3	5.33	6.14	5.33
Turbidity (NTU)	5.7	5.6	7.4	6.45	-			
SS (mg/L)	8.0	8.0	7.67	-				
Remarks			No	dredging wo	orks was obs	erved.		

Station			MF	PB1			1	
Time (hh:mm)								
Water Depth (m)			8	.2				
Monitoring Depth (m)	1	.0	4	.1	7	'.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	30.9	31.1	28.9	29.0	28.7	28.8	29.55	-
Salinity (ppt)	16.5	16.3	25.8	25.5	26.6	26.0	22.78	-
pH	8.1	8.1	7.9	7.9	8.0	7.9	7.98	
D.O. Saturation (%)	105.8	111.2	83.8	84.1	87.6	89.5	93.67	-
D.O. (mg/L)	7.2	7.5	5.6	5.6	5.8	6.0	6.28	5.90
Turbidity (NTU)	5.1	5.0	5.8	5.8	6.1	6.1	5.65	-
SS (mg/L)	6.0	6.0	7.0	6.17	-			
Remarks			No	dredging wo	orks was obs	served.		

Station			M	PB2								
Time (hh:mm)			14:08	-14:09								
Water Depth (m)												
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
							averaged					
Water Temperature (°C)	31.2	31.1	30.3	30.5	29.5	29.1	30.27	-				
Salinity (ppt)	16.2	16.5	19.0	18.1	20.8	25.5	19.33	-				
pH	8.1	8.1	8.0	8.0	8.0	7.9	8.01					
D.O. Saturation (%)	123.9	123.3	98.4	94.2	86.8	91.6	103.03	-				
D.O. (mg/L)	8.4	8.4	6.6	6.4	5.9	6.1	6.96	5.98				
Turbidity (NTU)	5.7	5.8	8.3	8.1	9.5	9.3	7.78	-				
SS (mg/L)	5.0	7.0	7.0	8.0	8.0	8.0	7.17	-				
Remarks		No dredging works was observed.										

Station			N	IP			1					
Time (hh:mm)			14:26	-14:28								
Water Depth (m)												
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	30.0	30.2	-	-	28.9	28.9	29.49	-				
Salinity (ppt)	21.4	20.7	-	-	25.8	25.9	23.45	-				
pH	7.9	8.0	-	-	7.8	7.9	7.90					
D.O. Saturation (%)	100.1	102.6	-	-	80.2	88.3	92.80	-				
D.O. (mg/L)	6.7	6.9	-	-	5.3	5.9	6.21	5.60				
Turbidity (NTU)	6.4	6.3	-	-	8.7	8.6	7.50	-				
SS (mg/L)	8.0	6.0	7.0	6.75	-							
Remarks		No dredging works was observed.										

Compliance with Action an	ia Limit Lev	<u>'eı</u>												
Parameter	As in	EM&A	C2*130%		IM	101	IM	02		MPB1	MF	PB2	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.3	5.3	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.9	5.9	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	7.8	7.8	N	N	N	N	N	N	Ν	N	Ν	N
SS (Depth-averaged)	24.0	37.0	10.2	10.2	N	N	N	N	N	N	Ν	N	Ν	N

Sampling Date	04/10/2008
Weather & Ambient Temperature	Cloudy, 30C

Station			C1 (NM3)								
Time (hh:mm)			11:01	-11:04								
Water Depth (m)			16									
Monitoring Depth (m)	1	.0	8									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	29.9	29.9	28.7	28.1	26.9	26.9	28.42	-				
Salinity (ppt)	23.8	23.8	27.1	28.4	31.1	31.1	27.54	-				
pH	8.0	8.0	8.0	8.0	8.0	7.9	7.99					
D.O. Saturation (%)	103.3	102.6	83.8	82.0	78.6	80.2	88.42	-				
D.O. (mg/L)	6.9	6.8	5.6	5.4	5.2	5.3	5.88	5.29				
Turbidity (NTU)	5.1	5.2	5.7	5.6	7.3	7.5	6.07	-				
SS (mg/L)	7.0	8.0	7.0	7.0	9.0	10.0	8.00	-				
Remarks		No dredging works was observed.										

Station			C3 (NM6)								
Time (hh:mm)			9:44	-9:45								
Water Depth (m)			7									
Monitoring Depth (m)	1	.0	3									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	31.0	31.1	30.5	30.3	28.8	29.9	30.27	-				
Salinity (ppt)	17.5	17.7	19.7	20.0	27.1	23.7	20.96	-				
pH	8.1	8.1	8.0	8.0	7.9	8.0	8.01					
D.O. Saturation (%)	126.7	127.8	106.0	106.1	95.0	100.8	110.40	-				
D.O. (mg/L)	8.6	8.7	7.1	7.1	6.3	6.7	7.42	6.52				
Turbidity (NTU)	5.0	5.1	5.7	5.8	7.2	7.1	5.98	-				
SS (mg/L)	9.0	8.0	8.0	7.0	8.0	8.0	8.00	-				
Remarks		No dredging works was observed.										

Station			IM	01			Co-ordinates					
Time (hh:mm)			10:37	-10:41			Northing	Easting				
Water Depth (m)			16		22.19.452	113.54.838						
Monitoring Depth (m)	1	.0	8									
Trial	Trial 1 Trial 2 Trial 1 Trial 2 Trial					Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	30.0	29.9	28.7	28.8	27.2	27.2	28.64	-				
Salinity (ppt)	23.0	23.2	27.1	26.7	30.4	30.4	26.79	-				
pH	8.0	8.0	8.0	8.0	8.0	7.9	7.96					
D.O. Saturation (%)	102.1	101.7	81.4	81.8	77.0	79.5	87.25	-				
D.O. (mg/L)	6.8	6.8	5.4	5.4	5.1	5.3	5.80	5.20				
Turbidity (NTU)	5.8	5.8	6.8	6.9	9.4	9.5	7.37	-				
SS (mg/L)	7.0	7.0	6.0	6.0	6.50	-						
Remarks		No dredging works was observed.										

Station			IM	102			Co-ordinate	s			
Time (hh:mm)			10:48	-10:51			Northing	Easting			
Water Depth (m)			11	22.20.650	113.53.656						
Monitoring Depth (m)	1	.0	5								
Trial	Trial 1	Trial 1 Trial 2		Trial 2	Trial 1 Trial 2		Depth-averaged	Bottom			
Water Temperature (°C)	30.4	30.4	28.9	29.1	27.5	27.6	28.99	-			
Salinity (ppt)	22.7	22.7	26.3	8.0	30.2	30.2	26.28	-			
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01				
D.O. Saturation (%)	107.1	108.8	85.4	86.3	78.8	77.4	90.63	-			
D.O. (mg/L)	7.1	7.3	5.7	5.7	5.2	5.1	6.02	5.18			
Turbidity (NTU)	5.7	5.7	6.5	6.3	7.5	7.3	6.50	-			
SS (mg/L)	6.0	6.0	7.0	11.0	8.00	-					
Remarks		No dredging works was observed.									

Station			MF	PB1						
Time (hh:mm)			10:10	-10:13						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	30.7	30.8	28.8	28.9	28.5	28.5	29.38	-		
Salinity (ppt)	17.0	16.7	26.0	26.1	27.2	27.1	23.35	-		
pH	8.0	8.0	7.9	8.0	7.9	7.9	7.97			
D.O. Saturation (%)	109.0	106.2	83.4	81.5	85.6	87.8	92.25	-		
D.O. (mg/L)	7.4	7.2	5.6	5.4	5.7	5.8	6.18	5.77		
Turbidity (NTU)	5.2	5.3	6.3	6.1	7.0	6.9	6.13	-		
SS (mg/L)	6.0	6.0	6.0	7.0	6.17	-				
Remarks		No dredging works was observed.								

Station			MF	B2						
Time (hh:mm)			10:01	-10:03						
Water Depth (m)			9							
Monitoring Depth (m)	1	.0	4	.8						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	31.0	31.2	30.5	30.2	29.0	28.9	30.15	-		
Salinity (ppt)	16.4	16.2	18.0	20.0	25.7	26.1	20.40	-		
pH	8.1	8.1	8.1	8.0	8.0	8.0	8.02			
D.O. Saturation (%)	117.0	118.6	100.6	99.4	89.8	89.1	102.42	-		
D.O. (mg/L)	8.0	8.1	6.8	6.7	6.0	5.9	6.90	5.96		
Turbidity (NTU)	5.6	5.6	8.2	8.0	10.0	10.0	7.90	-		
SS (mg/L)	5.0	7.0	7.0	8.0	7.17	-				
Remarks	No dredging works was observed.									

Station			N	IP .							
Time (hh:mm)			10:20	-10:21							
Water Depth (m)			5								
Monitoring Depth (m)	1	.0	2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	30.1	29.9	-	-	28.8	28.9	29.43	-			
Salinity (ppt)	20.9	21.5	-	-	26.1	26.0	23.63	-			
pH	8.0	8.0	-	-	7.9	7.9	7.93				
D.O. Saturation (%)	98.1	97.5	-	-	82.0	85.4	90.75	-			
D.O. (mg/L)	6.6	6.5	-	-	5.4	5.7	6.06	5.56			
Turbidity (NTU)	6.6	6.7	-	-	9.4	9.3	8.00	-			
SS (mg/L)	5.0	6.0	-	7.0	6.25	-					
Remarks		No dredging works was observed.									

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	Mean(C1+C3)*130%		101	IMO2			MPB1	MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.9	5.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.7	6.7	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	7.8	7.8	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	10.4	10.4	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	05/10/2008
Weather & Ambient Temperature	Rainy, 28C

Station			C2 /	NM5)			1					
Time (hh:mm)			<u> </u>	-12:19			1					
Water Depth (m)												
Monitoring Depth (m)	1	.0	9	.1	17	7.2	1					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.6	27.7	27.7	27.7	27.6	27.7	27.68	-				
Salinity (ppt)	25.5	26.4	28.3	28.7	29.5	29.5	27.96	-				
pH	6.9	6.9	6.9	6.8	7.0	6.8	6.87					
D.O. Saturation (%)	83.0	82.0	82.4	81.6	83.9	81.5	82.40	-				
D.O. (mg/L)	5.7	5.6	5.5	5.5	5.6	5.4	5.55	5.53				
Turbidity (NTU)	7.7	7.4	9.07	-								
SS (mg/L)	9.0	9.0 6.0 9.0 8.0 12.0 9.0										
Remarks			No	dredging wo	orks was obs	erved.						

Station			IM	01			Co-ore	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			22.21.808	113.54.619				
Monitoring Depth (m)	1	.0		-				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.7	27.7	27.75	-
Salinity (ppt)	18.1	19.3	26.6	26.6	27.9	28.9	24.57	-
pH	6.9	6.9	7.0	6.9	6.9	7.0	6.93	
D.O. Saturation (%)	81.3	81.5	79.4	79.1	79.2	78.4	79.82	-
D.O. (mg/L)	5.8	5.8	5.4	5.4	5.3	5.25	5.48	5.29
Turbidity (NTU)	11.4	11.3	9.72	-				
SS (mg/L)	12.0	14.0	12.67	-				
Remarks			No	dredging wo	orks was obs	erved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			11:21	-11:23			Northing	Easting
Water Depth (m)				22.21.304	113.55.025			
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.7	27.7	27.7	27.7	27.7	27.7	27.72	-
Salinity (ppt)	20.1	21.7	25.7	25.6	30.1	26.7	24.97	-
pH	6.9	6.9	6.8	6.9	6.9	6.8	6.84	
D.O. Saturation (%)	80.7	80.8	80.4	79.7	81.2	80.4	80.53	-
D.O. (mg/L)	5.7	5.6	5.5	5.4	5.4	5.45	5.51	5.43
Turbidity (NTU)	9.9	9.6	9.78	-				
SS (mg/L)	11.0	11.0	13.0	10.50	-			
Remarks		-	No	dredging wo	orks was obs	erved.	-	-

Station			MF	PB1				
Time (hh:mm)			11:49	-11:51				
Water Depth (m)								
Monitoring Depth (m)	1	.0	3	.9	6	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.8	27.8	27.7	27.7	27.7	27.76	-
Salinity (ppt)	21.6	18.4	26.1	26.4	27.0	27.3	24.45	-
pH	7.0	6.9	7.0	7.0	7.0	7.0	6.99	
D.O. Saturation (%)	80.5	81.8	79.9	80.8	81.7	81.4	81.02	-
D.O. (mg/L)	5.6	5.8	5.4	5.5	5.5	5.5	5.56	5.52
Turbidity (NTU)	11.2	11.1	9.53	-				
SS (mg/L)	12.0	12.0	10.0	11.50	-			
Remarks			No	dredging wo	orks was obs	served.		•

Station			MF	PB2			1					
Time (hh:mm)			11:30	-11:31								
Water Depth (m)												
Monitoring Depth (m)	1	.0	4	.2	7	.4						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
							averaged					
Water Temperature (°C)	27.7	27.7	27.73									
Salinity (ppt)	20.5	21.9	25.5	25.5	25.7	25.8	24.14	-				
pH	6.9	6.9	6.9	6.9	6.9	6.9	6.87					
D.O. Saturation (%)	82.2	81.7	82.2	81.2	81.3	83.9	82.08	-				
D.O. (mg/L)	5.8	5.7	5.6	5.5	5.5	5.7	5.64	5.63				
Turbidity (NTU)	10.4	10.1	8.4	8.1	8.7	8.8	9.08	-				
SS (mg/L)	9.0	9.0 8.0 10.0 11.0 11.0 12.0 10.17										
Remarks			No	dredging wo	orks was obs	erved.						

Station			IV	IP			1	
Time (hh:mm)			11:58	-11:59				
Water Depth (m)			5	.2				
Monitoring Depth (m)	1	.0	2	.6	4	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.8	27.8	-	-	27.7	27.7	27.77	-
Salinity (ppt)	20.7	21.3	-	-	26.1	26.2	23.57	-
pH	7.0	7.0	-	-	7.0	7.0	6.95	
D.O. Saturation (%)	81.3	81.5	-	-	80.8	81.0	81.15	-
D.O. (mg/L)	5.7	5.7	-	-	5.5	5.5	5.59	5.50
Turbidity (NTU)	11.0	10.6	10.00	-				
SS (mg/L)	9.0	9.0	10.25	-				
Remarks		-	No	dredging wo	orks was obs	erved.	•	

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	C2*130%		IMO1		IMO2		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedanc Exceedance of Limit Level E		Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.5	5.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.6	5.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	11.8	NA	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	11.5	11.5	N	N	N	N	N	N	N	N	N	N

Sampling Date	05/10/2008
Weather & Ambient Temperature	Rainy, 28C

Station			C1 (NM3)				
Time (hh:mm)			16:19					
Water Depth (m)			15	5.6				
Monitoring Depth (m)	1	.0	7	'.8	14	4.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.5	27.6	27.7	27.7	27.7	27.6	27.62	-
Salinity (ppt)	23.3	24.3	28.5	27.19	-			
pH	6.9	6.9	6.9	7.0	6.9	6.9	6.93	
D.O. Saturation (%)	85.5	85.8	83.6	82.7	84.2	84.6	84.40	-
D.O. (mg/L)	5.9	5.9	5.6	5.6	5.6	5.7	5.72	5.65
Turbidity (NTU)	7.2	7.3	7.9	8.1	9.9	9.5	8.32	-
SS (mg/L)	8.0	8.0	8.0	8.0	8.33	-		
Remarks				No dred	dging works	was observe	d.	

Station			C3 (NM6)				
Time (hh:mm)			16:01					
Water Depth (m)			6	.6				
Monitoring Depth (m)	1	.0	3	.3	5	i.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.6	27.6	27.7	27.7	27.7	27.7	27.64	-
Salinity (ppt)	22.8	23.8	27.4	26.5	28.0	28.0	26.07	-
pH	6.9	6.9	6.9	6.9	6.9	6.9	6.90	
D.O. Saturation (%)	84.1	85.3	83.2	83.4	84.4	83.5	83.98	-
D.O. (mg/L)	5.8	5.9	5.6	5.7	5.7	5.6	5.72	5.65
Turbidity (NTU)	7.3	7.2	7.3	6.9	6.8	6.9	7.07	-
SS (mg/L)	7.0	7.0	6.0	8.0	6.83	-		
Remarks				No dred	dging works	was observe	d.	

Station			IM	01			Co-ordinate	s
Time (hh:mm)			15:30	-15:32			Northing	Easting
Water Depth (m)			18	3.4		22.21.802	113.54.617	
Monitoring Depth (m)	1	.0	9	7.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.7	27.7	27.75	-
Salinity (ppt)	20.8	19.6	26.3	26.3	28.0	28.0	24.82	-
pH	7.0	7.0	7.0	7.0	7.1	7.0	7.03	
D.O. Saturation (%)	80.9	81.2	80.8	80.5	79.3	80.8	80.58	-
D.O. (mg/L)	5.7	5.7	5.5	5.5	5.3	5.4	5.52	5.39
Turbidity (NTU)	10.2	10.2	8.5	8.5	9.9	9.5	9.47	-
SS (mg/L)	13.0	12.0	13.0	12.0	12.17	-		
Remarks				No dred	dging works	was observe	d.	

Station			IIV	102			Co-ordinate	s		
Time (hh:mm)			15:40	-15:42			Northing	Easting		
Water Depth (m)			1-		22.21.321	113.53.023				
Monitoring Depth (m)	1	.0	7	'.4	13	3.9				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.7	27.7	27.7	27.7	27.7	27.7	27.72	-		
Salinity (ppt)	20.2	23.3	25.7	25.6	30.2	30.1	25.85	-		
pH	7.0	6.9	7.0	7.0	7.0	7.0	6.98			
D.O. Saturation (%)	81.6	81.6	78.3	78.8	79.0	77.9	79.53	-		
D.O. (mg/L)	5.7	5.6	5.3	5.4	5.3	5.2	5.42	5.22		
Turbidity (NTU)	9.5	9.6	10.3	10.2	13.4	13.8	11.13	-		
SS (mg/L)	10.0	9.0	11.0	10.0	10.0	12.0	10.33	-		
		No dredging works was observed.								

Station			M	PB1						
Time (hh:mm)			15:20	-15:22						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4	.1	7	.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.7	27.7	27.77	-		
Salinity (ppt)	18.9	18.8	25.3	25.6	26.5	26.4	23.58	-		
pH	7.0	7.0	7.0	7.0	7.0	7.0	7.00			
D.O. Saturation (%)	81.9	82.2	81.0	80.5	82.0	81.2	81.47	-		
D.O. (mg/L)	5.8	5.8	5.5	5.5	5.6	5.5	5.62	5.54		
Turbidity (NTU)	10.8	10.9	8.6	8.6	7.9	8.1	9.15	-		
SS (mg/L)	14.0	14.0	13.0	12.0	9.0	7.0	11.50	-		
Remarks		No dredging works was observed.								

Station			M	PB2							
Time (hh:mm)			15:49	-15:50							
Water Depth (m)			8								
Monitoring Depth (m)	1	.0	4	.4	7	.8					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.7	27.8	27.7	27.7	27.7	27.7	27.72	-			
Salinity (ppt)	17.7	25.1	25.3	25.5	25.6	19.5	23.11	-			
pH	7.0	6.9	7.0	6.9	6.9	7.0	6.95				
D.O. Saturation (%)	82.8	82.8	82.1	82.8	84.1	81.7	82.72	-			
D.O. (mg/L)	5.9	5.7	5.6	5.7	5.7	5.8	5.72	5.75			
Turbidity (NTU)	9.1	8.1	8.0	8.6	8.3	9.1	8.53	-			
SS (mg/L)	10.0	8.0	10.0	9.0	10.0	10.0	9.50	-			
Remarks		No dredging works was observed.									

Station			IV	IP							
Time (hh:mm)			15:11	-15:12							
Water Depth (m)			5								
Monitoring Depth (m)	1.	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.8	27.8	-	-	27.7	27.7	27.77	-			
Salinity (ppt)	19.4	19.4	-	-	26.3	26.4	22.89	-			
pH	7.0	7.0	-	-	7.0	7.0	6.98				
D.O. Saturation (%)	81.8	80.9	-	-	80.4	81.4	81.13	-			
D.O. (mg/L)	5.8	5.7	-	-	5.5	5.5	5.61	5.49			
Turbidity (NTU)	10.8	10.4	-	-	8.8	8.4	9.60	-			
SS (mg/L)	11.0	13.0	-	-	14.0	12.0	12.50	-			
Remarks		No dredging works was observed.									

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2	IMO2		MPB1	MF	PB2	IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.6	5.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.7	5.7	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	10.0	10.0	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	9.9	9.9	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	06/10/2008
Weather & Ambient Temperature	Rainy, 26C

Station			C2 (NM5)							
Time (hh:mm)											
Water Depth (m)			19	9.2							
Monitoring Depth (m)	1	.0	9	.6	18	3.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.1	27.1	27.1	27.1	27.1	27.2	27.12	-			
Salinity (ppt)	27.5	27.6	27.6	29.7	29.9	27.4	28.29	-			
pH	6.9	6.9	6.8	6.6	6.9	6.9	6.85				
D.O. Saturation (%)	82.6	72.7	76.1	65.8	69.0	80.8	74.50	-			
D.O. (mg/L)	5.5	4.8	5.1	4.4	4.6	5.4	4.96	4.99			
Turbidity (NTU)	8.2	8.5	8.4	8.7	8.8	8.0	8.43	-			
SS (mg/L)	5.0	5.0	8.0	8.0	7.0	8.0	6.83				
Remarks		No dredging works was observed.									

Station			IM	01			Co-ord	dinates					
Time (hh:mm)				Northing	Easting								
Water Depth (m)			7	.8			22.21.483	113.53.539					
Monitoring Depth (m)	1	.0	3	.9	6	.8		3					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom					
							averaged						
Water Temperature (°C)	27.3	27.3	27.2	27.1	27.5	27.5	27.30	-					
Salinity (ppt)	22.0	20.8	27.6	27.5	29.3	29.2	26.05	-					
pH	7.1	7.1	7.1	7.2	7.1	7.0	7.11						
D.O. Saturation (%)	83.5	83.9	83.5	83.2	82.0	83.5	83.27	-					
D.O. (mg/L)	5.8	5.9	5.7	5.6	5.5	5.61	5.69	5.56					
Turbidity (NTU)	12.5	12.3	11.6	11.8	12.3	11.9	12.07	-					
SS (mg/L)	9.0	9.67	-										
Remarks			No	dredging wo	No dredging works was observed.								

Station			IM	02			Co-ord	dinates		
Time (hh:mm)				Northing	Easting					
Water Depth (m)			8	.0			22.20.838	113.53.708		
Monitoring Depth (m)	1	.0	4	.0	7	.0				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.3	27.3	27.2	27.2	27.2	27.2	27.23	-		
Salinity (ppt)	24.5	21.4	27.0	26.9	31.4	31.4	27.08	-		
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.29			
D.O. Saturation (%)	84.2	84.2	80.9	81.5	81.7	80.6	82.18	-		
D.O. (mg/L)	5.8	5.9	5.5	5.5	5.4	5.35	5.58	5.39		
Turbidity (NTU)	12.3	12.1	11.6	11.8	13.9	14.0	12.62	-		
SS (mg/L)	8.0	8.0 9.0 8.0 8.0 12.0 8.0 8.83								
Remarks		No dredging works was observed.								

Station			MF	PB1			1			
Time (hh:mm)			5:24	-5:26						
Water Depth (m)			8	.6						
Monitoring Depth (m)	1	.0	4	.3	7	.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	27.3	27.3	27.1	27.0	27.2	27.2	27.18			
Salinity (ppt)	20.0	20.2	26.5	26.9	27.7	27.6	24.82			
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.30			
D.O. Saturation (%)	84.9	84.5	83.6	83.2	84.7	83.9	84.13			
D.O. (mg/L)	6.0	5.9	5.7	5.7	5.7	5.7	5.78	5.71		
Turbidity (NTU)	12.5	12.9	13.5	13.2	14.2	14.2	13.42			
SS (mg/L)	9.0	9.0	8.0	9.0	10.0	10.0	9.17	-		
Remarks		No dredging works was observed.								

Station			MF	PB2				
Time (hh:mm)								
Water Depth (m)			9	.2				
Monitoring Depth (m)	1	.0	4	.6	8	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.7	27.3	27.2	27.7	27.7	27.4	27.50	-
Salinity (ppt)	20.7	18.9	26.4	26.5	26.8	26.8	24.34	-
pH	7.0	7.2	7.2	7.0	6.9	7.1	7.06	
D.O. Saturation (%)	84.4	85.4	85.4	84.8	85.5	86.8	85.38	-
D.O. (mg/L)	5.9	6.1	5.8	5.8	5.8	5.9	5.88	5.86
Turbidity (NTU)	12.1	12.2	11.2	10.8	10.6	10.5	11.23	-
SS (mg/L)	10.0	9.0	10.0	10.0	9.0	8.0	9.33	-
Remarks	No dredging works was observed.							

Station			N	/IP		•			
Time (hh:mm)									
Water Depth (m)			5	5.8					
Monitoring Depth (m)	1	.0	2	.9	4	.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	
Water Temperature (°C)	27.3	27.2			27.2	27.2	18.16	-	
Salinity (ppt)	20.7	20.6			27.7	27.5	16.08	-	
pH	7.0	6.9			6.9	7.0	4.62		
D.O. Saturation (%)	83.6	84.5			84.1	83.1	55.88	-	
D.O. (mg/L)	5.9	5.9			5.7	5.6	5.78	5.66	
Turbidity (NTU)	13.0	12.6			10.2	10.5	7.72	-	
SS (mg/L)	11.0	9.0			9.0	10.0	9.75	-	
Remarks		No dredging works was observed.							

Compliance with Action at	Compliance with Action and Limit Level													
Parameter	As in	EM&A	C2*1	C2*130%		IMO1		IMO2		MPB1	MF	B2	MP	
	Action	Limit	Action Limit E		Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.0	5.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.0	5.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	11.0	NA	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.9	8.9	N	N	N	N	N	N	N	N	N	N

Sampling Date	06/10/2008
Weather & Ambient Temperature	Rainy, 26C

Station			C1 (NM3)							
Time (hh:mm)			17:16	-17:18							
Water Depth (m)			16	6.0							
Monitoring Depth (m)	1	.0	8	5.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.2	27.2	27.1	27.2	27.5	27.2	27.21	-			
Salinity (ppt)	25.5			29.8	30.8	30.5	28.42	-			
pH	7.1	7.1	7.1	7.1	7.0	7.0	7.06				
D.O. Saturation (%)	88.4	88.2	85.4	86.3	87.3	86.9	87.08	-			
D.O. (mg/L)	6.1	6.1	5.7	5.8	5.8	5.8	5.88	5.82			
Turbidity (NTU)	8.1	7.7	9.6	9.5	15.4	15.9	11.03	-			
SS (mg/L)					#DIV/0!	-					
Remarks		Dredging works was observed.									

Station			C3 (NM6)							
Time (hh:mm)			16:08	-16:10							
Water Depth (m)			7	.0							
Monitoring Depth (m)	1	.0	3	.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.2	27.2	27.1	27.1	27.1	27.1	27.13	-			
Salinity (ppt)	24.0			28.6	29.2	29.3	27.30	-			
pH	7.0	7.0	7.0	7.0	7.0	7.0	6.99				
D.O. Saturation (%)	86.8	88.0	86.0	85.9	86.2	87.1	86.67	-			
D.O. (mg/L)	6.0	6.1	5.8	5.8	5.8	5.9	5.89	5.82			
Turbidity (NTU)	8.2	7.8	7.9	8.1	8.4	8.3	8.12	-			
SS (mg/L)	5.0	5.0	7.0	7.0	6.17	-					
Remarks		Dredging works was observed.									

Station			IM	01			Co-ordinates	3			
Time (hh:mm)			16:33	-16:35			Northing	Easting			
Water Depth (m)			7	.4			22.21.481	113.53.537			
Monitoring Depth (m)	1	.0	3	.4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.3	27.3 27.3		27.3	27.5	27.5	27.32	-			
Salinity (ppt)	20.5	20.5 19.4		27.8	29.2	30.1	25.81	-			
pH	7.2	7.2	7.2	7.2	7.2	7.1	7.20				
D.O. Saturation (%)	84.2	83.9	81.7	82.1	81.9	81.1	82.48	-			
D.O. (mg/L)	5.9	5.9	5.5	5.6	5.5	5.4	5.64	5.46			
Turbidity (NTU)	12.5	12.3	12.2	12.7	14.2	13.8	12.95	-			
SS (mg/L)	12.0	12.0	11.0	8.0	11.00	-					
Remarks		Dredging works was observed.									

Station			IIV	102			Co-ordinate	s			
Time (hh:mm)			16:22	-16:24			Northing	Easting			
Water Depth (m)			7	' .6			22.20.827	113.53.704			
Monitoring Depth (m)	1	.0	3	3.8	6	.6					
Trial	Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Tr		Trial 2	Depth-averaged	Bottom						
Water Temperature (°C)	27.3	27.3 27.3 27.2 27.2		27.4	27.4	27.30	-				
Salinity (ppt)	21.3			26.9	27.9	31.3	26.21	-			
pH	7.2	7.3	7.2	7.2	7.1	7.2	7.20				
D.O. Saturation (%)	83.4	83.5	83.1	82.4	83.1	83.8	83.22	-			
D.O. (mg/L)	5.9	5.8	5.7	5.6	5.6	5.6	5.68	5.59			
Turbidity (NTU)	12.0	12.0 11.8		11.1	14.2	14.3	12.53	-			
SS (mg/L)	10.0 11.0 13.0 14.0 10.0 11.0						11.50	-			
Remarks		Dredging works was observed.									

Station			MF	PB1							
Time (hh:mm)			16:52	-16:54							
Water Depth (m)			8	.4							
Monitoring Depth (m)	1	.0	4	.4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.3	27.3	27.2	27.2	27.3	27.3	27.27	-			
Salinity (ppt)	19.7	22.8	27.6	27.4	28.2	28.5	25.68	-			
pH	7.3	7.3	7.2	7.3	7.2	7.3	7.27				
D.O. Saturation (%)	84.5	83.2	83.5	82.6	84.4	84.0	83.70	-			
D.O. (mg/L)	6.0	5.8	5.7	5.6	5.7	5.7	5.73	5.68			
Turbidity (NTU)	12.2	12.1	11.6	12.1	12.7	12.8	12.25	-			
SS (mg/L)	11.0	12.0	11.0	10.0	11.17	-					
Remarks		Dredging works was observed.									

Station			MF	PB2							
Time (hh:mm)			17:02	-17:03							
Water Depth (m)			8	.8							
Monitoring Depth (m)	1	.0	4								
Trial	Trial 1	Trial 2	Depth-averaged	Bottom							
Water Temperature (°C)	27.3	27.3	27.2	27.2	27.4	27.4	27.31	-			
Salinity (ppt)	23.1	21.8	26.7	26.7	26.9	27.0	25.38	-			
pH	7.3	7.3	7.2	7.2	7.2	7.2	7.22				
D.O. Saturation (%)	84.4	84.9	83.8	84.9	84.0	86.6	84.77	-			
D.O. (mg/L)	5.9	5.9	5.7	5.8	5.7	5.9	5.81	5.80			
Turbidity (NTU)	12.6	12.6	12.9	12.7	14.4	14.9	13.35	-			
SS (mg/L)	11.0	9.0	13.0	11.0	11.50	-					
Remarks		Dredging works was observed.									

Station			IV								
Time (hh:mm)			16:43	-16:45							
Water Depth (m)			5	.6							
Monitoring Depth (m)	1	.0	2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.2	27.2			27.2	27.2	18.16	-			
Salinity (ppt)	22.5	22.0			27.4	27.3	16.53	-			
pH	6.7	6.9			6.7	6.8	4.52				
D.O. Saturation (%)	84.1	84.0			83.7	83.5	55.88	-			
D.O. (mg/L)	5.8	5.9			5.7	5.7	5.76	5.67			
Turbidity (NTU)	12.9	12.6			11.4	11.9	8.13	-			
SS (mg/L)	12.0	11.0		11.50	-						
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	ean(C1+C3)*130% IMO		IMO1 IMO2		MPB1		MPB2		MP		
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.8	5.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.9	5.9	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	12.4	NA	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	#DIV/0!	#DIV/0!	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	07/10/2008
Weather & Ambient Temperature	Cloudy, 28C

Station			C2 (NM5)			1	
Time (hh:mm)			- 1	-6:21			1	
Water Depth (m)								
Monitoring Depth (m)	1	.0	1					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
			averaged					
Water Temperature (°C)	27.5	27.5	25.9	25.8	25.0	25.0	26.11	-
Salinity (ppt)	16.7	16.7	26.7	26.8	29.7	29.7	24.38	-
pH	7.2	7.2	7.2	7.2	7.1	7.1	7.17	
D.O. Saturation (%)	93.9	93.5	76.1	74.7	72.8	72.3	80.55	-
D.O. (mg/L)	6.6	6.6	5.2	5.1	4.9	4.9	5.55	4.93
Turbidity (NTU)	2.9	2.6	3.68	-				
SS (mg/L)	7.0	7.00	-					
Remarks			No	dredging wo	orks was obs	erved.		

Station			IM	01			Co-ord	dinates
Time (hh:mm)			5:54	-5:58			Northing	Easting
Water Depth (m)				22.21.800	113.54.391			
Monitoring Depth (m)	1	.0		-				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.0	27.1	25.2	25.2	24.7	24.6	25.64	-
Salinity (ppt)	19.2	19.2	29.7	29.7	31.0	31.0	26.62	-
pH	7.3	7.4	7.4	7.4	7.4	7.4	7.37	
D.O. Saturation (%)	87.5	86.9	72.3	72.1	65.5	66.4	75.12	-
D.O. (mg/L)	6.0	6.0	4.8	4.9	4.4	4.50	5.10	4.47
Turbidity (NTU)	4.2	4.2	6.3	6.3	7.2	6.8	5.83	-
SS (mg/L)	4.0	3.0	3.17	-				
Remarks			No	dredging wo	orks was obs	erved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			5:42	-5:45			Northing	Easting
Water Depth (m)				22.21.422	113.55.368			
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	26.9	26.9	25.2	25.2	24.7	24.7	25.61	-
Salinity (ppt)	20.1	20.0	29.7	29.7	30.8	30.8	26.87	-
pH	7.4	7.4	7.3	7.3	7.3	7.2	7.31	
D.O. Saturation (%)	89.3	89.0	74.6	74.5	69.8	70.2	77.90	-
D.O. (mg/L)	6.1	6.1	5.1	5.1	4.8	4.76	5.31	4.77
Turbidity (NTU)	4.9	4.7	5.7	6.0	7.9	7.9	6.18	-
SS (mg/L)	2.0	3.0	4.17	-				
Remarks		-	No	dredging wo	orks was obs	erved.	-	

Station			MF	PB1			1	
Time (hh:mm)			6:51	-6:53				
Water Depth (m)								
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.2	27.2	26.3	26.3	25.9	26.0	26.49	-
Salinity (ppt)	17.7	17.6	23.8	23.7	26.2	26.3	22.54	-
pH	7.1	7.2	7.2	7.2	7.2	7.2	7.17	
D.O. Saturation (%)	88.7	87.9	85.0	84.7	80.7	80.6	84.60	-
D.O. (mg/L)	6.2	6.2	5.9	5.8	5.5	5.5	5.86	5.52
Turbidity (NTU)	3.7	3.4	3.72	-				
SS (mg/L)	4.0	3.0	4.0	4.00	-			
Remarks			No	dredging wo	orks was obs	served.		

Station			MI	PB2					
Time (hh:mm)			7:01	-7:04					
Water Depth (m)									
Monitoring Depth (m)	1	.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	27.2	27.2	26.9	26.9	25.8	25.8	26.62	-	
Salinity (ppt)	18.3	18.3	20.2	20.2	26.9	27.0	21.82	-	
pH	7.2	7.3	7.3	7.3	7.2	7.2	7.25		
D.O. Saturation (%)	90.4	90.7	84.2	85.2	78.8	80.1	84.90	-	
D.O. (mg/L)	6.3	6.4	5.9	5.9	5.4	5.5	5.89	5.43	
Turbidity (NTU)	2.4	2.5	2.8	2.9	3.4	3.5	2.92	-	
SS (mg/L)	3.0	3.0	4.0	4.0	5.0	4.0	3.83	-	
Remarks	No dredging works was observed.								

Station			N	IP			1				
Time (hh:mm)			6:42	-6:44							
Water Depth (m)											
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.1	27.1	-	-	26.2	26.2	26.64	-			
Salinity (ppt)	17.4	17.5	-	-	24.9	25.0	21.20	-			
pH	7.3	7.3	-	-	7.2	7.2	7.22				
D.O. Saturation (%)	95.7	94.9	-	-	90.8	90.8	93.05	-			
D.O. (mg/L)	6.7	6.6	-	-	6.2	6.2	6.42	6.22			
Turbidity (NTU)	4.4	4.7	-	-	5.5	5.8	5.10	-			
SS (mg/L)	2.0	3.0	-	-	3.0	3.0	2.75	-			
Remarks		No dredging works was observed.									

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	30%	IM	IMO1		IMO2		MPB1	MF	B2	IV	(P
	Action	Limit	Action	Limit	Exceedan Exceedan		Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.9	4.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.6	5.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	4.8	4.8	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	9.1	9.1	N	N	N	N	N	N	N	N	N	N

Sampling Date	07/10/2008
Weather & Ambient Temperature	Cloudy, 27C

Station			C1 (NM3)									
Time (hh:mm)			18:30	-18:33									
Water Depth (m)			16	6.4									
Monitoring Depth (m)	1	.0	8										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom					
Water Temperature (°C)	26.4	26.4	25.2	25.2	24.3	24.3	25.33	-					
Salinity (ppt)	22.4	22.4	29.6	29.7	31.6	31.6	27.86	-					
pH	7.3	7.3	7.2	7.2	7.2	7.2	7.25						
D.O. Saturation (%)	94.8	93.3	79.5	81.1	74.6	73.6	82.82	-					
D.O. (mg/L)	6.4	6.3	5.4	5.5	5.1	5.0	5.62	5.04					
Turbidity (NTU)	3.5	3.4	4.1	4.1	4.8	4.9	4.13	-					
SS (mg/L)	4.0	4.0	6.0	4.0	4.0	5.0	4.50	-					
Remarks		No dredging works was observed.											

Station			C3 (NM6)							
Time (hh:mm)			16:55	-16:57							
Water Depth (m)			6								
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.3	27.2	26.8	26.8	26.7	26.7	26.92	-			
Salinity (ppt)	18.9	18.9	20.7	20.7	21.5	21.4	20.34	-			
pH	7.2	7.2	7.3	7.3	7.3	7.3	7.26				
D.O. Saturation (%)	89.3	88.9	82.7	82.4	86.5	86.5	86.05	-			
D.O. (mg/L)	6.2	6.2	5.8	5.8	6.0	6.0	6.00	6.01			
Turbidity (NTU)	2.8	3.0	4.2	4.0	5.1	5.3	4.07	-			
SS (mg/L)	4.0	4.0	4.0	4.0	3.0	3.0	3.67	-			
Remarks		No dredging works was observed.									

Station			IM	01			Co-ordinates	3			
Time (hh:mm)			18:03	-18:05			Northing	Easting			
Water Depth (m)			6	.6			22.21.807	113.54.396			
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	26.8	26.8	25.5	25.5	24.8	24.8	25.67	-			
Salinity (ppt)	20.8	20.8	29.2	29.2	30.7	30.8	26.90	-			
pH	7.4	7.4	7.3	7.3	7.3	7.3	7.31				
D.O. Saturation (%)	90.4	90.7	69.9	69.3	74.0	74.8	78.18	-			
D.O. (mg/L)	6.2	6.2	4.7	4.7	5.0	5.1	5.30	5.05			
Turbidity (NTU)	5.2	5.4	6.3	6.1	6.9	7.2	6.18	-			
SS (mg/L)	5.0	6.0	6.0	6.0	5.33	-					
Remarks		No dredging works was observed.									

Station			IIV	102			Co-ordinate	es			
Time (hh:mm)			18:14	-18:16			Northing	Easting			
Water Depth (m)			7		22.21.427	113.55.371					
Monitoring Depth (m)	1	.0	3	1.5	6	5.0					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	26.2	26.2	25.5	25.4	25.0	25.1	25.55	-			
Salinity (ppt)	22.8	22.9	28.3	28.4	29.8	29.8	27.01	-			
pH	7.4	7.4	7.3	7.3	7.2	7.2	7.31				
D.O. Saturation (%)	92.7	92.5	74.3	73.7	78.0	79.4	81.77	-			
D.O. (mg/L)	6.3	6.3	5.1	5.0	5.3	5.4	5.55	5.34			
Turbidity (NTU)	4.2	4.3	4.8	4.7	5.5	5.4	4.82	-			
SS (mg/L)	4.0	5.0	4.0	5.0	5.0	5.0	4.67	-			
Remarks		No dredging works was observed.									

Station			MF	PB1						
Time (hh:mm)			17:29	-17:31						
Water Depth (m)			8	3.8						
Monitoring Depth (m)	1	.0	4	'.8						
Trial	Trial 1	Trial 2	Depth-averaged	Bottom						
Water Temperature (°C)	27.1	27.1	26.56	-						
Salinity (ppt)	17.5	17.5	21.65	-						
pH	7.2	7.2	7.2	7.3	7.2	7.3	7.23			
D.O. Saturation (%)	89.8	88.9	87.1	87.1	83.2	83.2	86.55	-		
D.O. (mg/L)	6.3	6.3	6.0	6.0	5.7	5.7	6.00	5.71		
Turbidity (NTU)	3.1	3.3	3.4	3.6	3.8	4.0	3.53	-		
SS (mg/L)	3.0	4.0	4.0	4.0	5.0	5.0	4.17	-		
Remarks		No dredging works was observed.								

Station			MF	PB2								
Time (hh:mm)			17:20	-17:22								
Water Depth (m)			9									
Monitoring Depth (m)	1	.0	4									
Trial	Trial 1	Trial 2	Depth-averaged	Bottom								
Water Temperature (°C)	27.6	27.6	26.8	26.9	25.8	25.8	26.76	-				
Salinity (ppt)	15.6	15.5	19.5	20.34	-							
pH	7.1	7.1	7.1	7.1	7.1	7.0	7.09					
D.O. Saturation (%)	91.0	91.0 90.5 86.7 87.4 79.5 79.1 85.70										
D.O. (mg/L)	6.4	6.4 6.4 6.0 6.1 5.5 5.4 5.96										
Turbidity (NTU)	3.5	3.4	4.07	-								
SS (mg/L)	5.0	5.0	4.0	5.0	6.0	7.0	5.33	-				
Remarks		No dredging works was observed.										

Station			IV	IP								
Time (hh:mm)			17:39	-17:40								
Water Depth (m)			5									
Monitoring Depth (m)	1.	.0	2									
Trial	Trial 1	Trial 2	Depth-averaged	Bottom								
Water Temperature (°C)	27.3	27.3	-	-	25.9	26.0	26.63	-				
Salinity (ppt)	19.3	19.2	-	22.59	-							
pH	7.3	7.3	-	7.25								
D.O. Saturation (%)	95.0	95.2	-	-	89.2	88.9	92.08	-				
D.O. (mg/L)	6.6	6.6 6.6 6.1 6.1 6.34 6.0										
Turbidity (NTU)	4.4	4.4 4.5 - 4.9 5.0 4.70										
SS (mg/L)	6.0	6.0 5.0 - - 3.0 3.0 4.25 -										
Remarks		No dredging works was observed.										

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2		MPB1		MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.5	5.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.8	5.8	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	5.3	5.3	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	5.3	5.3	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	08/10/2008
Weather & Ambient Temperature	Cloudy, 27C

Station			C2 (NM5)			1					
Time (hh:mm)			- 1	-8:02								
Water Depth (m)		19.0										
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 2	Depth-	Bottom								
Water Temperature (°C)	27.4	27.5	27.3	27.3	27.3	27.3	27.36	-				
Salinity (ppt)	29.4	29.4	30.83	-								
pH	7.4	7.4	7.4	7.5	7.4	7.5	7.44					
D.O. Saturation (%)	82.1	82.1 82.1 80.1 80.0 79.3 80.6 80.7										
D.O. (mg/L)	5.5	5.5 5.5 5.3 5.3 5.3 5.3 5.38										
Turbidity (NTU)	4.8	4.8 4.8 7.9 7.3 12.1 11.7										
SS (mg/L)	4.0	5.0	5.0	5.0	7.0	5.0	5.17	-				
Remarks	No dredging works was observed.											

Station			IM	01			Co-ore	dinates				
Time (hh:mm)			6:58	-7:01			Northing	Easting				
Water Depth (m)		11.0 22.21.542 113.54										
Monitoring Depth (m)	1	.0		-								
Trial	Trial 1	Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2						Bottom				
							averaged					
Water Temperature (°C)	27.0	27.1	27.4	27.4	27.4	27.4	27.25	-				
Salinity (ppt)	22.3	22.3 22.2 30.4 30.3 30.7 30.8						-				
pH	7.4	7.4	7.43									
D.O. Saturation (%)	78.1	78.1 78.4 75.9 74.9 75.5 77.5 76.72										
D.O. (mg/L)	5.5	5.5 5.5 5.1 5.0 5.0 5.17 5.21										
Turbidity (NTU)	5.6	5.7	8.2	8.4	13.2	13.5	9.10	-				
SS (mg/L)	4.0	5.0	7.0	5.0	4.0	4.0	4.83	-				
Remarks	No dredging works was observed.											

Station			IM	02			Co-ord	dinates			
Time (hh:mm)			6:48	-6:50			Northing	Easting			
Water Depth (m)		15.2 22.21.309 118.55.13									
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Depth-	Bottom							
Water Temperature (°C)	27.3	27.3 27.3 27.4 27.4 27.3 27.3						-			
Salinity (ppt)	24.5	24.4	28.77	-							
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.45				
D.O. Saturation (%)	81.7	80.0	77.0	77.5	77.9	80.1	79.03	-			
D.O. (mg/L)	5.7	5.7 5.5 5.1 5.2 5.2 5.32 5.33 5.									
Turbidity (NTU)	5.4	5.4 5.6 6.3 6.7 8.2 8.4 6.77									
SS (mg/L)	5.0	5.0	5.0	4.0	5.0	5.0	4.83	-			
Remarks		No dredging works was observed.									

Station			MF	PB1			1				
Time (hh:mm)			7:31	-7:33							
Water Depth (m)											
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Depth- averaged	Bottom							
Water Temperature (°C)	26.8	26.9	27.0	27.0 27.1		27.2	27.04	-			
Salinity (ppt)	21.1	21.2	25.41	-							
pH	7.3	7.3	7.3	7.3	7.4	7.3	7.32				
D.O. Saturation (%)	78.7	78.7 78.8 76.0 76.3 77.3 76.2 77.22									
D.O. (mg/L)	5.6	5.6 5.6 5.2 5.2 5.2 5.34									
Turbidity (NTU)	4.3	4.3 4.6 4.5 4.5 4.6 4.7 4.53									
SS (mg/L)	26.0	26.0	3.0	4.0	4.0	4.0	11.17	ı			
Remarks		No dredging works was observed.									

Station			MI	PB2							
Time (hh:mm)			7:20	-7:24							
Water Depth (m)		9.0									
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	26.9	26.9	27.0	27.2	27.3	27.3	27.10	-			
Salinity (ppt)	17.9	21.5	25.7	29.3	30.1	30.2	25.77	-			
pH	7.5	7.5 7.4 7.5 7.5 7.6 7.5									
D.O. Saturation (%)	77.3	77.9	77.7	78.1	78.4	78.3	77.95	-			
D.O. (mg/L)	5.6	5.6 5.5 5.4 5.3 5.3 5.2									
Turbidity (NTU)	5.4	5.6	5.5	5.6	6.2	6.6	5.82	-			
SS (mg/L)	7.0	6.0	6.0	7.0	5.0	5.0	6.00	-			
Remarks	No dredging works was observed.										

Station			IV	IP .							
Time (hh:mm)			7:42	-7:43							
Water Depth (m)											
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2									
Water Temperature (°C)	26.9	26.9	-	-	27.1	27.0	17.95	-			
Salinity (ppt)	19.5	20.3	15.13	-							
pH	7.4	7.4	-	-	7.4	7.3	4.91				
D.O. Saturation (%)	78.5	77.5	-	-	77.6	78.6	52.03	-			
D.O. (mg/L)	5.6	5.6 5.5 5.3 5.5 5.48 5.3									
Turbidity (NTU)	10.4	10.4 10.5 10.2 10.2									
SS (mg/L)	4.0	5.0	-	-	4.0	3.0	4.00	-			
Remarks		No dredging works was observed.									

Compliance with Action at	omphance with Action and Limit Level													
Parameter	As in	EM&A	C2*1	30%	IIV	101	IM	02		MPB1	MF	PB2	IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.3	5.3	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.4	5.4	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	10.5	10.5	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	6.7	6.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	08/10/2008
Weather & Ambient Temperature	Cloudy, 26C

Station			C1 (NM3)						
Time (hh:mm)			20:01	-20:03						
Water Depth (m)			16	6.8						
Monitoring Depth (m)	1	.0	8							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.3	27.4	27.2	27.2	27.3	27.3	27.28	-		
Salinity (ppt)	29.4	29.4	30.8	31.0	31.7	31.9	30.67	-		
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.47			
D.O. Saturation (%)	82.1	82.6	79.8	81.1	80.1	82.0	81.28	-		
D.O. (mg/L)	5.5	5.5	5.3	5.4	5.3	5.4	5.42	5.38		
Turbidity (NTU)	4.3	4.5	7.4	7.5	8.3	8.9	6.82	-		
SS (mg/L)	5.0	5.0	6.0	4.0	6.0	5.0	5.17	-		
Remarks		Dredging works was observed.								

Station			C3 (NM6)							
Time (hh:mm)			18:50	-18:51							
Water Depth (m)			6								
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	26.8	26.7	27.0	26.9	27.2	27.1	26.95	-			
Salinity (ppt)	17.6	18.3	25.4	25.3	29.7	29.8	24.37	-			
pH	7.5	7.4	7.5	7.5	7.6	7.6	7.49				
D.O. Saturation (%)	77.4	78.0	78.6	77.6	77.7	79.9	78.20	-			
D.O. (mg/L)	5.6	5.6	5.4	5.4	5.2	5.4	5.43	5.29			
Turbidity (NTU)	5.6	5.6	5.4	5.4	5.7	6.0	5.62	-			
SS (mg/L)	7.0	7.0	7.0	7.0	6.0	6.0	6.67	-			
Remarks		Dredging works was observed.									

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			19:14	-19:16			Northing	Easting		
Water Depth (m)			11	1.2			22.21.546	113.54.292		
Monitoring Depth (m)	1	.0	5	.6	10	0.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.0	27.0	27.3	27.3	27.3	27.3	27.19	-		
Salinity (ppt)	24.2	24.0	30.4	30.3	30.5	30.7	28.35	-		
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.46			
D.O. Saturation (%)	77.7	75.8	74.8	75.0	75.2	75.8	75.72	-		
D.O. (mg/L)	5.4	5.3	5.0	5.0	5.0	5.1	5.13	5.04		
Turbidity (NTU)	5.0	5.3	7.0	6.9	9.3	9.1	7.10	-		
SS (mg/L)	4.0 5.0 4.0 6.0 6.0 4.0					4.83	-			
Remarks		Dredging works was observed.								

Station			IM	02			Co-ordinate	S		
Time (hh:mm)			19:04	-19:06			Northing	Easting		
Water Depth (m)			15	5.6			22.21.311	113.55.139		
Monitoring Depth (m)	1	.0	7	.8	14	1.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.2	27.2	27.3	27.3	27.3	27.3	27.27	-		
Salinity (ppt)	23.4	24.1	30.5	30.7	31.2	31.5	28.55	-		
pH	7.3	7.4	7.5	7.4	7.4	7.5	7.40			
D.O. Saturation (%)	82.4	82.0	76.8	77.4	78.3	78.3	79.20	-		
D.O. (mg/L)	5.7	5.7	5.1	5.2	5.2	5.2	5.35	5.21		
Turbidity (NTU)	5.7	5.5	7.2	7.0	8.8	9.2	7.23	-		
SS (mg/L)	6.0 6.0 7.0 6.0 5.0 6.0						6.00	-		
Remarks		Dredging works was observed.								

Station			MF	PB1					
Time (hh:mm)			19:36	-19:38					
Water Depth (m)			8	.2					
Monitoring Depth (m)	1	.0	4						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	26.7	26.7	27.0	27.0	27.2	27.2	26.99	-	
Salinity (ppt)	19.5	18.4	26.4	26.3	30.8	30.5	25.31	-	
pH	7.4	7.4	7.4	7.4	7.5	7.5	7.43		
D.O. Saturation (%)	77.3	76.9	77.9	77.7	78.4	78.1	77.72	-	
D.O. (mg/L)	5.5	5.6	5.3	5.3	5.2	5.2	5.37	5.23	
Turbidity (NTU)	5.6	5.5	6.4	6.3	6.6	6.2	6.10	-	
SS (mg/L)	3.0	3.0	14.0	12.0	4.0	4.0	6.67	-	
Remarks	Dredging works was observed.								

Station			MF	PB2							
Time (hh:mm)			19:48	-19:50							
Water Depth (m)			8	.8							
Monitoring Depth (m)	1	.0	4								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	26.7	26.8	27.0	27.1	27.2	27.2	27.00	-			
Salinity (ppt)	16.7	16.6	26.4	28.0	30.3	30.4	24.74	-			
pH	7.4	7.4	7.4	7.5	7.5	7.5	7.45				
D.O. Saturation (%)	77.8	77.7	77.8	78.3	79.2	78.6	78.23	-			
D.O. (mg/L)	5.7	5.7	5.3	5.3	5.3	5.3	5.42	5.28			
Turbidity (NTU)	5.7	5.8	5.9	5.9	6.2	6.3	5.97	-			
SS (mg/L)	7.0	8.0	6.0	5.0	4.0	6.0	6.00	-			
Remarks		Dredging works was observed.									

Station			IV	IP							
Time (hh:mm)			19:26	-19:27							
Water Depth (m)			5	.5							
Monitoring Depth (m)	1	.0	2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	26.7	26.7	-	-	27.0	27.0	17.91	-			
Salinity (ppt)	20.9	20.3	-	-	26.4	26.9	15.74	-			
pH	7.4	7.4	-	-	7.4	7.4	4.92				
D.O. Saturation (%)	77.5	77.2	-	-	76.1	76.5	51.22	-			
D.O. (mg/L)	5.5	5.5	-	-	5.2	5.2	5.37	5.24			
Turbidity (NTU)	5.0	5.1	-	-	4.7	4.5	3.22	-			
SS (mg/L)	14.0	13.0	-	-	4.0	4.0	8.75	-			
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	101	IMO2	IMO2		MPB1	MPB2		IV	IP.
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.3	5.3	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.4	5.4	N	N	N	N	N	Ν	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.1	8.1	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	7.7	7.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	09/10/2008
Weather & Ambient Temperature	Sunny, 30C

Station			C2 (NM5)			1	
Time (hh:mm)			21:30	-21:33				
Water Depth (m)								
Monitoring Depth (m)	1	.0	7	.9	14	1.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	28.7	28.9	28.1	28.2	27.4	27.4	28.12	-
Salinity (ppt)	25.9	26.1	29.2	29.0	31.3	31.3	28.78	-
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.50	
D.O. Saturation (%)	85.8	85.0	75.2	75.3	74.0	72.8	78.02	-
D.O. (mg/L)	5.7	5.6	4.9	4.9	4.8	4.8	5.13	4.80
Turbidity (NTU)	6.2	6.4	7.1	8.2	13.0	13.1	9.00	-
SS (mg/L)	6.0	5.0	5.00	-				
Remarks			No	dredging wo	orks was obs	erved.		

Station		•	IM	101		•	Co-ore	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			14	4.3			22.21.899	113.55.220
Monitoring Depth (m)	1	.0	7	`.2	13	3.3		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	29.0	28.9	28.2	28.3	27.6	27.6	28.26	-
Salinity (ppt)	21.6	22.3	27.8	27.7	30.1	30.7	26.70	-
pH	7.5	7.5	7.5	7.5	7.5	7.6	7.51	
D.O. Saturation (%)	84.3	83.1	72.4	71.6	68.8	69.8	75.00	-
D.O. (mg/L)	5.7	5.6	4.8	4.7	4.5	4.56	4.98	4.54
Turbidity (NTU)	9.0	9.0	8.8	8.6	10.2	10.8	9.40	-
SS (mg/L)	6.0	6.0	5.0	6.0	6.0	5.0	5.67	-
Remarks		•	No	dredging wo	orks was obs	served.		•

Station			IM	02			Co-ord	dinates
Time (hh:mm)			20:18	-20:21			Northing	Easting
Water Depth (m)			12	2.6			22.21.657	113.55.903
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	29.1	29.1	28.5	28.5	27.7	27.7	28.45	-
Salinity (ppt)	23.2	22.4	26.7	26.9	31.2	29.4	26.63	-
pH	7.5	7.5	7.5	7.5	7.5	7.4	7.49	
D.O. Saturation (%)	86.2	87.1	76.9	77.3	73.3	72.9	78.95	-
D.O. (mg/L)	5.8	5.9	5.1	5.1	4.8	4.80	5.24	4.79
Turbidity (NTU)	7.8	8.0	8.3	8.2	10.3	9.7	8.72	-
SS (mg/L)	5.0	7.0	5.0	6.00	-			
Remarks			No	dredging wo	orks was obs	erved.		

Station			MF	PB1			1	
Time (hh:mm)			21:00	-21:01				
Water Depth (m)			8	.6				
Monitoring Depth (m)	1	.0	4	.3	7	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	29.5	29.4	28.4	28.4	28.3	28.4	28.74	-
Salinity (ppt)	20.0	18.5	26.9	27.0	27.8	27.6	24.63	-
pH	7.6	7.6	7.5	7.5	7.5	7.5	7.52	
D.O. Saturation (%)	88.4	86.3	75.0	74.4	77.2	78.0	79.88	-
D.O. (mg/L)	6.0	5.9	5.0	4.9	5.1	5.2	5.33	5.12
Turbidity (NTU)	7.5	8.0	7.3	7.3	7.7	8.1	7.65	-
SS (mg/L)	5.0	6.0	5.0	5.0	6.0	5.0	5.33	-
Remarks			No	dredging wo	orks was obs	erved.		

Station			MF	PB2				
Time (hh:mm)			20:50	-20:52				
Water Depth (m)			8	.8				
Monitoring Depth (m)	1	.0	4	.4	7	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	29.5	29.6	29.1	29.2	28.7	28.5	29.09	-
Salinity (ppt)	19.5	20.0	23.3	22.8	24.3	26.6	22.75	-
pH	7.6	7.5	7.5	7.5	7.4	7.4	7.50	
D.O. Saturation (%)	95.3	95.3	82.8	80.2	77.9	79.0	85.08	-
D.O. (mg/L)	6.5	6.5	5.5	5.4	5.2	5.2	5.71	5.21
Turbidity (NTU)	8.4	8.2	9.9	9.5	10.9	11.0	9.65	-
SS (mg/L)	4.0	6.0	5.0	6.0	5.0	7.0	5.50	-
Remarks		•	Nο	dredging wo	orks was obs	erved	•	

Station			IV	P							
Time (hh:mm)			21:09	-21:10							
Water Depth (m)											
Monitoring Depth (m)	1	.0	2	.7	4	.4					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	29.0	29.1	-	-	28.4	28.4	28.72	-			
Salinity (ppt)	22.1	22.0	-	-	27.0	27.0	24.52	-			
pH	7.5	7.5	-	-	7.4	7.4	7.43				
D.O. Saturation (%)	83.2	84.6	-	-	77.1	73.1	79.50	=			
D.O. (mg/L)	5.6	5.7	-	-	5.1	4.8	5.31	4.96			
Turbidity (NTU)	9.3	9.0	-	-	10.7	10.1	9.78	-			
SS (mg/L)	5.0	5.0	-	-	5.0	5.0	5.00	=			
Remarks		No dredging works was observed.									

Compliance with Action an	<u>ia Limit Lev</u>	<u>'еі</u>												
Parameter	As in	EM&A	C2*1	30%	IMO1		IM	02		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.8	4.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.1	5.1	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	11.7	NA	N	N	N	N	N	N	Ν	N	Ν	N
SS (Depth-averaged)	24.0	37.0	6.5	6.5	N	N	N	N	N	N	N	N	N	N

							-	
Station			C1 (NM3)				
Time (hh:mm)			17:08	-17:11				
Water Depth (m)			16	6.0				
Monitoring Depth (m)	1	.0	8	.0	15	5.0		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.8	28.8	28.0	28.3	27.4	27.4	28.11	-
Salinity (ppt)	25.1	24.5	29.5	28.7	31.2	31.3	28.38	-
pH	7.5	7.5	7.5	7.5	7.4	7.6	7.50	
D.O. Saturation (%)	87.1	86.6	75.3	75.8	74.7	74.1	78.93	-
D.O. (mg/L)	5.8	5.8	4.9	5.0	4.9	4.9	5.21	4.88
Turbidity (NTU)	6.2	6.2	7.0	7.1	9.8	10.5	7.80	-
SS (mg/L)	4.0	5.0	4.0	6.0	8.0	6.0	5.50	-
Remarks		,		No dred	dging works	was observe	d.	•

Station			C3 (NM6)				
Time (hh:mm)			15:51	-15:52				
Water Depth (m)			6	.8				
Monitoring Depth (m)	1	.0	3	.4	5	i.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	29.4	29.4	29.1	29.2	28.9	28.3	29.04	-
Salinity (ppt)	21.2	21.8	24.7	24.1	26.8	28.6	24.53	-
pH	7.6	7.6	7.5	7.5	7.4	7.4	7.50	
D.O. Saturation (%)	97.9	99.1	87.2	87.2	84.7	82.2	89.72	-
D.O. (mg/L)	6.6	6.7	5.8	5.8	5.6	5.4	5.98	5.50
Turbidity (NTU)	6.0	6.1	6.8	6.5	7.9	8.0	6.88	-
SS (mg/L)	6.0	5.0	5.0	5.0	6.0	6.0	5.50	-
Remarks				No dred	dging works	was observed	d.	•

Station			IM	101			Co-ordinates	3
Time (hh:mm)			16:44	-16:48			Northing	Easting
Water Depth (m)			1;	3.6			22.21.897	113.55.219
Monitoring Depth (m)	1	.0	6	5.8	12	2.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	29.0	29.0	28.4	28.3	27.6	27.6	28.29	-
Salinity (ppt)	22.9	22.4	27.5	27.7	30.2	30.2	26.82	-
pH	7.5	7.6	7.5	7.5	7.5	7.6	7.53	
D.O. Saturation (%)	84.0	84.0	73.8	73.5	72.7	70.7	76.45	-
D.O. (mg/L)	5.7	5.7	4.9	4.8	4.8	4.6	5.07	4.71
Turbidity (NTU)	8.3	8.3	8.6	8.5	11.7	11.8	9.53	-
SS (mg/L)	7.0	5.0	7.0	6.0	9.0	7.0	6.83	-
Remarks				No dred	dging works	was observed	d.	

Station			IM	02			Co-ordinates	3
Time (hh:mm)			16:55	-16:58			Northing	Easting
Water Depth (m)			11	1.6			22.21.652	113.55.899
Monitoring Depth (m)	1	.0	5	.8	10	0.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	29.2	29.2	28.4	28.5	27.7	27.7	28.45	-
Salinity (ppt)	24.0	22.4	27.0	26.7	31.2	31.2	27.08	-
pH	7.5	7.5	7.6	7.5	7.6	7.6	7.55	
D.O. Saturation (%)	86.9	87.7	74.6	74.8	70.2	71.4	77.60	-
D.O. (mg/L)	5.8	5.9	4.9	5.0	4.6	4.7	5.13	4.61
Turbidity (NTU)	7.9	8.3	9.0	9.4	12.1	11.6	9.72	-
SS (mg/L)	5.0	6.0	5.0	6.0	6.0	5.0	5.50	-
Remarks				No dred	dging works	was observe	d.	•

Station			MF	PB1						
Time (hh:mm)			16:17							
Water Depth (m)			8	3.4						
Monitoring Depth (m)	1	.0	4	.2	7	.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	29.4	29.4	28.4	28.4	28.2	28.2	28.66	-		
Salinity (ppt)	18.8	18.9	26.7	26.8	27.8	27.9	24.48	-		
pH	7.6	7.6	7.5	7.5	7.5	7.5	7.52			
D.O. Saturation (%)	86.6	88.1	73.8	74.5	77.0	76.3	79.38	-		
D.O. (mg/L)	5.9	6.0	4.9	4.9	5.1	5.0	5.31	5.07		
Turbidity (NTU)	8.1	8.1	7.8	8.0	8.4	8.3	8.12	-		
SS (mg/L)	5.0	4.0	5.0	5.0	4.0	3.0	4.33	-		
Remarks		No dredging works was observed.								

Station			MF	PB2					
Time (hh:mm)			16:08						
Water Depth (m)			8	.6					
Monitoring Depth (m)	1	.0	4	.3	7	'.6			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	29.5	29.5	29.2	29.1	28.4	28.4	29.02	-	
Salinity (ppt)	18.1	18.8	22.6	23.7	26.6	26.9	22.77	-	
pH	7.6	7.6	7.6	7.5	7.5	7.5	7.54		
D.O. Saturation (%)	92.4	92.7	84.2	83.3	78.8	79.1	85.08	-	
D.O. (mg/L)	6.3	6.3	5.6	5.6	5.2	5.2	5.72	5.24	
Turbidity (NTU)	7.5	7.6	9.7	9.4	11.7	11.5	9.57	-	
SS (mg/L)	6.0	5.0	6.0	7.0	6.0	6.0	6.00	-	
Remarks		No dredging works was observed.							

Station			N	1P				
Time (hh:mm)			16:26					
Water Depth (m)			5	i.8				
Monitoring Depth (m)	1	.0	2	.9	4	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.9	29.0	-	-	28.4	28.4	28.68	-
Salinity (ppt)	21.5	21.2	-	-	27.2	27.3	24.27	-
pH	7.5	7.5	-	-	7.4	7.4	7.46	
D.O. Saturation (%)	82.2	82.0	-	-	75.4	74.2	78.45	-
D.O. (mg/L)	5.6	5.6	-	-	5.0	4.9	5.25	4.94
Turbidity (NTU)	9.5	9.2	-	-	11.1	10.9	10.18	-
SS (mg/L)	5.0	7.0	-	-	5.0	5.0	5.50	-
Remarks	No dredging works was observed.							

Compliance with Action an	Sompliance with Action and Limit Level													
Parameter	As in	EM&A	Mean(C1-	-C3)*130%	IMO1		IMO2			MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.2	5.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.6	5.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.5	NA	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	7.2	7.2	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/10/2008
Weather & Ambient Temperature	Sunny, 29C

Station			C2 (NM5)			1				
Time (hh:mm)			9:26	-9:29			1				
Water Depth (m)											
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.6	27.5	27.4	27.4	27.4	27.4	27.45	-			
Salinity (ppt)	23.3	23.7	31.0	30.9	31.2	31.1	28.52	-			
pH	7.5	7.4	7.3	7.4	7.3	7.3	7.36				
D.O. Saturation (%)	96.0	97.1	68.2	69.2	69.7	68.7	78.15	-			
D.O. (mg/L)	6.6	6.7	4.5	4.6	4.6	4.6	5.28	4.61			
Turbidity (NTU)	3.1	3.3	6.8	6.8	9.2	9.3	6.42	-			
SS (mg/L)	4.0	6.0	6.67	-							
Remarks		No dredging works was observed.									

Station			IM	01			Co-ord	dinates		
Time (hh:mm)			10:08	-10:10			Northing	Easting		
Water Depth (m)				22.21.348	113.54.163					
Monitoring Depth (m)	1	.0		3						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.2	27.6	27.5	27.5	27.5	27.5	27.45	-		
Salinity (ppt)	23.9	23.6	29.3	29.5	30.2	30.2	27.79	-		
pH	7.5	7.5	7.4	7.4	7.4	7.4	7.40			
D.O. Saturation (%)	89.8	88.4	77.5	77.9	80.4	80.3	82.38	-		
D.O. (mg/L)	6.2	6.1	5.2	5.2	5.4	5.36	5.58	5.37		
Turbidity (NTU)	3.0	3.1	3.5	3.4	4.2	4.3	3.58	-		
SS (mg/L)	5.0	6.0	4.17	-						
Remarks		No dredging works was observed.								

Station				Co-ord	dinates						
Time (hh:mm)			10:24	-10:26			Northing	Easting			
Water Depth (m)			22.20.950	113.55.090							
Monitoring Depth (m)	1	.0	5	.1	9	.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.7	27.8	27.4	27.5	27.4	27.4	27.52	-			
Salinity (ppt)	24.8	23.8	30.1	30.1	30.1	30.1	28.17	-			
pH	7.5	7.5	7.4	7.4	7.4	7.4	7.42				
D.O. Saturation (%)	91.1	90.5	77.6	77.6	78.8	79.0	82.43	-			
D.O. (mg/L)	6.2	6.2	5.2	5.2	5.3	5.28	5.56	5.28			
Turbidity (NTU)	4.0	4.0 3.9		6.9	8.5	8.8	6.52	-			
SS (mg/L)	9.0	7.0	6.17	-							
Remarks		No dredging works was observed.									

Station			MF	PB1			1					
Time (hh:mm)			9:46	-9:47								
Water Depth (m)												
Monitoring Depth (m)	1	.0	3	.8	6	.5						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	28.0	27.8	27.3	27.3	27.3	27.3	27.49	-				
Salinity (ppt)	21.8	19.9	26.7	26.6	28.0	27.6	25.09	-				
pH	7.4	7.4	7.4	7.4	7.4	7.3	7.37					
D.O. Saturation (%)	93.1	93.2	88.4	90.1	89.1	89.1	90.50	-				
D.O. (mg/L)	6.5	6.6	6.0	6.2	6.0	6.1	6.22	6.05				
Turbidity (NTU)	4.4	4.6	5.2	5.3	6.7	6.5	5.45	-				
SS (mg/L)	4.0	5.0	5.67	-								
Remarks		No dredging works was observed.										

Station			M	PB2					
Time (hh:mm)			9:51	-9:53					
Water Depth (m)									
Monitoring Depth (m)	1	.0	.4						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	27.5	27.7	27.4	27.4	27.2	27.2	27.40	-	
Salinity (ppt)	23.6	22.9	26.4	26.4	29.6	29.7	26.43	-	
pH	7.5	7.5	7.4	7.4	7.4	7.4	7.42		
D.O. Saturation (%)	96.8	94.5	86.7	86.1	84.7	85.4	89.03	-	
D.O. (mg/L)	6.7	6.6	5.9	5.9	5.7	5.7	6.08	5.72	
Turbidity (NTU)	4.6	4.3	6.3	6.5	9.7	9.5	6.82	-	
SS (mg/L)	4.0	4.0	5.0	5.00	-				
Remarks	No dredging works was observed.								

Station			N	IP			1				
Time (hh:mm)			9:39	-9:40							
Water Depth (m)											
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.4	27.4	-	-	27.3	27.3	27.36	-			
Salinity (ppt)	24.6	25.5	-	-	27.8	27.6	26.38	-			
pH	7.4	7.4	-	-	7.3	7.4	7.35				
D.O. Saturation (%)	89.0	90.3	-	-	84.3	86.1	87.43	-			
D.O. (mg/L)	6.1	6.2	-	-	5.7	5.8	5.97	5.78			
Turbidity (NTU)	7.5	7.5	-	-	8.8	8.9	8.18	-			
SS (mg/L)	9.0	9.0	8.0	8.25	-						
Remarks		No dredging works was observed.									

Compliance with Action at	Compilance with Action and Limit Level													
Parameter	As in	EM&A	C2*1	30%	IMO1		IMO2			MPB1	MPB2		MP	
	Action Limit		Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc Exceedance of Limit Level		Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.6	4.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.3	5.3	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.3	8.3	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.7	8.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/10/2008
Weather & Ambient Temperature	Sunny, 29C

Station			C1 (NM3)								
Time (hh:mm)			16:21	-16:23								
Water Depth (m)			15	5.4								
Monitoring Depth (m)	1	.0	7									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	28.2	28.1	27.3	27.3	27.3	27.3	27.58	-				
Salinity (ppt)	29.4	29.8	31.5	31.5	31.7	31.6	30.92	-				
pH	7.4	7.4	7.4	7.4	7.4	7.3	7.38					
D.O. Saturation (%)	85.7	83.3	74.7	74.2	77.1	76.8	78.63	-				
D.O. (mg/L)	5.7	5.5	5.0	4.9	5.1	5.1	5.22	5.11				
Turbidity (NTU)	4.9	5.1	10.7	10.6	16.1	16.5	10.65	-				
SS (mg/L)	4.0	5.0	5.0	6.0	10.0	12.0	7.00	-				
Remarks		No dredging works was observed.										

Station			C3 (NM6)								
Time (hh:mm)			15:06	-15:08								
Water Depth (m)			6	.3								
Monitoring Depth (m)	1	.0	3									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.4	27.5	27.3	27.3	27.3	27.2	27.35	-				
Salinity (ppt)	26.2	26.1	27.4	27.5	27.8	28.0	27.16	-				
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.50					
D.O. Saturation (%)	100.0	100.5	99.1	99.3	99.7	99.5	99.68	-				
D.O. (mg/L)	6.8	6.9	6.7	6.8	6.8	6.8	6.78	6.76				
Turbidity (NTU)	2.8	2.7	3.8	3.6	4.6	4.9	3.73	-				
SS (mg/L)	5.0	4.0	5.0	6.0	4.0	5.0	4.83	-				
Remarks		No dredging works was observed.										

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			15:58	-16:00			Northing	Easting		
Water Depth (m)			9		22.21.366	113.54.159				
Monitoring Depth (m)	1.0 4.7 8.3				.3					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.5	27.5	27.5	27.5	27.5	27.5	27.49	-		
Salinity (ppt)	22.9	22.8	29.6	29.4	30.2	30.2	27.54	-		
pH	7.5	7.5	7.4	7.3	7.3	7.4	7.37			
D.O. Saturation (%)	95.5	93.6	78.5	80.3	82.3	83.2	85.57	-		
D.O. (mg/L)	6.6	6.5	5.3	5.4	5.5	5.6	5.80	5.53		
Turbidity (NTU)	3.0	3.1	3.2	3.1	4.2	4.2	3.47	-		
SS (mg/L)	6.0 6.0 4.0 4.0 6.0						5.00	-		
Remarks		No dredging works was observed.								

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			16:05	-16:07			Northing	Easting		
Water Depth (m)			10		22.20.965	113.55.084				
Monitoring Depth (m)	1	.0	5	.1	9	0.1				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.1	27.8	27.4	27.4	27.4	27.3	27.56	-		
Salinity (ppt)	21.4	22.8	30.0	30.1	30.1	30.2	27.41	-		
pH	7.5	7.5	7.4	7.4	7.4	7.4	7.43			
D.O. Saturation (%)	93.3	90.7	78.1	77.6	78.7	79.3	82.95	-		
D.O. (mg/L)	6.5	6.3	5.2	5.2	5.3	5.3	5.62	5.29		
Turbidity (NTU)	4.0	3.8	6.4	6.3	7.7	8.0	6.03	-		
SS (mg/L)	7.0 8.0 7.0 7.0 6.0 6.0					6.0	6.83	-		
Remarks		No dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			15:41	-15:42						
Water Depth (m)			7							
Monitoring Depth (m)	1	.0	3	.6	6	5.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.9	27.6	27.3	27.3	27.4	27.4	27.50	-		
Salinity (ppt)	20.1	21.9	26.7	27.6	28.8	28.8	25.63	-		
pH	7.4	7.4	7.4	7.4	7.3	7.3	7.35			
D.O. Saturation (%)	90.2	90.1	83.2	82.8	85.7	84.7	86.12	-		
D.O. (mg/L)	6.3	6.3	5.7	5.6	5.8	5.7	5.90	5.74		
Turbidity (NTU)	3.9	3.9	3.2	3.1	3.1	3.0	3.37	-		
SS (mg/L)	5.0	5.0	3.0	4.0	5.0	7.0	4.83	-		
Remarks		No dredging works was observed.								

Station			MF	PB2						
Time (hh:mm)			15:32	-15:34						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4	.1	7	.1				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.5	27.8	27.4	27.4	27.1	27.1	27.37	-		
Salinity (ppt)	23.5	21.0	26.0	25.8	30.8	30.9	26.31	-		
pH	7.4	7.3	7.4	7.4	7.3	7.3	7.33			
D.O. Saturation (%)	98.1	96.3	90.1	88.6	83.9	84.1	90.18	-		
D.O. (mg/L)	6.8	6.7	6.2	6.1	5.6	5.6	6.17	5.62		
Turbidity (NTU)	4.8	5.1	6.8	6.9	11.9	12.0	7.92	-		
SS (mg/L)	5.0	4.0	5.0	7.0	4.0	3.0	4.67	-		
Remarks		No dredging works was observed.								

Station			IV	IP						
Time (hh:mm)			15:48	-15:49						
Water Depth (m)			4							
Monitoring Depth (m)	1.	.0	2	.4	3	.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.1	27.6	-	-	27.4	27.4	27.59	-		
Salinity (ppt)	18.9 19.4 27.1 28.5						23.47	-		
pH	7.4 7.4 7.3 7.4						7.37			
D.O. Saturation (%)	90.2	88.9	-	-	85.1	84.9	87.28	-		
D.O. (mg/L)	6.4	6.3	-	-	5.8	5.7	6.04	5.76		
Turbidity (NTU)	5.0	4.8	6.4	5.60	-					
SS (mg/L)	6.0	6.0	6.25	-						
Remarks		No dredging works was observed.								

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	IO1	IMO2	IMO2		MPB1	MF	PB2	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.9	5.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.0	6.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.3	9.3	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	7.7	7.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	11/10/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C2 (NM5)			1	
Time (hh:mm)								
Water Depth (m)			20).4				
Monitoring Depth (m)	1	.0	10).2	19	9.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.9	27.9	27.5	27.5	27.4	27.4	27.58	-
Salinity (ppt)	24.4	24.4	30.5	30.4	30.7	30.7	28.50	-
pH	7.2	7.2	7.1	7.1	6.9	7.0	7.09	
D.O. Saturation (%)	92.3	92.3	71.7	72.0	73.8	74.8	79.48	-
D.O. (mg/L)	6.3	6.3	4.8	4.8	4.9	5.0	5.36	4.96
Turbidity (NTU)	2.3	2.5	5.1	4.9	11.9	11.6	6.38	-
SS (mg/L)	5.0	4.83	-					
Remarks			No	dredging wo	orks was obs	served.		

Station			IM	01	•		Co-ore	dinates
Time (hh:mm)			Northing	Easting				
Water Depth (m)			9	.2			22.21.629	113.55.453
Monitoring Depth (m)	1	.0	4	.6	8	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.0	28.0	27.6	27.6	27.5	27.5	27.70	-
Salinity (ppt)	22.9	22.9	25.1	25.0	30.0	30.1	26.01	-
pH	7.5	7.5	7.3	7.3	7.3	7.3	7.35	
D.O. Saturation (%)	96.4	97.0	81.1	78.6	87.8	88.9	88.30	-
D.O. (mg/L)	6.7	6.7	5.5	5.4	5.9	5.94	5.99	5.90
Turbidity (NTU)	2.6	2.5	3.7	3.5	4.8	4.9	3.67	-
SS (mg/L)	6.0	5.0	6.0	5.17	-			
Remarks		-	No	dredging wo	orks was obs	served.	•	•

Station			IM	02			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			10	0.0			22.21.332	113.55.370
Monitoring Depth (m)	1	.0	5	.0	9	.0		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.2	28.2	27.8	27.8	27.5	27.5	27.82	-
Salinity (ppt)	24.3	24.3	27.2	27.1	29.8	29.6	27.03	-
pH	7.5	7.5	7.3	7.3	7.3	7.2	7.33	
D.O. Saturation (%)	99.3	98.9	78.1	77.5	86.6	85.3	87.62	-
D.O. (mg/L)	6.8	6.7	5.2	5.2	5.8	5.71	5.90	5.74
Turbidity (NTU)	3.7	3.6	4.5	4.7	6.1	5.9	4.75	-
SS (mg/L)	7.0 9.0 7.0 6.0 7.0 7.0							-
Remarks		-	No	dredging wo	orks was obs	erved.		

Station			MF	PB1				
Time (hh:mm)								
Water Depth (m)			7	.8				
Monitoring Depth (m)	1	.0	3	.9	6	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.0	28.0	27.6	27.6	27.5	27.4	27.67	-
Salinity (ppt)	22.6	22.7	26.0	26.0	27.4	27.5	25.38	-
pH	7.1	7.2	7.2	7.2	7.1	7.2	7.18	
D.O. Saturation (%)	92.7	92.5	89.3	91.0	86.3	87.2	89.83	-
D.O. (mg/L)	6.4	6.4	6.1	6.2	5.9	5.9	6.15	5.89
Turbidity (NTU)	2.8	3.0	8.6	6.20	-			
SS (mg/L)	7.0	6.0	9.0	6.83	-			
Remarks			No	dredging wo	orks was obs	erved.		

Station			MF	PB2						
Time (hh:mm)										
Water Depth (m)										
Monitoring Depth (m)	1	.0	4	.5	8	.0				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.9	28.0	27.6	27.6	27.2	27.2	27.58	-		
Salinity (ppt)	22.1	22.1	24.9	24.8	30.0	29.9	25.66	-		
pH	7.4	7.3	7.3	7.3	7.3	7.2	7.31			
D.O. Saturation (%)	100.6	100.6	92.6	93.4	86.8	87.5	93.58	-		
D.O. (mg/L)	6.9	7.0	6.4	6.4	5.8	5.9	6.39	5.85		
Turbidity (NTU)	2.7	2.5	3.8	4.0	7.8	7.5	4.72	-		
SS (mg/L)	4.0	4.0 4.0 5.0 5.0 6.0 6.0 5.00								
Remarks		No dredging works was observed.								

Station			IV	IP			1	
Time (hh:mm)			8:29	-8:30				
Water Depth (m)								
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	28.1	28.1	-	-	27.5	27.5	27.77	-
Salinity (ppt)	21.9	22.0	-	-	26.6	26.7	24.29	-
pH	7.1	7.1	-	-	7.1	7.1	7.09	
D.O. Saturation (%)	91.7	90.8	-	-	89.7	90.0	90.55	-
D.O. (mg/L)	6.3	6.3	-	-	6.1	6.1	6.23	6.12
Turbidity (NTU)	3.7	3.5	-	-	8.3	7.9	5.85	-
SS (mg/L)	7.0	6.0	-	-	10.0	9.0	8.00	-
Remarks	No dredging works was observed.							

Compliance with Action an	ia Liiiii Lev	<u>eı</u>												
Parameter	As in	EM&A	C2*1	30%	IM	IMO1		02		MPB1		MPB2		(P
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.0	5.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.4	5.4	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.3	8.3	N	N	N	Z	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	6.3	6.3	N	N	N	N	N	N	N	N	N	N

Station			C1 (NM3)						
Time (hh:mm)			17:49	-17:51						
Water Depth (m)			15	5.8						
Monitoring Depth (m)	1	.0	7	'.9	14	4.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.4	28.4	27.8	27.9	27.5	27.4	27.88	-		
Salinity (ppt)	29.1	29.1	30.6	30.5	31.0	30.9	30.19	-		
pH	7.3	7.3	7.3	7.3	7.3	7.2	7.27			
D.O. Saturation (%)	93.5	92.3	78.8	79.3	86.7	87.7	86.38	-		
D.O. (mg/L)	6.2	6.1	5.2	5.75	5.83					
Turbidity (NTU)	4.7	4.7	3.6	3.3	7.8	7.5	5.27	-		
SS (mg/L)	8.0	8.0	7.0	6.0	5.0	7.0	6.83	-		
Remarks		Dredging works was observed.								

Station			C3 (NM6)						
Time (hh:mm)			16:27	'-16:30						
Water Depth (m)			6							
Monitoring Depth (m)	1	.0	3							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.0	28.1	27.6	27.6	27.4	27.4	27.68	-		
Salinity (ppt)	23.4	23.4	27.7	27.8	28.6	28.6	26.57	-		
pH	7.4	7.3	7.3	7.3	7.2	7.3	7.29			
D.O. Saturation (%)	100.1	101.3	98.7	98.4	96.7	97.1	98.72	-		
D.O. (mg/L)	6.9	6.9	6.7	6.7	6.5	6.6	6.71	6.55		
Turbidity (NTU)	3.8	4.1	3.9	4.2	6.8	6.5	4.88	-		
SS (mg/L)	4.0	5.0	6.0	6.0	6.0	7.0	5.67	-		
Remarks		Dredging works was observed.								

Station			IIV	101			Co-ordinate	s		
Time (hh:mm)			17:16	5-17:18			Northing	Easting		
Water Depth (m)			g	9.8			22.21.635	113.55.446		
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.3	28.2	27.7	27.7	27.6	27.6	27.87	-		
Salinity (ppt)	22.6	22.7	29.2	29.2	30.0	29.9	27.26	-		
pH	7.4	7.4	7.2	7.3	7.1	7.2	7.26			
D.O. Saturation (%)	96.3	94.6	77.4	78.2	84.4	84.7	85.93	-		
D.O. (mg/L)	6.6	6.5	5.2	5.2	5.6	5.7	5.81	5.65		
Turbidity (NTU)	2.7	2.8	4.9	4.8	6.5	6.2	4.65	-		
SS (mg/L)	6.0	6.0	5.0	5.0	6.0	5.0	5.50	-		
Remarks		Dredging works was observed.								

Station			IIV	102			Co-ordinate	es
Time (hh:mm)			17:29	-17:31			Northing	Easting
Water Depth (m)			10	22.21.326	113.55.373			
Monitoring Depth (m)	1	.0	5					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.3	28.3	27.7	27.7	27.6	27.6	27.87	-
Salinity (ppt)	23.8	24.0	30.0	30.1	30.2	30.2	28.08	-
pH	7.4	7.4	7.2	7.2	7.2	7.2	7.26	
D.O. Saturation (%)	99.8	98.8	77.7	76.0	84.5	84.3	86.85	-
D.O. (mg/L)	6.8	6.8	5.2	5.1	5.6	5.6	5.85	5.63
Turbidity (NTU)	2.7	2.6	5.1	5.2	5.6	5.8	4.50	-
SS (mg/L)	5.0	7.0	6.0	6.0	6.0	8.0	6.33	-
Remarks	Dredging works was observed.							

Station			MF	PB1						
Time (hh:mm)			16:56	-16:58						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.8	27.8	27.6	27.6	27.6	27.5	27.67	-		
Salinity (ppt)	22.3	22.2	26.1	26.0	29.5	29.3	25.89	-		
pH	7.3	7.2	7.3	7.2	7.2	7.2	7.22			
D.O. Saturation (%)	81.4	82.4	80.5	79.9	78.7	78.9	80.30	-		
D.O. (mg/L)	5.7	5.8	5.5	5.5	5.3	5.3	5.49	5.31		
Turbidity (NTU)	4.2	3.9	13.5	12.8	8.2	8.5	8.52	-		
SS (mg/L)	5.0	5.0	14.0	12.0	9.0	9.0	9.00	-		
Remarks		Dredging works was observed.								

Mid-Flood

Station			MF	PB2					
Time (hh:mm)			16:45	-16:48					
Water Depth (m)			9						
Monitoring Depth (m)	1	.0	4	.4					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	28.0	28.0	27.8	27.7	27.3	27.3	27.69	-	
Salinity (ppt)	22.6	22.8	24.4	24.5	30.7	30.9	25.97	-	
pH	7.2	7.2	7.2	7.2	7.2	7.1	7.19		
D.O. Saturation (%)	92.5	93.9	90.1	89.5	83.1	84.3	88.90	-	
D.O. (mg/L)	6.4 6.5 6.2 6.1 5.6 5.6						6.06	5.59	
Turbidity (NTU)	3.9	4.0	4.3	4.4	7.5	7.2	5.22	-	
SS (mg/L)	4.0 6.0 6.0 7.0 6.0 5.0						5.67	-	
Remarks		Dredging works was observed.							

Station			N	1P				
Time (hh:mm)			17:03	-17:05				
Water Depth (m)			5					
Monitoring Depth (m)	1	.0	2	.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.6	27.6	-	-	27.6	27.6	27.60	-
Salinity (ppt)	27.2	27.1	-	-	28.4	28.4	27.74	-
pH	7.2	7.2	-	-	7.2	7.2	7.19	
D.O. Saturation (%)	79.5	79.1	-	-	81.5	82.1	80.55	-
D.O. (mg/L)	5.4	5.4	-	-	5.5	5.5	5.46	5.53
Turbidity (NTU)	4.9	4.7	-	-	5.3	5.0	4.98	-
SS (mg/L)	6.0	5.0	5.50	-				
Remarks	Dredging works was observed.							

Compliance with	A -4!	and Limit Lavel	
Compliance with	Action	and Limit Level	

Compliance with Action an	a Lillil Lev	ei												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IMO1		IMO2			MPB1		MPB2		IP.
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedance	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	6.2	6.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.2	6.2	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	6.6	6.6	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.1	8.1	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/10/2008
Weather & Ambient Temperature	Cloudy, 29C

Station			C2 (NM5)			1	
Time (hh:mm)			- '	-11:56				
Water Depth (m)								
Monitoring Depth (m)	1	.0	9	.6	18	3.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.1	28.1	27.5	27.9	27.3	27.4	27.71	-
Salinity (ppt)	28.9	29.1	29.2	30.0	31.0	31.1	29.88	-
pH	7.6	7.7	7.6	7.6	7.6	7.6	7.61	
D.O. Saturation (%)	92.3	91.3	84.1	83.6	81.9	84.2	86.23	-
D.O. (mg/L)	6.1	6.1	5.6	5.6	5.5	5.6	5.74	5.53
Turbidity (NTU)	5.5	5.3	5.8	5.8	17.5	17.3	9.53	-
SS (mg/L)	11.0	10.0	9.33	-				
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	01			Co-ord	dinates
Time (hh:mm)			11:02	-11:04			Northing	Easting
Water Depth (m)				22.21.830	113.54.722			
Monitoring Depth (m)	1	.0	9	.9	18	3.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.5	27.5	27.5	27.4	27.4	27.4	27.45	-
Salinity (ppt)	27.7	27.7	28.5	28.6	30.5	30.4	28.90	-
pH	7.6	7.6	7.5	7.5	7.4	7.4	7.49	
D.O. Saturation (%)	100.2	101.9	89.5	91.1	83.5	84.4	91.77	-
D.O. (mg/L)	6.8	6.9	6.0	6.1	5.6	5.64	6.18	5.61
Turbidity (NTU)	3.0	2.7	4.1	4.1	6.9	6.7	4.58	-
SS (mg/L)	5.0	5.0	5.17	-				
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			10:52	-10:54			Northing	Easting
Water Depth (m)				21.22.264	113.53.690			
Monitoring Depth (m)	1	.0	9	.3	17	7.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.6	27.6	27.4	27.4	27.4	27.4	27.46	-
Salinity (ppt)	27.1	27.9	28.8	28.8	30.2	30.1	28.80	-
pH	7.6	7.6	7.5	7.5	7.4	7.4	7.50	
D.O. Saturation (%)	100.4	97.2	88.1	88.3	84.7	85.7	90.73	-
D.O. (mg/L)	6.8	6.6	5.9	6.0	5.7	5.73	6.11	5.70
Turbidity (NTU)	2.9	3.1	4.5	4.2	4.6	4.8	4.02	-
SS (mg/L)	5.0	6.0	9.0	6.33	-			
Remarks			D	redging wor	ks was obse	rved.	•	

Station			MF	PB1			1	
Time (hh:mm)			11:27	-11:29				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.1	7	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.6	27.6	27.5	27.5	27.4	27.4	27.49	-
Salinity (ppt)	27.7	27.7	28.2	28.2	28.8	28.9	28.23	-
pH	7.7	7.7	7.7	7.6	7.6	7.6	7.65	
D.O. Saturation (%)	101.9	102.1	96.9	94.9	96.9	93.7	97.73	-
D.O. (mg/L)	6.9	6.9	6.5	6.4	6.5	6.3	6.60	6.42
Turbidity (NTU)	2.6	2.7	3.0	3.2	4.4	4.1	3.33	-
SS (mg/L)	8.0	8.0	6.0	6.00	-			
Remarks		-	D	redging wor	ks was obse	rved.		

Station			M	PB2						
Time (hh:mm)										
Water Depth (m)			8	3.8						
Monitoring Depth (m)	1	.0	4	.4	7	.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.6	27.6	27.5	27.5	27.4	27.4	27.51	-		
Salinity (ppt)	27.6	28.1	28.6	28.7	28.7	28.8	28.42	-		
pH	7.6	7.6	7.5	7.5	7.5	7.5	7.54			
D.O. Saturation (%)	100.5	97.1	96.6	94.0	96.6	96.4	96.87	-		
D.O. (mg/L)	6.8	6.5	6.5	6.3	6.5	6.5	6.53	6.50		
Turbidity (NTU)	3.6	3.4	3.9	4.0	4.3	4.1	3.88	-		
SS (mg/L)	5.0	5.0	7.0	7.0	7.0	5.0	6.00	-		
Remarks		Dredging works was observed.								

Station			N	IP			1				
Time (hh:mm)			11:37	-11:38							
Water Depth (m)											
Monitoring Depth (m)	1	.0	2	.7	4	.3					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.5	27.6	-	-	27.5	27.5	27.51	-			
Salinity (ppt)	27.8	27.7	-	-	28.2	28.3	28.00	-			
pH	7.7	7.7	-	-	7.7	7.7	7.71				
D.O. Saturation (%)	101.5	107.4	-	-	104.7	102.2	103.95	-			
D.O. (mg/L)	6.9	7.3	-	-	7.1	6.9	7.02	6.99			
Turbidity (NTU)	2.7	2.9	-	-	2.7	2.9	2.80	-			
SS (mg/L)	9.0	9.0	6.0		-						
Remarks		Dredging works was observed.									

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	130%)% IMO1		IM	02	MPB1		MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan Exceedanc Exceedanc Exceedanc		Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan		
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.5	5.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.7	5.7	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	12.4	12.4	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	12.1	12.1	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/10/2008
Weather & Ambient Temperature	Cloudy, 28C

Station			C1 (NM3)							
Time (hh:mm)			18:01								
Water Depth (m)			16								
Monitoring Depth (m)	1	.0	8								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.1	28.1	27.6	28.0	27.4	27.4	27.74	-			
Salinity (ppt)	27.1	29.2	29.3	30.1	30.7	30.5	29.46	-			
pH	7.6	7.5	7.5	7.5	7.5	7.5	7.52				
D.O. Saturation (%)	92.6	94.5	84.7	85.4	87.4	84.6	88.20	-			
D.O. (mg/L)	6.2	6.3	5.7	5.7	5.8	5.7	5.89	5.74			
Turbidity (NTU)	5.8	6.2	5.9	6.1	12.6	12.4	8.17	-			
SS (mg/L)	8.0	10.0	9.0	8.0	8.0	7.0	8.33	-			
Remarks		Dredging works was observed.									

Station			C3 (NM6)							
Time (hh:mm)			16:46	-16:47							
Water Depth (m)			6								
Monitoring Depth (m)	1	.0	3	.3	5	i.6					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.2	28.1	28.3	28.2	28.0	28.0	28.12	-			
Salinity (ppt)	27.6	28.9	29.9	28.6	30.0	29.4	29.07	-			
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.57				
D.O. Saturation (%)	91.7	92.0	89.7	91.4	90.3	92.8	91.32	-			
D.O. (mg/L)	6.1	6.1	5.9	6.1	6.0	6.2	6.07	6.08			
Turbidity (NTU)	5.1	4.9	5.2	5.1	5.7	5.9	5.32	-			
SS (mg/L)	8.0	8.0	8.0	8.0	8.33	-					
Remarks		Dredging works was observed.									

Station			IM	01			Co-ordinate	s			
Time (hh:mm)			17:11	-17:13			Northing	Easting			
Water Depth (m)			19		22.21.833	113.54.726					
Monitoring Depth (m)	1	.0	9								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.6	27.6	27.4	27.4	27.4	27.4	27.45	-			
Salinity (ppt)	27.7	27.7	28.9	28.8	30.7	29.7	28.90	-			
pH	7.7	7.7	7.7	7.7	7.6	7.6	7.65				
D.O. Saturation (%)	102.0	98.9	87.8	87.6	83.7	84.3	90.72	-			
D.O. (mg/L)	6.9	6.7	5.9	5.9	5.6	5.7	6.10	5.62			
Turbidity (NTU)	2.9	3.0	5.3	5.7	6.4	6.8	5.02	-			
SS (mg/L)	6.0	6.0	5.0	5.0	5.33	-					
Remarks		Dredging works was observed.									

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			17:00	-17:02			Northing	Easting		
Water Depth (m)			18		22.21.266	113.56.692				
Monitoring Depth (m)	1	.0	9							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.6	27.6	27.4	27.4	27.4	27.4	27.46	-		
Salinity (ppt)	27.1	25.5	29.0	28.8	29.7	30.0	28.34	-		
pH	7.6	7.6	7.5	7.5	7.4	7.4	7.50			
D.O. Saturation (%)	102.8	105.1	83.5	85.0	85.7	82.6	90.78	-		
D.O. (mg/L)	7.0	7.2	5.6	5.7	5.8	5.5	6.13	5.64		
Turbidity (NTU)	3.2	3.5	4.7	4.7	5.3	5.1	4.42	-		
SS (mg/L)	7.0	6.0	7.0	5.0	6.17	-				
Remarks		Dredging works was observed.								

Station			MF	PB1				
Time (hh:mm)			17:36	-17:38				
Water Depth (m)			7	.8				
Monitoring Depth (m)	1	.0	3	.9	6	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.6	27.6	27.5	27.5	27.4	27.4	27.50	-
Salinity (ppt)	27.3	26.7	28.2	27.5	27.7	28.5	27.65	-
pH	7.8	7.8	7.7	7.7	7.7	7.7	7.73	
D.O. Saturation (%)	103.6	106.3	99.6	100.6	101.2	105.7	102.83	-
D.O. (mg/L)	7.0	7.2	6.7	6.8	6.9	7.1	6.96	7.00
Turbidity (NTU)	2.8	2.6	2.7	2.7	2.8	2.8	2.73	-
SS (mg/L)	4.0	5.0	5.0	6.0	5.0	6.0	5.17	-
Remarks				Dredging	works was	observed.		

Station			MF	PB2							
Time (hh:mm)			17:25	-17:27							
Water Depth (m)			8	.4							
Monitoring Depth (m)	1	.0	4	.4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.6	27.6	27.5	27.5	27.4	27.4	27.52	-			
Salinity (ppt)	27.5	27.5	28.6	28.6	28.8	28.7	28.29	-			
pH	7.6	7.6	7.6	7.5	7.5	7.5	7.54				
D.O. Saturation (%)	100.5	100.0	96.1	94.3	95.9	96.5	97.22	-			
D.O. (mg/L)	6.8	6.8	6.5	6.4	6.5	6.5	6.55	6.48			
Turbidity (NTU)	2.9	2.8	3.8	4.0	4.5	4.9	3.82	-			
SS (mg/L)	6.0	8.0	6.0	7.0	6.0	6.0	6.50	-			
Remarks		Dredging works was observed.									

Station			IV	IP								
Time (hh:mm)			17:46	-17:47								
Water Depth (m)			5									
Monitoring Depth (m)	1	.0	2	.0								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.6	27.6	-	-	27.5	27.4	27.53	-				
Salinity (ppt)	27.7	27.7	-	-	27.5	26.3	27.29	-				
pH	7.8	7.8	-	-	7.7	7.7	7.75					
D.O. Saturation (%)	107.0	105.2	-	-	103.7	102.4	104.58	-				
D.O. (mg/L)	7.2	7.1	-	-	7.0	7.0	7.09	7.01				
Turbidity (NTU)	2.7	2.7	-	-	3.4	3.1	2.98	-				
SS (mg/L)	6.0	4.0	-	-	5.0	5.0	5.00	-				
Remarks		Dredging works was observed.										

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IMO1		IMO2	IMO2		MPB1		MPB2		/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.9	5.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.0	6.0	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.8	8.8	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	10.8	10.8	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/13/08
Weather & Ambient Temperature	Sunny, 29C

Station			C2 (NM5)			1	
Time (hh:mm)			12:05	-12:07				
Water Depth (m)			20	0.8				
Monitoring Depth (m)	1	.0	10).4	19	9.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	26.0	25.3	25.8	25.7	25.6	25.6	25.66	-
Salinity (ppt)	27.9	28.4	28.7	28.7	29.1	29.1	28.65	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	88.3	90.9	90.9	89.3	90.8	88.4	89.77	-
D.O. (mg/L)	7.4	7.7	7.6	7.5	7.6	7.4	7.52	7.50
Turbidity (NTU)	4.5	4.4	2.7	3.2	7.6	7.7	5.02	-
SS (mg/L)	6.0	7.0	7.0	7.0	5.0	6.0	6.33	-
Remarks		•	No	dredging wo	orks was obs	erved.	•	

Station			IM	01			Co-ore	dinates				
Time (hh:mm)			12:22	-12;24			Northing	Easting				
Water Depth (m)			10).4			22.20.852	113.53.687				
Monitoring Depth (m)	1	.0	5	.2	9	.4		-				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	25.5	25.6	25.5	25.5	25.5	25.5	25.54	-				
Salinity (ppt)	29.5	29.3	29.5	29.5	24.9	29.5	28.69	-				
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99					
D.O. Saturation (%)	89.1	89.3	87.0	90.1	92.2	90.4	89.68	-				
D.O. (mg/L)	7.4	7.5	7.3	7.5	7.9	7.55	7.53	7.74				
Turbidity (NTU)	6.1	6.8	10.5	10.8	10.7	10.7	9.27	-				
SS (mg/L)	8.0	7.0	7.0	6.0	4.0	4.0	6.00	-				
Remarks		No dredging works was observed.										

Station			IM	02			Co-ord	dinates
Time (hh:mm)			12:36	-12:37			Northing	Easting
Water Depth (m)			11	1.2			22.21.561	113.54.456
Monitoring Depth (m)	1	.0	5	.6	10).2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	25.6	25.7	25.5	25.5	25.5	25.5	25.56	-
Salinity (ppt)	29.3	29.3	29.5	29.5	29.7	29.6	29.49	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	88.0	88.2	89.9	88.3	90.5	89.6	89.08	-
D.O. (mg/L)	7.4	7.4	7.5	7.4	7.6	7.48	7.44	7.52
Turbidity (NTU)	5.2	4.9	9.1	8.9	9.9	9.6	7.93	-
SS (mg/L)	5.0	6.0	8.0	6.0	8.0	6.0	6.50	-
Remarks			No	dredging wo	orks was obs	erved.	•	

Station			MF	PB1			1	
Time (hh:mm)			11:39	-11:40				
Water Depth (m)								
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	25.8	25.8	25.8	25.8	25.8	25.8	25.82	-
Salinity (ppt)	28.2	28.3	28.8	28.3	28.3	28.2	28.36	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	89.4	89.0	89.8	88.7	88.6	89.2	89.12	-
D.O. (mg/L)	7.5	7.5	7.7	7.4	7.4	7.5	7.49	7.44
Turbidity (NTU)	5.0	5.2	5.2	5.1	5.4	5.7	5.27	-
SS (mg/L)	7.0	7.0	7.0	6.0	6.0	6.0	6.50	-
Remarks			No	dredging wo	orks was obs	served.		

Station			MF	PB2								
Time (hh:mm)			11:30	-11:31								
Water Depth (m)												
Monitoring Depth (m)	1	.0	1.1									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
							averaged					
Water Temperature (°C)	25.7	25.7	25.7	25.7	25.7	25.7	25.69	-				
Salinity (ppt)	28.1	28.5	28.4	28.5	28.5	28.3	28.37	-				
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98					
D.O. Saturation (%)	90.4	89.6	89.6	89.3	89.7	90.2	89.80	-				
D.O. (mg/L)	7.6	7.5	7.5	7.5	7.5	7.6	7.53	7.54				
Turbidity (NTU)	6.2	6.4	5.9	6.5	6.4	6.4	6.30	-				
SS (mg/L)	6.0	7.0	5.0	6.0	6.0	8.0	6.33	-				
Remarks		No dredging works was observed.										

Station			N	/IP				
Time (hh:mm)			11:48	-11:49				
Water Depth (m)								
Monitoring Depth (m)	1	.0	2	9	4	.7		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	25.9	25.9	-	-	25.9	25.9	25.89	-
Salinity (ppt)	27.8	27.8	-	-	27.8	27.9	27.83	-
pH	7.9	7.9	-	-	7.9	7.9	7.93	
D.O. Saturation (%)	88.9	89.1	-	-	88.2	88.5	88.68	-
D.O. (mg/L)	7.5	7.5	-	-	7.4	7.4	7.43	7.41
Turbidity (NTU)	3.7	3.8	-	-	4.7	4.7	4.23	-
SS (mg/L)	6.0	7.0	-	-	9.0	8.0	7.50	-
Remarks		•	No	dredging wo	orks was obs	served.	•	

Compliance with Action an	id Limit Lev	el												
Parameter	As in	EM&A	C2*1	C2*130%		IMO1		IMO2		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan Exceedan		Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	7.5	7.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.5	7.5	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	6.5	6.5	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.2	8.2	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/13/08
Weather & Ambient Temperature	Cloudy, 28C

Station			C1 (NM3)				
Time (hh:mm)			16:48					
Water Depth (m)			16	6.1				
Monitoring Depth (m)	1	.0	8					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	26.0	26.0	25.8	25.8	25.7	25.7	25.83	-
Salinity (ppt)	27.8	27.9	28.6	28.6	28.9	28.9	28.44	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	88.4	88.9	88.1	87.7	88.2	88.3	88.27	-
D.O. (mg/L)	7.4	7.4	7.4	7.3	7.4	7.4	7.38	7.38
Turbidity (NTU)	4.6	5.2	6.8	6.8	6.4	6.1	5.98	-
SS (mg/L)	7.0	6.0	6.0	7.0	5.0	6.0	6.17	-
Remarks				as observed.				

Station			C3 (NM6)										
Time (hh:mm)			18:10											
Water Depth (m)			6	.8										
Monitoring Depth (m)	1	.0	3	.4	5	.8								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom						
Water Temperature (°C)	25.6	25.6	25.6	25.6	25.6	25.6	25.61	-						
Salinity (ppt)	28.7	28.6	28.6	28.7	28.8	28.6	28.66	-						
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99							
D.O. Saturation (%)	93.6	94.7	95.6	93.6	97.3	93.6	94.73	-						
D.O. (mg/L)	7.8	7.9	8.0	7.8	8.1	7.8	7.93	7.99						
Turbidity (NTU)	6.3	6.2	6.6	6.6	7.2	7.1	6.67	-						
SS (mg/L)	4.0	5.0	6.0	5.0	5.0	4.0	4.83	-						
Remarks				Dredging works was observed.										

Station			IM	01			Co-ordinates	5
Time (hh:mm)			17:11		Northing	Easting		
Water Depth (m)			11		22.21.559	113.54.468		
Monitoring Depth (m)	1	.0	5					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	25.7	25.7	25.5	25.5	25.5	25.5	25.56	-
Salinity (ppt)	29.3	29.2	29.5	29.5	27.7	29.6	29.11	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	89.3	88.8	89.2	86.7	89.2	88.7	88.65	-
D.O. (mg/L)	7.5	7.4	7.5	7.3	7.5	7.4	7.42	7.48
Turbidity (NTU)	6.3	6.3	11.2	11.8	11.7	11.3	9.77	-
SS (mg/L)	9.0	9.0	7.0	8.0	6.0	7.0	7.67	-
Remarks				Dredo	ging works w	as observed.		

Station			IM	02			Co-ordinate:	3		
Time (hh:mm)			17:00	-17:02		Northing	Easting			
Water Depth (m)			11		22.21.223	113.54.829				
Monitoring Depth (m)	1	.0	5	0.6						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	25.7	25.6	25.5	25.5	25.5	25.5	25.55	-		
Salinity (ppt)	29.3	29.3	28.5	29.5	29.6	29.6	29.29	-		
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99			
D.O. Saturation (%)	89.9	89.0	88.1	88.6	89.1	89.3	89.00	-		
D.O. (mg/L)	7.5	7.4	7.4	7.4	7.4	7.5	7.44	7.45		
Turbidity (NTU)	4.5	4.8	8.5	8.3	7.2	7.0	6.72	-		
SS (mg/L)	5.0	5.0	7.0	5.0	6.0	6.0	5.67	-		
Remarks		Dredging works was observed.								

Station			MF					
Time (hh:mm)			17:38					
Water Depth (m)			8	.3				
Monitoring Depth (m)	1	.0	4	.2	7	.3		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	25.8	25.8	25.8	25.8	25.8	25.8	25.82	-
Salinity (ppt)	28.3	25.5	28.4	28.3	28.7	28.3	27.91	-
pH	8.0	8.0	8.0	8.0	7.9	8.0	7.96	
D.O. Saturation (%)	90.9	89.4	91.5	89.8	93.6	90.7	90.98	-
D.O. (mg/L)	7.6	7.6	7.7	7.5	7.8	7.6	7.63	7.70
Turbidity (NTU)	11.0	11.1	11.8	11.3	11.1	11.7	11.33	-
SS (mg/L)	5.0	5.0	5.0	5.0	5.0	6.0	5.17	-
Remarks				Dredging	works was	observed.		

Station			MF	B2								
Time (hh:mm)			17:49									
Water Depth (m)			8	.7								
Monitoring Depth (m)	1	.0	4	.4	7	.7						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	25.7	25.7	25.7	25.7	25.7	25.7	25.69	-				
Salinity (ppt)	28.5	28.5	28.4	28.5	28.5	28.4	28.44	-				
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98					
D.O. Saturation (%)	90.0	90.5	91.0	89.8	90.4	91.8	90.58	-				
D.O. (mg/L)	7.5	7.6	7.6	7.5	7.6	7.7	7.59	7.63				
Turbidity (NTU)	10.2	10.1	10.5	10.8	10.5	10.6	10.45	-				
SS (mg/L)	7.0	5.0	5.0	4.0	8.0	7.0	6.00	-				
Remarks		Dredging works was observed.										

Station			IV	IP							
Time (hh:mm)			17:29								
Water Depth (m)			5	.6							
Monitoring Depth (m)	1.	.0	2	.8	4	.6					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	25.9	25.9	-	-	25.9	25.9	25.93	-			
Salinity (ppt)	27.8	27.8	-	-	28.2	27.8	27.91	-			
pH	7.9	7.9	-	-	7.9	7.9	7.91				
D.O. Saturation (%)	92.1	90.0	-	-	93.9	89.1	91.28	-			
D.O. (mg/L)	7.7	7.5	-	-	7.8	7.5	7.64	7.65			
Turbidity (NTU)	6.6	6.6	-	-	7.5	7.7	7.10	-			
SS (mg/L)	6.0	4.0	-	-	5.0	4.0	4.75	-			
Remarks		Dredging works was observed.									

Compliance with Action an	<u>d Limit Lev</u>	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	101	IMO2			MPB1	MPB2		IV	IP.
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	7.7	7.7	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.7	7.7	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.2	8.2	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	7.2	7.2	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/14/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C2 (NM5)			1	
Time (hh:mm)								
Water Depth (m)			19	9.2				
Monitoring Depth (m)	1	.0	9	.6	18	3.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.5	28.6	28.4	28.3	27.9	27.8	28.24	-
Salinity (ppt)	28.6	28.5	29.5	29.5	30.9	31.0	29.66	-
pH	7.7	7.7	7.7	7.7	7.6	7.7	7.66	
D.O. Saturation (%)	83.8	82.9	79.6	77.8	74.0	76.3	79.07	-
D.O. (mg/L)	5.6	5.5	5.3	5.2	4.9	5.1	5.27	5.01
Turbidity (NTU)	5.6	5.6	7.6	7.2	11.2	11.1	8.05	-
SS (mg/L)	8.0	8.0	7.0	8.0	9.0	8.0	8.00	-
Remarks			No	dredging wo	orks was obs	erved.		

Station			IM	01			Co-ore	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			13	3.6			22.21.555	113.54.280
Monitoring Depth (m)	1	.0	2.6		-			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.3	28.3	28.3	28.2	28.2	28.1	28.23	-
Salinity (ppt)	24.6	24.6	29.3	29.4	29.7	29.9	27.92	-
pH	7.6	7.6	7.6	7.6	7.7	7.6	7.62	
D.O. Saturation (%)	80.1	80.7	77.1	76.5	76.3	75.8	77.75	-
D.O. (mg/L)	5.5	5.5	5.2	5.1	5.1	5.06	5.24	5.08
Turbidity (NTU)	6.2	6.2	7.8	7.7	10.5	10.7	8.18	-
SS (mg/L)	6.0	6.0	10.0	7.67	-			
Remarks			No	dredging wo	orks was obs	served.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			14	1.8			22.21.192	113.55.055
Monitoring Depth (m)	1	.0	7	.4	13	3.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.1	28.1	27.9	28.1	27.8	27.8	27.98	-
Salinity (ppt)	26.7	26.7	30.2	29.9	30.9	30.7	29.17	-
pH	7.6	7.6	7.7	7.7	7.7	7.7	7.66	
D.O. Saturation (%)	76.7	78.0	71.9	74.3	73.2	71.8	74.32	-
D.O. (mg/L)	5.2	5.3	4.8	5.0	4.9	4.80	5.00	4.84
Turbidity (NTU)	7.3	7.2	8.6	8.7	11.1	11.0	8.98	-
SS (mg/L)	8.0	8.0	8.0	8.33	-			
Remarks		-	No	dredging wo	orks was obs	erved.	-	

Station			MF	PB1			1	
Time (hh:mm)			12:38	-12:40				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.2	7	'.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	28.4	28.6	28.3	28.3	28.2	28.1	28.32	-
Salinity (ppt)	20.6	20.3	25.1	24.8	27.8	27.3	24.31	-
pH	7.4	7.4	7.6	7.5	7.5	7.5	7.49	
D.O. Saturation (%)	76.9	78.1	73.9	73.7	74.0	72.8	74.90	-
D.O. (mg/L)	5.4	5.5	5.0	5.0	5.0	4.9	5.13	4.96
Turbidity (NTU)	6.3	6.6	7.1	7.0	7.5	7.6	7.02	-
SS (mg/L)	8.0	9.0	10.0	8.50	-			
Remarks			No	dredging wo	orks was obs	served.		

Station			M	PB2							
Time (hh:mm)											
Water Depth (m)			g	.2							
Monitoring Depth (m)	1	.0	4	.6	8	.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	28.6	28.5	28.3	28.3	28.3	28.3	28.36	-			
Salinity (ppt)	18.5	20.5	27.1	24.8	28.0	27.7	24.44	-			
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.57				
D.O. Saturation (%)	77.1	77.6	75.0	74.9	75.4	75.9	75.98	-			
D.O. (mg/L)	5.4	5.4	5.1	5.1	5.1	5.1	5.20	5.08			
Turbidity (NTU)	6.8	6.8	6.7	6.6	7.1	6.9	6.82	-			
SS (mg/L)	9.0	10.0	10.0	8.0	8.0	8.0	8.83	-			
Remarks		No dredging works was observed.									

Station			IV	IP			1				
Time (hh:mm)			12:49	-12:50							
Water Depth (m)			5	.7							
Monitoring Depth (m)	1	.0	2	.9	4	.7					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	28.5	28.5	-	-	28.2	28.2	28.33	-			
Salinity (ppt)	20.1	19.8	-	-	25.5	24.7	22.56	-			
pH	7.4	7.5	-	-	7.5	7.4	7.45				
D.O. Saturation (%)	77.9	77.2	-	-	75.7	78.4	77.30	-			
D.O. (mg/L)	5.5	5.4	-	-	5.2	5.4	5.35	5.27			
Turbidity (NTU)	9.3	9.3	-	-	9.5	9.6	9.43	-			
SS (mg/L)	7.0	9.0	6.0	7.50	-						
Remarks		No dredging works was observed.									

Compliance with Action an	10 Limit Lev	<u>ei</u>												
Parameter	As in	EM&A	C2*1	30%	% IMO1		IMO2		MPB1		MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.0	5.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.3	5.3	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	10.5	10.5	N	N	N	N	N	N	Ν	N	Ν	N
SS (Depth-averaged)	24.0	37.0	10.4	10.4	N	N	N	N	N	N	Ν	N	Ν	N

Sampling Date	10/14/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C1 (NM3)				
Time (hh:mm)			17:48					
Water Depth (m)			16	6.4				
Monitoring Depth (m)	1	.0	8	3.2	15	5.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.6	28.6	28.4	28.4	28.0	27.9	28.33	-
Salinity (ppt)	28.5	28.5	29.3	29.3	30.6	30.9	29.51	-
pH	7.6	7.7	7.7	7.7	7.7	7.7	7.66	
D.O. Saturation (%)	82.7	83.8	77.4	78.0	75.8	75.7	78.90	-
D.O. (mg/L)	5.5	5.6	5.2	5.2	5.1	5.1	5.27	5.06
Turbidity (NTU)	5.4	5.5	7.2	7.3	8.8	9.1	7.22	-
SS (mg/L)	8.0	10.0	9.0	9.0	9.0	8.0	8.83	-
Remarks				No dre	dging works	was observe	d.	

Station			C3 (NM6)				
Time (hh:mm)			16;25					
Water Depth (m)			6	.8				
Monitoring Depth (m)	1	.0	3	.4	5	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.7	28.6	28.3	28.3	28.4	28.4	28.43	-
Salinity (ppt)	18.3	18.7	24.8	24.8	27.3	27.3	23.52	-
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.56	
D.O. Saturation (%)	77.2	77.4	75.3	74.6	76.1	74.7	75.88	-
D.O. (mg/L)	5.4	5.5	5.2	5.1	5.1	5.0	5.22	5.08
Turbidity (NTU)	6.7	6.6	6.5	6.6	7.0	6.7	6.68	-
SS (mg/L)	9.0	8.0	8.0	7.0	6.0	8.0	7.67	-
Remarks				No dred	dging works	was observe	d.	

Station			IM	01			Co-ordinates	1
Time (hh:mm)			16:53	-16:55			Northing	Easting
Water Depth (m)			14		22.21.556	113.54.272		
Monitoring Depth (m)	1	.0	7					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.4	29.8	28.4	28.4	28.3	28.2	28.57	-
Salinity (ppt)	25.4	27.0	29.2	29.2	29.6	29.8	28.35	-
pH	7.6	7.8	7.7	7.7	7.7	7.7	7.68	
D.O. Saturation (%)	80.3	82.5	76.9	76.6	75.9	75.8	78.00	-
D.O. (mg/L)	5.5	5.5	5.1	5.1	5.1	5.1	5.23	5.07
Turbidity (NTU)	5.9	6.8	6.9	7.0	8.5	8.4	7.25	-
SS (mg/L)	8.0	7.0	8.0	7.0	10.0	8.0	8.00	-
Remarks				No dre	dging works	was observe	d.	

Station			IM	02			Co-ordinate	s	
Time (hh:mm)			16:41	-16:43			Northing	Easting	
Water Depth (m)			15		22.21.200	113.55.057			
Monitoring Depth (m)	1	.0	7	.5	14	4.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	28.1	28.2	28.0	28.1	27.8	27.9	28.01	-	
Salinity (ppt)	26.3	26.5	30.3	7.7	30.7	30.9	29.11	-	
pH	7.6	7.6	7.6	7.62					
D.O. Saturation (%)	77.8	77.8	72.0	73.2	73.1	71.2	74.18	-	
D.O. (mg/L)	5.3	5.3	4.8	4.9	4.9	4.8	4.99	4.82	
Turbidity (NTU)	7.4	7.3	8.7	8.7	11.2	11.5	9.13	-	
SS (mg/L)	8.0	6.0	8.0	8.0	7.83	-			
Remarks	No dredging works was observed.								

Station			MF	PB1					
Time (hh:mm)			17:19						
Water Depth (m)			8						
Monitoring Depth (m)	1	.0	4	.2	7	.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	28.7	28.6	28.4	28.5	28.2	28.3	28.43	-	
Salinity (ppt)	19.0	19.9	25.3	24.6	29.1	28.4	24.39	-	
pH	7.5	7.5	7.5	7.5	7.6	7.6	7.53		
D.O. Saturation (%)	76.9	76.9	74.5	74.6	74.3	74.1	75.22	-	
D.O. (mg/L)	5.4	5.4	5.1	5.1	5.0	5.0	5.15	4.98	
Turbidity (NTU)	6.8	6.8	8.0	8.0	8.4	8.2	7.70	-	
SS (mg/L)	9.0	8.0	8.0	9.0	9.0	8.0	8.50	-	
Remarks	No dredging works was observed.								

Station			MF	PB2						
Time (hh:mm)			17:33							
Water Depth (m)			8	.8						
Monitoring Depth (m)	1	.0	4	.4	7	.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.7	28.7	28.3	28.4	28.4	28.4	28.47	-		
Salinity (ppt)	17.7	17.6	25.2	26.1	27.9	27.7	23.72	-		
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.55			
D.O. Saturation (%)	77.9	77.2	74.9	74.9	75.8	75.6	76.05	-		
D.O. (mg/L)	5.5	5.5	5.1	5.1	5.1	5.1	5.22	5.09		
Turbidity (NTU)	7.0	7.0	6.8	6.9	6.8	6.8	6.88	-		
SS (mg/L)	7.0	6.0	8.0	8.0	7.0	8.0	7.33	-		
Remarks		No dredging works was observed.								

Station			IV	IP						
Time (hh:mm)			17:06	-17:08						
Water Depth (m)			5							
Monitoring Depth (m)	1	.0	2							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.6	28.5	-	-	28.3	28.3	28.40	-		
Salinity (ppt)	20.3 20.4 25.6 25.9						23.04	-		
pH	7.5	7.5 7.5 7.5 7.5								
D.O. Saturation (%)	77.0	76.5	-	-	75.2	75.0	75.93	-		
D.O. (mg/L)	5.4	5.3	-	-	5.1	5.1	5.24	5.12		
Turbidity (NTU)	6.7	6.6	-	-	7.0	7.0	6.83	-		
SS (mg/L)	8.0	8.0	-	7.75	-					
Remarks		No dredging works was observed.								

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2	IMO2		MPB1		MPB2		/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.1	5.1	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.2	5.2	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.0	9.0	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	10.7	10.7	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/15/08
Weather & Ambient Temperature	Sunny, 26C

Station			C2 (NM5)				
Time (hh:mm)			13:15	-13:17				
Water Depth (m)								
Monitoring Depth (m)	1	.0	10	0.1	19	9.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	26.0	25.4	25.8	25.8	25.6	25.6	25.71	-
Salinity (ppt)	27.3	27.8	28.1	28.1	28.4	28.4	28.00	-
pH	8.2	8.2	8.2	8.2	8.2	8.3	8.22	
D.O. Saturation (%)	104.8	107.4	107.4	105.8	107.3	104.9	106.27	-
D.O. (mg/L)	8.2	8.5	8.4	8.3	8.4	8.2	8.31	8.29
Turbidity (NTU)	1.2	1.1	7.32	-				
SS (mg/L)	8.0	8.0	9.0	8.50	-			
Remarks		-		redging wor	ks was obse	rved.		

Station			IM	01			Co-ore	dinates
Time (hh:mm)			13:32	-13:33			Northing	Easting
Water Depth (m)				22.20.791	113.53.647			
Monitoring Depth (m)	1	.0	5	.5	10	0.0		3
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	25.6	25.7	25.6	25.6	25.6	25.6	25.59	-
Salinity (ppt)	28.8	28.6	28.9	28.8	24.2	28.9	28.04	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.24	
D.O. Saturation (%)	105.6	105.8	103.5	106.6	108.7	106.9	106.18	-
D.O. (mg/L)	8.2	8.2	8.1	8.3	8.7	8.34	8.32	8.53
Turbidity (NTU)	2.8	3.5	7.2	7.5	7.4	7.4	5.97	-
SS (mg/L)	8.0 10.0 8.0 10.0 8.0 8.0							-
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			13:46	-13:47			Northing	Easting
Water Depth (m)				22.21.511	113.54.436			
Monitoring Depth (m)	1.0 5.9 10.8							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	25.7	25.7	25.6	25.6	25.6	25.5	25.61	-
Salinity (ppt)	28.6	28.7	28.9	28.9	28.9	29.1	28.84	-
pH	8.2	8.2	8.2	8.3	8.2	8.2	8.24	
D.O. Saturation (%)	104.5	104.7	106.4	104.8	106.1	107.0	105.58	-
D.O. (mg/L)	8.1	8.2	8.3	8.2	8.3	8.35	8.23	8.31
Turbidity (NTU)	1.9	1.6	5.8	5.6	6.3	6.6	4.63	-
SS (mg/L)	9.0	9.0	9.00	-				
Remarks		-	D	redging wor	ks was obse	rved.	-	

Station			MF	PB1			1	
Time (hh:mm)			12:48	-12:49				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.1	7	.2		
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	25.9	25.9	25.9	25.9	25.9	25.9	25.87	-
Salinity (ppt)	27.7	27.6	28.2	27.6	27.6	27.6	27.71	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.22	
D.O. Saturation (%)	105.5	105.9	106.3	105.2	105.1	105.7	105.62	-
D.O. (mg/L)	8.2	8.3	8.5	8.2	8.2	8.3	8.28	8.23
Turbidity (NTU)	6.1	5.9	6.17	-				
SS (mg/L)	8.0	8.0	8.0	8.17	-			
Remarks		•	D	redging worl	ks was obse	rved.		

Station			MI	PB2					
Time (hh:mm)			12:40)-12:41					
Water Depth (m)									
Monitoring Depth (m)	1	.0	4	1.3	7	.5			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	25.8	25.7	25.7	25.7	25.7	25.7	25.74	-	
Salinity (ppt)	27.4	27.8	27.8	27.9	27.6	27.8	27.72	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.23		
D.O. Saturation (%)	106.9	106.1	106.1	105.8	106.7	106.2	106.30	-	
D.O. (mg/L)	8.4	8.3	8.3	8.3	8.4	8.3	8.32	8.33	
Turbidity (NTU)	7.1	7.3	6.8	7.4	7.3	7.3	7.20	-	
SS (mg/L)	8.0	10.0	9.0	9.0	8.0	9.0	8.83	-	
Remarks	Dredging works was observed.								

Station			N	IP			1			
Time (hh:mm)			12:58	-12:58						
Water Depth (m)										
Monitoring Depth (m)	1	.0	2	.8	4	.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	26.0	25.9	-	-	26.0	25.9	25.94	-		
Salinity (ppt)	27.1	27.2	-	-	27.2	27.3	27.18	-		
pH	8.2	8.2	-	-	8.2	8.2	8.18			
D.O. Saturation (%)	105.4	105.6	-	-	104.7	105.0	105.18	-		
D.O. (mg/L)	8.2	8.3	-	-	8.2	8.2	8.22	8.20		
Turbidity (NTU)	4.6	4.7	-	-	5.6	5.6	5.13	-		
SS (mg/L)	9.0	10.0	9.0	9.50	-					
Remarks		Dredging works was observed.								

Compliance with Action at	ia Limit Lev	<u>'eı</u>												
Parameter	As in	EM&A	C2*1	30%	IMO1		IM	02	MPB1		MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	8.3	8.3	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	8.3	8.3	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.5	9.5	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	11.1	11.1	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/15/08
Weather & Ambient Temperature	Cloudy, 27C

Station			C1 (NM3)							
Time (hh:mm)			17:42	-17:44							
Water Depth (m)			16	6.3							
Monitoring Depth (m)	1	.0	8								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	26.0	26.1	25.8	25.8	25.8	25.8	25.88	-			
Salinity (ppt)	27.2	27.2	27.9	28.0	28.2	28.2	27.79	-			
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.21				
D.O. Saturation (%)	105.4	104.9	104.2	104.6	104.8	104.7	104.77	-			
D.O. (mg/L)	8.2	8.2	8.1	8.2	8.2	8.2	8.17	8.17			
Turbidity (NTU)	1.9	1.3	3.5	3.5	2.8	3.1	2.68	-			
SS (mg/L)	9.0	11.0	10.0	10.0	11.0	12.0	10.50	-			
Remarks		Dredging works was observed.									

Station			C3 (NM6)				
Time (hh:mm)			19:04	-19:06				
Water Depth (m)			6					
Monitoring Depth (m)	1	.0	3					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	25.7	25.7	25.7	25.7	25.7	25.6	25.66	-
Salinity (ppt)	28.1	27.9	27.9	28.1	27.9	28.1	28.01	-
pH	8.3	8.2	8.2	8.2	8.2	8.2	8.24	
D.O. Saturation (%)	110.1	111.2	112.1	110.1	110.1	113.8	111.23	-
D.O. (mg/L)	8.6	8.7	8.8	8.6	8.6	8.9	8.72	8.78
Turbidity (NTU)	3.0	2.9	3.3	3.3	3.8	3.9	3.37	-
SS (mg/L)	8.0	8.0	8.0	9.0	10.0	9.0	8.67	-
Remarks				Dredo	jing works w	as observed.		

Station			IM	01			Co-ordinate	s
Time (hh:mm)			18:05	-18:08			Northing	Easting
Water Depth (m)			12	2.3			22.21.561	113.54.423
Monitoring Depth (m)	1	.0	6					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	25.7	25.7	25.6	25.6	25.6	25.6	25.61	-
Salinity (ppt)	28.6	28.6	28.9	28.8	28.9	27.0	28.46	-
pH	8.2	8.2	8.2	8.3	8.3	8.2	8.24	
D.O. Saturation (%)	105.3	105.8	105.7	103.2	105.2	105.7	105.15	-
D.O. (mg/L)	8.2	8.2	8.2	8.0	8.2	8.3	8.21	8.27
Turbidity (NTU)	3.0	3.0	7.9	8.5	8.0	8.4	6.47	-
SS (mg/L)	12.0	11.0	10.0	10.0	9.0	9.0	10.17	-
Remarks				Dredo	ging works w	as observed.		

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			17:54	-17:56			Northing	Easting		
Water Depth (m)			12	2.4		22.21.323	113.54.841			
Monitoring Depth (m)	1	.0	6							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	25.7	25.7	25.6	25.6	25.6	25.6	25.60	-		
Salinity (ppt)	28.6	28.7	27.8	28.9	28.9	28.9	28.64	-		
pH	8.3	8.3	8.2	8.3	8.3	8.2	8.25			
D.O. Saturation (%)	106.4	105.5	104.6	105.1	105.8	105.6	105.50	-		
D.O. (mg/L)	8.3	8.2	8.2	8.2	8.3	8.2	8.23	8.24		
Turbidity (NTU)	1.2	1.5	5.2	5.0	3.7	3.9	3.42	-		
SS (mg/L)	9.0	10.0	9.0	11.0	11.0	13.0	10.50	-		
Remarks		Dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			18:32	-18:34						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4	.2	7	.3				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	25.9	25.9	25.9	25.9	25.9	25.9	25.87	-		
Salinity (ppt)	27.6	24.8	27.7	27.6	28.1	27.7	27.26	-		
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.21			
D.O. Saturation (%)	107.4	105.9	108.0	106.3	110.1	107.2	107.48	-		
D.O. (mg/L)	8.4	8.4	8.4	8.3	8.6	8.4	8.42	8.49		
Turbidity (NTU)	7.7	7.8	8.5	8.0	7.8	8.4	8.03	-		
SS (mg/L)	8.0	8.0	8.0	8.0	10.0	11.0	8.83	-		
Remarks		Dredging works was observed.								

Station			MF	B2							
Time (hh:mm)			18:42	-18:45							
Water Depth (m)			8								
Monitoring Depth (m)	1	.0	4	.4	7	.7					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	25.7	25.7	25.7	25.7	25.7	25.7	25.74	-			
Salinity (ppt)	27.8	27.8	27.7	27.8	27.8	27.8	27.79	-			
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.23				
D.O. Saturation (%)	106.5	107.0	107.5	106.3	106.9	108.3	107.08	-			
D.O. (mg/L)	8.3	8.4	8.4	8.3	8.4	8.5	8.38	8.42			
Turbidity (NTU)	6.9	6.8	7.2	7.5	7.2	7.3	7.15	-			
SS (mg/L)	11.0	11.0	8.0	8.0	10.0	8.0	9.33	-			
Remarks		Dredging works was observed.									

Station			N	IP							
Time (hh:mm)			18:23	-18:24							
Water Depth (m)			5								
Monitoring Depth (m)	1.	.0	2	.9	4	.8					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	26.0	26.0	-	-	26.0	26.0	25.98	-			
Salinity (ppt)	27.2	27.1	-	-	27.2	27.5	27.26	-			
pH	8.2	8.2	-	-	8.2	8.1	8.16				
D.O. Saturation (%)	108.6	106.5	-	-	105.6	110.4	107.78	-			
D.O. (mg/L)	8.5	8.3	-	-	8.3	8.6	8.43	8.44			
Turbidity (NTU)	3.3	3.3	-	-	4.4	4.2	3.80	-			
SS (mg/L)	10.0	8.0	-	-	11.0	9.0	9.50	-			
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	101	IMO2		MPB1		MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	8.5	8.5	N	N	N	N	N	N	Z	N	N	N
DO (Depth-averaged)	4.2	4.0	8.4	8.4	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	3.9	3.9	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	12.5	12.5	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/16/08
Weather & Ambient Temperature	Sunny, 29C

[a	ı						1	
Station			C2 (NM5)				
Time (hh:mm)			13:28	-13:31				
Water Depth (m)			20).2				
Monitoring Depth (m)	1	.0	10).1	19	9.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.4	27.4	26.8	26.7	26.5	26.6	26.90	-
Salinity (ppt)	22.4	22.4	27.2	27.3	28.3	28.3	25.97	-
pH	7.0	7.0	7.1	7.1	7.1	7.1	7.06	
D.O. Saturation (%)	82.9	82.1	79.7	78.7	82.4	82.2	81.33	-
D.O. (mg/L)	5.7	5.6	5.4	5.3	5.6	5.5	5.52	5.55
Turbidity (NTU)	8.7	8.4	9.5	9.3	12.0	11.6	9.92	-
SS (mg/L)	11.0	11.0	8.0	8.0	10.0	12.0	10.00	1
Remarks		-	D	redging wor	ks was obse	rved.	-	

Station			IM	01			Co-ore	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			9	.2			22.21.579	113.54.275
Monitoring Depth (m)	1	.0	4	.6	8	.2		•
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.7	27.6	26.3	26.3	26.2	26.2	26.71	-
Salinity (ppt)	28.2	28.1	29.2	29.2	29.6	29.6	28.98	-
pH	7.1	7.1	7.1	7.1	7.2	7.2	7.13	
D.O. Saturation (%)	82.2	81.6	76.6	75.2	78.0	78.3	78.65	-
D.O. (mg/L)	5.5	5.5	5.0	5.1	5.3	5.27	5.26	5.26
Turbidity (NTU)	11.1	10.8	12.6	13.0	14.7	14.3	12.75	-
SS (mg/L)	9.0	8.0	8.0	10.0	9.0	9.0	8.83	-
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ord	dinates		
Time (hh:mm)				Northing	Easting					
Water Depth (m)			10).4			22.21.234	113.54.894		
Monitoring Depth (m)	1	.0	5	.2	9	.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.0	27.1	26.3	26.3	26.1	26.1	26.47	-		
Salinity (ppt)	28.7	28.7	29.6	29.5	29.8	29.8	29.35	-		
pH	7.1	7.1	7.1	7.1	7.1	7.0	7.07			
D.O. Saturation (%)	82.7	83.5	81.4	80.4	81.1	82.4	81.92	-		
D.O. (mg/L)	5.5	5.6	5.5	5.4	5.5	5.56	5.51	5.55		
Turbidity (NTU)	10.0	10.3	10.8	11.2	12.5	12.3	11.18	-		
SS (mg/L)	10.0	10.0	9.0	8.0	8.0	8.0	8.83	-		
Remarks		Dredging works was observed.								

Station			MF	PB1			1	
Time (hh:mm)								
Water Depth (m)			7	.6				
Monitoring Depth (m)	1	.0	3	.8	6	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.6	27.6	27.3	27.2	27.0	27.0	27.28	-
Salinity (ppt)	22.3	22.2	24.5	24.4	26.1	26.1	24.25	-
pH	7.0	7.0	7.0	7.1	7.1	7.1	7.04	
D.O. Saturation (%)	84.5	83.3	83.5	82.8	85.5	86.6	84.37	-
D.O. (mg/L)	5.8	5.8	5.7	5.7	5.8	5.9	5.76	5.84
Turbidity (NTU)	9.3	9.0	10.0	10.1	10.7	10.5	9.93	-
SS (mg/L)	8.0	10.0	9.0	9.0	9.0	8.0	8.83	-
Remarks			D	redging worl	ks was obse	rved.		

Station			MI	PB2						
Time (hh:mm)			14:05	-14:07						
Water Depth (m)										
Monitoring Depth (m)	1	.0	4	.4	7	.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.6	27.6	27.3	27.3	27.2	27.2	27.35	-		
Salinity (ppt)	22.6	22.6	24.7	24.6	25.0	25.1	24.09	-		
pH	7.0	7.0	7.1	7.1	7.1	7.1	7.06			
D.O. Saturation (%)	84.5	84.3	85.4	85.1	86.2	87.2	85.45	-		
D.O. (mg/L)	5.8	5.8	5.8	5.8	5.9	5.9	5.83	5.90		
Turbidity (NTU)	8.2	8.3	8.6	8.7	9.4	9.1	8.72	-		
SS (mg/L)	6.0	7.0	9.0	8.0	9.0	8.0	7.83	-		
Remarks	Dredging works was observed.									

Station			N	IP			1					
Time (hh:mm)			13:45	-13:47								
Water Depth (m)												
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.5	27.6	-	-	27.2	27.2	27.37	-				
Salinity (ppt)	23.7	23.6	-	-	24.7	24.7	24.17	-				
pH	7.1	7.0	-	-	7.1	7.1	7.06					
D.O. Saturation (%)	90.2	91.2	-	-	92.5	93.0	91.73	-				
D.O. (mg/L)	6.2	6.2	-	-	6.3	6.3	6.26	6.31				
Turbidity (NTU)	7.3	7.1	-	-	9.2	9.1	8.18	-				
SS (mg/L)	9.0	9.0	12.0	10.00	-							
Remarks		Dredging works was observed.										

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*130%		IIV	101	IM	02		MPB1	MF	PB2	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.6	5.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.5	5.5	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	12.9	12.9	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	13.0	13.0	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/16/08
Weather & Ambient Temperature	Fine, 28C

Station			C1 (NM3)				
Time (hh:mm)			19:29	-19:32				
Water Depth (m)			16	6.0				
Monitoring Depth (m)	1	.0	8	.0	15	5.0		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	26.7	26.8	26.0	26.0	25.9	25.9	26.22	-
Salinity (ppt)	29.2	29.1	30.0	30.0	30.2	30.2	29.81	-
pH	6.9	6.9	6.9	6.9	6.9	6.9	6.90	
D.O. Saturation (%)	83.7	83.3	79.8	78.2	85.0	84.2	82.37	-
D.O. (mg/L)	5.6	5.6	5.4	5.3	5.7	5.7	5.53	5.71
Turbidity (NTU)	10.5	10.4	11.7	11.9	12.3	12.5	11.55	-
SS (mg/L)	5.0	4.0	10.0	9.0	9.0	10.0	7.83	-
Remarks				Dredg	ging works w	as observed.		

Station			C3 (NM6)							
Time (hh:mm)			18:13	-18:15							
Water Depth (m)			6								
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.3	27.3	26.8	26.8	26.7	26.7	26.93	-			
Salinity (ppt)	25.4	25.4	26.8	26.8	27.2	27.1	26.44	-			
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.09				
D.O. Saturation (%)	83.3	82.3	81.9	82.0	84.6	84.1	83.03	-			
D.O. (mg/L)	5.6	5.6	5.6	5.6	5.7	5.7	5.62	5.71			
Turbidity (NTU)	6.5	6.7	8.0	8.2	9.3	9.7	8.07	-			
SS (mg/L)	8.0	9.0	10.0	9.0	9.00	-					
Remarks		Dredging works was observed.									

Station			IM	I O 1			Co-ordinates				
Time (hh:mm)			19:02	-19:04			Northing	Easting			
Water Depth (m)			9		22.21.587	113.54.266					
Monitoring Depth (m)	1	.0	4								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.1	27.0	26.6	26.6	26.1	26.1	26.58	-			
Salinity (ppt)	27.9	27.8	29.2	29.2	29.7	29.7	28.89	-			
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.12				
D.O. Saturation (%)	80.6	79.1	73.5	74.0	78.1	78.3	77.27	-			
D.O. (mg/L)	5.4	5.3	4.9	4.9	5.2	5.3	5.16	5.26			
Turbidity (NTU)	11.4	11.8	12.2	12.8	14.5	14.4	12.85	-			
SS (mg/L)	6.0	8.0	7.0	6.0	6.67	-					
Remarks		Dredging works was observed.									

Station			IIV	102		Co-ordinate	s			
Time (hh:mm)			19:14	-19:16			Northing	Easting		
Water Depth (m)			10		22.21.242	113.54.890				
Monitoring Depth (m)	1	.0	5	0.6						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	26.9	26.9	26.2	26.1	26.0	25.9	26.33	-		
Salinity (ppt)	27.5	27.5	29.1	15.0	29.7	29.7	28.76	-		
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.07			
D.O. Saturation (%)	80.2	79.2	77.7	77.8	78.9	79.7	78.92	-		
D.O. (mg/L)	5.4	5.3	5.3	5.2	5.3	5.4	5.31	5.34		
Turbidity (NTU)	13.0	12.7	13.5	13.4	14.3	14.0	13.48	-		
SS (mg/L)	8.0	7.0	8.0	7.0	6.0	7.0	7.17	-		
Remarks		Dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			18:38	-18:40						
Water Depth (m)			7							
Monitoring Depth (m)	1	.0	3	5.6						
Trial	Trial 1	Trial 2	Depth-averaged	Bottom						
Water Temperature (°C)	27.5	27.4	27.1	27.1	26.9	26.9	27.15	-		
Salinity (ppt)	22.4	22.5	24.5	24.4	25.8	25.9	24.26	-		
pH	7.0	7.0	7.1	7.0	7.1	7.1	7.05			
D.O. Saturation (%)	83.9	83.5	82.9	82.7	84.7	85.8	83.92	-		
D.O. (mg/L)	5.8	5.7	5.7	5.6	5.8	5.8	5.73	5.79		
Turbidity (NTU)	8.8	8.6	9.6	9.4	10.1	9.9	9.40	-		
SS (mg/L)	9.0	10.0	9.0	9.0	8.0	9.0	9.00	-		
Remarks		Dredging works was observed.								

Station			MF	PB2							
Time (hh:mm)			18:27	-18:29							
Water Depth (m)			9								
Monitoring Depth (m)	1	.0	4	.2							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.4	27.4	27.3	27.3	27.3	27.3	27.31	-			
Salinity (ppt)	22.8	22.7	23.4	23.3	23.3	23.5	23.18	-			
pH	7.0	7.0	7.0	7.0	7.1	7.1	7.05				
D.O. Saturation (%)	85.2	84.9	85.9	86.0	86.2	86.4	85.77	-			
D.O. (mg/L)	5.8	5.8	5.9	5.9	5.9	5.9	5.86	5.89			
Turbidity (NTU)	9.0	8.9	9.6	9.4	10.7	10.5	9.68	-			
SS (mg/L)	8.0	8.0	8.0	7.0	8.0	8.0	7.83	-			
Remarks		Dredging works was observed.									

Station			IV	IP							
Time (hh:mm)			18:48	-18:49							
Water Depth (m)			5								
Monitoring Depth (m)	1.	.0	2	.5							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.3	27.4	-	-	27.0	27.0	27.17	-			
Salinity (ppt)	24.0	24.0	-	-	25.3	25.4	24.68	-			
pH	7.1	7.1	-	-	7.1	7.1	7.07				
D.O. Saturation (%)	92.5	93.4	-	-	94.1	93.8	93.45	-			
D.O. (mg/L)	6.3	6.4	-	-	6.4	6.4	6.36	6.38			
Turbidity (NTU)	10.8	10.5	-	-	12.0	11.7	11.25	-			
SS (mg/L)	11.0	11.0	-	8.0	9.75	-					
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	lean(C1+C3)*130% IMO1		IMO2			MPB1	MF	PB2	MP		
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.7	5.7	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.6	5.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	12.8	NA	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	10.9	10.9	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/17/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C2 (NM5)			1					
Time (hh:mm)				-8:54			1					
Water Depth (m)				1								
Monitoring Depth (m)	1	.0	9	.7	18	3.4						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.6	27.6	27.5	27.5	27.0	27.0	27.34	-				
Salinity (ppt)	27.2	27.7	28.7	28.9	30.4	30.5	28.89	-				
pH	7.5	7.5	7.5	7.5	7.5	7.4	7.50					
D.O. Saturation (%)	85.5	84.1	81.9	79.8	77.5	77.9	81.12	-				
D.O. (mg/L)	5.8	5.7	5.5	5.4	5.2	5.2	5.46	5.22				
Turbidity (NTU)	6.0	5.9	9.6	8.17	-							
SS (mg/L)	10.0	10.0 9.0 9.0 9.0 11.0 9.0										
Remarks			D	redging wor	ks was obse	rved.						

Station			IM	01			Co-or	dinates
Time (hh:mm)			8:16	-8:19			Northing	Easting
Water Depth (m)			22.21.505	113.54.128				
Monitoring Depth (m)	1	.0	4	.2	7	.4		•
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.7	27.6	27.4	27.3	27.3	27.2	27.43	-
Salinity (ppt)	23.8	23.2	28.1	28.2	29.4	29.1	26.98	-
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.49	
D.O. Saturation (%)	83.0	83.3	80.5	79.3	79.0	77.8	80.48	-
D.O. (mg/L)	5.7	5.8	5.4	5.4	5.3	5.24	5.47	5.27
Turbidity (NTU)	8.0	8.0	7.58	-				
SS (mg/L)	9.0	9.0	8.0	8.83	-			
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-or	dinates
Time (hh:mm)			7:57	-7:58			Northing	Easting
Water Depth (m)				22.21.261	113.54.823			
Monitoring Depth (m)	1	.0	3	.8	6	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.3	27.3	27.0	27.2	26.9	26.9	27.11	-
Salinity (ppt)	26.0	25.2	28.5	28.1	30.8	29.1	27.93	-
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.48	
D.O. Saturation (%)	78.3	78.7	74.8	76.6	74.9	74.3	76.27	-
D.O. (mg/L)	5.4	5.4	5.1	5.2	5.0	5.02	5.18	5.02
Turbidity (NTU)	8.6	8.7	9.03	-				
SS (mg/L)	12.0	10.0	9.67	-				
Remarks		-	D	redging wor	ks was obse	rved.	•	-

Station			MF	PB1				
Time (hh:mm)			8:25	-8:26				
Water Depth (m)								
Monitoring Depth (m)	1	.0	3	.2	5	.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	28.0	27.9	27.6	27.6	27.4	27.4	27.62	-
Salinity (ppt)	19.5	21.5	25.6	25.5	27.3	27.5	24.50	-
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.44	
D.O. Saturation (%)	80.8	79.0	77.3	76.9	77.4	76.6	78.00	-
D.O. (mg/L)	5.7	5.5	5.3	5.2	5.3	5.2	5.34	5.22
Turbidity (NTU)	9.1	8.5	8.67	-				
SS (mg/L)	10.0	9.0	8.0	8.83	-			
Remarks		-	D	redging wor	ks was obse	rved.		•

Station			MF	PB2				
Time (hh:mm)			8:05	-8:07				
Water Depth (m)								
Monitoring Depth (m)	1	.0	3	.9	6	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.9	27.5	27.6	27.5	27.4	27.62	-
Salinity (ppt)	21.4	20.5	25.9	25.3	26.2	26.5	24.29	-
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.39	
D.O. Saturation (%)	80.7	80.8	78.3	77.8	78.6	79.4	79.27	-
D.O. (mg/L)	5.6	5.6	5.3	5.3	5.3	5.4	5.43	5.37
Turbidity (NTU)	8.2	8.4	7.2	7.0	7.2	6.9	7.48	-
SS (mg/L)	9.0	10.0	10.0	9.33	-			
Remarks		•	D	redging wor	ks was obse	rved.		

Station		•	N	/IP	•	•		
Time (hh:mm)			8:33	-8:34				
Water Depth (m)			5	5.6				
Monitoring Depth (m)	1	.0	2	2.8	4	.6		
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.9	27.9	-	-	27.5	27.5	27.70	-
Salinity (ppt)	21.7	20.7	-	-	26.0	26.3	23.66	-
pH	7.4	7.4	-	-	7.4	7.4	7.38	
D.O. Saturation (%)	80.6	80.3	-	-	78.5	80.8	80.05	-
D.O. (mg/L)	5.6	5.6	-	-	5.3	5.5	5.50	5.41
Turbidity (NTU)	8.5	8.7	-	-	8.3	7.8	8.33	-
SS (mg/L)	9.0	8.0	10.0	9.25	-			
Remarks		-	С	redging wor	ks was obse	rved.		

Compliance with Action at	ia Liiiii Lev	<u>'eı</u>												
Parameter	As in	EM&A	C2*1	C2*130%		IMO1		IMO2		MPB1	MPB2		MP	
	Action	ction Limit Action Limit		Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedanc Exceedance of Limit Level		Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.2	5.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.5	5.5	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	10.6	10.6	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	12.4	12.4	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/17/2008
Weather & Ambient Temperature	Sunny, 29C

Station			C1 (NM3)				
Time (hh:mm)			13:52					
Water Depth (m)			16	6.0				
Monitoring Depth (m)	1	.0	8	3.0	15	5.0		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.7	27.7	27.6	27.6	27.1	27.1	27.45	-
Salinity (ppt)	26.6	26.1	28.8	28.6	30.2	30.3	28.43	-
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.52	
D.O. Saturation (%)	86.6	85.6	80.5	80.0	79.3	78.0	81.67	-
D.O. (mg/L)	5.9	5.8	5.4	5.4	5.3	5.2	5.51	5.28
Turbidity (NTU)	5.7	5.7	6.5	6.5	9.8	9.0	7.20	-
SS (mg/L)	10.0	11.0	11.0	10.67	-			
Remarks				Dredo	ing works w	as observed.		

Station			C3 (
Time (hh:mm)			13:34					
Water Depth (m)			6	.6				
Monitoring Depth (m)	1	.0	3	.3	5	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.0	28.0	27.6	27.6	27.6	27.6	27.72	-
Salinity (ppt)	21.6	22.0	26.5	26.0	27.0	27.1	25.03	-
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.39	
D.O. Saturation (%)	81.6	82.4	78.8	78.7	79.1	79.2	79.97	-
D.O. (mg/L)	5.7	5.7	5.3	5.4	5.4	5.4	5.46	5.36
Turbidity (NTU)	6.6	6.6	6.6	6.4	6.5	6.4	6.52	-
SS (mg/L)	9.0	8.0	10.0	9.0	9.17	-		
Remarks				Dredo	ging works w	as observed.		

Station			IM	01			Co-ordinate	es
Time (hh:mm)			13:04	-13:06			Northing	Easting
Water Depth (m)			8	.4		22.21.499	113.54.133	
Monitoring Depth (m)	1	.0	4	.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.8	27.8	27.5	27.5	27.4	27.4	27.56	-
Salinity (ppt)	24.4	23.9	27.8	27.9	28.9	29.1	27.00	-
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.56	
D.O. Saturation (%)	83.1	83.0	81.1	80.5	79.9	78.7	81.05	-
D.O. (mg/L)	5.7	5.7	5.5	5.4	5.4	5.3	5.50	5.34
Turbidity (NTU)	7.4	7.4	6.6	6.7	7.7	7.8	7.27	-
SS (mg/L)	10.0	11.0	8.0	10.0	9.67	-		
Remarks				Dredg	ging works w	as observed.		

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			13:13	-13:15			Northing	Easting		
Water Depth (m)			8	.8			22.21.266	113.54.834		
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.3	27.4	27.1	27.2	27.0	27.0	27.18	-		
Salinity (ppt)	25.3	26.8	28.5	28.2	30.9	30.9	28.43	-		
pH	7.6	7.5	7.6	7.6	7.5	7.5	7.53			
D.O. Saturation (%)	78.6	78.8	73.6	75.4	74.1	72.8	75.55	-		
D.O. (mg/L)	5.4	5.4	5.0	5.1	5.0	4.9	5.12	4.92		
Turbidity (NTU)	9.1	8.7	10.0	9.3	11.8	11.2	10.02	-		
SS (mg/L)	9.0	8.0	10.0	8.0	9.00	-				
Remarks		Dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			12:53	-12:55						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.2	28.1	27.7	27.8	27.5	27.4	27.76	-		
Salinity (ppt)	19.9	20.2	25.5	25.0	27.0	27.6	24.20	-		
pH	7.4	7.4	7.4	7.4	7.5	7.5	7.44			
D.O. Saturation (%)	80.6	80.5	77.3	77.2	76.9	77.3	78.30	-		
D.O. (mg/L)	5.6	5.6	5.3	5.3	5.2	5.2	5.37	5.23		
Turbidity (NTU)	8.5	8.5	8.5	8.6	8.5	8.4	8.50	-		
SS (mg/L)	9.0	11.0	9.0	9.0	9.0	9.0	9.33	-		
Remarks		Dredging works was observed.								

Station			MF	B2							
Time (hh:mm)			13:22	-13:23							
Water Depth (m)			8								
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.1	28.1	27.7	27.6	27.6	27.6	27.77	-			
Salinity (ppt)	18.9	19.7	25.2	25.5	26.0	26.1	23.58	-			
pH	7.4	7.4	7.4	7.5	7.4	7.4	7.43				
D.O. Saturation (%)	81.6	80.4	78.6	78.0	78.6	79.8	79.50	-			
D.O. (mg/L)	5.7	5.6	5.4	5.3	5.4	5.4	5.47	5.39			
Turbidity (NTU)	7.8	7.8	6.9	7.0	7.1	6.8	7.23	-			
SS (mg/L)	10.0	10.0	10.0	10.0	9.0	9.0	9.67	-			
Remarks		Dredging works was observed.									

Station			IV	IP							
Time (hh:mm)			12:44	-12:45							
Water Depth (m)			5								
Monitoring Depth (m)	1.	.0	2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.0	28.0	-	-	27.6	27.6	27.79	-			
Salinity (ppt)	20.2	20.6	-	-	26.3	26.3	23.35	-			
pH	7.4	7.4	-	-	7.5	7.4	7.41				
D.O. Saturation (%)	80.3	79.5	-	-	78.5	78.6	79.23	-			
D.O. (mg/L)	5.6	5.5	-	-	5.3	5.3	5.45	5.34			
Turbidity (NTU)	8.7	8.4	-	-	8.4	8.2	8.43	-			
SS (mg/L)	8.0	7.0	-	-	10.0	9.0	8.50	-			
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2	IMO2		MPB1	MF	PB2	82 MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.3	5.3	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.5	5.5	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.9	8.9	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	12.9	12.9	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/18/08
Weather & Ambient Temperature	Cloudy, 28C

Station			C2 (NM5)			1				
Time (hh:mm)											
Water Depth (m)			19	9.2							
Monitoring Depth (m)	1	.0	9	.6	18	3.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.3	27.3	27.2	27.2	27.2	27.2	27.25	-			
Salinity (ppt)	24.7	29.6	30.4	30.5	30.6	30.6	29.36	-			
pH	7.3	7.3	7.3	7.3	7.2	7.3	7.27				
D.O. Saturation (%)	82.2	81.0	80.5	79.6	80.6	82.9	81.13	-			
D.O. (mg/L)	5.7	5.4	5.4	5.3	5.4	5.5	5.46	5.47			
Turbidity (NTU)	8.2	8.4	13.3	12.9	15.4	15.9	12.35	-			
SS (mg/L)	8.0	8.0	12.0	10.0	15.0	14.0	11.17	-			
Remarks		Dredging works was observed.									

Station			IM	01			Co-or	dinates
Time (hh:mm)			15:14	-15:15			Northing	Easting
Water Depth (m)				22.21.309	113.53.841			
Monitoring Depth (m)	1	.0	4	.6	8	.2		•
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.6	27.6	27.3	27.3	27.3	27.3	27.41	-
Salinity (ppt)	26.0	26.0	26.8	26.9	27.7	28.0	26.88	-
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.30	
D.O. Saturation (%)	72.6	72.7	72.4	71.5	73.5	72.6	72.55	-
D.O. (mg/L)	5.0	5.0	4.9	4.9	5.0	4.92	4.94	4.96
Turbidity (NTU)	8.3	8.1	11.3	11.0	13.7	13.2	10.93	-
SS (mg/L)	7.0	9.0	7.0	7.67	-			
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	O2			Co-ore	dinates	
Time (hh:mm)			15:03	-15:04			Northing	Easting	
Water Depth (m)				22.21.091	113.56.894				
Monitoring Depth (m)	1	.0	6	.6	12	2.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
						averaged			
Water Temperature (°C)	27.4	27.3	27.1	27.2	27.2	27.1	27.21	-	
Salinity (ppt)	28.6	28.7	29.2	29.1	30.4	30.5	29.41	-	
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.39		
D.O. Saturation (%)	78.4	79.8	80.8	79.5	78.6	81.8	79.82	-	
D.O. (mg/L)	5.3	5.4	5.5	5.4	5.3	5.49	5.38	5.38	
Turbidity (NTU)	17.5	17.7	24.7	24.3	27.6	27.9	23.28	-	
SS (mg/L)	18.0	18.0	18.0	16.50	-				
Remarks		Dredging works was observed.							

Station			MF	PB1			1				
Time (hh:mm)			14:41	-14:42							
Water Depth (m)											
Monitoring Depth (m)	1	.0	4	.0	7	.0					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.5	27.5	27.3	27.3	27.3	27.3	27.39	-			
Salinity (ppt)	26.1	26.1	26.7	26.8	27.3	27.3	26.73	-			
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.27				
D.O. Saturation (%)	71.9	71.4	71.6	72.5	74.7	72.2	72.38	-			
D.O. (mg/L)	4.9	4.9	4.9	4.9	5.1	4.9	4.93	5.00			
Turbidity (NTU)	7.9	8.1	9.3	9.2	9.6	9.3	8.90	-			
SS (mg/L)	8.0	6.0	8.0	8.0	8.0	9.0	7.83	-			
Remarks		Dredging works was observed.									

Station			MI	PB2				
Time (hh:mm)								
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.3	7	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.6	27.6	27.4	27.3	27.3	27.3	27.41	-
Salinity (ppt)	26.0	26.1	26.5	26.7	27.4	27.7	26.73	-
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.27	
D.O. Saturation (%)	73.4	73.4	71.4	72.0	74.3	72.1	72.77	-
D.O. (mg/L)	5.0	5.0	4.9	4.9	5.1	4.9	4.96	4.97
Turbidity (NTU)	7.1	7.3	8.6	8.9	9.5	9.7	8.52	-
SS (mg/L)	8.0	8.0	8.0	7.0	7.0	9.0	7.83	-
Remarks	Dredging works was observed.							

Station			N	/IP						
Time (hh:mm)										
Water Depth (m)			5	5.7						
Monitoring Depth (m)	1	.0	2	2.9	4	.7				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	27.5	27.5	-	-	27.5	27.4	27.51	-		
Salinity (ppt)	26.2	26.3	-	-	26.3	26.3	26.29	-		
pH	7.3	7.3	-	-	7.3	7.3	7.28			
D.O. Saturation (%)	73.2	74.1	-	-	74.9	74.0	74.05	-		
D.O. (mg/L)	5.0	5.1	-	-	5.1	5.1	5.05	5.08		
Turbidity (NTU)	6.9	7.0	-	-	6.9	7.0	6.95	-		
SS (mg/L)	9.0	10.0	9.0	9.25	-					
Remarks		Dredging works was observed.								

Compliance with Action at	Compliance with Action and Limit Level													
Parameter	As in	EM&A	C2*1	30%	IIV	IMO1		IMO2		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.5	5.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.5	5.5	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	16.1	16.1	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	14.5	14.5	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/18/08
Weather & Ambient Temperature	Cloudy, 28C

D	1											
Station			C1 (NM3)								
Time (hh:mm)			10:48	-10:49								
Water Depth (m)			10	6.4								
Monitoring Depth (m)	1	.0	8									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.3	27.3	27.2	27.2	27.2	27.2	27.25	-				
Salinity (ppt)	30.0	30.1	29.8	30.0	29.6	30.5	29.99	-				
pH	7.3	7.3	7.3	7.2	7.3	7.1	7.26					
D.O. Saturation (%)	81.4	82.1	79.9	81.2	80.7	83.1	81.40	-				
D.O. (mg/L)	5.5	5.5	5.4	5.5	5.4	5.6	5.46	5.50				
Turbidity (NTU)	8.6	8.7	15.9	15.8	19.3	19.1	14.57	-				
SS (mg/L)	8.0	10.0	8.0	9.0	8.83	-						
Remarks		Dredging works was observed.										

Station			C3 (NM6)								
Time (hh:mm)			9:31	-9:32								
Water Depth (m)			6	.6								
Monitoring Depth (m)	1	.0	3									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.3 27.3		27.3	27.3	27.3	27.3	27.32	-				
Salinity (ppt)	28.7	28.1	28.7	28.7	28.7	28.8	28.62	-				
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.36					
D.O. Saturation (%)	77.9	78.8	79.9	78.2	84.9	78.3	79.67	-				
D.O. (mg/L)	5.3	5.3	5.4	5.3	5.7	5.3	5.38	5.51				
Turbidity (NTU)	16.9 17.2 17.5 17.8 18.3 18.7						17.73	-				
SS (mg/L)	21.0	20.0	22.0	21.0	21.17	-						
Remarks		Dredging works was observed.										

Station			IM	01			Co-ordinates				
Time (hh:mm)			9:54	-9:55			Northing	Easting			
Water Depth (m)			9	.6			22.21.311	113.53.843			
Monitoring Depth (m)	1	.0	4								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.5 27.5		27.3	27.3	27.4	27.4	27.39	-			
Salinity (ppt)	26.2 26.4		27.2	27.2	27.8	27.7	27.10	-			
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.22				
D.O. Saturation (%)	72.8	73.0	73.7	72.5	73.0	75.4	73.40	-			
D.O. (mg/L)	5.0	5.0	5.0	4.9	5.0	5.1	4.99	5.03			
Turbidity (NTU)	9.4	9.7	13.3	13.1	15.9	15.7	12.85	-			
SS (mg/L)	10.0	11.0	9.0	7.0	9.00	-					
Remarks		Dredging works was observed.									

Station			IM	02			Co-ordinate	s	
Time (hh:mm)			9:45	-9:47			Northing	Easting	
Water Depth (m)			1;	3.8			22.21.093	113.56.896	
Monitoring Depth (m)	1	.0	6						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.3	27.4	27.3	27.3	27.1	27.2	27.25	-	
Salinity (ppt)	28.7	28.7 28.8		28.8	30.3	30.4	29.29	-	
pH	7.4	7.4	7.3	7.4	7.4	7.4	7.35		
D.O. Saturation (%)	78.5	79.6	79.4	78.9	81.4	79.2	79.50	-	
D.O. (mg/L)	5.3	5.4	5.4	5.3	5.5	5.3	5.35	5.39	
Turbidity (NTU)	12.8	12.6	16.5	16.8	21.8	21.7	17.03	-	
SS (mg/L)	18.0	20.0	22.0	18.0	19.00	-			
Remarks	Dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			10:16	-10:18						
Water Depth (m)			8	.4						
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.5	27.5	27.3	27.3	27.3	27.3	27.38	-		
Salinity (ppt)	26.3	26.4	26.9	26.9	27.3	27.4	26.87	-		
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.27			
D.O. Saturation (%)	72.7	71.7	71.3	72.9	71.8	74.7	72.52	-		
D.O. (mg/L)	5.0	4.9	4.9	5.0	4.9	5.1	4.94	4.98		
Turbidity (NTU)	8.1	7.9	9.4	9.9	11.9	12.0	9.87	-		
SS (mg/L)	8.0	8.0	6.0	8.0	11.0	10.0	8.50	-		
Remarks	Dredging works was observed.									

Station			MF	PB2						
Time (hh:mm)			10:06	-10:08						
Water Depth (m)			9	0.0						
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.5	27.5	27.3	27.3	27.3	27.3	27.39	-		
Salinity (ppt)	26.3	26.3	27.0	26.8	27.6	27.7	26.96	-		
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.26			
D.O. Saturation (%)	72.5	72.8	72.5	73.0	74.4	75.6	73.47	-		
D.O. (mg/L)	4.9	5.0	4.9	5.0	5.1	5.1	5.00	5.09		
Turbidity (NTU)	8.2	8.2	11.3	11.2	13.7	13.5	11.02	-		
SS (mg/L)	9.0	9.0	9.0	8.0	7.0	7.0	8.17	-		
Remarks	Dredging works was observed.									

Station			IV	IP							
Time (hh:mm)			10:26	-10:27							
Water Depth (m)			5	.3							
Monitoring Depth (m)	1	.0	2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.5	27.5	-	-	27.4	27.3	27.42	-			
Salinity (ppt)	26.4	26.4	-	-	26.6	26.8	26.54	-			
pH	7.2	7.3	-	-	7.3	7.2	7.24				
D.O. Saturation (%)	75.3	74.8	-	-	77.8	78.9	76.70	-			
D.O. (mg/L)	5.1	5.1	-	-	5.3	5.4	5.23	5.34			
Turbidity (NTU)	7.7	7.3	-	-	8.2	8.4	7.90	-			
SS (mg/L)	9.0	8.0	-	7.0	7.75	-					
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	Mean(C1+C3)*130%		101	IMO2		MPB1		MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.5	5.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.4	5.4	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	21.0	21.0	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	19.5	19.5	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/19/08
Weather & Ambient Temperature	Fine, 28C

Station	I		C2 (I	NM5)			1				
Time (hh:mm)			- 1	-15:33							
Water Depth (m)											
Monitoring Depth (m)	1	.0	10	0.0	19	9.0					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.5	27.5	27.4	27.4	27.3	27.3	27.40	-			
Salinity (ppt)	29.0	28.9	29.9	29.9	30.6	30.6	29.81	-			
pH	7.1	7.0	7.2	7.2	7.2	7.1	7.14				
D.O. Saturation (%)	82.9	83.4	81.7	81.5	84.5	83.3	82.88	-			
D.O. (mg/L)	5.6	5.6	5.5	5.5	5.7	5.6	5.55	5.61			
Turbidity (NTU)	6.8	6.4	12.85	-							
SS (mg/L)	9.0	9.0 8.0 14.0 14.0 19.0 20.0 14.00 -									
Remarks			D	redging wor	ks was obse	rved.					

Station			IM	01			Co-ore	dinates
Time (hh:mm)			15:54	-15:56			Northing	Easting
Water Depth (m)			22.21.335	113.53.809				
Monitoring Depth (m)	1	.0		3				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.9	27.9	27.5	27.5	27.5	27.5	27.62	-
Salinity (ppt)	24.5	24.5	27.9	28.1	28.8	29.0	27.13	-
pH	7.1	7.1	7.2	7.2	7.2	7.2	7.15	
D.O. Saturation (%)	72.9	73.2	74.9	74.7	76.2	76.3	74.70	-
D.O. (mg/L)	5.0	5.0	5.1	5.1	5.2	5.14	5.08	5.15
Turbidity (NTU)	6.5	6.8	8.4	8.2	12.9	13.0	9.30	-
SS (mg/L)	9.0	10.0	9.17	-				
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			16:06	-16:08			Northing	Easting
Water Depth (m)			22.21.271	113.54.694				
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.1	28.1	27.6	27.6	27.3	27.3	27.67	-
Salinity (ppt)	25.8	25.8	28.7	28.5	30.4	30.4	28.25	-
pH	7.0	7.0	7.1	7.1	7.2	7.2	7.11	
D.O. Saturation (%)	77.1	76.3	78.1	77.2	80.3	80.0	78.17	-
D.O. (mg/L)	5.2	5.2	5.3	5.2	5.4	5.36	5.28	5.37
Turbidity (NTU)	8.5	4.5	4.7	8.3	19.2	18.8	10.67	-
SS (mg/L)	5.0	5.0	6.33	-				
Remarks			D	redging wor	ks was obse	rved.	•	•

Station			MF	PB1			1	
Time (hh:mm)			15:06	-15:08				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.1	7	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.9	27.8	27.5	27.5	27.5	27.5	27.62	-
Salinity (ppt)	24.0	24.0	26.1	26.2	27.6	27.7	25.90	-
pH	7.0	7.0	7.1	7.1	7.1	7.1	7.07	
D.O. Saturation (%)	74.0	73.4	73.4	74.3	74.8	75.8	74.28	-
D.O. (mg/L)	5.1	5.1	5.0	5.1	5.1	5.2	5.09	5.12
Turbidity (NTU)	9.0	8.9	12.9	10.98	-			
SS (mg/L)	8.0	7.0	15.0	10.33	-			
Remarks			D	redging wor	ks was obse	rved.		•

Station			MF	PB2			1	
Time (hh:mm)			14:56	-14:58				
Water Depth (m)			9	.0				
Monitoring Depth (m)	1	.0	4	.5	8	.0		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.9	27.8	27.6	27.5	27.5	27.5	27.64	-
Salinity (ppt)	24.2	24.3	26.9	27.0	27.3	27.4	26.19	-
pH	6.9	6.9	7.0	7.0	7.0	7.0	6.95	
D.O. Saturation (%)	73.1	73.1	73.2	73.0	74.6	74.3	73.55	-
D.O. (mg/L)	5.0	5.0	5.0	5.0	5.1	5.1	5.03	5.07
Turbidity (NTU)	8.4	8.2	16.2	16.8	19.6	19.1	14.72	-
SS (mg/L)	8.0	9.0	10.0	8.0	9.0	9.0	8.83	-
Remarks			D	redging wor	ks was obse	rved.		

Station			N	IP			1				
Time (hh:mm)			15:17	-15:18							
Water Depth (m)			5	.5							
Monitoring Depth (m)	1	.0	2	.8	4	.5					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.9	27.9	-	-	27.5	27.5	27.70	-			
Salinity (ppt)	23.8	23.8	-	-	26.3	26.2	25.01	-			
pH	7.0	7.0	-	-	7.0	7.1	7.03				
D.O. Saturation (%)	72.4	71.4	-	-	74.1	75.1	73.25	-			
D.O. (mg/L)	5.0	4.9	-	-	5.1	5.1	5.03	5.10			
Turbidity (NTU)	8.8	9.2	10.58	-							
SS (mg/L)	7.0	8.0	11.0	9.50	-						
Remarks		Dredging works was observed.									

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	2*130% IMO1		IM	02		MPB1	MPB2		MP		
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.6	5.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.5	5.5	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	16.7	16.7	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	18.2	18.2	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/19/08
Weather & Ambient Temperature	Fine, 29C

Station			C1 (NM3)				
Time (hh:mm)			10:35					
Water Depth (m)			16	6.2				
Monitoring Depth (m)	1	.0	8	3.1	15	5.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.3	27.3	27.3	27.3	27.3	27.3	27.30	-
Salinity (ppt)	29.8	29.8	30.2	30.2	30.5	30.5	30.18	-
pH	7.2	7.2	7.2	7.2	7.2	7.1	7.19	
D.O. Saturation (%)	80.7	81.2	80.4	79.6	80.2	82.3	80.73	-
D.O. (mg/L)	5.4	5.4	5.4	5.3	5.4	5.5	5.40	5.43
Turbidity (NTU)	5.6	5.8	13.7	14.2	19.2	18.8	12.88	-
SS (mg/L)	6.0	7.0	10.0	10.0	15.0	14.0	10.33	-
Remarks				Dredo	ging works w	as observed.		

Station			C3 (NM6)				
Time (hh:mm)			12:01					
Water Depth (m)			6	.4				
Monitoring Depth (m)	1	.0	3	.2	5	.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.9	27.9	27.6	27.7	27.2	27.2	27.58	-
Salinity (ppt)	24.7	24.8	26.4	26.4	29.0	29.0	26.72	-
pH	7.0	7.0	7.0	7.0	7.1	7.1	7.03	
D.O. Saturation (%)	76.8	76.9	78.4	78.1	79.5	79.1	78.13	-
D.O. (mg/L)	5.2	5.3	5.3	5.3	5.4	5.4	5.31	5.36
Turbidity (NTU)	4.7	4.6	5.8	5.9	18.4	17.7	9.52	-
SS (mg/L)	6.0	7.0	8.0	8.0	8.0	8.0	7.50	-
Remarks				Dredo	jing works w	as observed.		

Station			IM	01			Co-ordinate	s
Time (hh:mm)			11:08	-11:11			Northing	Easting
Water Depth (m)			10	0.2		22.21.327	113.53.805	
Monitoring Depth (m)	1	.0	5	1.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.7	27.7	27.4	27.5	27.4	27.4	27.53	-
Salinity (ppt)	24.1	24.2	26.3	26.3	28.0	28.0	26.14	-
pH	7.0	7.0	7.1	7.1	7.1	7.1	7.09	
D.O. Saturation (%)	69.8	69.6	72.0	71.8	74.6	74.1	71.98	-
D.O. (mg/L)	4.8	4.8	4.9	4.9	5.1	5.0	4.91	5.03
Turbidity (NTU)	7.4	7.4	6.5	6.6	14.1	13.6	9.27	-
SS (mg/L)	7.0	6.0	8.0	7.0	7.50	-		
Remarks				Dredg	ging works w	as observed.		

Station			IM	02			Co-ordinate	S			
Time (hh:mm)			10:56	-10:58			Northing	Easting			
Water Depth (m)			11	1.0		22.21.263	113.54.688				
Monitoring Depth (m)	1	.0	5								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.2	28.2	27.3	27.3	27.2	27.2	27.59	-			
Salinity (ppt)	25.4	25.4	27.7	27.7	30.1	30.1	27.72	-			
pH	7.1	7.1	7.2	7.2	7.2	7.2	7.19				
D.O. Saturation (%)	77.2	76.2	77.9	78.0	80.9	79.9	78.35	-			
D.O. (mg/L)	5.2	5.2	5.3	5.3	5.4	5.4	5.29	5.40			
Turbidity (NTU)	3.7	3.6	7.9	7.5	15.2	16.3	9.03	-			
SS (mg/L)	4.0	4.0	6.0	11.0	6.50	-					
Remarks		Dredging works was observed.									

Station			MF	PB1					
Time (hh:mm)			11:31	-11:34					
Water Depth (m)			8						
Monitoring Depth (m)	1	.0	4	.1	7	.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.7	27.8	27.4	27.4	27.4	27.4	27.53	-	
Salinity (ppt)	23.7	23.6	26.1	26.0	26.9	26.9	25.54	-	
pH	7.0	7.0	7.1	7.1	7.1	7.1	7.09		
D.O. Saturation (%)	70.8	70.8	70.5	70.0	72.0	72.4	71.08	-	
D.O. (mg/L)	4.9	4.9	4.8	4.8	4.9	4.9	4.87	4.92	
Turbidity (NTU)	7.8	7.7	7.8	8.1	10.1	10.2	8.62	-	
SS (mg/L)	7.0	5.0	6.0	6.0	13.0	12.0	8.17	-	
Remarks	Dredging works was observed.								

Station			MF	B2								
Time (hh:mm)			11:43	-11:46								
Water Depth (m)			9									
Monitoring Depth (m)	1	.0	4									
Trial	Trial 1	Trial 2	Depth-averaged	Bottom								
Water Temperature (°C)	27.7	27.7	27.4	27.5	27.4	27.4	27.53	-				
Salinity (ppt)	24.0	24.1	25.77	-								
pH	7.0	7.0	7.03									
D.O. Saturation (%)	69.4	69.4 70.7 69.8 69.1 71.9 70.2 70.18										
D.O. (mg/L)	4.8	4.8 4.9 4.8 4.7 4.9 4.8 4.80 4.										
Turbidity (NTU)	7.4	7.1	11.2	11.5	15.5	16.2	11.48	-				
SS (mg/L)	7.0	8.0	13.0	11.0	7.0	6.0	8.67	-				
Remarks		Dredging works was observed.										

Station			IV	IP								
Time (hh:mm)			11:22	-11:24								
Water Depth (m)			5									
Monitoring Depth (m)	1.	.0	2									
Trial	Trial 1	Trial 2	Depth-averaged	Bottom								
Water Temperature (°C)	27.8	27.8	-	-	27.4	27.4	27.61	-				
Salinity (ppt)	23.6	23.6	-	24.84	-							
pH	7.0	7.0	-	6.98								
D.O. Saturation (%)	72.6	2.6 73.0 74.9 74.8 73.83										
D.O. (mg/L)	5.0	5.0 5.0 5.1 5.1 5.07										
Turbidity (NTU)	7.2	7.2 7.4 - 13.2 13.2 10.25										
SS (mg/L)	8.0	8.0	-	-	7.0	8.0	7.75	-				
Remarks		Dredging works was observed.										

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2		MPB1		MPB2		IV	IP.
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedance	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.4	5.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.4	5.4	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	14.6	14.6	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	11.6	11.6	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/20/08
Weather & Ambient Temperature	Fine, 27C

Station			C2 (NM5)			1					
Time (hh:mm)			<u> </u>	-16:14			1					
Water Depth (m)		20.2										
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2										
Water Temperature (°C)	25.0	24.7	24.0	24.0	23.9	24.0	24.24	-				
Salinity (ppt)	25.6	26.1	28.34	-								
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.89					
D.O. Saturation (%)	82.2	82.2 81.8 82.1 81.2 81.6 82.4										
D.O. (mg/L)	6.2	6.2	6.2	6.1	6.2	6.2	6.19	6.19				
Turbidity (NTU)	3.7	3.8	3.8	3.7	4.6	4.7	4.05	-				
SS (mg/L)	6.0	6.0	8.0	8.0	7.0	6.0	6.83	-				
Remarks		Dredging works was observed.										

Station			IM	01			Co-ore	dinates			
Time (hh:mm)			15:54	-15:55			Northing	Easting			
Water Depth (m)		8.8 22.21.2									
Monitoring Depth (m)	1	.0		-							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	25.1	26.8	23.9	24.0	24.1	23.7	24.60	-			
Salinity (ppt)	27.4 26.6 29.6 29.6 29.4 29.6						28.70	-			
pH	7.9	7.9 7.9 7.9 7.9 7.9 7.9									
D.O. Saturation (%)	83.3	81.3	83.0	82.8	83.6	84.4	83.07	-			
D.O. (mg/L)	6.2	5.9	6.3	6.2	6.3	6.39	6.23	6.34			
Turbidity (NTU)	3.4	3.6	3.5	3.5	3.6	3.5	3.52	-			
SS (mg/L)	6.0	6.0	6.0	5.0	5.0	5.0	5.50	-			
Remarks	Dredging works was observed.										

Station			IM	02			Co-ore	dinates			
Time (hh:mm)		15:41-15:43 Northing Easting									
Water Depth (m)		8.6 22.21.267 11									
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Depth-	Bottom							
							averaged				
Water Temperature (°C)	25.5	23.9	23.9	23.9	23.8	23.9	24.13	-			
Salinity (ppt)	27.6	36.5	30.51	-							
pH	7.9	7.9	7.9	8.0	7.9	8.0	7.96				
D.O. Saturation (%)	83.6	91.5	82.6	82.4	84.4	81.7	84.37	-			
D.O. (mg/L)	6.2	6.2 7.8 6.2 6.3 6.4 6.22 6.51 6.3									
Turbidity (NTU)	2.8	2.9	3.5	3.4	3.9	4.0	3.42	-			
SS (mg/L)	6.0	5.0	6.0	6.0	6.0	8.0	6.17	-			
Remarks	Dredging works was observed.										

Station			MF	PB1			1			
Time (hh:mm)			16:32	-16:32						
Water Depth (m)										
Monitoring Depth (m)	1	.0								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	24.7	24.7	24.2	24.2	24.4	24.1	24.40	-		
Salinity (ppt)	25.9	26.4	27.38	-						
pH	7.9	7.9 7.9 7.9 7.9 7.9 7.9 7.8								
D.O. Saturation (%)	82.3	82.1	82.8	82.9	83.5	84.7	83.05	-		
D.O. (mg/L)	6.3	6.2	6.3	6.3	6.3	6.4	6.29	6.33		
Turbidity (NTU)	10.7	10.7	10.8	10.9	11.4	11.3	10.97	-		
SS (mg/L)	5.0	7.0	5.0	7.0	6.0	6.0	6.00	-		
Remarks	Dredging works was observed.									

Station			M	PB2									
Time (hh:mm)		16:40-16:42											
Water Depth (m)		9.1											
Monitoring Depth (m)	1	.0											
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom					
							averaged						
Water Temperature (°C)	24.8	25.0	24.1	24.4	24.2	24.4	24.48	-					
Salinity (ppt)	26.2	25.9	27.46	-									
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90						
D.O. Saturation (%)	80.7	78.7	81.6	78.4	82.7	77.8	79.98	-					
D.O. (mg/L)	6.1	6.0	6.2	6.0	6.3	5.8	6.05	6.05					
Turbidity (NTU)	6.2	6.3	7.3	7.2	8.5	8.4	7.32	-					
SS (mg/L)	6.0	6.0	6.0	6.0	7.0	6.0	6.17	-					
Remarks	Dredging works was observed.												

Station			IV	IP			1				
Time (hh:mm)			16:23	-16:23							
Water Depth (m)											
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	24.8	24.8	-	-	25.0	24.9	24.88	-			
Salinity (ppt)	25.7	24.5	25.73	-							
pH	7.9	7.9	-	-	7.9	7.9	7.90				
D.O. Saturation (%)	80.9	81.3	-	-	80.9	80.4	80.88	-			
D.O. (mg/L)	6.1	6.1 6.2 6.1 6.1 6.13 6.0									
Turbidity (NTU)	7.2	7.2	-	-	7.4	7.4	7.30	-			
SS (mg/L)	6.0	6.0	-	-	4.0	5.0	5.25	-			
Remarks		Dredging works was observed.									

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	30%	IM	01	IM	02		MPB1	MF	B2	IV	IP.
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	6.2	6.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.2	6.2	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	5.3	5.3	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.9	8.9	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/20/08
Weather & Ambient Temperature	Sunny, 25C

Station			C1 (NM3)							
Time (hh:mm)			13:16	-13:18							
Water Depth (m)			16	6.3							
Monitoring Depth (m)	1	.0	8								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	24.8	24.9	24.1	24.0	23.9	23.8	24.23	-			
Salinity (ppt)	27.1	27.1	29.3	29.6	29.9	30.0	28.81	-			
pH	7.9	7.9	7.9	7.9	7.9	8.0	7.94				
D.O. Saturation (%)	81.4	80.4	79.1	80.5	81.6	78.4	80.23	-			
D.O. (mg/L)	6.1	6.1	6.0	6.1	6.2	5.9	6.05	6.04			
Turbidity (NTU)	2.3	2.3	3.1	3.2	3.2	3.3	2.90	-			
SS (mg/L)	6.0	7.0	6.0	6.0	5.0	6.0	6.00	-			
Remarks		Dredging works was observed.									

Station			C3 (NM6)							
Time (hh:mm)			12:00	-12:01							
Water Depth (m)			6								
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	24.6	24.8	24.6	24.5	24.7	24.5	24.60	-			
Salinity (ppt)	27.5	26.7	26.9	28.3	28.5	28.3	27.70	-			
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90				
D.O. Saturation (%)	82.5	81.5	80.6	82.0	81.9	79.6	81.35	-			
D.O. (mg/L)	6.2	6.2	6.1	6.2	6.1	6.0	6.13	6.07			
Turbidity (NTU)	5.0	5.3	5.3	5.2	5.5	5.5	5.30	-			
SS (mg/L)	6.0	5.0	7.0	5.0	5.0	6.0	5.67	-			
Remarks		Dredging works was observed.									

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			12:50	-12:52			Northing	Easting		
Water Depth (m)			8	.4			22.21.214	113.53.773		
Monitoring Depth (m)	1.0 4.2			7	'.4					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.0	27.1	24.0	24.0	24.0	24.0	25.01	-		
Salinity (ppt)	26.5	26.6	29.6	28.7	28.8	29.6	28.30	-		
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.91			
D.O. Saturation (%)	81.3	80.4	81.8	82.0	82.3	82.4	81.70	-		
D.O. (mg/L)	5.9	5.8	6.2	6.2	6.2	6.2	6.09	6.22		
Turbidity (NTU)	3.4	3.2	3.4	3.4	3.2	3.3	3.32	-		
SS (mg/L)	6.0 6.0 4.0 5.0 6.0 6.0						5.50	-		
Remarks		Dredging works was observed.								

Station			IM	102			Co-ordinate	s		
Time (hh:mm)			13:01	-13:03			Northing	Easting		
Water Depth (m)			8	3.7			22.21.290	113.54.599		
Monitoring Depth (m)	1	.0	4	4.4 7.7		.7				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	25.6	25.7	24.2	24.0	23.9	23.7	24.50	-		
Salinity (ppt)	27.6	27.4	29.2	29.3	29.9	29.8	28.85	-		
pH	7.9	8.0	8.0	7.9	8.0	7.9	7.95			
D.O. Saturation (%)	83.6	84.3	82.8	82.6	84.4	84.4	83.68	-		
D.O. (mg/L)	6.2	6.2	6.2	6.2	6.4	6.4	6.28	6.38		
Turbidity (NTU)	2.6	2.6	3.5	3.6	3.4	3.4	3.18	-		
SS (mg/L)	5.0	5.0	6.0	7.0	5.0	6.0	5.67	-		
Remarks		Dredging works was observed.								

Station			MF	PB1					
Time (hh:mm)			12:27	-12:28					
Water Depth (m)			8	.8					
Monitoring Depth (m)	1	.0	4	.4	7	.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.8	24.7	24.4	24.3	24.6	24.4	24.54	-	
Salinity (ppt)	26.0	26.3	27.0	27.1	28.4	28.9	27.28	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.87		
D.O. Saturation (%)	81.5	81.5	81.7	82.1	82.4	82.5	81.95	-	
D.O. (mg/L)	6.2	6.2	6.2	6.2	6.2	6.2	6.19	6.19	
Turbidity (NTU)	8.2	8.6	8.4	8.2	8.3	8.3	8.33	-	
SS (mg/L)	6.0	5.0	6.0	5.0	6.0	6.0	5.67	-	
Remarks	Dredging works was observed.								

Station			MF	PB2						
Time (hh:mm)			12:16	-12:16						
Water Depth (m)			9	.3						
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	24.7	24.7	24.2	24.3	24.5	24.5	24.49	-		
Salinity (ppt)	26.6	26.1	27.8	27.4	28.9	28.8	27.59	-		
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88			
D.O. Saturation (%)	81.7	81.5	82.8	82.1	82.6	82.6	82.22	-		
D.O. (mg/L)	6.2	6.2	6.3	6.2	6.2	6.2	6.21	6.20		
Turbidity (NTU)	6.8	6.9	7.3	7.2	7.2	7.2	7.10	-		
SS (mg/L)	6.0	6.0	5.0	5.0	8.0	9.0	6.50	-		
Remarks		Dredging works was observed.								

Station			IV	IP							
Time (hh:mm)			12:37	-12:38							
Water Depth (m)			5	.7							
Monitoring Depth (m)	1.	.0	2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	24.8	24.9	-	-	24.7	24.9	24.81	-			
Salinity (ppt)	25.7	25.6	-	-	26.7	26.8	26.21	-			
pH	7.9	7.9	-	-	7.9	7.9	7.92				
D.O. Saturation (%)	79.8	77.3	-	-	76.4	79.1	78.15	-			
D.O. (mg/L)	6.1	5.9	-	-	5.8	6.0	5.91	5.86			
Turbidity (NTU)	6.5	6.5	-	-	6.4	6.4	6.45	-			
SS (mg/L)	7.0	6.0	-	-	7.0	5.0	6.25	-			
Remarks		Dredging works was observed.									

Compliance with Action an	Impliance with Action and Limit Level													
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2	IMO2		MPB1		PB2	IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	6.1	6.1	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.1	6.1	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	5.3	5.3	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	7.6	7.6	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/21/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C2 /	NIME			1				
				NM5)							
Time (hh:mm)			6:11	-6:14							
Water Depth (m)											
Monitoring Depth (m)	1	.0	10	0.5	20	0.0					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.6	27.6	26.3	26.2	25.3	25.2	26.37	-			
Salinity (ppt)	22.4	22.3	26.5	26.6	29.3	29.5	26.09	-			
pH	7.5	7.5	7.6	7.6	7.5	7.5	7.54				
D.O. Saturation (%)	79.9	78.2	69.9	67.4	64.7	65.5	70.93	-			
D.O. (mg/L)	5.5	5.3	4.8	4.6	4.4	4.5	4.84	4.45			
Turbidity (NTU)	5.7	5.7	7.6	7.7	9.2	9.6	7.58	-			
SS (mg/L)	5.0	4.0	4.50	-							
Remarks		Dredging works was observed.									

Station			IM	01			Co-or	dinates
Time (hh:mm)			5:00	-5:03			Northing	Easting
Water Depth (m)				22.21.225	113.53.667			
Monitoring Depth (m)	1	.0		•				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.4	27.4	26.4	26.5	26.3	26.1	26.66	-
Salinity (ppt)	21.9	21.9	25.6	25.5	26.3	26.5	24.61	-
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.56	
D.O. Saturation (%)	77.4	78.7	71.1	72.2	72.3	71.1	73.80	-
D.O. (mg/L)	5.3	5.4	4.9	4.9	4.9	4.86	5.05	4.90
Turbidity (NTU)	5.8	5.8	7.2	7.4	9.9	9.1	7.53	-
SS (mg/L)	4.0	4.0	4.33	-				
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-or	dinates
Time (hh:mm)			4:49	-4:52			Northing	Easting
Water Depth (m)				22.21.106	113.54.516			
Monitoring Depth (m)	1	.0		•				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	26.9	26.9	26.1	26.3	26.0	26.0	26.35	-
Salinity (ppt)	23.2	23.2	26.1	25.7	26.6	26.6	25.23	-
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.59	
D.O. Saturation (%)	74.7	74.7	67.4	68.9	68.2	68.7	70.43	-
D.O. (mg/L)	5.1	5.1	4.6	4.7	4.7	4.71	4.83	4.70
Turbidity (NTU)	7.0	7.2	9.7	9.6	10.1	9.9	8.92	-
SS (mg/L)	4.0	5.0	4.0	4.33	-			
Remarks			D	redging wor	ks was obse	rved.	-	

Station			MF	PB1			1			
Time (hh:mm)			5:41	-5:44						
Water Depth (m)										
Monitoring Depth (m)	1	.0	4	.3	7	.5				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.5	27.5	26.6	26.6	26.2	26.2	26.75	-		
Salinity (ppt)	18.8	18.8 19.1 23.3 23.2 25.7 25.6						-		
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.47			
D.O. Saturation (%)	74.4	73.5	68.1	68.0	67.5	68.7	70.03	-		
D.O. (mg/L)	5.2	5.1	4.7	4.7	4.6	4.7	4.84	4.68		
Turbidity (NTU)	6.4	6.3	8.7	8.9	10.3	9.7	8.38	-		
SS (mg/L)	4.0	4.0 3.0 5.0 4.0 4.0 3.0 3.83 -								
Remarks			D	redging wor	ks was obse	rved.				

Station			M	PB2						
Time (hh:mm)										
Water Depth (m)										
Monitoring Depth (m)	1	.0	4	.7	8	.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	28.0	27.8	26.5	26.6	26.3	26.4	26.92	-		
Salinity (ppt)	17.2	17.4	24.1	23.5	25.2	24.8	22.02	-		
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.52			
D.O. Saturation (%)	76.3	75.8	69.3	68.8	72.0	72.0	72.37	-		
D.O. (mg/L)	5.3	5.3	4.8	4.7	4.9	4.9	5.00	4.94		
Turbidity (NTU)	6.5	6.5	9.2	9.4	10.4	11.3	8.88	-		
SS (mg/L)	5.0	5.0	4.0	5.0	4.0	5.0	4.67	-		
Remarks		Dredging works was observed.								

Station			IV	IP			1				
Time (hh:mm)			5:58	-6:00							
Water Depth (m)											
Monitoring Depth (m)	1	.0	3	.0	4	.9					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.6	27.5	-	-	26.5	26.6	27.05	-			
Salinity (ppt)	19.2	18.5	-	-	23.7	23.8	21.31	-			
pH	7.4	7.4	-	-	7.4	7.4	7.38				
D.O. Saturation (%)	75.2	74.8	-	-	71.3	73.9	73.80	-			
D.O. (mg/L)	5.2	5.2	-	-	4.9	5.1	5.10	5.00			
Turbidity (NTU)	6.2	6.2	-	-	12.5	12.8	9.43	-			
SS (mg/L)	4.0	4.0 4.0 4.0 3.0 3.75									
Remarks		Dredging works was observed.									

Compliance with Action an	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	30%	IMO1		IM	02		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.4	4.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.8	4.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.9	9.9	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	5.9	5.9	N	N	N	N	N	N	Ν	N	N	N

Sampling Date	10/21/2008
Weather & Ambient Temperature	Sunny, 29C

Station			C1 (NM3)							
Time (hh:mm)			17:28								
Water Depth (m)			16								
Monitoring Depth (m)	1	.0	8								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.7	27.7	27.4	27.4	26.7	26.8	27.26	-			
Salinity (ppt)	24.3	24.1	25.0	25.2	27.1	26.9	25.42	-			
pH	7.5	7.5	7.5	7.5	7.4	7.4	7.46				
D.O. Saturation (%)	80.1	79.1	73.5	72.4	71.2	71.5	74.63	-			
D.O. (mg/L)	5.5	5.4	5.0	5.0	4.9	4.9	5.11	4.89			
Turbidity (NTU)	5.7	5.6	7.2	7.3	11.4	11.1	8.05	-			
SS (mg/L)	3.0	4.0	3.0	4.0	3.50	-					
Remarks		Dredging works was observed.									

Station			C3 (NM6)						
Time (hh:mm)			16:04	-16:07						
Water Depth (m)			7	'.2						
Monitoring Depth (m)	1	.0	3	3.6	6	.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.5	28.5	27.7	27.8	26.9	26.9	27.71	-		
Salinity (ppt)	17.1	17.0	20.2	20.2	25.4	25.4	20.90	-		
pH	7.3	7.3	7.4	7.4	7.3	7.3	7.32			
D.O. Saturation (%)	78.4	78.4	74.0	73.1	71.7	70.9	74.42	-		
D.O. (mg/L)	5.5	5.5	5.2	5.1	4.9	4.9	5.17	4.90		
Turbidity (NTU)	6.3	6.6	9.6	9.5	10.6	9.9	8.75	-		
SS (mg/L)	3.0	4.0	3.0	2.0	4.0	3.0	3.17	-		
Remarks		Dredging works was observed.								

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			17:05	-17:08			Northing	Easting		
Water Depth (m)			7		22.21.234	113.53.653				
Monitoring Depth (m)	1	.0	3							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.0	28.0	27.4	27.5	27.1	27.2	27.52	-		
Salinity (ppt)	21.0	20.8	24.6	24.5	25.8	25.6	23.73	-		
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.41			
D.O. Saturation (%)	76.8	77.3	74.2	74.7	74.3	74.8	75.35	-		
D.O. (mg/L)	5.3	5.3	5.1	5.1	5.1	5.1	5.17	5.10		
Turbidity (NTU)	6.5	6.5	6.4	6.1	8.0	8.3	6.97	-		
SS (mg/L)	3.0	3.0	4.0	4.0	3.83	-				
Remarks		Dredging works was observed.								

Station			IM	02			Co-ordinate	es		
Time (hh:mm)			17:15	-17:18			Northing	Easting		
Water Depth (m)			7		22.21.114	113.54.508				
Monitoring Depth (m)	1	.0	3							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.6	27.7	27.3	27.4	26.8	26.8	27.27	-		
Salinity (ppt)	22.2	22.1	23.9	23.7	26.2	26.2	24.05	-		
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.41			
D.O. Saturation (%)	72.1	72.2	68.3	70.0	68.0	66.6	69.53	-		
D.O. (mg/L)	5.0	5.0	4.7	4.8	4.7	4.6	4.79	4.63		
Turbidity (NTU)	7.7	7.7	8.5	8.5	11.5	12.4	9.38	-		
SS (mg/L)	5.0	4.0	3.0	6.0	4.67	-				
Remarks		Dredging works was observed.								

Station			MF	PB1				
Time (hh:mm)			16:34					
Water Depth (m)			8					
Monitoring Depth (m)	1	.0	4	.2	7	.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.4	28.3	27.7	27.8	27.1	27.0	27.73	-
Salinity (ppt)	17.6	18.0	22.2	21.5	25.3	25.9	21.75	-
pH	7.3	7.3	7.3	7.3	7.4	7.4	7.32	
D.O. Saturation (%)	75.1	75.2	72.0	72.4	71.2	71.0	72.82	-
D.O. (mg/L)	5.2	5.2	5.0	5.0	4.9	4.9	5.04	4.88
Turbidity (NTU)	7.1	7.0	7.8	7.8	9.5	9.7	8.15	-
SS (mg/L)	5.0	4.0	3.0	4.0	3.0	5.0	4.00	-
Remarks	Dredging works was observed.							

Station			MF	PB2						
Time (hh:mm)			16:24							
Water Depth (m)			9	.2						
Monitoring Depth (m)	1	.0	4	.6	8	.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.5	28.5	27.5	27.5	27.2	27.2	27.72	-		
Salinity (ppt)	16.7	16.6	22.9	23.0	24.5	24.5	21.37	-		
pH	7.3	7.3	7.4	7.3	7.3	7.4	7.32			
D.O. Saturation (%)	75.2	74.0	70.1	70.2	71.7	71.1	72.05	-		
D.O. (mg/L)	5.3	5.2	4.8	4.8	4.9	4.9	4.99	4.91		
Turbidity (NTU)	7.1	7.2	11.4	11.7	11.9	12.4	10.28	-		
SS (mg/L)	3.0	4.0	3.0	4.0	5.0	4.0	3.83	-		
Remarks		Dredging works was observed.								

Station			IV	IP					
Time (hh:mm)			16:52						
Water Depth (m)			5	.6					
Monitoring Depth (m)	1.	.0	2	.8	4	.6			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	28.2	28.2	-	-	27.2	27.2	27.70	-	
Salinity (ppt)	18.5	18.2	21.13	-					
pH	7.3	7.2	-	-	7.4	7.3	7.30		
D.O. Saturation (%)	73.6	74.6	-	-	72.5	72.0	73.18	-	
D.O. (mg/L)	5.1	5.2	-	-	5.0	5.0	5.07	4.98	
Turbidity (NTU)	6.9	7.1	-	-	11.2	10.9	9.03	-	
SS (mg/L)	4.0	5.0	-	-	4.0	6.0	4.75	-	
Remarks		Dredging works was observed.							

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	Mean(C1+C3)*130%		101	IMO2		MPB1		MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.9	4.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.1	5.1	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	10.9	10.9	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	4.3	4.3	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/22/08
Weather & Ambient Temperature	Cloudy, 29C

Station			C2 (NM5)			1				
Time (hh:mm)			6:44	-6:47							
Water Depth (m)											
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	29.1	28.5	28.9	28.9	28.7	28.8	28.82	-			
Salinity (ppt)	27.0	27.5	27.8	27.9	28.2	28.2	27.78	-			
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.45				
D.O. Saturation (%)	94.9	97.5	97.5	95.9	97.4	95.0	96.37	-			
D.O. (mg/L)	7.7	8.0	7.9	7.8	7.9	7.7	7.83	7.81			
Turbidity (NTU)	2.1	2.1	5.7	6.2	10.6	10.7	6.23	-			
SS (mg/L)	4.0	4.0	4.17	-							
Remarks		Dredging works was observed.									

Station			IM	01			Co-ord	dinates	
Time (hh:mm)			7:02	-7:03			Northing	Easting	
Water Depth (m)			9	.1			22.21.471	113.53.726	
Monitoring Depth (m)	1	.0		-					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	28.7	28.8	28.7	28.7	28.7	28.7	28.70	-	
Salinity (ppt)	28.6	28.4	28.6	28.6	24.0	28.6	27.82	-	
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.47		
D.O. Saturation (%)	95.7	95.9	93.6	96.7	98.8	97.0	96.28	-	
D.O. (mg/L)	7.7	7.8	7.6	7.8	8.2	7.86	7.84	8.05	
Turbidity (NTU)	1.7	1.7	5.1	5.4	5.3	5.3	4.08	-	
SS (mg/L)	4.0 4.0 5.0 6.0 4.0 4.0							-	
Remarks	Dredging works was observed.								

Station			IM	02			Co-ord	dinates		
Time (hh:mm)			7:15	-7:17			Northing	Easting		
Water Depth (m)			10).9			22.20.742	113.54.055		
Monitoring Depth (m)	1	.0								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	28.8	28.8	28.7	28.7	28.7	28.7	28.72	-		
Salinity (ppt)	28.4	28.4	28.7	28.6	28.8	28.7	28.62	-		
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.47			
D.O. Saturation (%)	94.6	94.8	96.5	94.9	97.1	96.2	95.68	-		
D.O. (mg/L)	7.7	7.7	7.8	7.7	7.9	7.79	7.75	7.83		
Turbidity (NTU)	1.5	1.5	3.7	3.5	4.5	4.2	3.15	-		
SS (mg/L)	4.0 4.0 4.0 3.0 4.0 3.0							-		
Remarks		Dredging works was observed.								

Station			MF	PB1			1				
Time (hh:mm)			6:18	-6:19							
Water Depth (m)			8	.2							
Monitoring Depth (m)	1	.0									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	29.0	29.0	29.0	29.0	29.0	29.0	28.98	-			
Salinity (ppt)	27.5	27.4	28.0	27.4	27.4	27.4	27.49	-			
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.45				
D.O. Saturation (%)	95.6	96.0	96.4	95.3	95.2	95.8	95.72	-			
D.O. (mg/L)	7.8	7.8	8.0	7.7	7.7	7.8	7.80	7.75			
Turbidity (NTU)	4.0	3.8	4.5	4.07	-						
SS (mg/L)	4.0	4.0	4.0	4.50	-						
Remarks		Dredging works was observed.									

Station			MI	PB2					
Time (hh:mm)			6:09	-6:10					
Water Depth (m)									
Monitoring Depth (m)	1	.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	28.9	28.9	28.9	28.9	28.9	28.9	28.85	-	
Salinity (ppt)	27.2	27.6	27.5	27.7	27.4	27.6	27.50	-	
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.46		
D.O. Saturation (%)	97.0	96.2	96.2	95.9	96.8	96.3	96.40	=	
D.O. (mg/L)	7.9	7.8	7.8	7.8	7.9	7.8	7.84	7.85	
Turbidity (NTU)	5.0	5.2	4.7	5.3	5.2	5.2	5.10	=	
SS (mg/L)	4.0	4.0	5.0	4.50	-				
Remarks	Dredging works was observed.								

Station			N	IP			1		
Time (hh:mm)			6:27	-6:28					
Water Depth (m)									
Monitoring Depth (m)	1	.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	
Water Temperature (°C)	29.1	29.1	-	-	29.1	29.0	29.05	-	
Salinity (ppt)	26.9	26.9	-	-	27.0	27.0	26.96	-	
pH	7.4	7.4	-	-	7.4	7.4	7.41		
D.O. Saturation (%)	95.5	95.7	-	-	94.8	95.1	95.28	-	
D.O. (mg/L)	7.8	7.8	-	-	7.7	7.7	7.74	7.72	
Turbidity (NTU)	2.5	2.6	-	-	3.5	3.5	3.03	-	
SS (mg/L)	4.0	4.0	3.0	3.75	-				
Remarks	Dredging works was observed.								

Compliance with Action at	Compliance with Action and Limit Level													
Parameter	As in	EM&A	C2*1	130%	IIV	IMO1		IMO2		MPB1		MPB2		/IP
	Action Limit		Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedance of Limit Level		Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	7.8	7.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.8	7.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.1	8.1	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	5.4	5.4	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/22/08
Weather & Ambient Temperature	Cloudy, 30C

Station			C1 (NM3)							
Time (hh:mm)			18:27	-18:29							
Water Depth (m)			16	6.2							
Monitoring Depth (m)	1	.0	8								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	29.1	29.2	29.0	28.9	28.9	28.9	28.99	-			
Salinity (ppt)	27.0	27.0	27.7	27.8	28.0	28.0	27.57	-			
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.44				
D.O. Saturation (%)	95.5	95.0	94.3	94.7	94.9	94.8	94.87	-			
D.O. (mg/L)	7.8	7.7	7.7	7.7	7.7	7.7	7.69	7.69			
Turbidity (NTU)	3.1	3.1	3.4	3.1	3.4	3.3	3.23	-			
SS (mg/L)	3.0	3.0	3.0	4.0	3.0	4.0	3.33	-			
Remarks		Dredging works was observed.									

Station			C3 (NM6)							
Time (hh:mm)			19:48	-19:50							
Water Depth (m)			6	.9							
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.8	28.8	28.8	28.8	28.8	28.7	28.77	-			
Salinity (ppt)	27.9	27.7	27.7	27.9	27.7	27.9	27.79	-			
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.47				
D.O. Saturation (%)	100.2	101.3	102.2	100.2	100.2	103.9	101.33	-			
D.O. (mg/L)	8.1	8.2	8.3	8.1	8.2	8.5	8.24	8.30			
Turbidity (NTU)	3.6	3.5	3.9	3.9	4.4	4.5	3.97	-			
SS (mg/L)	3.0	3.0	3.0	3.0	3.0	4.0	3.17	-			
Remarks		Dredging works was observed.									

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			18:50	-18:52			Northing	Easting		
Water Depth (m)			8	.9		22.21.451	113.53.798			
Monitoring Depth (m)	1	1.0 4.5 7.9								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.8	28.8	28.7	28.7	28.7	28.7	28.72	-		
Salinity (ppt)	28.4	28.4	28.6	28.6	28.7	26.8	28.24	-		
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.47			
D.O. Saturation (%)	95.9	95.4	95.8	93.3	95.3	95.8	95.25	-		
D.O. (mg/L)	7.8	7.7	7.8	7.6	7.7	7.9	7.73	7.79		
Turbidity (NTU)	2.9	2.9	5.8	6.4	5.9	6.3	5.03	-		
SS (mg/L)	4.0	3.0	3.0	3.0	4.0	4.0	3.50	-		
Remarks		Dredging works was observed.								

Station			IM	102			Co-ordinate	s		
Time (hh:mm)			18:39	-18:41			Northing	Easting		
Water Depth (m)			11		22.20.757	113.54.035				
Monitoring Depth (m)	1	.0	5	5.7	10	0.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.8	28.8	28.7	28.7	28.7	28.7	28.71	-		
Salinity (ppt)	28.4	28.5	27.6	28.7	28.7	28.7	28.42	-		
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.48			
D.O. Saturation (%)	96.5	95.6	94.7	95.2	95.9	95.7	95.60	-		
D.O. (mg/L)	7.8	7.7	7.7	7.7	7.8	7.8	7.75	7.76		
Turbidity (NTU)	2.9	2.7	2.6	2.9	2.9	2.8	2.80	-		
SS (mg/L)	2.0	3.0	4.0	4.0	3.0	3.0	3.17	-		
Remarks		Dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			19:17	-19:19						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	29.0	29.0	29.0	29.0	29.0	29.0	28.98	-		
Salinity (ppt)	27.4	24.6	27.5	27.4	27.9	27.4	27.04	-		
pH	7.4	7.5	7.4	7.5	7.4	7.5	7.44			
D.O. Saturation (%)	97.5	96.0	98.1	96.4	100.2	97.3	97.58	-		
D.O. (mg/L)	7.9	7.9	8.0	7.8	8.1	7.9	7.94	8.01		
Turbidity (NTU)	5.6	5.7	6.4	5.9	5.7	6.3	5.93	-		
SS (mg/L)	3.0	2.0	4.0	5.0	5.0	4.0	3.83	-		
Remarks		Dredging works was observed.								

Station			MF	B2						
Time (hh:mm)			19:27	-19:29						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.9	28.9	28.9	28.9	28.9	28.9	28.85	-		
Salinity (ppt)	27.6	27.6	27.5	27.6	27.6	27.5	27.57	-		
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.46			
D.O. Saturation (%)	96.6	97.1	97.6	96.4	97.0	98.4	97.18	-		
D.O. (mg/L)	7.9	7.9	7.9	7.8	7.9	8.0	7.90	7.94		
Turbidity (NTU)	4.8	4.7	5.1	5.4	5.1	5.2	5.05	-		
SS (mg/L)	3.0	2.0	3.0	3.0	3.0	4.0	3.00	-		
Remarks		Dredging works was observed.								

Station			IV	IP						
Time (hh:mm)			19:07	-19:09						
Water Depth (m)			5							
Monitoring Depth (m)	1.	.0	2							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	29.1	29.1	-	-	29.1	29.1	29.09	-		
Salinity (ppt)	27.0	26.9	-	-	27.0	27.3	27.04	-		
pH	7.4	7.4	-	-	7.4	7.4	7.39			
D.O. Saturation (%)	98.7	96.6	-	-	95.7	100.5	97.88	-		
D.O. (mg/L)	8.0	7.9	-	-	7.8	8.1	7.95	7.96		
Turbidity (NTU)	1.9	1.9	-	-	2.3	2.1	2.05	-		
SS (mg/L)	3.0	2.0	-	-	3.0	3.0	2.75	-		
Remarks		Dredging works was observed.								

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	IO1	IMO2	12		MPB1	MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	8.0	8.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	8.0	8.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	4.7	4.7	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	4.2	4.2	N	N	N	N	N	N	N	N	N	Ν

Sampling Date	10/23/08
Weather & Ambient Temperature	Fine, 28C

Station			C2 (NM5)			1	
Time (hh:mm)			- 1	-21:56				
Water Depth (m)			20).4				
Monitoring Depth (m)	1	.0	10).2	19	9.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.7	27.7	27.2	27.1	26.9	26.9	27.25	-
Salinity (ppt)	22.7	22.8	27.6	27.7	28.7	28.7	26.35	-
pH	7.1	7.1	7.2	7.2	7.2	7.2	7.13	
D.O. Saturation (%)	86.3	85.3	82.9	81.8	85.7	85.5	84.58	-
D.O. (mg/L)	5.9	5.9	5.6	5.5	5.8	5.8	5.74	5.77
Turbidity (NTU)	3.9	4.1	5.7	5.5	6.8	6.6	5.43	-
SS (mg/L)	6.0	5.0	6.0	5.0	4.0	5.0	5.17	-
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	01			Co-ore	dinates
Time (hh:mm)			21:08	-21:10			Northing	Easting
Water Depth (m)			7	.6			22.21.166	113.53.565
Monitoring Depth (m)	1	.0	3	.8	6	.6		-
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.0	28.0	26.7	26.7	26.5	26.5	27.06	-
Salinity (ppt)	28.6	28.5	29.6	29.6	30.1	30.0	29.41	-
pH	7.1	7.2	7.2	7.2	7.3	7.3	7.20	
D.O. Saturation (%)	85.5	84.8	78.3	79.7	81.4	81.1	81.80	-
D.O. (mg/L)	5.7	5.7	5.3	5.2	5.5	5.46	5.46	5.47
Turbidity (NTU)	5.7	5.5	6.6	6.5	7.9	7.6	6.63	-
SS (mg/L)	4.0	4.0	5.0	4.0	6.0	5.0	4.67	-
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ord	Co-ordinates			
Time (hh:mm)				Northing	Easting						
Water Depth (m)			9	.2			22.21.041	113.54.310			
Monitoring Depth (m)	1	.0	4	.6	8	.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	27.4	27.4	26.6	26.6	26.4	26.4	26.82	-			
Salinity (ppt)	29.2	29.1	30.0	30.0	30.2	30.2	29.79	-			
pH	7.2	7.2	7.2	7.1	7.1	7.1	7.14				
D.O. Saturation (%)	86.0	86.8	83.7	84.6	85.7	84.2	85.17	-			
D.O. (mg/L)	5.7	5.8	5.6	5.7	5.8	5.75	5.73	5.77			
Turbidity (NTU)	4.2	4.3	5.1	4.8	5.3	5.5	4.87	-			
SS (mg/L)	4.0	4.0	5.0	4.0	6.0	5.0	4.67	-			
Remarks		Dredging works was observed.									

Station			MF	PB1			1				
Time (hh:mm)			21:21	-21:23							
Water Depth (m)											
Monitoring Depth (m)	1	.0	3	3.9	6	.8					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	28.0	27.9	27.6	27.6	27.3	27.4	27.63	-			
Salinity (ppt)	22.6	22.5	24.8	24.8	26.5	26.5	24.61	-			
pH	7.1	7.1	7.1	7.1	7.1	7.1	7.11				
D.O. Saturation (%)	87.9	86.6	86.1	86.8	90.0	89.0	87.73	-			
D.O. (mg/L)	6.0	6.0	5.9	5.9	6.1	6.0	5.99	6.08			
Turbidity (NTU)	4.1	3.8	4.9	4.8	5.3	5.5	4.73	-			
SS (mg/L)	3.0	4.0	4.0	5.0	4.0	5.0	4.17	-			
Remarks		Dredging works was observed.									

Station			MI	PB2					
Time (hh:mm)									
Water Depth (m)			8	3.4					
Monitoring Depth (m)	1	.0	4	.2	7	.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	27.9	27.9	27.6	27.6	27.5	27.5	27.70	-	
Salinity (ppt)	22.9	22.9	25.1	25.0	25.5	25.3	24.45	-	
pH	7.1	7.1	7.2	7.1	7.2	7.1	7.13		
D.O. Saturation (%)	87.9	87.7	88.8	88.5	90.7	89.6	88.87	-	
D.O. (mg/L)	6.0	6.0	6.0	6.0	6.2	6.1	6.06	6.14	
Turbidity (NTU)	3.0	3.1	3.4	3.5	3.9	4.2	3.52	-	
SS (mg/L)	4.0	4.0	4.0	4.0	3.0	3.0	3.67	-	
Remarks	Dredging works was observed.								

Station			N	IP			1		
Time (hh:mm)			21:31	-21:33					
Water Depth (m)									
Monitoring Depth (m)	1	.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	
Water Temperature (°C)	27.9	27.9	-	-	27.5	27.6	27.72	-	
Salinity (ppt)	24.1	23.9	-	-	25.0	25.1	24.53	-	
pH	7.1	7.1	-	-	7.1	7.2	7.13		
D.O. Saturation (%)	93.8	94.8	-	-	96.7	96.2	95.38	-	
D.O. (mg/L)	6.5	6.5	-	-	6.6	6.5	6.51	6.56	
Turbidity (NTU)	3.7	3.8	-	-	4.5	4.6	4.15	-	
SS (mg/L)	3.0	3.0	3.0	3.25	-				
Remarks		Dredging works was observed.							

Compliance with Action at	omphance with Action and Limit Level													
Parameter	As in	EM&A	C2*1	30%	IIV	IMO1		IMO2		MPB1		PB2	IV	IP.
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.8	5.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.7	5.7	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	7.1	7.1	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	6.7	6.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/23/08
Weather & Ambient Temperature	Sunny, 28C

Station			C1 (NM3)					
Time (hh:mm)			15:48	-15:50					
Water Depth (m)			16	6.0					
Monitoring Depth (m)	1	.0	8						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.1	27.1	26.4	26.3	26.3	26.3	26.57	-	
Salinity (ppt)	29.2	29.1	30.0	30.0	30.2	30.2	29.81	-	
pH	7.0	7.0	7.0	7.0	7.0	7.0	6.99		
D.O. Saturation (%)	88.7	88.3	82.9	84.6	90.1	89.3	87.32	-	
D.O. (mg/L)	5.9	5.9	5.6	5.7	6.1	6.0	5.86	6.05	
Turbidity (NTU)	3.4	3.3	4.8	4.6	5.2	5.4	4.45	-	
SS (mg/L)	5.0	4.0	4.0	3.0	4.0	5.0	4.17	-	
Remarks	Dredging works was observed.								

Station			C3 (NM6)						
Time (hh:mm)			17:06	-17:08						
Water Depth (m)			6							
Monitoring Depth (m)	1	.0	3							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.7	27.6	27.1	27.1	27.1	27.0	27.28	-		
Salinity (ppt)	25.4	25.4	26.8	26.8	27.2	27.1	26.44	-		
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.18			
D.O. Saturation (%)	88.3	87.3	86.8	86.9	89.7	89.1	88.02	-		
D.O. (mg/L)	6.0	5.9	5.9	5.9	6.1	6.0	5.96	6.05		
Turbidity (NTU)	3.2	3.2	4.5	4.7	6.6	6.5	4.78	-		
SS (mg/L)	5.0	4.0	5.0	4.83	-					
Remarks		Dredging works was observed.								

Station			IM	01			Co-ordinate	S		
Time (hh:mm)			16:17	-16:20			Northing	Easting		
Water Depth (m)			8	.0			22.21.167	113.53.572		
Monitoring Depth (m)	1	.0	4	.0	7	'.O				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.4	27.4	27.0	27.0	26.4	26.5	26.93	-		
Salinity (ppt)	27.9	27.8	29.2	29.2	29.7	29.7	28.89	-		
pH	7.2	7.2	7.2	7.2	7.2	7.2	7.21			
D.O. Saturation (%)	85.4	83.9	77.9	78.4	83.0	82.6	81.87	-		
D.O. (mg/L)	5.7	5.6	5.2	5.2	5.6	5.6	5.47	5.57		
Turbidity (NTU)	3.8	3.9	5.1	5.2	5.8	5.9	4.95	-		
SS (mg/L)	4.0	4.0	5.0	6.0	3.0	3.0	4.17	-		
Remarks		Dredging works was observed.								

Station			IM	02			Co-ordinate	ites	
Time (hh:mm)			16:06	-16:09			Northing	Easting	
Water Depth (m)			9	.2			22.21.032	113.54.306	
Monitoring Depth (m)	1	.0	4	.6	8	.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.2	27.2	26.5	26.5	26.3	26.3	26.68	-	
Salinity (ppt)	27.5	27.5	29.1	7.2	29.7	29.7	28.76	-	
pH	7.2	7.1	7.2	7.2	7.2	7.2	7.16		
D.O. Saturation (%)	84.0	85.1	82.4	82.5	83.6	84.5	83.68	-	
D.O. (mg/L)	5.7	5.7	5.6	5.6	5.6	5.7	5.63	5.66	
Turbidity (NTU)	4.6	4.5	5.4	5.6	6.2	5.9	5.37	-	
SS (mg/L)	5.0	4.0	6.0	5.0	4.83	-			
Remarks				Dredo	jing works w	as observed.			

Station			MF	PB1					
Time (hh:mm)			16:38	-16:40					
Water Depth (m)			7						
Monitoring Depth (m)	1	.0							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.8	27.8	27.4	27.5	27.3	27.3	27.50	-	
Salinity (ppt)	22.4	22.5	24.5	24.4	25.9	25.8	24.26	-	
pH	7.1	7.1	7.2	7.1	7.2	7.2	7.14		
D.O. Saturation (%)	88.9	88.5	88.0	87.7	90.9	90.2	89.03	-	
D.O. (mg/L)	6.1	6.1	6.0	6.0	6.2	6.1	6.08	6.15	
Turbidity (NTU)	3.5	3.2	4.4	4.2	4.7	4.9	4.15	-	
SS (mg/L)	4.0	6.0	6.0	4.0	4.83	-			
Remarks		Dredging works was observed.							

Station			MF	PB2						
Time (hh:mm)			16:49	-16:51						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.7	27.7	27.6	27.6	27.6	27.6	27.66	-		
Salinity (ppt)	22.8	22.7	23.4	23.3	23.5	23.3	23.18	-		
pH	7.1	7.1	7.1	7.1	7.1	7.2	7.14			
D.O. Saturation (%)	90.4	90.0	91.0	91.1	91.6	91.3	90.90	-		
D.O. (mg/L)	6.2	6.2	6.2	6.2	6.3	6.2	6.22	6.25		
Turbidity (NTU)	3.8	3.7	4.4	4.2	5.3	5.5	4.48	-		
SS (mg/L)	3.0	4.0	4.33	-						
Remarks		Dredging works was observed.								

Station			IV	IP						
Time (hh:mm)			16:28	-16:30						
Water Depth (m)			5							
Monitoring Depth (m)	1.	.0	2							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.7	27.7	-	-	27.4	27.3	27.52	-		
Salinity (ppt)	24.0	24.0	-	-	25.3	25.4	24.68	-		
pH	7.2	7.2 7.1 7.2 7.2								
D.O. Saturation (%)	98.1	99.1	-	-	99.7	99.4	99.08	-		
D.O. (mg/L)	6.7	6.7	-	-	6.8	6.7	6.74	6.77		
Turbidity (NTU)	3.7	3.8	4.18	-						
SS (mg/L)	5.0	5.0 7.0 - 3.0 4.0 4.75								
Remarks		Dredging works was observed.								

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IMO1		IMO2		MPB1		MPB2		IV	IP.
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	6.0	6.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.9	5.9	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	6.0	6.0	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	5.9	5.9	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/24/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C2 (NM5)											
Time (hh:mm)															
Water Depth (m)			2	1.0											
Monitoring Depth (m)	1	.0	10	0.5	20	0.0									
Trial	Trial 1														
Water Temperature (°C)	27.6	27.6	26.3	26.2	25.3	25.2	26.37	-							
Salinity (ppt)	22.4	22.3	26.5	26.6	29.3	29.5	26.09	-							
pH	7.5	7.5	7.6	7.6	7.5	7.5	7.54								
D.O. Saturation (%)	79.9	78.2	69.9	67.4	64.7	65.5	70.93	-							
D.O. (mg/L)	5.5	5.3	4.8	4.6	4.4	4.5	4.84	4.45							
Turbidity (NTU)	5.7	5.7	7.6	7.7	9.2	9.6	7.58	-							
SS (mg/L)	7.0	7.0 5.0 4.0 3.0 3.0 4.0 4.33													
Remarks			D	redging wor	Dredging works was observed.										

Station			IM	01			Co-or	dinates
Time (hh:mm)			9:47	-9:50			Northing	Easting
Water Depth (m)			22.21.234	113.53.643				
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
			averaged					
Water Temperature (°C)	27.4	27.4	26.4	26.5	26.3	26.1	26.66	-
Salinity (ppt)	21.9	21.9	25.6	25.5	26.3	26.5	24.61	-
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.56	
D.O. Saturation (%)	77.4	78.7	71.1	72.2	72.3	71.1	73.80	-
D.O. (mg/L)	5.3	5.4	4.9	4.9	4.9	4.86	5.05	4.90
Turbidity (NTU)	5.8	5.8	7.2	7.4	9.9	9.1	7.53	-
SS (mg/L)	4.0	4.0	4.0	4.00	-			
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ore	dinates			
Time (hh:mm)			9:37	-9:40			Northing	Easting			
Water Depth (m)				22.21.119	113.54.530						
Monitoring Depth (m)	1	.0	3	.4	5	.8					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	26.9	26.9	26.1	26.3	26.0	26.0	26.35	-			
Salinity (ppt)	23.2	23.2	26.1	25.7	26.6	26.6	25.23	-			
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.59				
D.O. Saturation (%)	74.7	74.7	67.4	68.9	68.2	68.7	70.43	-			
D.O. (mg/L)	5.1	5.1	4.6	4.7	4.7	4.71	4.83	4.70			
Turbidity (NTU)	7.0	7.2	9.7	9.6	10.1	9.9	8.92	-			
SS (mg/L)	4.0	4.0	5.0	5.0	4.0	4.0	4.33	-			
Remarks		Dredging works was observed.									

Station			MF	PB1			1				
Time (hh:mm)			10:28	-10:32							
Water Depth (m)											
Monitoring Depth (m)	1	.0	4	.3	7	.5					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.5	27.5	26.6	26.6	26.2	26.2	26.75	-			
Salinity (ppt)	18.8	19.1	23.3	23.2	25.7	25.6	22.61	-			
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.47				
D.O. Saturation (%)	74.4	73.5	68.1	68.0	67.5	68.7	70.03	-			
D.O. (mg/L)	5.2	5.1	4.7	4.7	4.6	4.7	4.84	4.68			
Turbidity (NTU)	6.4	6.3	8.38	-							
SS (mg/L)	4.0	4.0 6.0 5.0 5.0 5.0 5.0 5.00									
Remarks		Dredging works was observed.									

Station			MF	PB2			1			
Time (hh:mm)			10:18	-10:20						
Water Depth (m)										
Monitoring Depth (m)	1	.0	4	.7	8	.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	28.0	27.8	26.5	26.6	26.3	26.4	26.92	-		
Salinity (ppt)	17.2	17.4	24.1	23.5	25.2	24.8	22.02	-		
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.52			
D.O. Saturation (%)	76.3	75.8	69.3	68.8	72.0	72.0	72.37	-		
D.O. (mg/L)	5.3	5.3	4.8	4.7	4.9	4.9	5.00	4.94		
Turbidity (NTU)	6.5	6.5	9.2	9.4	10.4	11.3	8.88	-		
SS (mg/L)	6.0	5.0	5.0	4.0	7.0	5.0	5.33	-		
Remarks		Dredging works was observed.								

Station			N	IP			1				
Time (hh:mm)			10:46	-10:47							
Water Depth (m)											
Monitoring Depth (m)	1	.0	3	.0	4	.9					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	27.6	27.5	-	-	26.5	26.6	27.05	-			
Salinity (ppt)	19.2	18.5	-	-	23.7	23.8	21.31	-			
pH	7.4	7.4	-	-	7.4	7.4	7.38				
D.O. Saturation (%)	75.2	74.8	-	-	71.3	73.9	73.80	-			
D.O. (mg/L)	5.2	5.2	-	-	4.9	5.1	5.10	5.00			
Turbidity (NTU)	6.2	6.2	-	-	12.5	12.8	9.43	-			
SS (mg/L)	6.0	6.0 5.0 5.0 5.0 5.25									
Remarks		Dredging works was observed.									

Compliance with Action at	ia Lilliit Lev	<u>rei</u>												
Parameter	As in	EM&A	C2*130%		C2*130% IMO1		IM	02		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.4	4.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.8	4.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.9	9.9	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	5.6	5.6	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/24/2008
Weather & Ambient Temperature	Sunny, 29C

Station			C1 (NM3)							
Time (hh:mm)			15:58	-16:01							
Water Depth (m)			16								
Monitoring Depth (m)	1	.0	8								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.7	27.7	27.4	27.4	26.7	26.8	27.26	-			
Salinity (ppt)	24.3	24.1	25.0	25.2	27.1	26.9	25.42	-			
pH	7.5	7.5	7.5	7.5	7.4	7.4	7.46				
D.O. Saturation (%)	80.1	79.1	73.5	72.4	71.2	71.5	74.63	-			
D.O. (mg/L)	5.5	5.4	5.0	5.0	4.9	4.9	5.11	4.89			
Turbidity (NTU)	5.7	5.6	7.2	7.3	11.4	11.1	8.05	-			
SS (mg/L)	5.0	4.0	5.0	5.0	4.0	4.0	4.50	-			
Remarks		Dredging works was observed.									

Station			C3 (NM6)							
Time (hh:mm)			14:33	-14:36							
Water Depth (m)			7								
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Depth-averaged	Bottom						
Water Temperature (°C)	28.5	28.5	27.7	27.8	26.9	26.9	27.71	-			
Salinity (ppt)	17.1	17.0	20.2	20.2	25.4	25.4	20.90	-			
pH	7.3	7.3	7.4	7.4	7.3	7.3	7.32				
D.O. Saturation (%)	78.4	78.4	74.0	73.1	71.7	70.9	74.42	-			
D.O. (mg/L)	5.5	5.5	5.2	5.1	4.9	4.9	5.17	4.90			
Turbidity (NTU)	6.3	6.6	9.6	8.75	-						
SS (mg/L)	4.0	3.0	5.0	6.0	4.50	-					
Remarks		Dredging works was observed.									

Station			IM	01			Co-ordinate	s			
Time (hh:mm)			15:34	-15:37			Northing	Easting			
Water Depth (m)			7	.5		22.21.236	113.53.651				
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.0	28.0	27.4	27.5	27.1	27.2	27.52	-			
Salinity (ppt)	21.0	20.8	24.6	24.5	25.8	25.6	23.73	-			
pH	7.4	7.4 7.4 7.4 7.4 7.4 7.4					7.41				
D.O. Saturation (%)	76.8	77.3	74.2	74.7	74.3	74.8	75.35	-			
D.O. (mg/L)	5.3	5.3	5.1	5.1	5.1	5.1	5.17	5.10			
Turbidity (NTU)	6.5	6.5	6.4	6.1	8.0	8.3	6.97	-			
SS (mg/L)	4.0	5.0	5.0	5.0	4.67	-					
Remarks		Dredging works was observed.									

Station			IM	02			Co-ordinate	es	
Time (hh:mm)			15:44	-15:47			Northing	Easting	
Water Depth (m)			7	.4			22.21.117	113.54.510	
Monitoring Depth (m)	1	.0	3						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.6	27.7	27.3	27.4	26.8	26.8	27.27	-	
Salinity (ppt)	22.2	22.1	23.9	7.4	26.2	26.2	24.05	-	
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.41		
D.O. Saturation (%)	72.1	72.2	68.3	70.0	68.0	66.6	69.53	-	
D.O. (mg/L)	5.0	5.0	4.7	4.8	4.7	4.6	4.79	4.63	
Turbidity (NTU)	7.7	7.7	8.5	8.5	11.5	12.4	9.38	-	
SS (mg/L)	5.0	5.0	4.0	5.0	4.83	-			
Remarks	Dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			15:03	-15:05						
Water Depth (m)			8	.4						
Monitoring Depth (m)	1	.0	4	.4						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.4	28.3	27.7	27.8	27.1	27.0	27.73	-		
Salinity (ppt)	17.6	18.0	22.2	21.5	25.3	25.9	21.75	-		
pH	7.3	7.3	7.3	7.3	7.4	7.4	7.32			
D.O. Saturation (%)	75.1	75.2	72.0	72.4	71.2	71.0	72.82	-		
D.O. (mg/L)	5.2	5.2	5.0	5.0	4.9	4.9	5.04	4.88		
Turbidity (NTU)	7.1	7.0	7.8	7.8	9.5	9.7	8.15	-		
SS (mg/L)	4.0	5.0	4.0	5.0	4.0	6.0	4.67	-		
Remarks		Dredging works was observed.								

Station			MF	PB2								
Time (hh:mm)			14:54	-14:56								
Water Depth (m)			9									
Monitoring Depth (m)	1	.0	4	.2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	28.5	28.5	27.5	27.5	27.2	27.2	27.72	-				
Salinity (ppt)	16.7	16.6	22.9	23.0	24.5	24.5	21.37	-				
pH	7.3	7.3	7.4	7.3	7.3	7.4	7.32					
D.O. Saturation (%)	75.2	74.0	70.1	70.2	71.7	71.1	72.05	-				
D.O. (mg/L)	5.3	5.2	4.8	4.8	4.9	4.9	4.99	4.91				
Turbidity (NTU)	7.1	7.2	11.4	11.7	11.9	12.4	10.28	-				
SS (mg/L)	5.0	7.0	5.0	5.0	6.0	6.0	5.67	-				
Remarks		Dredging works was observed.										

Station			IV	IP							
Time (hh:mm)			15:21	-15:23							
Water Depth (m)			5								
Monitoring Depth (m)	1	.0	2	.6							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.2	28.2	-	-	27.2	27.2	27.70	-			
Salinity (ppt)	18.5	18.2	-	-	24.0	23.9	21.13	-			
pH	7.3	7.2	-	-	7.4	7.3	7.30				
D.O. Saturation (%)	73.6	74.6	-	-	72.5	72.0	73.18	-			
D.O. (mg/L)	5.1	5.2	-	-	5.0	5.0	5.07	4.98			
Turbidity (NTU)	6.9	7.1	-	-	11.2	10.9	9.03	-			
SS (mg/L)	3.0	4.0	-	-	4.0	4.0	3.75	-			
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	6 IMO1		IMO2		MPB1		MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.9	4.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.1	5.1	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	10.9	10.9	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	5.9	5.9	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	25/10/2008
Weather & Ambient Temperature	Cloudy, 28C

Station			C2 (NM5)			1	
Time (hh:mm)			11:25	-11:26			1	
Water Depth (m)			18	3.8				
Monitoring Depth (m)	1	.0	9	.4	17	7.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	28.0	27.9	27.4	27.7	27.2	27.2	27.56	-
Salinity (ppt)	29.1	29.2	29.3	30.1	31.2	31.2	30.02	-
pH	7.5	7.5	7.5	7.5	7.4	7.4	7.45	
D.O. Saturation (%)	101.2	100.2	93.1	92.6	90.9	93.1	95.18	-
D.O. (mg/L)	6.8	6.7	6.3	6.2	6.1	6.2	6.39	6.18
Turbidity (NTU)	2.9	2.8	3.1	3.2	3.5	3.8	3.22	-
SS (mg/L)	8.0	6.0	4.0	4.0	3.0	4.0	4.83	1
Remarks			D	redging wor	ks was obse	rved.		•

Station			IM	101			Co-or	dinates
Time (hh:mm)			10:34	-10:35			Northing	Easting
Water Depth (m)			9	.2			22.21.305	113.53.841
Monitoring Depth (m)	1	.0	4	.6	8	.2		•
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.4	27.4	27.3	27.3	27.2	27.2	27.30	-
Salinity (ppt)	27.8	27.9	28.7	28.7	30.6	30.5	29.04	-
pH	7.4	7.4	7.4	7.3	7.2	7.2	7.32	
D.O. Saturation (%)	109.2	110.9	98.5	100.0	92.4	93.3	100.72	-
D.O. (mg/L)	7.4	7.6	6.7	6.8	6.2	6.27	6.82	6.24
Turbidity (NTU)	4.1	4.2	4.3	4.5	4.9	4.7	4.45	-
SS (mg/L)	4.0	4.0	4.0	3.0	5.0	4.0	4.00	-
Remarks			С	redging wor	ks was obse	rved.		

Station			IM	02			Co-ore	dinates								
Time (hh:mm)			10:23	-10:24			Northing	Easting								
Water Depth (m)				22.21.096	113.56.892											
Monitoring Depth (m)	1	.0														
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom								
							averaged									
Water Temperature (°C)	27.5	27.5	27.3	27.3	27.2	27.2	27.31	-								
Salinity (ppt)	27.2	28.0	28.9	28.9	30.3	30.3	28.95	-								
pH	7.4	7.4	7.4	7.4	7.2	7.3	7.34									
D.O. Saturation (%)	109.3	106.1	97.3	97.1	93.7	94.7	99.70	-								
D.O. (mg/L)	7.4	7.2	6.6	6.6	6.3	6.39	6.76	6.36								
Turbidity (NTU)	3.5	3.3	4.7	4.4	4.8	4.5	4.20	-								
SS (mg/L)	4.0	4.33	-													
Remarks			D	redging wor	ks was obse	Dredging works was observed.										

Station			MF	PB1				
Time (hh:mm)			10:58	-10:59				
Water Depth (m)								
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.4	27.4	27.3	27.3	27.3	27.3	27.33	-
Salinity (ppt)	27.8	27.9	28.3	28.4	28.9	29.0	28.37	-
pH	7.6	7.6	7.5	7.5	7.5	7.4	7.49	
D.O. Saturation (%)	110.9	111.0	103.9	105.9	105.8	102.7	106.70	-
D.O. (mg/L)	7.6	7.5	7.1	7.2	7.2	7.0	7.25	7.06
Turbidity (NTU)	3.4	3.3	3.5	3.3	4.5	4.2	3.70	-
SS (mg/L)	4.0	5.0	6.0	5.17	-			
Remarks		-	D	redging worl	ks was obse	rved.		

Station			MI	PB2				
Time (hh:mm)			10:48	-10:49				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.3	7	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.5	27.5	27.3	27.3	27.3	27.3	27.35	-
Salinity (ppt)	27.8	28.2	28.8	28.8	28.9	28.8	28.57	-
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.38	
D.O. Saturation (%)	109.5	106.1	102.9	105.5	105.4	105.6	105.83	-
D.O. (mg/L)	7.5	7.2	7.0	7.1	7.2	7.2	7.18	7.16
Turbidity (NTU)	4.1	4.2	4.4	4.3	4.8	4.9	4.45	-
SS (mg/L)	5.0	6.0	5.0	4.0	4.0	6.0	5.00	-
Remarks				redging wor	ks was obse	rved.		

Station			N	IP			1					
Time (hh:mm)			11:07	-11:08								
Water Depth (m)												
Monitoring Depth (m)	1	.0										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.4	27.4	-	-	27.3	27.3	27.36	-				
Salinity (ppt)	27.9	27.9	-	-	28.4	28.4	28.15	-				
pH	7.6	7.6	-	-	7.5	7.5	7.54					
D.O. Saturation (%)	110.5	116.3	-	-	113.7	111.2	112.93	-				
D.O. (mg/L)	7.5	7.9	-	-	7.7	7.6	7.68	7.65				
Turbidity (NTU)	3.5	3.7	-	-	3.8	3.8	3.70	-				
SS (mg/L)	5.0	5.0	6.0	5.50	-							
Remarks		Dredging works was observed.										

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	C2*130%		IMO1 IMO2		02	MPB1			PB2	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	6.2	6.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.4	6.4	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	4.2	4.2	N	N	N	N	N	N	Ν	N	N	N
SS (Depth-averaged)	24.0	37.0	6.3	6.3	N	N	N	N	N	N	N	N	N	N

Sampling Date	25/10/2008
Weather & Ambient Temperature	Cloudy, 29C

Station			C1 (
Time (hh:mm)			17:21					
Water Depth (m)			1:	5.6				
Monitoring Depth (m)	1	.0	7					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.9	27.9	27.4	27.8	27.2	27.2	27.58	-
Salinity (ppt)	29.3	27.2	29.4	30.2	30.9	30.7	29.61	-
pH	7.4	7.4	7.4	7.3	7.3	7.3	7.35	
D.O. Saturation (%)	103.4	101.5	93.7	94.4	96.4	93.6	97.17	-
D.O. (mg/L)	6.9	6.9	6.3	6.3	6.5	6.3	6.54	6.40
Turbidity (NTU)	3.2	3.2	3.4	3.5	3.8	3.9	3.50	-
SS (mg/L)	5.0	4.0	4.0	5.0	6.0	5.0	4.83	-
Remarks								

Station			C3 (NM6)				
Time (hh:mm)			16:04					
Water Depth (m)			6	.8				
Monitoring Depth (m)	1	.0	3	.4	5	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.0	28.0	28.1	28.1	27.8	27.9	27.97	-
Salinity (ppt)	27.7	29.1	28.8	30.1	30.1	29.6	29.22	-
pH	7.4	7.5	7.4	7.4	7.4	7.4	7.41	
D.O. Saturation (%)	100.6	101.0	100.4	98.7	99.3	101.7	100.28	-
D.O. (mg/L)	6.8	6.8	6.7	6.6	6.7	6.8	6.72	6.73
Turbidity (NTU)	3.8	3.5	4.2	4.1	4.2	4.4	4.03	-
SS (mg/L)	5.0	6.0	6.0	6.0	6.0	5.0	5.67	-
Remarks				Dredo	jing works w	as observed.		•

Station			IM	01			Co-ordinate	es
Time (hh:mm)			16:30	-16:31			Northing	Easting
Water Depth (m)			8		22.21.307	113.53.843		
Monitoring Depth (m)	1	.0	4					
Trial	Trial 1	Trial 2	Trial 1	Depth-averaged	Bottom			
Water Temperature (°C)	27.4	27.4	27.3	27.3	27.2	27.2	27.30	-
Salinity (ppt)	27.8	27.9	29.0	28.9	30.9	29.8	29.05	-
pH	7.6	7.6	7.5	7.5	7.4	7.4	7.49	
D.O. Saturation (%)	107.9	110.9	96.8	96.5	92.7	93.3	99.68	-
D.O. (mg/L)	7.3	7.5	6.6	6.5	6.2	6.3	6.75	6.28
Turbidity (NTU)	4.1	3.9	4.3	4.2	4.6	4.8	4.32	-
SS (mg/L)	6.0	6.0	4.0	4.0	5.00	-		
Remarks				Dredg	ging works w	as observed.		

Station			IM	02			Co-ordinate	es		
Time (hh:mm)			16:19	-16:20			Northing	Easting		
Water Depth (m)			1;		22.21.093	113.56.896				
Monitoring Depth (m)	1	.0	6	2.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.5	27.5	27.2	27.3	27.2	27.2	27.31	-		
Salinity (ppt)	27.2	25.7	29.2	7.3	30.1	29.8	28.48	-		
pH	7.4	7.4	7.3	7.3	7.3	7.3	7.34			
D.O. Saturation (%)	111.7	114.0	92.4	94.0	91.6	94.7	99.73	-		
D.O. (mg/L)	7.6	7.8	6.3	6.4	6.2	6.4	6.77	6.30		
Turbidity (NTU)	4.1	4.1	4.2	4.1	4.3	4.5	4.22	-		
SS (mg/L)	5.0	5.0	4.0	5.0	4.0	4.0	4.50	-		
Remarks		Dredging works was observed.								

Station			MF	PB1							
Time (hh:mm)			16:52								
Water Depth (m)			8	.8							
Monitoring Depth (m)	1	.0	4	.4	7	.8					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.5	27.5	27.3	27.3	27.3	27.3	27.35	-			
Salinity (ppt)	27.4	26.9	27.7	28.4	27.8	28.6	27.79	-			
pH	7.6	7.6	7.5	7.6	7.6	7.5	7.56				
D.O. Saturation (%)	112.5	115.3	109.5	108.6	110.2	114.6	111.78	-			
D.O. (mg/L)	7.6	7.9	7.5	7.4	7.5	7.8	7.61	7.64			
Turbidity (NTU)	3.2	3.1	3.5	3.3	3.8	3.6	3.42	-			
SS (mg/L)	4.0	4.0	4.0	5.0	3.0	4.0	4.00	-			
Remarks		Dredging works was observed.									

Station			MF	PB2							
Time (hh:mm)			16:41								
Water Depth (m)			8	.2							
Monitoring Depth (m)	1	.0	4	.1	7	.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.4	27.5	27.3	27.4	27.3	27.3	27.36	-			
Salinity (ppt)	27.7	27.7	28.8	28.7	29.0	28.8	28.44	-			
pH	7.5	7.4	7.4	7.4	7.4	7.3	7.38				
D.O. Saturation (%)	109.0	109.4	103.3	105.1	104.9	105.5	106.20	-			
D.O. (mg/L)	7.4	7.4	7.0	7.1	7.1	7.2	7.21	7.14			
Turbidity (NTU)	3.7	3.8	4.3	4.2	4.8	4.7	4.25	-			
SS (mg/L)	3.0	3.0	4.0	4.0	4.0	3.0	3.50	-			
Remarks		Dredging works was observed.									

Station			IV								
Time (hh:mm)			17:03								
Water Depth (m)			5	.3							
Monitoring Depth (m)	1	.0	2	.7	4	.3					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.5	27.4	-	-	27.3	27.3	27.37	-			
Salinity (ppt)	27.8	27.9	-	-	27.6	26.4	27.44	-			
pH	7.6	7.6	-	-	7.6	7.6	7.59				
D.O. Saturation (%)	114.1	116.0	-	-	112.7	111.4	113.55	-			
D.O. (mg/L)	7.7	7.9	-	-	7.7	7.7	7.74	7.67			
Turbidity (NTU)	3.1	3.3	-	-	3.6	3.5	3.38	-			
SS (mg/L)	4.0	4.0	-	-	4.0	5.0	4.25	-			
Remarks		Dredging works was observed.									

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2	IMO2		MPB1	MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	6.6	6.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.6	6.6	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	4.9	4.9	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	6.8	6.8	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/26/2008
Weather & Ambient Temperature	Sunny, 28C

Station	ı		C2 /	NM5)			1	

Time (hh:mm)			11:53	-11:55				
Water Depth (m)			19	9.2				
Monitoring Depth (m)	1	.0	9	.6	18	3.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.0	28.0	27.8	27.8	27.6	27.6	27.79	-
Salinity (ppt)	29.0	28.9	30.4	30.3	31.4	31.5	30.24	-
pH	7.5	7.5	7.6	7.6	7.5	7.6	7.55	
D.O. Saturation (%)	82.9	82.5	79.8	78.9	76.6	78.4	79.85	-
D.O. (mg/L)	5.6	5.5	5.3	5.3	5.1	5.2	5.32	5.15
Turbidity (NTU)	5.2	5.2	7.7	7.2	8.6	8.4	7.05	-
SS (mg/L)	6.0	6.0	6.0	5.0	7.0	8.0	6.33	1
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	01			Co-or	dinates		
Time (hh:mm)				Northing	Easting					
Water Depth (m)			7	.4			22.21.555	113.54.280		
Monitoring Depth (m)	1	.0	3	.7	6	.4		•		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.7	27.7	27.8	27.8	27.8	27.7	27.73	-		
Salinity (ppt)	23.4	23.4	29.8	29.9	30.2	30.4	27.85	-		
pH	7.5	7.5	7.6	7.5	7.6	7.5	7.53			
D.O. Saturation (%)	79.1	79.5	76.0	76.2	75.9	76.6	77.22	-		
D.O. (mg/L)	5.5	5.5	5.1	5.1	5.1	5.11	5.22	5.09		
Turbidity (NTU)	5.9	5.9	8.1	7.9	8.8	9.1	7.62	-		
SS (mg/L)	7.0 5.0 6.0 8.0 8.0 6.0 6.67									
Remarks			D	redging wor	ks was obse	rved.				

Station			IM	02			Co-or	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)				22.21.192	113.55.055			
Monitoring Depth (m)	1	.0	3	.4	5	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.7	27.7	27.7	27.6	27.6	27.6	27.65	-
Salinity (ppt)	25.5	25.6	30.2	30.4	31.2	30.9	28.96	-
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.55	
D.O. Saturation (%)	78.3	79.8	75.9	74.4	76.6	74.8	76.63	-
D.O. (mg/L)	5.4	5.5	5.1	5.0	5.1	4.99	5.16	5.05
Turbidity (NTU)	6.4	6.3	7.7	7.4	9.7	9.6	7.85	-
SS (mg/L)	6.0	5.0	7.0	5.83	-			
Remarks			D	redging wor	ks was obse	rved.	•	•

Station			MF	PB1			1	
Time (hh:mm)			11:24	-11:26				
Water Depth (m)			8	.4				
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.6	27.7	27.7	27.7	27.7	27.6	27.67	-
Salinity (ppt)	20.8	20.7	25.5	25.9	28.5	27.8	24.86	-
pH	7.4	7.4	7.4	7.5	7.5	7.4	7.40	
D.O. Saturation (%)	77.8	78.4	74.8	75.1	75.6	74.5	76.03	-
D.O. (mg/L)	5.5	5.5	5.1	5.1	5.1	5.0	5.23	5.07
Turbidity (NTU)	5.3	5.6	5.7	5.8	6.0	6.1	5.75	-
SS (mg/L)	6.0	5.0	7.0	6.0	6.0	6.0	6.00	1
Remarks			D	redging wor	ks was obse	rved.	•	

Station			MF	PB2			1	
Time (hh:mm)								
Water Depth (m)			9	.2				
Monitoring Depth (m)	1	.0	4	.6	8	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.7	27.7	27.6	27.8	27.8	27.8	27.72	
Salinity (ppt)	18.2	21.0	25.2	28.2	29.1	28.9	25.11	-
pH	7.5	7.5	7.5	7.5	7.5	7.6	7.52	
D.O. Saturation (%)	77.2	77.7	76.3	76.5	76.8	77.1	76.93	-
D.O. (mg/L)	5.5	5.5	5.2	5.2	5.2	5.2	5.28	5.16
Turbidity (NTU)	6.1	6.2	6.0	6.1	6.8	6.5	6.28	-
SS (mg/L)	6.0	7.0	7.0	8.0	6.0	7.0	6.83	-
Remarks			D	redging wor	ks was obse	rved.		

Station			N	IP			1						
Time (hh:mm)			11:35	-11:36									
Water Depth (m)			5	.7									
Monitoring Depth (m)	1	.0	2	.9	4	.7							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom					
Water Temperature (°C)	27.7	27.7	-	-	27.6	27.6	27.63	-					
Salinity (ppt)	19.8	20.1	-	-	26.0	24.6	22.62	-					
pH	7.4	7.4	-	-	7.4	7.4	7.41						
D.O. Saturation (%)	78.2	77.3	-	-	76.6	78.5	77.65	-					
D.O. (mg/L)	5.5	5.5	-	-	5.2	5.4	5.41	5.33					
Turbidity (NTU)	9.8	9.9	-	-	9.8	9.9	9.85	-					
SS (mg/L)	5.0	4.0	5.0	4.75	-								
Remarks			D	Dredging works was observed.									

Compliance with Action at	ia Liiiii Lev	<u>'eı</u>													
Parameter	As in	EM&A	C2*1	30%	IMO1		IM	IMO2		MPB1	MF	PB2	IV	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan	
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit	
					Action	Level	Level	Level	Level		Action	Level	Action	Level	
DO (Bottom)	3.3	2.5	5.2	5.2	N	N	N	N	N	N	N	N	N	N	
DO (Depth-averaged)	4.2	4.0	5.3	5.3	N	N	N	N	N	N	N	N	N	N	
Turbidity (Depth-averaged)	29.0	49.0	9.2	9.2	N	N	N	N	N	N	N	N	N	N	
SS (Depth-averaged)	24.0	37.0	8.2	8.2	N	N	N	N	N	N	N	N	N	N	

Sampling Date	10/26/2008
Weather & Ambient Temperature	Sunny, 29C

Station	1		C1 (NM3)				
Time (hh:mm)			16:45	-16:47				
Water Depth (m)			16	6.4				
Monitoring Depth (m)	1	.0	8	3.2	15	5.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.0	28.0	27.8	27.8	27.6	27.6	27.80	-
Salinity (ppt)	28.9	28.9	30.0	30.1	31.1	31.4	30.09	-
pH	7.5	7.5	7.6	7.6	7.6	7.6	7.56	
D.O. Saturation (%)	82.4	83.2	78.6	79.5	77.9	78.8	80.07	-
D.O. (mg/L)	5.5	5.6	5.2	5.3	5.2	5.2	5.35	5.22
Turbidity (NTU)	4.8	5.0	7.3	7.4	8.5	9.0	7.00	-
SS (mg/L)	4.0	4.0	5.0	6.0	4.67	-		
Remarks				Dredo	jing works w	as observed.		

Station			C3 (NM6)				
Time (hh:mm)			15:22					
Water Depth (m)			6	.8				
Monitoring Depth (m)	1	.0	3	.4	5	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.7	27.7	27.6	27.6	27.8	27.8	27.69	-
Salinity (ppt)	18.0	18.5	25.1	25.1	28.5	28.6	23.94	-
pH	7.5	7.5	7.5	7.5	7.6	7.6	7.52	
D.O. Saturation (%)	77.3	77.7	76.9	76.1	76.2	78.0	77.03	-
D.O. (mg/L)	5.5	5.5	5.3	5.2	5.1	5.2	5.32	5.18
Turbidity (NTU)	6.1	6.1	5.9	6.0	6.2	6.5	6.13	-
SS (mg/L)	7.0	6.0	6.0	5.0	5.0	4.0	5.50	-
Remarks				Dredo	jing works w	as observed.		

Station			IM	01			Co-ordinate	s
Time (hh:mm)			15:50	-15:52			Northing	Easting
Water Depth (m)			7		22.21.556	113.54.272		
Monitoring Depth (m)	1	.0	3	.0				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.7	28.4	27.8	27.8	27.8	27.7	27.88	-
Salinity (ppt)	24.8	25.5	29.8	29.8	30.0	30.2	28.35	-
pH	7.5	7.6	7.6	7.6	7.6	7.6	7.57	
D.O. Saturation (%)	79.0	79.1	75.8	75.8	75.5	75.8	76.83	-
D.O. (mg/L)	5.4	5.4	5.1	5.1	5.0	5.1	5.18	5.05
Turbidity (NTU)	5.4	6.0	6.9	6.9	8.9	8.7	7.13	-
SS (mg/L)	6.0	6.0	6.0	6.0	5.67	-		
Remarks				Dredg	ging works w	as observed.		

Station			IM	02			Co-ordinate	s			
Time (hh:mm)			15:38	-15:41			Northing	Easting			
Water Depth (m)			7		22.21.200	113.55.057					
Monitoring Depth (m)	1	.0	3	.5	6	.0					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.7	27.7	27.7	27.6	27.6	27.6	27.63	-			
Salinity (ppt)	24.8	25.3	30.2	7.5	31.2	31.0	28.83	-			
pH	7.4	7.5	7.6	7.5	7.6	7.5	7.50				
D.O. Saturation (%)	80.1	79.9	75.0	74.7	74.7	75.7	76.68	-			
D.O. (mg/L)	5.5	5.5	5.0	5.0	5.0	5.0	5.17	5.01			
Turbidity (NTU)	6.5	6.4	7.9	7.8	9.3	9.0	7.82	-			
SS (mg/L)	4.0	5.0	5.0	6.0	5.17	-					
Remarks		Dredging works was observed.									

Station			MF	PB1					
Time (hh:mm)			16:16						
Water Depth (m)			8						
Monitoring Depth (m)	1	.0	4	.2	7	.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	27.7	27.6	27.7	27.7	27.7	27.8	27.71	-	
Salinity (ppt)	18.7	19.7	25.9	25.4	30.0	29.4	24.85	-	
pH	7.4	7.4	7.5	7.5	7.5	7.5	7.47		
D.O. Saturation (%)	76.9	77.1	76.2	76.1	76.3	76.1	76.45	-	
D.O. (mg/L)	5.5	5.5	5.2	5.2	5.1	5.1	5.26	5.10	
Turbidity (NTU)	6.1	6.2	7.2	7.1	7.5	7.2	6.88	-	
SS (mg/L)	6.0	6.0	5.0	5.0	7.0	5.0	5.67	-	
Remarks	Dredging works was observed.								

Station			MF	B2						
Time (hh:mm)			16:30							
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4	.4	7	.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.7	27.7	27.7	27.7	27.8	27.8	27.73	-		
Salinity (ppt)	17.2	17.1	24.23	-						
pH	7.4	7.5	7.5	7.5	7.5	7.5	7.50			
D.O. Saturation (%)	77.8	77.4	76.3	76.6	77.2	77.4	77.12	-		
D.O. (mg/L)	5.6	5.6	5.2	5.2	5.2	5.2	5.32	5.18		
Turbidity (NTU)	6.3	6.4	6.3	6.4	6.5	6.5	6.40	-		
SS (mg/L)	7.0	6.0	4.0	6.0	6.0	7.0	6.00	-		
Remarks		Dredging works was observed.								

Station			IV	IP						
Time (hh:mm)			16:04	-16:06						
Water Depth (m)			5							
Monitoring Depth (m)	1.	.0	2							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.6	27.6	-	-	27.6	27.6	27.63	-		
Salinity (ppt)	20.6	20.3	23.33	-						
pH	7.4	7.4	-	-	7.5	7.5	7.43			
D.O. Saturation (%)	77.2	76.8	-	-	75.6	75.7	76.33	-		
D.O. (mg/L)	5.4	5.4	-	-	5.2	5.2	5.30	5.18		
Turbidity (NTU)	5.8	5.8	-	5.7	5.78	-				
SS (mg/L)	6.0	7.0	-	6.75	-					
Remarks		Dredging works was observed.								

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2			MPB1		MPB2		/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.2	5.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.3	5.3	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.5	8.5	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	6.6	6.6	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/27/08
Weather & Ambient Temperature	Sunny, 29C

Station	I		C2 (NM5)			1	
Time (hh:mm)				-12:17			1	
Water Depth (m)			-					
Monitoring Depth (m)	1	.0		9.9).0	18	3.9		
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	28.1	27.5	27.9	27.9	27.7	27.7	27.81	-
Salinity (ppt)	26.8	27.2	27.6	27.6	27.9	27.9	27.49	-
pH	7.6	7.6	7.6	7.6	7.6	7.7	7.62	
D.O. Saturation (%)	98.2	100.8	100.8	99.2	100.7	98.3	99.67	-
D.O. (mg/L)	7.9	8.1	8.1	7.9	8.1	7.9	7.99	7.97
Turbidity (NTU)	3.2	3.2	7.33	-				
SS (mg/L)	6.0	6.33	-					
Remarks		•	No	dredging w	ork was obs	erved.	•	

Station			IM	01			Co-ord	dinates
Time (hh:mm)			12:32	-12:33			Northing	Easting
Water Depth (m)			22.21.440	113.53.480				
Monitoring Depth (m)	1	.0	5	.2	9	.3		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.7	27.8	27.7	27.7	27.7	27.7	27.69	-
Salinity (ppt)	28.3	28.1	28.3	28.3	23.7	28.4	27.53	-
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.64	
D.O. Saturation (%)	99.0	99.2	96.9	100.0	102.1	100.3	99.58	-
D.O. (mg/L)	7.9	7.9	7.8	8.0	8.4	8.02	8.00	8.21
Turbidity (NTU)	2.8	2.8	6.2	6.5	6.4	6.4	5.18	-
SS (mg/L)	5.0	6.0	5.67	-				
Remarks			No	dredging w	ork was obs	erved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			12:46	-12:47			Northing	Easting
Water Depth (m)				22.21.013	113.54.223			
Monitoring Depth (m)	1	.0	5	.2	9	.4		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.6	27.7	27.71	-
Salinity (ppt)	28.1	28.1	28.4	28.4	28.6	28.4	28.33	-
pH	7.6	7.6	7.6	7.7	7.6	7.6	7.64	
D.O. Saturation (%)	97.9	98.1	99.8	98.2	100.4	99.5	98.98	-
D.O. (mg/L)	7.8	7.8	8.0	7.9	8.0	7.95	7.91	7.99
Turbidity (NTU)	2.6	2.6	4.8	4.6	5.6	5.3	4.25	-
SS (mg/L)	7.0	8.0	7.33	-				
Remarks			No	dredging w	ork was obse	erved.	•	

Station			MF	PB1			1	
Time (hh:mm)			11:48	-11:49				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.1	7	.2		
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	28.0	28.0	28.0	28.0	28.0	28.0	27.97	-
Salinity (ppt)	27.2	27.1	27.7	27.1	27.1	27.1	27.20	
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.62	
D.O. Saturation (%)	98.9	99.3	99.7	98.6	98.5	99.1	99.02	
D.O. (mg/L)	7.9	8.0	8.2	7.9	7.9	7.9	7.96	7.91
Turbidity (NTU)	5.1	4.9	5.1	5.0	5.3	5.6	5.17	-
SS (mg/L)	6.0	6.0	6.33	-				
Remarks			No	dredging w	ork was obs	erved.		

Station			MI	PB2					
Time (hh:mm)			11:40	-11:41					
Water Depth (m)									
Monitoring Depth (m)	1	.0	4	.4	7	.7			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	
Water Temperature (°C)	27.9	27.8	27.8	27.8	27.8	27.8	27.84	-	
Salinity (ppt)	26.9	27.3	27.3	27.4	27.1	27.3	27.21	-	
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.63		
D.O. Saturation (%)	100.3	99.5	99.5	99.2	100.1	99.6	99.70	-	
D.O. (mg/L)	8.1	8.0	8.0	8.0	8.0	8.0	8.00	8.01	
Turbidity (NTU)	6.1	6.3	5.8	6.4	6.3	6.3	6.20	-	
SS (mg/L)	7.0	7.0	6.0	6.0	7.0	6.0	6.50	-	
Remarks	No dredging work was observed.								

Station			N	/IP	•		1		
Time (hh:mm)									
Water Depth (m)									
Monitoring Depth (m)	1	.0	2	2.7	4	.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	
Water Temperature (°C)	28.1	28.0	-	-	28.1	28.0	28.04	-	
Salinity (ppt)	26.6	26.7	-	-	26.7	26.7	26.67	-	
pH	7.6	7.6	-	-	7.6	7.6	7.58		
D.O. Saturation (%)	98.8	99.0	-	-	98.1	98.4	98.58	-	
D.O. (mg/L)	7.9	7.9	-	-	7.9	7.9	7.90	7.88	
Turbidity (NTU)	3.6	3.7	-	-	4.6	4.6	4.13	-	
SS (mg/L)	5.0	5.0	6.00	-					
Remarks	No dredging work was observed.								

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	30%	% IMO1		IM	02		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	8.0	8.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	8.0	8.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.5	9.5	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.2	8.2	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/27/08
Weather & Ambient Temperature	Cloudy, 29C

Station			C1 (NM3)						
Time (hh:mm)			16:33	-16:35						
Water Depth (m)			16	6.2						
Monitoring Depth (m)	1	.0	8							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	28.1	28.2	27.9	27.9	27.9	27.9	27.98	-		
Salinity (ppt)	26.7	26.7	27.4	27.5	27.7	27.7	27.28	-		
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.61			
D.O. Saturation (%)	98.8	98.3	97.6	98.0	98.2	98.1	98.17	-		
D.O. (mg/L)	7.9	7.9	7.8	7.8	7.9	7.9	7.85	7.85		
Turbidity (NTU)	4.2	4.2	4.5	4.2	4.5	4.4	4.33	-		
SS (mg/L)	6.0	6.0	5.0	6.0	5.0	6.0	5.67	-		
Remarks		No dredging work was observed.								

Station			C3 (NM6)								
Time (hh:mm)			17:54	-17:56								
Water Depth (m)			6									
Monitoring Depth (m)	1	.0	3									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.8	27.8	27.8	27.8	27.8	27.7	27.76	-				
Salinity (ppt)	27.6	27.4	27.4	27.6	27.4	27.6	27.50	-				
pH	7.7	7.6	7.6	7.6	7.6	7.6	7.64					
D.O. Saturation (%)	103.5	104.6	105.5	103.5	103.5	107.2	104.63	-				
D.O. (mg/L)	8.3	8.4	8.5	8.3	8.3	8.6	8.40	8.46				
Turbidity (NTU)	4.7	4.6	5.0	5.0	5.5	5.6	5.07	-				
SS (mg/L)	7.0	6.0	6.0	7.0	8.0	8.0	7.00	-				
Remarks		No dredging work was observed.										

Station			IM	01			Co-ordinate	s		
Time (hh:mm)			16:56	-16:58			Northing	Easting		
Water Depth (m)			9	.4		22.21.255	113.53.472			
Monitoring Depth (m)	1	.0	4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.7	27.7	27.71	-		
Salinity (ppt)	28.1	28.1	28.3	28.3	28.4	26.5	27.95	-		
pH	7.6	7.6	7.7	7.6	7.7	7.6	7.64			
D.O. Saturation (%)	99.2	98.7	96.6	99.1	98.6	99.1	98.55	-		
D.O. (mg/L)	7.9	7.9	7.7	7.9	7.9	8.0	7.89	7.95		
Turbidity (NTU)	4.0	4.0	7.5	6.9	7.0	7.4	6.13	-		
SS (mg/L)	7.0	7.0	7.0	6.0	6.0	6.0	6.50	-		
Remarks		No dredging work was observed.								

Station			IM	102			Co-ordinate	s		
Time (hh:mm)			16:45	-16:47			Northing	Easting		
Water Depth (m)			10	0.5		22.21.022	113.54.201			
Monitoring Depth (m)	1	1.0 5.3 9.5								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.8	27.8	27.7	27.7	27.7	27.7	27.70	-		
Salinity (ppt)	28.1	28.2	27.3	28.4	28.4	28.4	28.13	-		
pH	7.7	7.7	7.6	7.7	7.7	7.6	7.65			
D.O. Saturation (%)	99.8	98.9	98.0	98.5	99.2	99.0	98.90	-		
D.O. (mg/L)	8.0	7.9	7.9	7.9	7.9	7.9	7.91	7.92		
Turbidity (NTU)	4.0	3.8	3.7	4.0	4.0	3.9	3.90	-		
SS (mg/L)	7.0 5.0 4.0 4.0 5.0 6.0						5.17	-		
Remarks		No dredging work was observed.								

Station			MF	PB1							
Time (hh:mm)			17:23	-17:25							
Water Depth (m)			8	.2							
Monitoring Depth (m)	1	.0	4								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.0	28.0	28.0	28.0	28.0	28.0	27.97	-			
Salinity (ppt)	27.1	24.3	27.2	27.1	27.6	27.1	26.75	-			
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.61				
D.O. Saturation (%)	100.8	99.3	101.4	99.7	103.5	100.6	100.88	-			
D.O. (mg/L)	8.1	8.1	8.1	8.0	8.3	8.1	8.10	8.17			
Turbidity (NTU)	6.7	6.8	7.5	7.0	6.8	7.4	7.03	-			
SS (mg/L)	5.0	5.0	5.0	4.0	8.0	8.0	5.83	-			
Remarks		No dredging work was observed.									

Station			MF	B2							
Time (hh:mm)			17:33	-17:35							
Water Depth (m)			8								
Monitoring Depth (m)	1	.0	4								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.8	27.8	27.8	27.8	27.8	27.8	27.84	-			
Salinity (ppt)	27.3	27.3	27.2	27.3	27.3	27.3	27.28	-			
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.63				
D.O. Saturation (%)	99.9	100.4	100.9	99.7	100.3	101.7	100.48	-			
D.O. (mg/L)	8.0	8.1	8.1	8.0	8.0	8.2	8.06	8.10			
Turbidity (NTU)	5.9	5.8	6.2	6.5	6.2	6.3	6.15	-			
SS (mg/L)	6.0	6.0	6.0	8.0	5.0	5.0	6.00	-			
Remarks		No dredging work was observed.									

Station			IV	IP							
Time (hh:mm)			17:13	-17:15							
Water Depth (m)			5								
Monitoring Depth (m)	1.	.0	2								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	28.1	28.1	-	-	28.1	28.1	28.08	-			
Salinity (ppt)	26.7	26.6	-	-	26.7	27.0	26.75	-			
pH	7.6	7.6	-	-	7.6	7.5	7.56				
D.O. Saturation (%)	102.0	99.9	-	-	99.0	103.8	101.18	-			
D.O. (mg/L)	8.2	8.0	-	-	7.9	8.3	8.11	8.12			
Turbidity (NTU)	3.0	3.0	-	-	3.4	3.2	3.15	-			
SS (mg/L)	8.0	8.0	-	-	4.0	5.0	6.25	-			
Remarks		No dredging work was observed.									

Compliance with Action an	d Limit Lev	el												
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IIV	101	IMO2			MPB1	MF	PB2 MF		/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	8.2	8.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	8.1	8.1	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	6.1	6.1	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	8.2	8.2	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/28/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C2 (NM5)			1	
Time (hh:mm)				1				
Water Depth (m)			19	9.2			1	
Monitoring Depth (m)	1	.0	9	.6	18	3.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.2	27.2	27.1	27.0	26.8	26.8	27.00	-
Salinity (ppt)	27.9	28.0	28.6	28.5	30.3	30.5	28.97	-
pH	7.3	7.3	7.3	7.3	7.1	7.3	7.25	
D.O. Saturation (%)	81.8	83.2	77.8	75.2	69.9	72.6	76.75	-
D.O. (mg/L)	5.5	5.5	5.2	5.0	4.7	4.8	5.11	4.75
Turbidity (NTU)	5.8	5.9	6.0	5.8	7.9	7.9	6.55	-
SS (mg/L)	6.0	6.0	8.0	6.67	-			
Remarks			No	dredging wo	orks was obs	served.		

Station			IM	01			Co-or	dinates
Time (hh:mm)			13:00	-13:03			Northing	Easting
Water Depth (m)			22.21.225	113.53.667				
Monitoring Depth (m)	1	.0		•				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.1	27.1	27.0	27.0	27.2	27.1	27.09	-
Salinity (ppt)	23.3	22.7	28.4	28.5	29.5	29.5	26.99	-
pH	7.4	7.4	7.4	7.4	7.4	7.3	7.36	
D.O. Saturation (%)	82.1	82.0	80.1	80.0	79.1	79.6	80.48	-
D.O. (mg/L)	5.7	5.7	5.4	5.4	5.3	5.33	5.46	5.32
Turbidity (NTU)	7.3	7.2	7.8	7.6	9.4	9.3	8.10	-
SS (mg/L)	6.0	7.0	7.0	8.0	7.0	7.0	7.00	-
Remarks			No	dredging wo	orks was obs	served.		

Station			IM	02			Co-or	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			8	.0			22.21.106	113.54.516
Monitoring Depth (m)	1	.0	4	.0	7	.0		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	27.0	27.0	26.9	27.0	26.8	26.8	26.93	-
Salinity (ppt)	25.6	24.1	28.6	28.4	31.0	31.1	28.12	-
pH	7.5	7.5	7.5	7.5	7.5	7.5	7.47	
D.O. Saturation (%)	80.4	81.1	76.4	77.9	76.2	77.4	78.23	-
D.O. (mg/L)	5.5	5.6	5.2	5.3	5.1	5.15	5.29	5.11
Turbidity (NTU)	7.8	7.6	8.1	8.2	10.5	10.5	8.78	-
SS (mg/L)	7.0	7.0	7.0	7.50	-			
Remarks		-	No	dredging wo	orks was obs	erved.	•	•

Station			MF	PB1			1	
Time (hh:mm)								
Water Depth (m)			8	.6				
Monitoring Depth (m)	1	.0	4	.3	7	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	27.2	27.3	27.0	27.0	27.0	27.0	27.07	-
Salinity (ppt)	20.4	20.1	25.8	25.9	27.8	27.5	24.57	-
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.39	
D.O. Saturation (%)	80.7	81.5	78.7	78.4	79.3	78.3	79.48	-
D.O. (mg/L)	5.7	5.7	5.4	5.4	5.4	5.3	5.46	5.33
Turbidity (NTU)	7.6	7.5	8.3	8.1	8.8	8.9	8.20	-
SS (mg/L)	11.0	11.0	8.0	7.0	9.0	9.0	9.17	-
Remarks			No	dredging wo	orks was obs	served.		·

Station			MF	PB2						
Time (hh:mm)			13:16	-13:18						
Water Depth (m)										
Monitoring Depth (m)	1	.0	4	.6	8	.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	27.4	27.2	27.1	27.3	27.3	27.2	27.25	-		
Salinity (ppt)	19.6	19.7	26.7	25.6	27.2	27.4	24.39	-		
pH	7.2	7.3	7.4	7.3	7.3	7.3	7.31			
D.O. Saturation (%)	80.7	81.5	80.2	79.8	80.7	81.1	80.67	=		
D.O. (mg/L)	5.7	5.7	5.4	5.5	5.5	5.5	5.54	5.47		
Turbidity (NTU)	7.4	7.5	6.9	6.7	6.7	6.8	7.00	=		
SS (mg/L)	9.0	8.0	12.0	10.0	12.0	13.0	10.67	-		
Remarks	No dredging works was observed.									

Station			N	IP								
Time (hh:mm)			13:37	-13:38								
Water Depth (m)												
Monitoring Depth (m)	1	.0	2	.9	4	.8						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	27.2	27.2	-	-	27.0	27.0	27.12	-				
Salinity (ppt)	20.2	20.4	-	-	26.2	26.5	23.34	-				
pH	7.2	7.2	-	-	7.2	7.2	7.19					
D.O. Saturation (%)	80.4	81.2	-	-	81.2	79.4	80.55	-				
D.O. (mg/L)	5.6	5.7	-	-	5.5	5.4	5.56	5.46				
Turbidity (NTU)	9.1	8.9	-	-	7.9	8.0	8.48	-				
SS (mg/L)	9.0	8.0	8.0	8.00	-							
Remarks		No dredging works was observed.										

Compliance with Action at	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	C2*130%		IMO1		IMO2		MPB1	MF	PB2	MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	4.8	4.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.1	5.1	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	8.5	8.5	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.7	8.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	10/28/2008
Weather & Ambient Temperature	Sunny, 28C

Station			C1 (NM3)				
Time (hh:mm)			17:23	-17:26				
Water Depth (m)			16	6.0				
Monitoring Depth (m)	1	.0	8					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.2	27.2	27.1	27.1	27.1	26.9	27.10	-
Salinity (ppt)	27.0	26.5	29.3	29.5	30.7	30.7	28.96	-
pH	7.4	7.4	7.4	7.4	7.3	7.3	7.35	
D.O. Saturation (%)	86.1	85.4	81.4	82.1	81.5	81.3	82.97	-
D.O. (mg/L)	5.8	5.8	5.4	5.5	5.4	5.4	5.57	5.43
Turbidity (NTU)	6.8	6.5	6.4	6.4	10.1	10.5	7.78	-
SS (mg/L)	10.0	10.0	9.0	9.0	8.0	10.0	9.33	-
Remarks				No dred	dging works	was observed	1.	

Station			C3 (NM6)							
Time (hh:mm)			16:16	-16:17							
Water Depth (m)			7								
Monitoring Depth (m)	1	.0	3								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.2	27.2	27.0	27.0	27.1	27.1	27.11	-			
Salinity (ppt)	21.4	21.6	26.3	26.7	28.2	28.3	25.41	-			
pH	7.2	7.3	7.3	7.3	7.3	7.3	7.27				
D.O. Saturation (%)	82.1	82.6	80.3	80.6	81.1	80.9	81.27	-			
D.O. (mg/L)	5.7	5.8	5.5	5.5	5.5	5.4	5.55	5.45			
Turbidity (NTU)	7.4	7.2	7.2	7.3	7.7	7.5	7.38	-			
SS (mg/L)	9.0	10.0	9.0	8.0	8.0	9.0	8.83	-			
Remarks		No dredging works was observed.									

Station			IM	01			Co-ordinate	es			
Time (hh:mm)			16:41	-16:42			Northing	Easting			
Water Depth (m)			7		22.21.234	113.53.653					
Monitoring Depth (m)	1	.0	3	.4							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	27.9	27.2	27.1	27.1	27.2	27.2	27.28	-			
Salinity (ppt)	23.7	22.4	28.5	28.5	29.9	29.4	27.07	-			
pH	7.5	7.4	7.4	7.4	7.4	7.4	7.44				
D.O. Saturation (%)	83.3	82.1	79.3	79.3	78.4	78.9	80.22	-			
D.O. (mg/L)	5.7	5.7	5.3	5.3	5.2	5.3	5.43	5.26			
Turbidity (NTU)	7.6	7.1	7.8	7.5	9.1	9.3	8.07	-			
SS (mg/L)	10.0	9.0	10.0	8.0	9.00	-					
Remarks		No dredging works was observed.									

Station			IIV	102			Co-ordinates			
Time (hh:mm)			16:29	-16:32			Northing	Easting		
Water Depth (m)			7		22.21.114	113.54.508				
Monitoring Depth (m)	1	.0	3	5.6						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.0	27.1	26.9	27.0	26.9	26.9	26.98	-		
Salinity (ppt)	23.8	24.7	28.6	28.4	29.3	31.1	27.66	-		
pH	7.4	7.5	7.4	7.4	7.3	7.4	7.40			
D.O. Saturation (%)	80.6	80.6	77.5	77.8	78.1	77.5	78.68	-		
D.O. (mg/L)	5.6	5.6	5.2	5.3	5.3	5.2	5.34	5.20		
Turbidity (NTU)	7.7	7.5	8.2	7.9	10.7	10.9	8.82	-		
SS (mg/L)	11.0	9.0	11.0	10.0	8.0	9.0	9.67	-		
Remarks		No dredging works was observed.								

Station			MF	PB1						
Time (hh:mm)			17:00	-17:02						
Water Depth (m)			8							
Monitoring Depth (m)	1	.0	4	'.4						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	27.3	27.3	27.1	27.2	27.1	27.1	27.18	-		
Salinity (ppt)	19.8	20.9	26.3	26.1	28.7	28.4	25.03	-		
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.39			
D.O. Saturation (%)	80.7	80.0	78.5	79.0	79.3	79.0	79.42	-		
D.O. (mg/L)	5.7	5.6	5.3	5.4	5.3	5.3	5.44	5.32		
Turbidity (NTU)	7.5	7.4	8.0	7.8	8.5	8.5	7.95	-		
SS (mg/L)	7.0	8.0	9.0	9.0	7.0	8.0	8.00	-		
Remarks		No dredging works was observed.								

Station			MF	PB2							
Time (hh:mm)			17:09	-17:11							
Water Depth (m)			8								
Monitoring Depth (m)	1	.0	4	'.8							
Trial	Trial 1	Trial 2	Depth-averaged	Bottom							
Water Temperature (°C)	27.3	27.3	27.1	27.1	27.2	27.2	27.22	-			
Salinity (ppt)	20.4	19.7	26.4	26.0	27.4	27.3	24.55	-			
pH	7.4	7.4	7.4	7.4	7.4	7.4	7.38				
D.O. Saturation (%)	81.1	81.0	79.3	79.9	81.2	79.8	80.38	-			
D.O. (mg/L)	5.7	5.7	5.4	5.4	5.5	5.4	5.51	5.44			
Turbidity (NTU)	7.8	7.8	7.9	7.7	8.8	8.6	8.10	-			
SS (mg/L)	8.0	8.0	8.0	10.0	12.0	10.0	9.33	-			
Remarks		No dredging works was observed.									

Station			IV	IP								
Time (hh:mm)			16:51	-16:52								
Water Depth (m)			5									
Monitoring Depth (m)	1.	.0	2	.6								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	27.2	27.2	-	-	27.1	27.1	27.14	-				
Salinity (ppt)	21.4	21.2	-	-	26.5	26.6	23.92	-				
pH	7.1	7.2	-	-	7.2	7.1	7.13					
D.O. Saturation (%)	80.5	80.2	-	-	79.3	79.3	79.83	-				
D.O. (mg/L)	5.6	5.6	-	-	5.4	5.4	5.50	5.39				
Turbidity (NTU)	7.8	7.6	-	-	7.4	7.2	7.50	-				
SS (mg/L)	8.0	9.0	-	8.0	8.00	-						
Remarks		No dredging works was observed.										

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	Mean(C1+C3)*130%		101	IMO2			MPB1	MPB2		IV	/IP
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	5.4	5.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.6	5.6	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.9	9.9	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	11.8	11.8	N	Ν	N	N	N	N	N	N	N	N

Sampling Date	10/29/08
Weather & Ambient Temperature	Sunny, 29C

Station	ı		C2 (NIME)			1					
***************************************			<u> </u>	NM5) -13:20								
Time (hh:mm)												
Water Depth (m)			20).2								
Monitoring Depth (m)	1	.0	10).1	19	9.2						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
							averaged					
Water Temperature (°C)	28.1	28.2	27.5	27.6	27.2	27.4	27.69	-				
Salinity (ppt)	27.3	27.2	28.1	28.1	28.9	28.6	28.04	-				
pH	7.7	7.7	7.8	7.8	7.8	7.8	7.76					
D.O. Saturation (%)	87.4	87.8	86.4	86.8	86.1	83.9	86.40	-				
D.O. (mg/L)	8.0	7.9	7.9	7.9	7.9	7.7	7.89	7.82				
Turbidity (NTU)	7.7	7.7	7.3	7.35	-							
SS (mg/L)	7.0	7.0 9.0 6.0 7.0 7.0 6.0 7.00										
Remarks			No	dredging wo	orks was obs	erved.						

Station			IM	01			Co-ord	dinates
Time (hh:mm)			13:31	-13:33			Northing	Easting
Water Depth (m)			22.21.278	113.53.490				
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.6	28.2	27.7	27.7	27.5	27.5	27.84	-
Salinity (ppt)	27.0	27.4	28.1	28.3	28.7	28.6	28.01	-
pH	7.8	7.7	7.7	7.8	7.8	7.7	7.75	
D.O. Saturation (%)	97.2	99.0	99.4	97.4	97.6	100.5	98.52	-
D.O. (mg/L)	7.9	8.0	8.1	8.0	8.0	8.21	8.02	8.09
Turbidity (NTU)	6.6	6.2	6.70	-				
SS (mg/L)	7.0	7.0	8.0	7.17	-			
Remarks			No	dredging wo	orks was obs	erved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			13:40	-13:43			Northing	Easting
Water Depth (m)				22.21.019	113.54.209			
Monitoring Depth (m)	1	.0	4	.5	7	.9		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.2	28.1	27.7	27.8	27.4	27.4	27.77	-
Salinity (ppt)	27.6	27.7	28.2	28.1	28.8	28.9	28.22	-
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.77	
D.O. Saturation (%)	93.7	95.3	92.6	94.1	93.6	94.8	94.02	-
D.O. (mg/L)	7.6	7.8	7.67	7.71				
Turbidity (NTU)	7.4	7.8	7.33	-				
SS (mg/L)	6.0	6.0	8.0	6.50	-			
Remarks			No	dredging wo	orks was obs	erved.	•	

Station			MF	PB1			1	
Time (hh:mm)			13:00	-13:02				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.3	7	.6		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	28.6	28.7	28.1	28.2	27.6	27.5	28.12	-
Salinity (ppt)	27.0	26.8	27.7	27.6	28.9	29.0	27.84	-
pH	7.7	7.7	7.7	7.7	7.8	7.8	7.73	
D.O. Saturation (%)	76.2	85.3	94.8	81.0	88.4	88.1	85.63	-
D.O. (mg/L)	7.1	7.8	8.7	7.5	8.1	8.1	7.87	8.08
Turbidity (NTU)	7.8	7.5	8.6	8.4	7.7	8.0	8.00	-
SS (mg/L)	9.0	7.0	7.50	-				
Remarks								•

Station			MI	PB2			1	
Time (hh:mm)			12:51	-12:53				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.6	8	.1		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	28.7	28.7	28.0	27.9	27.8	27.8	28.17	-
Salinity (ppt)	27.0	27.1	27.9	28.0	28.4	28.4	27.79	-
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.70	
D.O. Saturation (%)	76.6	79.1	91.7	88.4	86.8	88.7	85.22	-
D.O. (mg/L)	7.2	7.4	8.4	8.2	8.0	8.2	7.89	8.09
Turbidity (NTU)	6.5	6.5	8.4	8.3	8.1	8.8	7.77	-
SS (mg/L)	6.0	6.0	6.0	6.50	-			
Remarks		•	No	dredging wo	orks was obs	served.		

Station			N	/IP	•	•		
Time (hh:mm)								
Water Depth (m)			5	5.7				
Monitoring Depth (m)	1	.0	2	9	4	.7		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	28.2	29.0	27.5	28.05	-			
Salinity (ppt)	27.3	26.7	-	-	28.2	28.4	27.67	-
pH	7.7	7.7	-	-	7.8	7.8	7.74	
D.O. Saturation (%)	94.0	93.2	-	-	81.3	85.0	88.38	-
D.O. (mg/L)	8.6	8.5	-	-	7.5	7.8	8.12	7.69
Turbidity (NTU)	7.4	7.3	7.53	-				
SS (mg/L)	6.0	6.0	-	-	7.0	7.0	6.50	-
Remarks		•	No	dredging wo	orks was obs	erved.		

Compliance with Action an	ia Limit Lev	<u>eı</u>												
Parameter	As in	EM&A	C2*1	C2*130%		IMO1		IMO2		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	Exceedanc	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	e of Action	e of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	7.8	7.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.9	7.9	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.6	9.6	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	9.1	9.1	N	N	N	N	N	N	Ν	N	N	N

Sampling Date	10/29/08
Weather & Ambient Temperature	Fine, 29C

Station			C1 (NM3)				
Time (hh:mm)			17:36					
Water Depth (m)			16	6.1				
Monitoring Depth (m)	1	.0	8	.1	15	5.1		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	27.8	27.7	27.6	27.6	27.5	27.6	27.63	-
Salinity (ppt)	28.1	25.7	28.3	28.3	25.7	28.3	27.40	-
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.78	
D.O. Saturation (%)	89.0	86.0	87.8	85.7	90.6	89.0	88.02	-
D.O. (mg/L)	8.0	7.8	8.0	7.8	8.3	8.1	8.01	8.19
Turbidity (NTU)	7.9	7.8	7.8	7.9	7.3	8.1	7.80	-
SS (mg/L)	8.0	7.0	6.0	7.0	7.00	-		
Remarks				No dre	dging works	was observe	d.	

Station			C3 (
Time (hh:mm)			18:42					
Water Depth (m)			6	.9				
Monitoring Depth (m)	1	.0	3	.5	5	.9		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.5	28.3	28.0	28.1	27.7	27.5	27.99	-
Salinity (ppt)	26.7	27.1	28.2	27.9	28.9	29.1	27.98	-
pH	7.8	7.8	7.8	7.8	7.9	7.9	7.84	
D.O. Saturation (%)	81.8	87.5	86.8	91.9	82.0	87.4	86.23	-
D.O. (mg/L)	7.6	8.1	8.0	8.5	7.6	8.1	7.98	7.86
Turbidity (NTU)	7.1	6.8	7.8	7.4	9.3	8.9	7.88	-
SS (mg/L)	7.0	6.0	6.0	7.0	6.33	-		
Remarks				No dred	dging works	was observe	d.	

Station			IM	01			Co-ordinate	s
Time (hh:mm)			17:52	-17:54			Northing	Easting
Water Depth (m)			9	.9		22.21.268	113.53.456	
Monitoring Depth (m)	1	.0	5	.0	8	.9		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.1	28.0	27.8	27.8	27.7	27.7	27.84	-
Salinity (ppt)	27.6	27.7	28.0	28.0	28.1	28.1	27.94	-
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.81	
D.O. Saturation (%)	82.3	85.1	87.8	82.3	83.8	87.1	84.73	-
D.O. (mg/L)	7.6	8.0	8.1	7.6	7.7	8.0	7.84	7.86
Turbidity (NTU)	6.8	6.9	9.6	9.8	10.3	10.0	8.90	-
SS (mg/L)	5.0	6.0	8.0	7.0	6.83	-		
Remarks				No dred	dging works	was observe	d.	

Station			IM	02			Co-ordinates		
Time (hh:mm)			17:45	-17:47			Northing	Easting	
Water Depth (m)			9	.2			22.21.034	113.54.303	
Monitoring Depth (m)	1.0		4	.6	8	.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	28.2	28.2	27.7	27.8	27.6	27.7	27.87	-	
Salinity (ppt)	27.5	27.5	28.0	7.8	28.2	28.1	27.89	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.79		
D.O. Saturation (%)	89.6	87.9	85.2	83.8	86.5	83.9	86.15	-	
D.O. (mg/L)	8.0	7.9	8.0	7.7	7.9	7.7	7.89	7.83	
Turbidity (NTU)	6.7	6.5	8.4	9.0	9.6	9.4	8.27	-	
SS (mg/L)	9.0	7.0	7.0	7.0	8.0	7.0	7.50	-	
Remarks				No dred	dging works	was observed	d.		

Station			ME	PB1								
Time (hh:mm)			18:11	-18:13								
Water Depth (m)			8									
Monitoring Depth (m)	1	.0	4	.2	7	.3						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	28.0	28.0	28.0	27.8	27.9	27.9	27.94	-				
Salinity (ppt)	27.1	27.0	27.5	27.9	27.5	27.5	27.41	-				
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.77					
D.O. Saturation (%)	82.7	85.9	91.3	85.0	96.1	84.4	87.57	-				
D.O. (mg/L)	7.6	7.8	8.4	7.9	8.7	7.8	8.03	8.27				
Turbidity (NTU)	8.7	8.7	10.0	10.1	10.2	10.4	9.68	-				
SS (mg/L)	7.0	6.0	6.0	5.0	9.0	9.0	7.00	-				
Remarks		No dredging works was observed.										

Station			MF	PB2				
Time (hh:mm)			18:19	-18:21				
Water Depth (m)			8					
Monitoring Depth (m)	1	.0	4	.4	7	.7		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.9	28.5	28.1	28.3	27.9	27.9	28.26	-
Salinity (ppt)	26.5	26.6	27.1	26.8	27.7	27.8	27.06	-
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.77	
D.O. Saturation (%)	75.1	89.1	80.4	80.5	93.3	84.8	83.87	-
D.O. (mg/L)	7.1	8.2	7.5	7.5	8.5	7.9	7.77	8.20
Turbidity (NTU)	7.5	7.6	7.5	6.6	8.5	9.0	7.78	-
SS (mg/L)	7.0	9.0	6.0	6.0	6.0	8.0	7.00	-
Remarks				No dredgi	ng works wa	s observed.		

Station			IV	IP				
Time (hh:mm)			18:01	-18:02				
Water Depth (m)			5					
Monitoring Depth (m)	1.	.0	2	.9	4	.7		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	28.2	28.4	-	-	28.1	28.1	28.19	-
Salinity (ppt)	27.7	27.6	-	-	27.7	27.7	27.65	-
pH	7.8	7.8	-	-	7.8	7.8	7.79	
D.O. Saturation (%)	88.2	87.3	-	-	80.7	93.4	87.40	-
D.O. (mg/L)	8.1	8.0	-	-	7.5	8.5	8.02	7.98
Turbidity (NTU)	7.2	7.3	-	-	7.2	7.4	7.28	-
SS (mg/L)	10.0	11.0	-	-	7.0	5.0	8.25	-
Remarks				No dredgii	ng works wa	s observed.		

Compliance with Action an	d Limit Lev	<u>el</u>												
Parameter	As in	EM&A	Mean(C1-	+C3)*130% IMO1		IMO2		MPB1		MPB2		MP		
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedance of Limit Level	Exceedan	Exceedan	Exceedan	Exceedan
	Level	Level	Level	Level	ce of	ce of Limit	Level	of Limit	e of Action		ce of	ce of Limit	ce of	ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	3.3	2.5	8.0	8.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	8.0	8.0	N	N	N	N	N	N	Z	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	10.2	10.2	N	N	N	N	N	N	Z	N	N	N
SS (Depth-averaged)	24.0	37.0	8.7	8.7	N	N	N	N	N	N	N	N	N	N

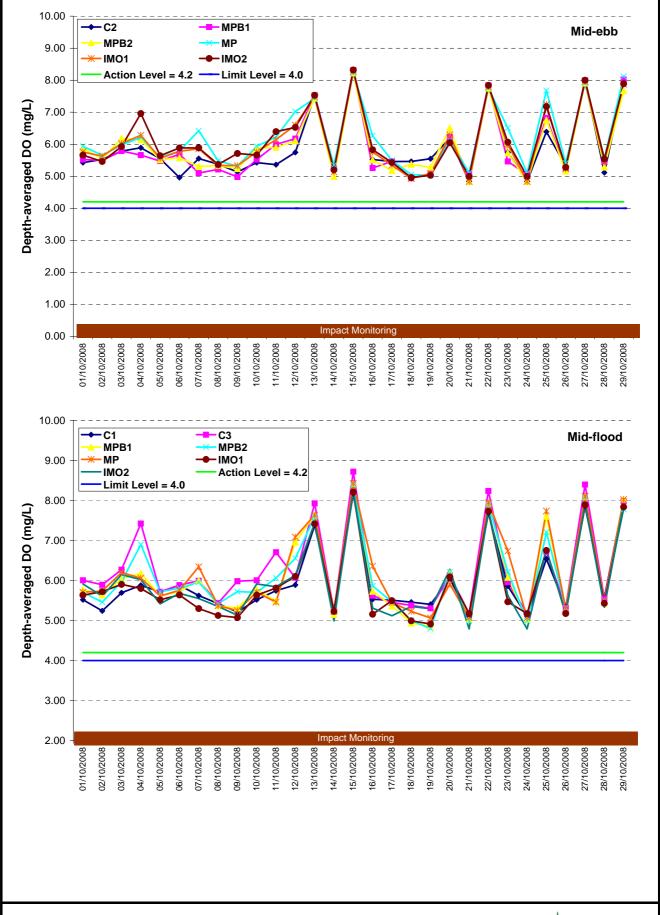


Figure G1 Dissolved oxygen concentration (depth-averaged) (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 1 Oct to 29 Oct 08. No monitoring was conducted on 30 Oct and 31 Oct since no dredging operation was undertaken.



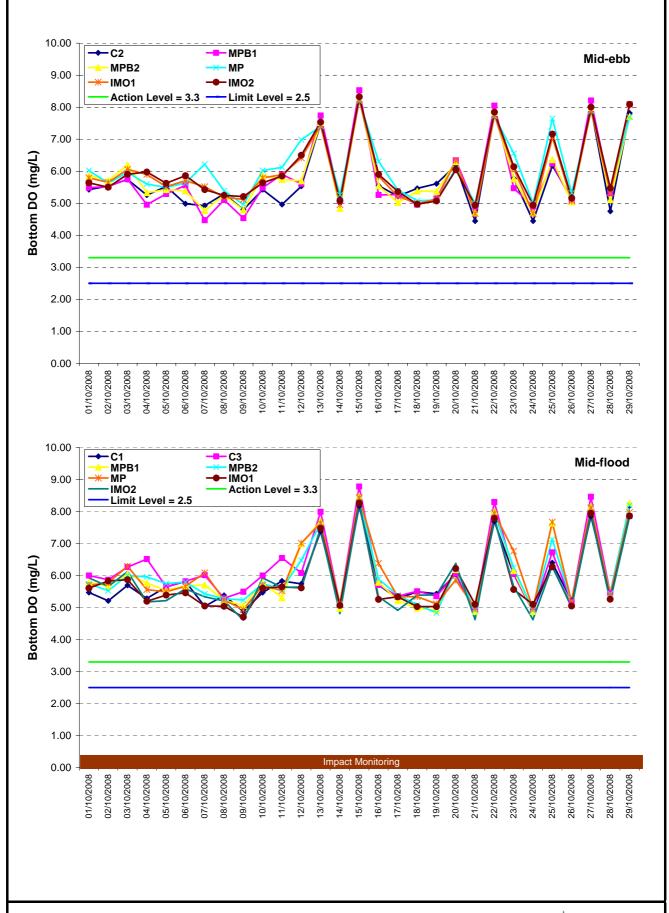


Figure G2 Dissolved oxygen concentration (bottom) (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 1 Oct to 29 Oct 08. No monitoring was conducted on 30 Oct and 31 Oct since no dredging operation was undertaken.



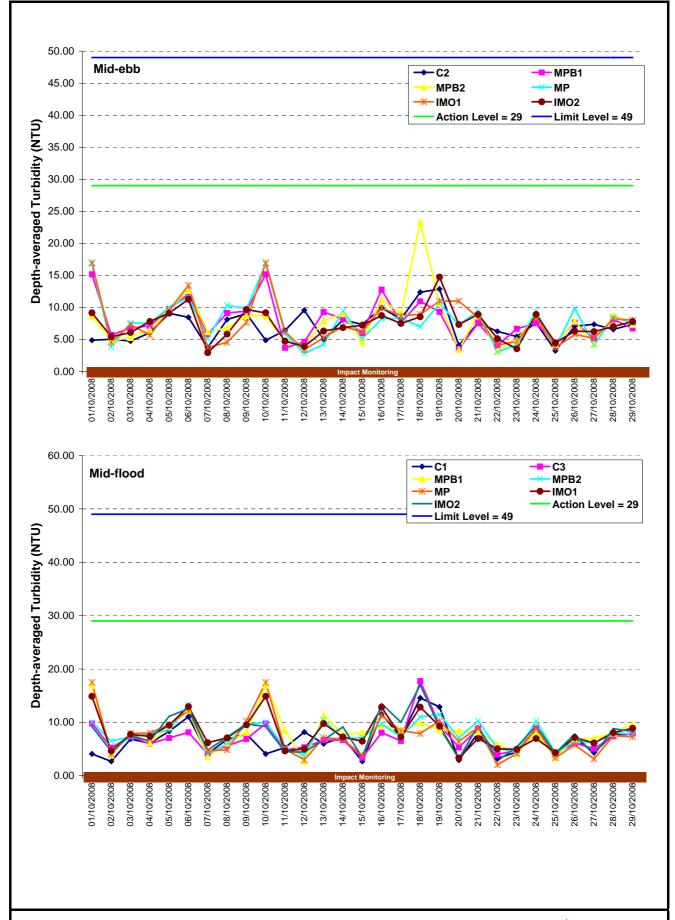


Figure G3 Depth-averaged turbidity (NTU) of water samples from the eight sampling locations at mid-ebb and mid-flood between 1 Oct to 29 Oct 08. No monitoring was conducted on 30 Oct and 31 Oct since no dredging operation was undertaken.



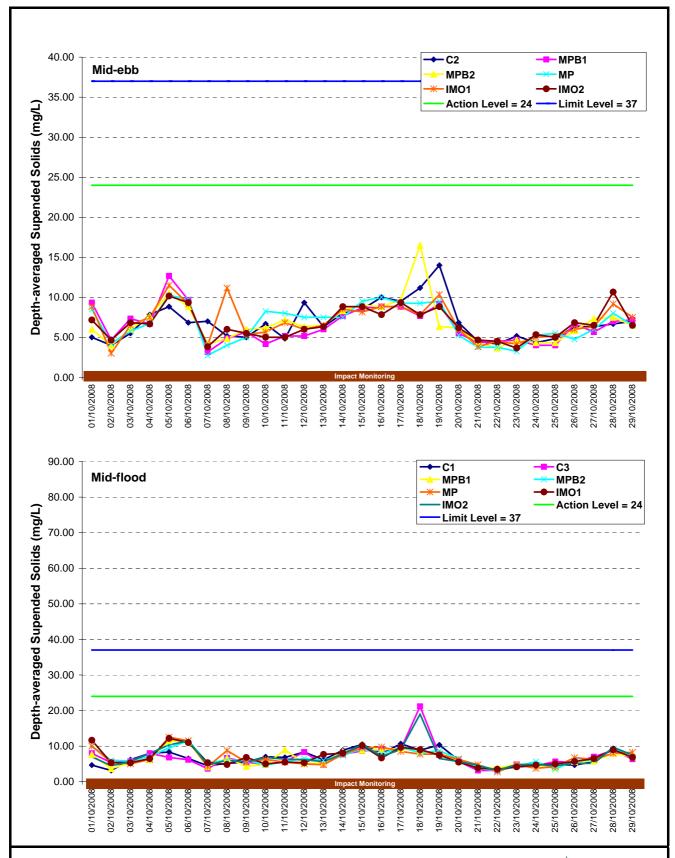


Figure G4 Depth-averaged suspended solids concentration (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 1 Oct to 29 Oct 08. No monitoring was conducted on 30 Oct and 31 Oct since no dredging operation was undertaken.



Annex H

Monitoring Results and QA/QC Reports of Laboratory Testing for POPs

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client Laboratory Page : ERM HONG KONG : ALS Technichem (HK) Pty Ltd : 1 of 7 Work Order

Contact : MS KAREN LUI Contact : Wong Wai Man, Alice HK0816458

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QUARRY BAY, HONG KONG Kwai Chung, N.T., Hong Kong

: Karen.Lui@erm.com E-mail : Alice.Wong@alsenviro.com

Telephone Telephone : +852 2271 3000 : +852 2610 1044 Facsimile Facsimile : +852 2723 5660 : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number Date Samples Received : 08-OCT-2008

FACILITY

Order number Issue Date : 22-OCT-2008 : ----

C-O-C number No. of samples received : 18 Site No. of samples analysed : 18

General Comments

Address

E-mail

This report supersedes any previous report(s) with this reference. Results apply to the 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 processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 13-OCT-2008

Key: LOR = Limit of reporting; CAS Number = Chemistry Abstract Services number

Specific comments for Work Order: HK0816458

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

This report may not be reproduced except with prior written approval from the testing laboratory.

This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories Position Authorised results for Anh Ngoc Huynh Senior Chemist **Organics**

Page Number : 2 of 7

Client : ERM HONG KONG

Work Order HK0816458



Analytical Results

Sub-Matrix: WATER		Clie	nt sample ID	MPB1 ME	MPB1 ME DUP	MPB2 ME	MPB2 ME DUP	MP ME	
	Cli	ent samplir	g date / time	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]	
Compound	CAS Number	LOR	Unit	HK0816458-001	HK0816458-002	HK0816458-003	HK0816458-004	HK0816458-005	
EP-065A: PCB Single Congeners									
PCB 8	34883-43-7	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 18	37680-65-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 28	7012-37-5	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 52	35693-99-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 44	41464-39-5	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 66	32598-10-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 101	37680-73-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 77	32598-13-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 149	38380-04-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 118	31508-00-6	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 153	35065-27-1	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 105	32598-14-4	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 138	35065-28-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 126	57465-28-8	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 187	52663-68-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 128	38380-07-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 156	38380-08-4	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 180	35065-29-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 169	60044-26-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 170	35065-30-6	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 195	52663-78-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
P-065B: Organochlorine Pesticides	3								
4.4`-DDT	50-29-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
4.4`-DDE	72-55-9	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
4.4`-DDD	72-54-8	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EP-065S: PCB Congeners and Organ	nochlorine Pesticides Surrog	ate					Surrogate control lim	its listed at end of this r	
Decachlorobiphenyl	2051-24-3	0.1	%	101	87.8	93.8	101	97.9	

Page Number : 3 of 7

Client : ERM HONG KONG

Work Order HK0816458



Sub-Matrix: WATER		Clie	nt sample ID	MP ME DUP	C2 (NM5) ME	C2 (NM5) ME DUP	MPB1 MF	MPB1 MF DUP
	Clie	ent samplin	ng date / time	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]
Compound	CAS Number	LOR	Unit	HK0816458-006	HK0816458-007	HK0816458-008	HK0816458-009	HK0816458-010
EP-065A: PCB Single Congeners								
PCB 8	34883-43-7	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 18	37680-65-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	7012-37-5	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 52	35693-99-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 44	41464-39-5	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 66	32598-10-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 101	37680-73-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 77	32598-13-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 149	38380-04-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 118	31508-00-6	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 153	35065-27-1	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 105	32598-14-4	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 138	35065-28-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 126	57465-28-8	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 187	52663-68-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 128	38380-07-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 156	38380-08-4	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 180	35065-29-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 169	60044-26-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 170	35065-30-6	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 195	52663-78-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065B: Organochlorine Pesticides	i	,				'		
4.4`-DDT	50-29-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
4.4`-DDE	72-55-9	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
4.4`-DDD	72-54-8	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065S: PCB Congeners and Organ	nochlorine Pesticides Surrog	ate			-		Surrogate control lir	nits listed at end of this report.
Decachlorobiphenyl	2051-24-3	0.1	%	83.9	99.4	69.2	59.8	70.5
					-	-		-

Page Number : 4 of 7

Client : ERM HONG KONG

Work Order HK0816458



Sub-Matrix: WATER		Clie	nt sample ID	MPB2 MF	MPB2 MF DUP	MP MF	MP MF DUP	C1 (NM3) MF
	Clie	ent samplin	ng date / time	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]
Compound	CAS Number	LOR	Unit	HK0816458-011	HK0816458-012	HK0816458-013	HK0816458-014	HK0816458-015
EP-065A: PCB Single Congeners								
PCB 8	34883-43-7	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 18	37680-65-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	7012-37-5	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 52	35693-99-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 44	41464-39-5	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 66	32598-10-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 101	37680-73-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 77	32598-13-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 149	38380-04-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 118	31508-00-6	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 153	35065-27-1	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 105	32598-14-4	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 138	35065-28-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 126	57465-28-8	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 187	52663-68-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 128	38380-07-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 156	38380-08-4	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 180	35065-29-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 169	60044-26-0	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 170	35065-30-6	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 195	52663-78-2	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065B: Organochlorine Pesticides	,				'	'	,	
4.4`-DDT	50-29-3	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
4.4`-DDE	72-55-9	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
4.4`-DDD	72-54-8	0.01	μg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065S: PCB Congeners and Organ	ochlorine Pesticides Surrog	ate					Surrogate control lin	nits listed at end of this repo
Decachlorobiphenyl	2051-24-3	0.1	%	94.7	92.0	110	87.3	106

Page Number : 5 of 7

Client : ERM HONG KONG

Work Order HK0816458



Sub-Matrix: WATER		Clie	ent sample ID	C1 (NM3) MF DUP	C3 (NM6) MF	C3 (NM6) MF DUP		
	Cli	ent samplir	ng date / time	[08-OCT-2008]	[08-OCT-2008]	[08-OCT-2008]		
Compound	CAS Number	LOR	Unit	HK0816458-016	HK0816458-017	HK0816458-018		
EP-065A: PCB Single Congeners								
PCB 8	34883-43-7	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 18	37680-65-2	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 28	7012-37-5	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 52	35693-99-3	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 44	41464-39-5	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 66	32598-10-0	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 101	37680-73-2	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 77	32598-13-3	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 149	38380-04-0	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 118	31508-00-6	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 153	35065-27-1	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 105	32598-14-4	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 138	35065-28-2	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 126	57465-28-8	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 187	52663-68-0	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 128	38380-07-3	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 156	38380-08-4	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 180	35065-29-3	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 169	60044-26-0	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 170	35065-30-6	0.01	μg/L	<0.01	<0.01	<0.01		
PCB 195	52663-78-2	0.01	μg/L	<0.01	<0.01	<0.01		
EP-065B: Organochlorine Pesticides								
4.4`-DDT	50-29-3	0.01	μg/L	<0.01	<0.01	<0.01		
4.4`-DDE	72-55-9	0.01	μg/L	<0.01	<0.01	<0.01		
4.4`-DDD	72-54-8	0.01	μg/L	<0.01	<0.01	<0.01		
EP-065S: PCB Congeners and Organ	ochlorine Pesticides Surrog	ate					Surrogate control limits listed at end of th	nis report.
Decachlorobiphenyl	2051-24-3	0.1	%	104	90.7	92.4		

Page Number : 6 of 7

Client : ERM HONG KONG

Work Order HK0816458



Laboratory Duplicate (DUP) Report

latrix: WATER					La	boratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
P-065A: PCB Sing	le Congeners (QC Lot:	780455)						
HK0816458-001	MPB1 ME	PCB 8	34883-43-7	0.01	μg/L	<0.01	<0.01	0.0
		PCB 18	37680-65-2	0.01	μg/L	<0.01	<0.01	0.0
		PCB 28	7012-37-5	0.01	μg/L	<0.01	<0.01	0.0
		PCB 52	35693-99-3	0.01	μg/L	<0.01	<0.01	0.0
		PCB 44	41464-39-5	0.01	μg/L	<0.01	<0.01	0.0
		PCB 66	32598-10-0	0.01	μg/L	<0.01	<0.01	0.0
		PCB 101	37680-73-2	0.01	μg/L	<0.01	<0.01	0.0
		PCB 77	32598-13-3	0.01	μg/L	<0.01	<0.01	0.0
		PCB 149	38380-04-0	0.01	μg/L	<0.01	<0.01	0.0
		PCB 118	31508-00-6	0.01	μg/L	<0.01	<0.01	0.0
		PCB 153	35065-27-1	0.01	μg/L	<0.01	<0.01	0.0
		PCB 105	32598-14-4	0.01	μg/L	<0.01	<0.01	0.0
		PCB 138	35065-28-2	0.01	μg/L	<0.01	<0.01	0.0
		PCB 126	57465-28-8	0.01	μg/L	<0.01	<0.01	0.0
		PCB 187	52663-68-0	0.01	μg/L	<0.01	<0.01	0.0
		PCB 128	38380-07-3	0.01	μg/L	<0.01	<0.01	0.0
		PCB 156	38380-08-4	0.01	μg/L	<0.01	<0.01	0.0
		PCB 180	35065-29-3	0.01	μg/L	<0.01	<0.01	0.0
		PCB 169	60044-26-0	0.01	μg/L	<0.01	<0.01	0.0
		PCB 170	35065-30-6	0.01	μg/L	<0.01	<0.01	0.0
		PCB 195	52663-78-2	0.01	μg/L	<0.01	<0.01	0.0
P-065B: Organoch	lorine Pesticides (QC	Lot: 780455)						
HK0816458-001	MPB1 ME	4.4`-DDT	50-29-3	0.01	μg/L	<0.01	<0.01	0.0
	IVIFD I IVIE	4.4`-DDE	72-55-9	0.01	μg/L	<0.01	<0.01	0.0
		4.4`-DDD	72-54-8	0.01	μg/L	<0.01	<0.01	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (ME	B) Report		Laboratory Control	Spike (LCS) and Labo	ratory Control	Spike Duplicat	e (DCS) Report	
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RI	PD (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentratio	LCS	DCS	Low	High	Value	Control Limit
EP-065A: PCB Single Congeners (0	QC Lot: 780455)				n			·			
PCB 8	34883-43-7	0.01	μg/L	<0.01	100 μg/L	87.8		50	130		
PCB 18	37680-65-2	0.01	μg/L	<0.01	100 μg/L	92.5		50	130		
PCB 28	7012-37-5	0.01	μg/L	<0.01	100 μg/L	104		50	130		
PCB 52	35693-99-3	0.01	μg/L	<0.01	100 μg/L	106		50	130		
PCB 44	41464-39-5	0.01	μg/L	<0.01	100 μg/L	106		50	130		
PCB 66	32598-10-0	0.01	μg/L	<0.01	100 μg/L	103		50	130		
PCB 101	37680-73-2	0.01	μg/L	<0.01	100 μg/L	104		50	130		

Page Number :

: 7 of 7

Client : ERM HONG KONG

Work Order HK0816458



Matrix: WATER			Method Blank (MB)) Report		Laboratory Control Sp	ike (LCS) and Lai	boratory Control	Spike Duplicate	e (DCS) Report	
					Spike	Spike Reco	very (%)	Recovery	Limits (%)	RI	PD (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentratio	LCS	DCS	Low	High	Value	Control Limit
EP-065A: PCB Single Congeners (C	QC Lot: 780455) - Continue	ed			n						
PCB 77	32598-13-3	0.01	μg/L	<0.01	100 μg/L	101		50	130		
PCB 149	38380-04-0	0.01	μg/L	<0.01	100 μg/L	105		50	130		
PCB 118	31508-00-6	0.01	μg/L	<0.01	100 μg/L	104		50	130		
PCB 153	35065-27-1	0.01	μg/L	<0.01	100 μg/L	106		50	130		
PCB 105	32598-14-4	0.01	μg/L	<0.01	100 μg/L	104		50	130		
PCB 138	35065-28-2	0.01	μg/L	<0.01	100 μg/L	107		50	130		
PCB 126	57465-28-8	0.01	μg/L	<0.01	100 μg/L	106		50	130		
PCB 187	52663-68-0	0.01	μg/L	<0.01	100 μg/L	103		50	130		
PCB 128	38380-07-3	0.01	μg/L	<0.01	100 μg/L	108		50	130		
PCB 156	38380-08-4	0.01	μg/L	<0.01	100 μg/L	106		50	130		
PCB 180	35065-29-3	0.01	μg/L	<0.01	100 μg/L	110		50	130		
PCB 169	60044-26-0	0.01	μg/L	<0.01	100 μg/L	113		50	130		
PCB 170	35065-30-6	0.01	μg/L	<0.01	100 μg/L	113		50	130		
PCB 195	52663-78-2	0.01	μg/L	<0.01	100 μg/L	115		50	130		
EP-065B: Organochlorine Pesticide	s (QC Lot: 780455)										
4.4`-DDT	50-29-3	0.01	μg/L	<0.01	25 μg/L	# Not Determined		50	130		
4.4`-DDE	72-55-9	0.01	μg/L	<0.01	25 μg/L	# Not Determined		50	130		
4.4`-DDD	72-54-8	0.01	μg/L	<0.01	25 μg/L	# Not Determined		50	130		

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Surrogate Control Limits

Sub-Matrix: WATER		Recovery	Limits (%)
Compound	CAS Number	Low	High
EP-065S: PCB Congeners and Organochlorin	e Pesticides Surrogate		
Decachlorobiphenyl	2051-24-3	50	130

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

ALS TECHNICHEM (HK) Pty Ltd

Environmental Division

CERTIFICATE OF ANALYSIS



CONTACT: MS KAREN LUI CLIENT: ERM HONG KONG

ADDRESS: 21/F, LINCOLN HOUSE, 979 KING'S ROAD,

TAIKOO PLACE, ISLAND EAST, QUARRY BAY, HONG KONG.

PROJECT: EM&A FOR THE PERMANENT AVIATION FUEL FACILITY

Batch: HK0816458 LABORATORY: HONG KONG DATE RECEIVED: 08/10/2008

DATE OF ISSUE: 22/10/2008 WATER SAMPLE TYPE: No. of SAMPLES: 18

COMMENTS

Sample(s) were collected by ALS Technichem (HK) staff on 08 October, 2008.

Water sample(s) analysed and reported on an as received basis.

PAHs were subcontracted and tested by ALS Sydney.

ALS Sydney details report was attached. The attached report contains a total of 14 pages.

Sample Details

ALS Lab ID	Sample ID	Date of Sampling
HK0816458 - 1	MPB1_ME	08/10/2008
HK0816458 - 2	MPB1_ME DUP	08/10/2008
HK0816458 - 3	MPB2_ME	08/10/2008
HK0816458 - 4	MPB2_ME DUP	08/10/2008
HK0816458 - 5	MP_ME	08/10/2008
HK0816458 - 6	MP_ME DUP	08/10/2008
HK0816458 - 7	C2 (NM5)_ME	08/10/2008
HK0816458 - 8	C2 (NM5)_ME DUP	08/10/2008
HK0816458 - 9	MPB1_MF	08/10/2008
HK0816458 - 10	MPB1_MF DUP	08/10/2008
HK0816458 - 11	MPB2_MF	08/10/2008
HK0816458 - 12	MPB2_MF DUP	08/10/2008
HK0816458 - 13	MP_MF	08/10/2008
HK0816458 - 14	MP_MF DUP	08/10/2008
HK0816458 - 15	C1 (NM3)_MF	08/10/2008
HK0816458 - 16	C1 (NM3)_MF DUP	08/10/2008
HK0816458 - 17	C3 (NM6)_MF	08/10/2008
HK0816458 - 18	C3 (NM6)_MF DUP	08/10/2008

ISSUING LABORATORY: HONG KONG

Address

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Ms Wong Wai Man Alice Laboratory Manager Hong Kong

Other ALS Environmental Laboratories

Bogor

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AUSTRALIA Brisbane

Melbourne

Newcastle

Sydney

Hong Kong Singapore Kuala Lumpur **AMERICAS** Vancouver Santiago Amtofagasta Lima

Abbreviations: % SPK REC denotes percentage spike recovery

CHK denotes duplicate check sample LOR denotes limit of reporting

LCS % REC denotes Laboratory Control Sample percentage recovery

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

ALS Laboratory Group ANALYT CALCHEMISTRY & TESTING SERVICES

ALS

Environmental Division

CERTIFICATE OF ANALYSIS

Work Order : **ES0815064** Page : 1 of 8

Client : ALS TECHNICHEM (HK) Laboratory : Environmental Division Sydney

Contact : MS ALICE WONG Contact : Charlie Pierce

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Project : NEPM 1999 Schedule B(3) and ALS QCS3 requirement

 Order number
 : --

 C-O-C number
 : --

 Date Samples Received
 : 14-OCT-2008

Sampler : --- Issue Date : 22-OCT-2008

Quote number : SY/241/07 No. of samples received : 18

No. of samples analysed : 18

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



WORLD RECOGNISED ACCREDITATION

Site

NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Alex Rossi Organic Chemist Organics

3 of 8

Work Order

ES0815064

Client

ALS TECHNICHEM (HK)

Project

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The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request

Where moisture determination has been preformed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficit sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client.

Key:

CAS Number = Chemistry Abstract Services number

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

4 of 8 : ES0815064

Work Order Client

: ALS TECHNICHEM (HK)

Project

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Sub-Matrix: WATER			ent sample ID	HK0816458-1 MPB1-ME	HK0816458-2 MPB1-ME DUP	HK0816458-3 MPB2-ME	HK0816458-4 MPB2-ME DUP	HK0816458-5 MP-ME
	Clie	ent sampli	ng date / time	08-OCT-2008-15:00	08-OCT-2008 15:00	08-DCT-2008-15:00	08-OCT-2008 15:00	08-OCT-2008 15:00
Compound	CAS Number	LOR	Unit	ES0815064-001	ES0815064-002	ES0815064 803	ES0815064-004	ES0815064-005
EP132B: Polynuclear Aromatic Hydroc	SIDONE							
3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	< 0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	91-57-6	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	. <0.1
7.12-Dimethylbenz(a)anthracene	57-97-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	0.1	µg/L	<0.1	<0.1	· <0.1	<0.1	<0.1
Anthracene	120-12-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	56-55-3	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	50-32-8	0.05	μg/L	< 0.05	<0.05	< 0.05	<0.05	<0.05
Benzo(b)fluoranthene	205-99-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(e)pyrene	192-97-2	0.1	µg/L	< 0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h.i)perylene	191-24-2	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	< 0.1
Coronene	195-07-1	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a.h)anthracene	53 70-3	0.1	μg/L	<0.1	<0.1	<0.1	99. T	<0.1
Fluoranthene	206-44-0	0.1	н9/L	<0.1	₹0.1	< 0.1	<0.1	<0.1
Fluorene	86-73-7	0.1	µg/L	<0.1	<0.1	< 0.1	< 0.1	<0.1
Indeno(1.2.3.cd)pyrene	193-39-5	0.1	ug/L	<0.1	<0.T	*0.1	<0.1	<0.1
N-2-Fluorenyl Acetamide	53-96-3	0.1	µg/L	<0.1	<0.11	<0.1	<0.1	<0.1
Naphthalene	91-20-3	0.1	μg/L	< 0.1	<0.1	<0.1	<021	<0.1
Perylene	198-55-0	0.1	μg/L	<0.1	<0.1	<0.1	<0_‡	<0.1
Phenanthrene	85-01-B	0.1	μg/L	÷0.1	<0.1	HQ.1	<0.1	<0.1
Pyrene	129-00-0	0.1	µg/L	<0.1	·50.4	<0.1	<0.1	<0.1
EP132T: Base/Neutral Extractable Sur	rogates							
2-Fiuorobiphenyi	321-60-8	0.1	%	87.1	101	93.0	94.0	96.3
Anthracene-d10	1719-06-8	0.1	%	86.3	99.5	92.9	93.0	97.1
4-Terphenyl-d14	1718-51-0	0.1	%	78.3	96.1	91.4	85.9	93.7

5 of 8 ES0815064

Work Order Client

; ALS TECHNICHEM (HK)

Project



Sub-Matrix: WATER	Cii		nt sample ID	HK0816458-6 MP-ME DUP 08-OCT-2008-15:00	HK0816458-7 C2 (NM5)-ME 08-OCT-2008 15:00	HK0816458-8 C2 (NM5)-ME DUP 08-OCT-2008 15:00	HK0816458-9 MPB1-MF 08-OCT-2008 15:00	HK0816458-10 MPB1-MF DUP 08-OCT-2008 15:00
				ES0815064-006	ES0815064-007	ES0815064-008	ES0815064-009	ES0815064-010
Compound	CAS Number	LOH	Unit	230013004-900	200010004-007	2000 20004-000	, 200013004-003	200010004-010
EP132B: Polynuclear Aromatic Hydro								
-Methylcholanthrene	58-49-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
-Methylnaphthalene	91-57-6	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
12-Dimethylbenz(a)anthracene	67-97-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
cenaphthene	83-32-9	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
cenaphthylene	208-96-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
nthracene	120-12-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
enz(a)anthracene	56-55-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
enzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
enzo(b)fluoranthene	205-99-2	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
enzo(e)pyrene	192-97-2	0.1	μg/Ľ	<0.1	<0.1	<0.1	<0.1	<0.1
enzo(g.h.l)perylene	191-24-2	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
enzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
hrysene	218-01-9	0.1	µg/L	<0.1	, <0.1	<0.1	<0.1	<0.1
oronene	191-07-1	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
ibenz(a.h)anthracene	53-70-3	0.1	µg/L	≤0.1	<0.1	<0.1	<0.1	<0.1
luoranthene	206-44-0	0.1	ug/L	<0.1	<0.1	3.1	<0.1	<0.1
luorene	86-73-7	0.1	µg/L	≤0.1	<0.1	<0.1	<0.1	<0.1
ndeno(1.2.3.cd)pyrene	193-39-5	0.1	jig/L	< 0.1	<0.1	<0.1	<0.1	<0.1
-2-Fluorenyl Acetamide	53-96-3	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
aphthalene	91-20-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
erylene	198-55-0	0.7	4g/L	<0.1	<0.1	*9.1	<0.1	:40.1 :
henanthrene	85-01-8	0.1	JIG/L	<0.1	<0.1	<0.1	<0.1	<0.1
yrene	129-00-0	0.1	µg/L	<0.1	<0.1	9.1	<0.1	≤0.1
P132T: Base/Neutral Extractable St	urrogales							
Fluorobiphenyl	321-60-8	Til.	%	98.8	95.8	96.0	96.4	96.1
Anthracene-d10	1719-06-8	0.1	%	96.3	98.6	102	96.2	98.9
1-Terphenyl-d14	1718-51-0	0.1	%	98.0	102	90.4	97.2	101

Fage Work Order 6 of 8 ES0815064

Client

: ALS TECHNICHEM (HK)

Project

Sub-Matrix: WATER		\$39	mt.saaqule ift	HK0816458-11 MPB2-MF	HK0816458-12 MPB2-MF DUP	HK0816458-13 MP-MF	HK0816458-14 MP-MF DUP	HK0816458-15 C1 (NM3)-MF
	: Chi	oti samini	rig ilate / brite	08-OCT-2008 15:00	08-OCT-2008 15:00	08-OCT-2008 15:00	08-OCT-2008 15:00	08-OCT-2008 15:00
Compound	CAS Number	LOR	What	ES0815064-011	ES0815064-012	ES0815064-013	ES0815064-014	ES0815064-015
EP132B: Polynuclear Aromatic Hydr	ocarbons							
3-Methylcholanthrene	56-49-5	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	91-57-6	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
7.12-Dimethylbenz(a)anthracene	57-91-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	83-32	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	120-12-7	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	56-55-3	0.1	μg/L	SQ.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	50-32-8	0.05	μg/I.	<0.05	< 0.05	< 0.05	<0.05	< 0.05
Benzo(b)fluoranthene	205-99-2	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(e)pyrene	192-97-2	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g.h.i)perylene	191-24-2	0.1	Hg/L .	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	207-08-9	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.1	pg/L	< 0.1	<0.1	<0.1	<0.1	<0.1
Coronene	191-07-1	0.1	μg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a.h)anthracene	53-70-3	0.1	µg/L	<0.1	< 0.1	<0.1	<0:1	<0.1
Fluoranthene	206-44-0	0.1	µg/1_	<0.1	×0.1	<0.1	<0.1	< 0.1
Fluorene	86 73 7	0.1	µg/L	<0.1	∀ 0.1	<0.1	<0.1	< 0.1
Indeno(1.2.3.cd)pyrene	193-39 5	0.1	Hg/L	<0.1	<0.1	<0.1	<(), v	< 0.1
N-2-Fluorenyl Acetamide	53-96-3	0.1	µg/L	<0.1	<0.1	<0.1	<(1.	<0.1
Naphthalene	91-20-3	0.4	µg/L	< 0.1	<0.1	<0.1	<0.1	<0.1
Perylene	198-55-0	0.1	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	85-01-8	0.1	µg/⊏	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	129-00-0	0.1	µg/⊫	⊴0.1	<c.1< td=""><td><0.1</td><td><0.1</td><td><0.1</td></c.1<>	<0.1	<0.1	<0.1
EP132T: Base/Neutral Extractable S	urrogates							
2-Fluorobiphenyl	321-60-8	0.1	%	88.4	91.1	. 98.0	97.9	106
Anthracene-d10	1719-06-8	0.1	%	90.2	93.8	103	100	108
4-Terphenyl-d14	1718-51-0	0.1	%	91.6	93.3	109	105	113

: 7 of 8

Work Order Client

; ES0815064 : ALS TECHNICHEM (HK)

Project



Sub-Matrix: WATER		2/10	ni sample II	HK0816458-16 C1 (NM3)-MF DUP	HK0816458-17 C3(NM6)-MF	HK0816458-18 C3(NM6)-MF DUP		<u></u>		
	Gl	от ватри	g pato / time	08-OCT-2088-15:00	08-DCT-2008-15:00	08-OQT-2008 15:00	,			
Compound	CAS Number	LOR	Line	ES0815064-016	ES0815064-017	ES0815064-018	•	****		
EP132B: Polynuclear Aromatic Hydro	garbons									
3-Methylcholanthrene	56-49-5	0.1	ug/L	KD. T	<0.1	<0.1	i f			
2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	<0.1	<0.1			-	
7.12-Dimethylbenz(a)anthracene	57-97-B	0.1	μ <u>α</u> /L	<0.1	<0.1	<0.1	<			
Acenaphthene	83-32-9	0.1	μg/L	<0.1	<0.1	<0.1				
Acenaphthylene	208-96-8	0.1	μg/L	<0.1	<0.1	<0.1			•	
Anthracene	120-12-7	0.1	μg/L	<0.1	<0.1	<0.1				
Benz(a)anthracene	56-55-3	0.1	μg/L	<0.1	<0.1	<0.1				
Benzo(a)pyrene	50-32-8	0.05	μg/L	<0.05	<0.05	<0.05				
Benzo(b)fluoranthene	205-99-2	0.1	μg/L	<0.1	<0.1	<0.1			, -	
Benzo(e)pyrene	192- 97-2	0.1	μg/L	<0.1	<0.1	<0.1			•	-
Benzo(g.h.i)perylene	191-24-2	0.1	μg/L	<0.1	<0.1	<0.1				
Benzo(k)fluoranthene	207-08-9	0.1	μg/L	<0.1	<0.1	<0.1				
Chrysene	218-01-9	0.1	μg/L	<0.1	<0.1	<0.1				
Coronene	191-07-1	0.1	µg/L	<0.1	<0.1	<0.1	*		÷	-
Dibenz(a.h)anthracene	53-70-3	0.1	μg/L	<0.1	<0.1	<0.1				
Fluoranthene	206-44-0	0.1	µg/L	<0.1	<0.1	<0.1				
Fluorene	86-73-7	0.1	μg/ι_	<0.1	<0.1	<0.1				
Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L	<0.1	<0.1	<0.1	-			
N-2-Fluorenyl Acetamide	53-96-3	0.1	μg/L	<0.1	<0.1	<0.1				* .
Naphthalene	91-20-3	0.1	µg/L	<0.1	<0.1	<0.1				
Perylene	198-55-0	0.1	μg/L	<0.1	<0.1	<0.1	3		ş	
Phenanthrene	85 01 8	0.1	µg/∟	<0.1	×0.1	<0.1	- · ·			
Pyrene	129 00 0	0.1	Light.	<0.1	<0.7	<0.1	-			
EP132T: Base/Neutral Extractable Su										
Z-Fluorobiphenyi	321-60-8	0.1	%	98.5	106	98.0				
Anthracene-d10	1719-06-8	0.1	%	101	109	99.4	;		_ · · ·	
4-Terphenyl-d14	1718-51-0	0.1	%	109	118	105	:			

8 of 8 ; ES0815064 Work Order

; ALS TECHNICHEM (HK) Client

Project

Surrogate Control Limits

Sch-Mathr: WATER		Removery	Limis (%)	
Compatinal	CAS Number	1/24	Migh	
EP132T: Base/Neutral Extractable Surrogates				
2-Fluorobiphenyl	321-60-8	43	116	
Anthracene-d10	1719-06-8	27	133	
4-Terphenyl-d14	1718-51-0	33	141	

ALS

Environmental Division

QUALITY CONTROL REPORT

Work Order	: ES0815064	Page	: 1 of 6
Client	: ALS TECHNICHEM (HK)	Laboratory	: Environmental Division Sydney
Contact	: MS ALICE WONG	Contact	: Charlie Pierce
Address	: 11/F CHUNG SHUN KNITTING CNTR 1-3 WING YIP STREET KWAI CHUNG, N.T HONG KONG HONG KONG	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: alice.wong@alsenviro.com	E-mail	: charlie.pierce@alsenviro.com
Telephone	: +852 001185226101044	Telephone	: +61-2-8784 8555
Facsimile	: +852 26102021	Facsimile	: +61-2-8784 8500
Project	: 	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Site	; 		
C-O-C number	·	Date Samples Received	: 14-OCT-2008
Sampler	word.	issue Date	: 22-OCT-2008
Order number	; unua		
		No. of samples received	: 18
Quote number	: SY/241/07	No. of samples analysed	: 18

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentings Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spine (MS) Hupport; Recovery and Acceptance Limits



NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

WORLD RECOGNISED ACCREDITATION ISO/

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position

ition Accreditation Category

Alex Rossi Organic Chemist

Organics

Page 2 of 6

Work Order : ES0815064

Client : ALS TECHNICHEM (HK)

Project : ---

ALS

General Comments

The analytical procedures used by the Environmental Division have been developed from expositshed internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been preformed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficit sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = Chemistry Abstract Services number

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

: 4 of 6

Work Order

E\$0815064

Client

ALS TECHNICHEM (HK)

Project.



Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Samula (LCS) indices to a control and known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER				Method Blank (MB)		Laboratory Control Spike (LCS) Report		
				Report	Sprice	Spine Rocovery (7))	Recovery	Limits (%)
Method: Comoowst	GAS Number	LDR	Linit	Result	Concentration	1.05	4.09y	High
EP132B: Polynuclear Aromatic Hydrocarbons (QCLot: 784266)							
EP132: 3-Methylcholanthrene	56.49.5	0.1	μg/L	<0.1				
		0.10	μg/L		2 μg/L	96.5	65.8	121
EP132: 2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1				
-1.40.5444.7444.2445		0.10	μg/L		2 μg/L	93.2	67.7	112
EP132: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	μg/L	<0.1		·		
		0.10	μg/L		2 μg/L	83.7	11.6	146
EP132: Acenaphthene	83-32-9	0.1	μg/L	<0.1				
		0.10	μg/L		2 μg/L	85.3	73.2	111
EP132: Acenaphthylene	208-96-8	0.1	μg/L	<0.1				
and and a reasonable services		0.10	μg/L		2 μg/L	90.8	72.4	112
EP132: Anthracene	120-12-7	0.1	μg/L	<0.1	i ·			
El 102. Milliodolic		0.10	μg/L		2 μg/L.	90.0	73.4	113
EP132: Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1				
El 102. Deliz(a)alianacene		0.10	μg/L		2 µg/l.	89.0	73.6	114
EP132: Benzo(a)pyrene	50-32-8	0.05	μg/L	<0.05	2 μg/L	98.1	75.2	117
EP132: Benzo(b)fluoranthene	205-99-2	0.1	μg/L	<0.1				1:11
ET 302. Delizo(D)lidoralities le		0.10	μg/L		2 µg/L	85.3	71.4	119
EP132: Benzo(e)pyrene	192-97-2	0.1	μg/L	<0.1				
Er 102. Benzo(e)pyrene		0.10	µg/L		2 μg/L	100	75.3	118
EP132: Benzo(g.h.i)perylene	191-24-2	0.1	μg/L	<0.1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
EF 132. Benzo(g.n.n)perylene	10,212	0.10	μg/L		2 μg/L	93.2	66.6	121
ED133: Panzallyllivaranthana	207-08-9	0.1	μg/L	<0.1				
EP132: Benzo(k)fluoranthene	201 00 0	0.10	μg/L		2 μg/L	108	74.8	118
	218-01-9	0.1	µg/L	<0.1	2 pg/L		14.0	
EP132: Chrysene	2.001-0	0.10	µg/L		2 μg/L	86.5	69.6	120
ED122 Caranana	191-07-1	0.1	μg/L	<0.1	2 pg/L			120
EP132: Coronene	131-07-1	0.10	μg/L		2 μg/L	86.6	47.4	131
ED400. Dile code bloodle	53-70-3	0.10	μg/L	· <0.1	2 pg/L		47.4	131
EP132: Dibenz(a.h)anthracene	33-70-3	0.10	μg/L	×0.1	2 μg/L	96.2	71.5	117
ED400 Floresthan	206-44-0	0.10			2 μg/L			
EP132: Fluoranthene	200-44-0	0.10	μg/L	<0.1		93.3	74.0	117
	46.94.4		µg/L	<0.1	2 μg/L		74.8	117
EP132: Fluorene	86.73-7	0.1	µg/L	<0.1	2	96 F	72.0	111
	ADM: WOLLD	0.10	µg/L		2 µg/L	86.5	72.9	114
EP132: Indeno(1.2.3.cd)pyrene	193 39 6	0.1	μg/L	<0.1		05.0		
		0.10	μg/L		2 μg/L	95.2	67.8	119

Work Order

5 of 6 ES0815064

Client

: ALS TECHNICHEM (HK)

Project

Salls Marrier WATER				Matteed Blanch (MB)		Lidouniony Control Solin (LCS) Report		
				Report	Sedio	Spike Recovery (1st	Recovery	Limits (%)
Method: Command	CAS Number	EDR	Umit.	Result	Concontration	Los	Low	High
EP132B: Polynuclear Aromatic Hydrocarbons (OCLor	784266) - continued							
EP132: N-2-Fluorenyl Acetamide	53-96-3	0.1	μg/L	<0.1				
		0.10	μg/L		2 μg/L	85.2	53.6	131
EP132: Naphthalene	91-20-3	0.1	μg/L	<0.1				
		0.10	μg/L		2 μg/L	91.3	68.3	116
EP132: Perylene	198-55-0	0.1	μg/L	<0.1				
		0.10	μg/L		2 μg/L	97.3	68	122
EP132: Phenanthrene	85-01-8	0.1	μg/L	<0.1				
		0.10	μg/L		2 μg/L	91.4	74.8	112
EP132; Pyrene	129-00-0	0.1	μg/L	<0.1				
		0.10	µg/L	:	2 µg."L	88.8	75.1	117

Annex I

Dolphin Sighting Records

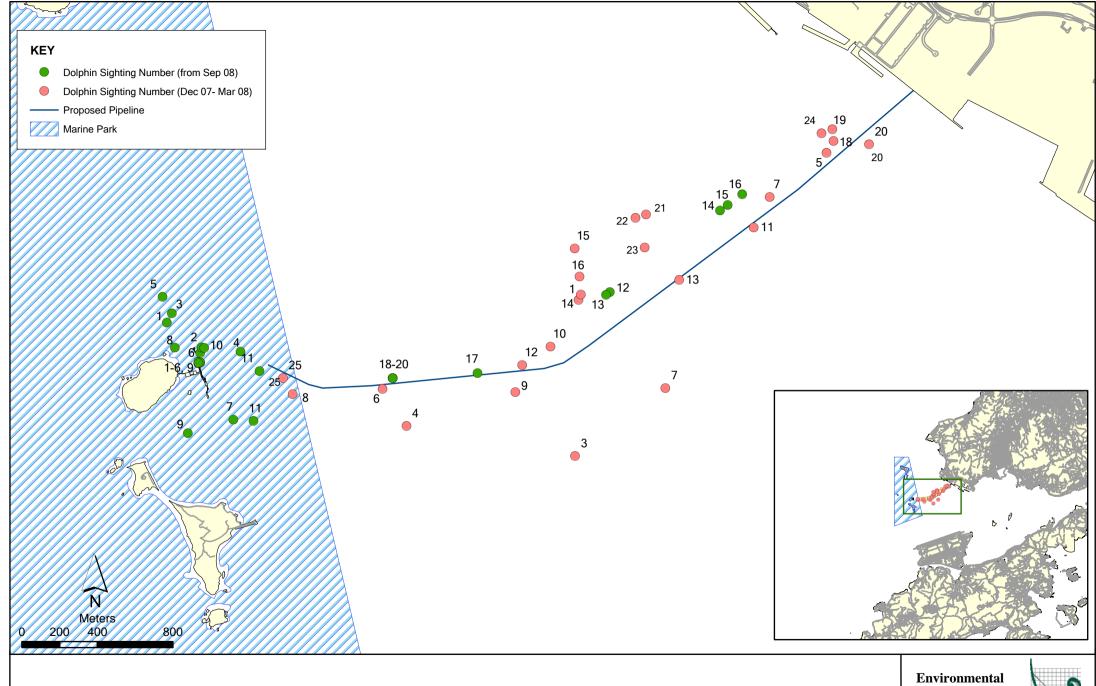
Project name: EM&A for Permanent Aviation Fuel Facility (PAFF) Activity: Dolphin Impact Monitoring - Field Log Sheel

*Remark: Record the number of dolphin occurrence within the 250m exclusion (A) prior to dredging and (B) during dr

** Sighting recorded when there is no dredging

Week Date			Dredger 1 No. of Dolphin Occurrence*	Observers' Names							
	Mon	04 Con		Sighting No.	Dishard Lluana						
1	Mon	01-Sep	No Dredging	- 4.7	Richard Huang						
	Tue	02-Sep	15	1-7	Anton Tsang						
	Wed	03-Sep	2	8	Anton Tsang						
	Thu	04-Sep	1	9	Richard Huang						
	Fri	05-Sep	1	10	Anton Tsang						
	Sat	06-Sep		No Dredging No Dredging							
	Sun	07-Sep									
2	Mon	08-Sep	No Dredging		Richard Huang						
	Tue	09-Sep	0	-	Anton Tsang						
	Wed	10-Sep	0	-	Anton Tsang						
	Thu	11-Sep	0	Richard Huang							
	Fri	12-Sep	0	-	Anton Tsang						
	Sat	13-Sep		No Dredging							
	Sun	14-Sep		No Dredging							
3	Mon	15-Sep		No Dredging							
	Tue	16-Sep	0	-	Richard Huang						
	Wed	17-Sep	0	-	Anton Tsang						
	Thu	18-Sep	0	-	Richard Huang						
	Fri	19-Sep	0	-	Anton Tsang						
	Sat	20-Sep									
	Sun	21-Sep									
4	Mon	22-Sep	No Dredging	-	Ivy So						
	Tue	23-Sep	No Dredging	-	Anton Tsang						
	Wed	24-Sep	Typhoon		•						
	Thu	25-Sep	0	-	Richard Huang						
	Fri	26-Sep	0	-	Ivy So						
	Sat	27-Sep	-	No Dredging	, 55						
	Sun	28-Sep									

5	Mon	29-Sep	0	-	Ivy So					
	Tue	30-Sep	4	11	Ivy So					
	Wed	01-Oct	0	-	Richard Huang					
	Thu	02-Oct	0	-	Ivy So					
	Fri	03-Oct	0	-	Ivy So					
	Sat	04-Oct	0	-	Ivy So					
	Sun	05-Oct	0	-	Richard Huang					
6	Mon	06-Oct	0	-	Ivy So					
	Tue	07-Oct	0	-	Richard Huang					
	Wed	08-Oct	0	-	Ivy So					
	Thu	09-Oct	4	12-13	Ivy So					
	Fri	10-Oct	0	-	Ivy So					
	Sat	11-Oct	3	14	Ivy So					
	Sun	12-Oct	1	15	Richard Huang					
7	Mon	13-Oct	3	16	Ivy So					
	Tue	14-Oct	0	-	Ivy So					
	Wed	15-Oct	No Dredging	-	Ivy So					
	Thu	16-Oct	0	-	Chung					
	Fri	17-Oct	0	-	Ivy So					
	Sat	18-Oct	0	-	Ivy So					
	Sun	19-Oct	1	71	Richard Huang					
8	Mon	20-Oct	0	-	Ivy So					
	Tue	21-Oct	0	-	Ivy So					
	Wed	22-Oct	8	18-20	Ivy So					
	Thu	23-Oct	0	-	Richard Huang					
	Fri	24-Oct	0	-	Ivy So					
	Sat	25-Oct	0	-	Ivy So					
	Sun	26-Oct	0	-	Richard Huang					
9	Mon	27-Oct		No Dredging						
	Tue	28-Oct								
	Wed	29-Oct	No Dredging No Dredging							
	Thu	30-Oct								
	Fri	31-Oct	No Dredging							



Dolphin Sighting Locations (as of 31 October 2008)

Environmental Resources Management



				Dredger	Dredger	Sighting							
Sighting				Coordinates	Coordinates (E-	Distance	#Sighting Angle from				Boat		
No.	Date	Time		(N-Lat)	Long) `	(m)	Dredging Machine (o)	Group size	Group Composition*	Beaufort	Association	Behaviour	Other comments
1	2/9/2008	1000	4315	806678.150	823838.545	275	320	4	2UA, 1 SA, 1 SJ	1	None	Feeding, Travelling	Before Dredging
			4321	806672.460	823840.556								
2	2/9/2008	1024	4315	806678.150	823838.545	80	5	5 2 2UA 1 None Breaching, Spy-h		Breaching, Spy-hopping	Before Dredging		
			4321	806672.460	823840.556								
3	2/9/2008	1035	4315	806678.150	823838.545	300	330	2	1UA, 1SA	1	None	Travelling	Before Dredging
			4321	806672.460	823840.556								
4	2/9/2008	1045	4315	806678.150	823838.545	220	75	3	1UA, 1SA, 1UJ	1	None	Travelling	Before Dredging
			4321	806672.460	823840.556								
5	2/9/2008	1108	4315	806678.150	823838.545	400	330	1	1SA	1	None	Travelling	Before Dredging
			4321	806672.460	823840.556								
6	2/9/2008	1411	4315	806678.150	823838.545	50	0	1	1UA	2	None	Travelling	During Dredging
			4321	806672.460	823840.556								
7	2/9/2008	1530	4315	806678.150	823838.545	350	150	2	2UA	2	None	Travelling	During Dredging
			4321	806672.460	823840.556								
8	3/9/2008	1535	4306	806687.338	823841.180	155	300	2	2UA	1	None	Travelling	During Dredging
			4300	806693.345	823842.903								
9	04/09/2008	1336	4306	806687.338	823841.180	380	190	2	2UA	2	None	Travelling	During Dredging
			4300	806693.345	823842.903								
10	5/9/2008	1711	4315	806678.150	823838.545	80	15	1	1UA	2	None	Travelling	Dredging Stopped
			4321	806672.460	823840.556								
11	30-Sep-08	1050	3925	807000.841	823794.421	250	350	4	4UA	2	None	Travelling	Before Dredging
			4015	806948.534	823867.660								
12	09/10/2008	1001	1900	808853.818	824212.899	200	10	3	3UA	2	None	Travelling	During Dredging
			1925	808833.716	824198.037								
13	09/10/2008	1427	1925	808833.716	824198.037	100	35	1	1UA	3	None	Travelling	Before Dredging
			1970	808797.532	824171.284								
14	11/10/2008	0839	1175	809436.783 824643.917 220 15		15	3	3 UA	2	None	Travelling	Before Dredging	
			1160	809448.845	824652.835								
15	12-Oct-08	0839	1125	809476.988	824673.643	240	160	1	1UA	2	None	Travelling	During Dredging
			1170	809440.804	824646.890								
16	13/10/2008	0818	1030	809553.376	824730.121	170	160	3	1SS, 1 SA, 1 UA	2	None	Breaching, Feeding	Before Dredging
			1025	809557.397	824733.094								
17	19/10/2008	11:04	2730	808154.203	823785.196	270	270	2	2UA	2	None	Travelling	Dredger was moving
			2680	808203.670	823792.332								
18	22/10/2008	1420	3180	807705.065	823757.391	550	30	3	3 UA	2	None	Travelling	During Dredging
			3220	807665.140	823754.942								
19	22/10/2008	1528	3180	807705.065	823757.391	180	55	2	2 UA	2	None	Travelling	During Dredging
			3220	807665.140	823754.942								
20	22/10/2008	1625	3180	807705.065	823757.391	200	45	3	3UA	2	Hang	Feeding	Dredging Stopped
			3220	807665.140	823754.942								
				<u> </u>				1					
*Key	<i></i>			<u> </u>				1					
<u></u>				# Co	mpass bearing is ι	used (North =	0 degree)						
UC :	= Unspotted Ca	alf					-	1					
	Unspotted Juv												
SJ = Spotted Juvenile													
	Spotted Sub-												
	Spotted Adult												
	= Unspotted Ad												
	,												
				<u> </u>									

Sighting				Location of		Dredger Coordinates -	Dredger Coordinates -	Sighting	Sighting Angle from Dredging	Group		Beauf	Boat		
No.	Date	Time	Dredger	Dredger	Chainage	N	E	Distance (m)	Machine (o)	size	Group Composition*		Association	Behaviour	Other comments
1	21/12/2007	1455	GD 4503	Sha Chau	1995	808777.45	824153.43	90	38	3	1SJ, 1SS, 1UA	1	None	Travelling	-
					2000	808773.41	824153.49								
2	25/12/2007	1400	GD 4503	Sha Chau	2110	808685	824088.1	600	225	3	1SJ, 2UA	1	None	Travelling	-
					2120	808676.9	824082.07								
3	28/12/2007	0928	GD 4503	Sha Chau	2630	808252.09	823804.52	620	225	1	1UA	1	Shrimp trawler	Feeding	-
					2645	808237.73	823800.24								
4	2/1/2008	1249	GD 4503	Sha Chau	2985	807899.66	823769.42	290	290	1	1UA	3	None	Travelling	-
					3010	807874.73	823767.73								
5	24/01/2008	1400	GD 4503	Urmston Road	700	809818.64	824926.29	183	190	1	1UA	2	None	Travelling	-
					710	809810.63	824920.38								
6	27/01/2008	0815	GD 654	Sha Chau	3218	807666.91	823754.86	56	280	3	3UA	3	None	Travelling	-
					3250	807635.3	823753.07								
7	31/01/2008	1620	GD 4503	Urmston Road	1035	809549.46	824727.19	150	200	1	1UA	2	None	Travelling	-
					1055	809533.22	824715.36								
															Approaching dredger since being sighted, closest distance aboug
8	04/02/2008	0827	GD 654	Sha Chau	3540	807345.7	823735.42	180	330	3	1UA, 2SS	3	None	Travelling	100m, then out of sight after dive
					3570	807315.78	823733.52								
9	12/02/2008	0815	GD 654	Sha Chau	2354	808496.01	823948.14	100	300	2	1UA, 1SA	3	None	Breaching	-
					2365	808479.88	823936.54								
10	15/02/2008	1619	GD 654	Sha Chau	2235	808584.53	824013.58	100	300	2	1UA, 1SS	2	None	Travelling	During dredging
					2240	808580.47	824010.91								
11	16/02/2008	0949	GD 4503	Urmston Road	1355	809292	824537.03	323	190	1	1UA	2	None	Travelling	-
					1370	809280.05	824527.75								
12	16/02/2008	1604	GD 654	Sha Chau	2610	808271.18	823810.65	120	170	1	1UA	2	None	Travelling	-
					2615	808266.33	823808.98								
13	18/02/2008	0806	GD 654	Sha Chau	1875	808873.92	824227.762	350	180	1	1UA	2	Hang trawler	Feeding	Before dredging
					1845	808898.043	824245.597								
14	19/02/2008	0812	GD 654	Sha Chau	1855	808889.87	824239.57	213	350	1	1UA	2	None	Travelling	No dredging, Dredger under repair
					1881	808869.34	824224.42								
15	20/02/2008	0927	GD 654	Sha Chau	1820	808918.13	824260.54	310	45	2	2UA	2	None	Travelling	No dredging, Dredging was not carried out until 11:30am
40	0.4 /0.0 /0.000	0740	00.054	01 01	1811	808925.65	824265.81	400			400 0114		01 :	- "	
16	21/02/2008	0749	GD 654	Sha Chau	1880	808869.9	824224.79	190	30	3	1SS, 2UA	2	Shrimp trawler	Feeding	No dredging
					1885	808865.88	824221.82							Travelling, breaching, spy-	
17	21/02/2008	1001	GD654	Sha Chau		On mobilization		150	80	4	3UA, 1UJ	2	None	hopping	No dredging
18	23/02/2008	1323	ST20	Urmston Road	565	809927.43	825006.52	110	195	1	1UA	1	None	Feeding	During dredging
					571	809922.44	825002.96								

19	07/03/2008	1018	ST20	Urmston Road	450	810019.75	825074.94	11	200	1	1UA	2	None	Traveling	
	01/00/2000		0.20	- Cimotoni itaaa	460	810011.71	825068.99		200				110.10		
														Spy-hopping,	
														traveling,	
														breaching,	
20	07/03/2008	1117	ST20	Urmston Road	450	810019.75	825074.94	180-220	70-220	1	1UA	2	None	porpoishing	
	01700/2000		0.20	- Cimoton reduc	460	810011.71	825068.99	.00 220	. 0 220	1			110.10	porpororing	
21	10/03/2008	1147	ST20	Urmston Road	1605	809091.025	824388.279	240	90	2	1UA, 1SJ	2	None	Travelling	No dredging
	.0/00/2000		0.20	- Cimoton reduc	1540	809143.291	824426.922	2.0		_	1071, 100		. 10.10	g	i to alloagilig
					1010	0001101201	0211201022			1					Dolphin-watching vessel passed
															by; Travelling away from dredger;
22	12/03/2008	1150	GD654	Urmston Road	1600	809095.045	824391.252	240	75	2	2UA	3	None	Travelling	During dredging
	12/00/2000	1100	ODOOT	Cimotori rtoda	1555	809131.229	824418.005	210	7.0	-	20/1		140110	g	2 amig areaging
					1000	000101.220	021110.000								Wandering around between
															distance of 80-300m from
															dredger and stayed for ~6mins;
23	12/03/2008	1220	GD654	Urmston Road	1600	809095.045	824391.252	80	60	2	1UA, 1SJ	3	None	Feeding	No dredging
	12/00/2000		02001	- Cimoton reduc	1555	809131.229	824418.005			_	1071, 100		. 10.10		in a surgering
24	21/032008	1620	GD31	Urmston Road	550	809939.34	825015.48	51	150	2	2UA	2	None	Travelling	-
	21/002000	.020	020.	o.moton read	560	809931.29	825009.54	<u> </u>		_	2071		. 10.10	g	
25	25/03/2008	1110	GD31	Urmston Road	750	807161.08	823724.02	50	30	1	1UA	2	None	Travelling	-
					760	807111.18	823720.96							- Train aming	
*Key	:														
UC =	Unspotted Calf														
UJ =	Unspotted Juver	nile													
SJ =	Spotted Juvenile	9													
SS =	Spotted Sub-ad	ult													
SA =	Spotted Adult														
UA =	Unspotted Adult	t													
	•														
	1					1			1		1		I .	1	

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