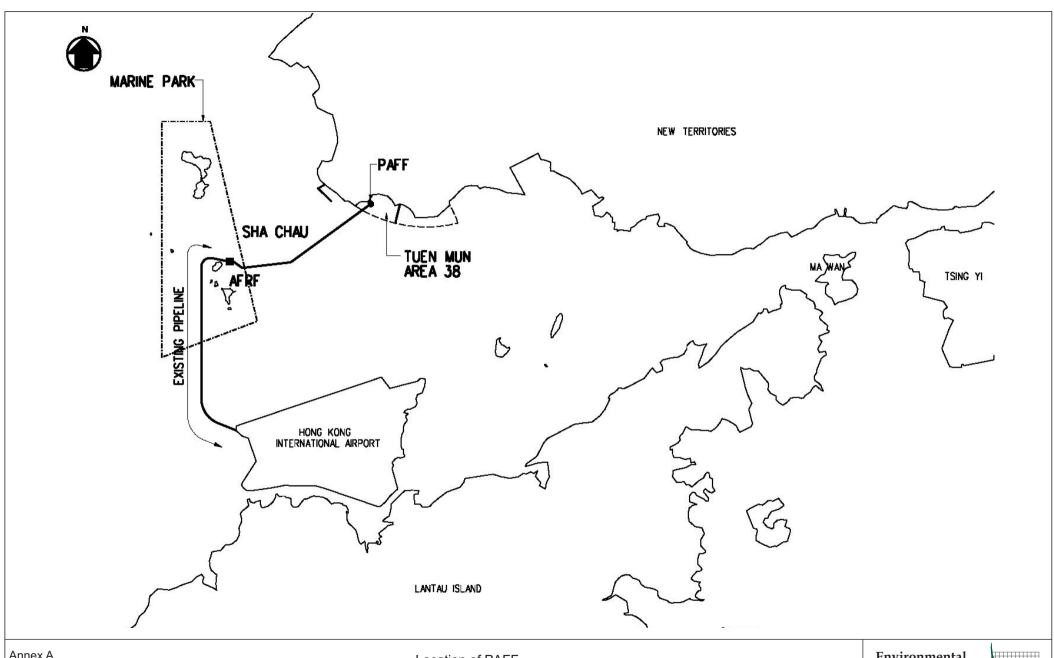
Annex A

Project Location



Annex A

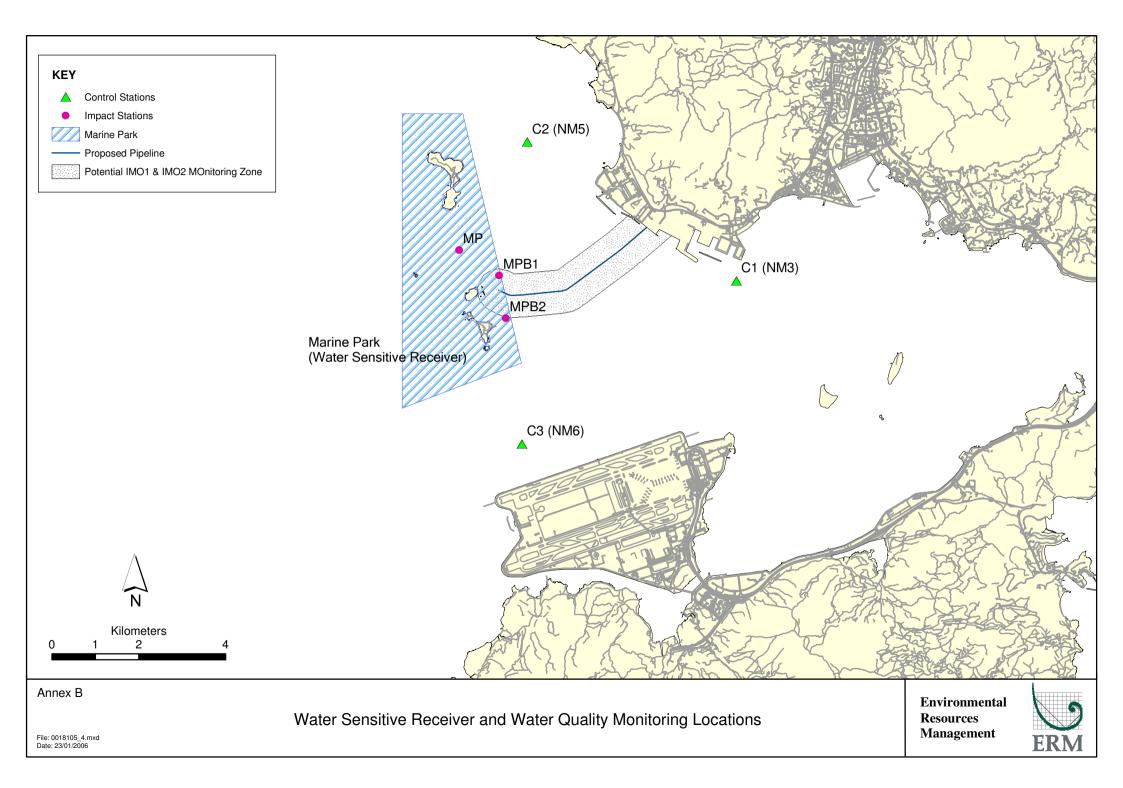
Location of PAFF

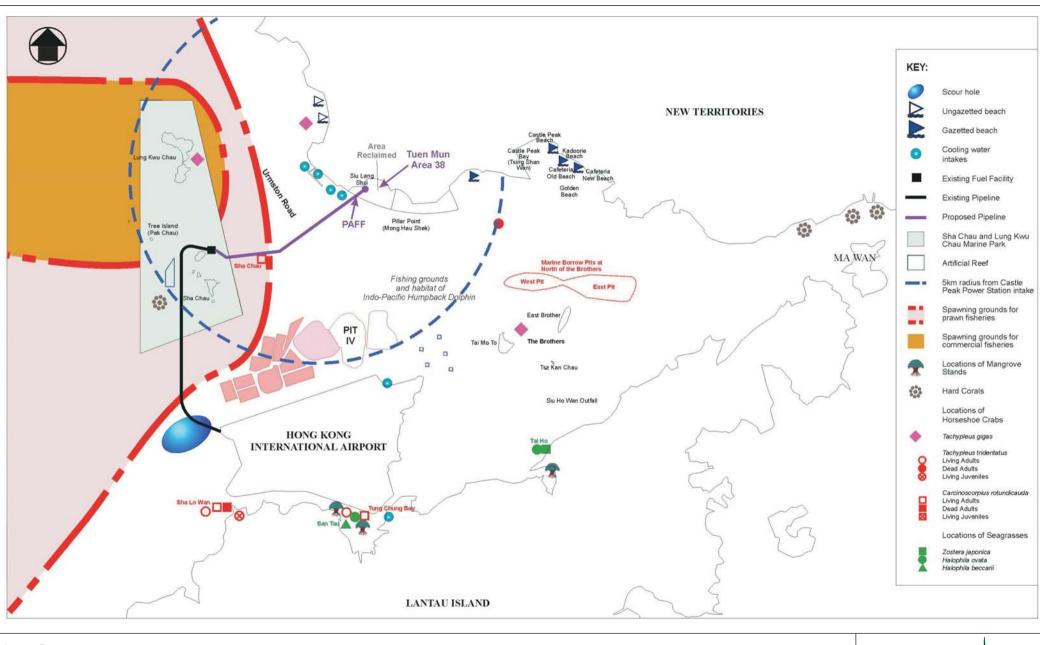
Environmental Resources Management



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

Permanent Aviation Fuel Facility Tentative Water Quality Monitoring Schedule - December 2007

Reference Tidal Station: Lok On Pai (source: HK Observatory Department)

Sun	day	M	onday	Tu	esday	Wed	dnesday	Th	ursday	F	riday	Sa	turday
													01-Dec
	02-Dec		03-Dec		04-Dec		05-Dec		06-Dec		07-Dec		08-Dec
	09-Dec		10-Dec		11-Dec		12-Dec		13-Dec		14-Dec		15-Dec
	40 D		47.0		10.5		10.5		00.0		04.0		00.0
	16-Dec		17-Dec		18-Dec		19-Dec		20-Dec		21-Dec		22-Dec
		Mid-flood	13:12	Mid-flood	13:52	Mid-ebb	07:47	Mid-ebb	09:01	Mid-ebb	10:11	Mid-ebb	11:19
		Mid-ebb	19:12	Mid-ebb	20:20	Mid-flood	14:29	Mid-flood	15:07	Mid-flood	15:47	Mid-flood	16:29
	23-Dec		24-Dec		25-Dec		26-Dec		27-Dec		28-Dec		29-Dec
Mid-ebb	12:14	Mid-ebb	13:03	Mid-ebb	13:50	Mid-ebb	14:34	Mid-ebb	15:19	Mid-ebb	16:04	Mid-flood	11:34
Mid-flood	17:15	Mid-flood	18:01	Mid-flood	18:48	Mid-flood	19:36	Mid-flood	20:22	Mid-flood	21:08	Mid-ebb	16:52
						+POP San	nples						
	30-Dec		31-Dec										
Mid-flood	12:14	Mid-ebb	05:29										
Mid-ebb	17:48	Mid-flood	12:51										

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

Permanent Aviation Fuel Facility Tentative Water Quality Monitoring Schedule - January 2008

Reference 7	Tidal Station: L	ok On Pai (s	ource: HK Obs	servatory De	partment)								
Su	ınday	Mo	onday	Tu	esday	Wed	Inesday	Thu	ırsday	Fi	riday	Sat	urday
					01-Jan		02-Jan		03-Jan		04-Jan		05-Jar
				Mid-Ebb	06:06	Mid-Ebb	07:14	Mid-Ebb	08:59	Mid-Ebb	10:19	Mid-Ebb	11:06
				Mid-Flood	13:25	Mid-Flood	13:54	Mid-Flood	14:24	Mid-Flood	14:59	Mid-Flood	15:42
	06-Jan		07-Jan		08-Jan		09-Jan	I	10-Jan		11-Jan		12-Jai
Mid-Ebb	11:47	Mid-Ebb	12:26	Mid-Flood	08:13	Mid-Flood	08:44	Mid-Flood	09:14	Mid-Flood	09:44	Mid-Flood	10:13
Mid-Flood	16:27	Mid-Flood	17:12	Mid-Ebb	13:04	Mid-Ebb	13:43	Mid-Ebb	14:20	Mid-Ebb	14:59	Mid-Ebb	15:38
						+POP Sam	ples						
	13-Jan		14-Jan		15-Jan		16-Jan		17-Jan		18-Jan		19-Jai
Mid-Flood	10:43	Mid-Flood	11:14	Mid-Flood	11:49	Mid-Flood	12:25	Mid-Ebb	06:55	Mid-Ebb	08:24	Mid-Ebb	09:59
Mid-Ebb	16:21	Mid-Ebb	17:09	Mid-Ebb	18:13	Mid-Ebb	19:23	Mid-Flood	13:06	Mid-Flood	13:50	Mid-Flood	14:43
	20-Jan		21-Jan		22-Jan		23-Jan		24-Jan		25-Jan		26-Jar
Mid-Ebb	11:12	Mid-Ebb	12:11	Mid-Ebb	12:58	Mid-Flood	08:30	Mid-Flood	09:04	Mid-Flood	09:34	Mid-Flood	10:01
Mid-Flood	15:56	Mid-Flood	17:04	Mid-Flood	18:02	Mid-Ebb	13:40	Mid-Ebb	14:19	Mid-Ebb	14:55	Mid-Ebb	15:30
						+POP Sam	ples						
	27-Jan		28-Jan		29-Jan		30-Jan		31-Jan				
Mid-Flood	10:23	Mid-Flood	10:45	Mid-Flood	11:08	Mid-Flood	11:35	Mid-Ebb	05:35				
Mid-Ebb	16:04	Mid-Ebb	16:42	Mid-Ebb	17:31	Mid-Ebb	18:47	Mid-Flood	11:55				

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

Annex D

Cumulative Complaints Statistics

Summary of Environmental Complaints

Reporting Period		Complaint Statistics	;
	Frequency	Cumulative	Complaint Nature
Before construction works	1	1	Dust
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
Re-commencement of cor 09/07/07 - 31/07/07	astruction works on 9th 0	² July 2007	Nil
01/08/07 - 31/08/07	0	2	Nil
01/09/07 - 30/09/07	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

$Summary\ of\ Environmental\ Summons$

Reporting Period]	Environmental Summo	ns
_	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
Re-commencement of con-	struction works on 9th	July 2007	
09/07/07 - 31/07/07	0	0	Nil
01/08/07 - 31/08/07	0	0	Nil
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

Annex E

Implementation Schedule

ANNEX E IMPLEMENTATION SCHEDULE

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or		plemer Sched	ale	Maintenance Agency	Implementation Status
Water Qual	Reference				Requirement	D	С	О		
water Qual	iity									
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	Pending
6.7	6.8.1	No hydraulic dredging within Marine Park.	Marine Park / Pipeline Dredging	Contractor	TMEIA		Y		N/A	Pending
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	Pending
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	Pending
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	Pending
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	Pending
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	Pending

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	-		tion		Implementation
Reference	Manual Reference		Timing	Agent	Standard or Requirement	D		i <mark>edul</mark> C	e O	Agency	Status
6.7	6.8.1	Barges and hopper dredgers shall have	Dredged areas/	Contractor	TMEIA Marine			<u>Y</u>		N/A	Pending
***	*****	tight fittings seals to their bottom	Pipeline		Fill Committee			_		- 1,	
		openings to prevent leakage of material.	Dredging		Guidelines.						
			0 0		DASO permit						
					conditions						
6.7	6.8.1	Any pipe leakages shall be repaired	Dredged areas/	Contractor	TMEIA Marine		•	Y		N/A	Pending
		quickly. Plant should not be operated	Pipeline		Fill Committee						
		with leaking pipes	Dredging		Guidelines.						
					DASO permit						
					conditions						
6.7	6.8.1	Loading of barges and hoppers shall be	Dredged areas/	Contractor	TMEIA Marine			Y		N/A	Pending
		controlled to prevent splashing of	Pipeline		Fill Committee						
		dredged material to the surrounding	Dredging		Guidelines.						
		water. Barges or hoppers shall not be			DASO permit						
		filled to a level which will cause			conditions						
		overflow of materials or pollution of									
		water during loading or transportation.		_							
6.7	6.8.1	Excess material shall be cleaned from the		Contractor	TMEIA Marine			Y		N/A	Pending
		decks and exposed fittings of barges and	-		Fill Committee						
		hopper dredgers before the vessel is	Dredging		Guidelines.						
		moved.			DASO permit conditions						
6.7	6.8.1	Adequate freeboard shall be maintained	Dredged areas/	Contractor	TMEIA Marine		,	Y		N/A	Pending
0.7	0.0.1	on barges to reduce the likelihood of	Pipeline	Contractor	Fill Committee			1		IN/ A	1 enumg
		decks being washed by wave action.	Dredging		Guidelines.						
		decks being washed by wave action.	Dreaging		DASO permit						
					conditions						
6.7	6.8.1	All vessels shall be sized such that	Dredged areas/	Contractor	TMEIA Marine		•	Y		N/A	Pending
		adequate clearance is maintained	Pipeline		Fill Committee					,	O
		between vessels and the sea bed at all	Dredging		Guidelines.						
		states of the tide to ensure that undue	0 0		DASO permit						
		turbidity is not generated by turbulence			conditions						
		from vessel movement or propeller									
		wash.									

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	Im	-	ment nedu		Maintenance Agency	Implementation Status
Reference	Reference		Tilling	Agent	Requirement	D		C	O	Agency	Status
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
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			Y		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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or		-	che	edul		Maintenance Agency	Implementation Status
6.7	Reference 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	Requirement TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards	D		Y		O	N/A	Ongoing
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	<u>′</u>		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	<u>{</u>		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	<u> </u>		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	<u>'</u>		N/A	Ongoing

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	In	-		ntat dule		Maintenance Agency	Implementation Status
Reference	Reference		Timing	Agent	Requirement	D	5	C		O	Agency	Status
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
6.7	6.8.1	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	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	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	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	The section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse 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	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	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	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	·	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	-	men hedu	tation	Maintenance Agency	Implementation Status
Reference	Reference		Timing	rigent	Requirement	D	50	C	O	rigericy	Status
6.7	6.8.1	The contractors shall prepare oil/chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	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	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	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	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			Y		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			Y		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			Y		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			Y		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		Y		Franchisee	Pending

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	In	plementa			Implementation
Reference	Manual Reference		Timing	Agent	Standard or Requirement	D	Schedul C	e O	Agency	Status
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			Y	Franchisee	Pending
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	Pending
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	Pending
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	Pending
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	Pending

EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	-		Maintenance	Implementation
		Timing	Agent		_			Agency	Status
					D	C			
Section 6	0 11	Tank farm	Franchisee				Y	Franchisee	Pending
	=								
				for Oil					
				Installations,					
	to deal with spillages.			1992					
Section 6	Valves shall be installed within the storm	Tank farm	Franchisee	TMEIA		Y		Franchisee	Pending
	drainage system to facilitate the retention								
	of spillages.								
Section 6	Water quality monitoring shall be	Design	Contractor	EM&A Manual		Y		N/A	Pending
	undertaken for suspended solids,	monitoring							
	turbidity, and dissolved oxygen.	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							
	Manual Reference Section 6	Manual Reference 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. Section 6 Valves shall be installed within the storm drainage system to facilitate the retention of spillages. Section 6 Water quality monitoring shall be undertaken for suspended solids,	Manual Reference 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 Section 6 Valves shall be installed within the storm drainage system to facilitate the retention of spillages. Tank farm 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	Manual Reference Timing Agent 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 Section 6 Valves shall be installed within the storm drainage system to facilitate the retention of spillages. Tank farm Franchisee Section 6 Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Design Contractor EM&A Manual, section 6. Construction period when dredging takes place within 1000m of 1000m of Marine Park and along entire length of the 1000m of the 1000m of the 1000m of the	Manual ReferenceTiming ReferenceAgent RequirementSection 6 ReferenceContingency 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 FranchiseeTMEIA Hong Kong Code of Practice for Oil Installations, 1992Section 6 Valves shall be installed within the storm drainage system to facilitate the retention of spillages.Tank farm FranchiseeTMEIA TMEIASection 6 Water quality monitoring shall be undertaken for suspended solids, 1 turbidity, and dissolved oxygen.Design Contractor EM&A Manual	Manual Reference Timing Agent Standard or Requirement Do Requirement De Requirement De Requirement De Requirement De Requirement De Requirement TIMEIA Section 6 Contingency procedures shall be drawn up to ensure containment and safe up to ensure contain and safe up to ensure cont	Manual Reference 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, Installa	Manual Reference Timing Agent Standard or Requirement % Chellers Conditingency 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 Y Y Section 6 Valves shall be installed within the storm drainage system to facilitate the retention of spillages. Tank farm Franchisee TMEIA Y Y Y Section 6 Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Design Contractor EM&A Manual, section 6. EM&A Manual, section 6. EM&A Manual, section 6. Construction period when dredging takes place within 1000m of Marine Park and along entire length of the Hong the drawn of the practical properties of the propert	Manual Reference Timing Agent Standard or Requirement Schedures Agency Section 6 Reference Contingency procedures shall be drawn up to ensure containment and safe disposal of any fuel lost from tanks or pipework. Suitable absorbent materials to deal with spillages. Tank farm Franchisee Hong Kong Code of Practice From Coll (Franchisee) Franchisee To Oil (Franchisee) Franchisee Franchisee To NEIA Y Franchisee Franchisee To NEIA Y Franchisee Franchisee Franchisee To NEIA Y Y Franchisee Franchisee Franchisee To NEIA Y Y N/A N/A<

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	plement	ation	Maintenance	Implementation
Reference	Manual		Timing	Agent	Standard or		Schedu	le	Agency	Status
	Reference				Requirement	D	C	O		
6.10	Section 6	Routine water quality monitoring in the	Operational	Franchisee	EM&A Manual			Y	N/A	Pending
		vicinity of the PAFF site to check the	phase.							
		effectiveness of the proposed	Location and							
		precautionary measures implemented	frequency to be							
		for on-site spill control. The details of	determined and							
		the monitoring to be undertaken will be	agreed with							
		prepared by the Franchisee as part of the	relevant							
		PAFF Operations Manual and the details	authorities							
		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.								
Ecology										
7.8	5.3	Undertake post construction dolphin	Construction	Contractor	TMEIA		Y		N/A	Pending
		abundance monitoring.								
7.8	5.3	A 250m dolphin exclusion zone shall be	250m around	Contractor	TMEIA		Y		N/A	Pending
		implemented and dredging shall not	dredger/throug							
		begin until the observer has confirmed	hout dredging							
		that the area has been clear for 30	in Marine Park							
		minutes.	and along the							
			length of							
			pipeline							

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	-	entation		Implementation
Reference	Manual Reference		Timing	Agent	Standard or Requirement	D	Sche C	dule O	Agency	Status
7.8	5.3	Works will be restricted to a daily maximum of 12 hours within daylight hours.	Throughout dredging in Marine Park and along the length of the pipeline except for the section crossing Urmston Road Channel	Contractor	TMEIA		Y		N/A	Pending
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	Pending
Landscape										
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	-	olementa Schedul		Maintenance Agency	Implementation Status
Reference	Reference		16	rigent	Requirement	D	C	O	rigency	Status
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.	PAFF site / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Im D	plemen Schedu C	Maintenance Agency	Implementation Status
Cultural He	eritage								
9.8.1	9.2.1	Undertake a watching brief during dredging of the pipeline within 25m either side of anomalies SS1 and SS2. This should comprise:	Within vicinity of SS1 and SS2	Franchisee	TMEIA		Y	N/A	Pending
		 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; 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 							

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	Im		entation dule	Maintenance Agency	Implementation Status
Kererence	Reference		Tilling	Agent	Requirement	D	C		Agency	Status
		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	Pending
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	Pending
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	Pending
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	Pending
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	Pending
11.4.1	10.2	Pipeline to be covered with a protective rock armour layer.	Pipelines/ Design Phase	Franchisee	TMEIA	Y			Franchisee	Pending

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or	Im	plement Schedu		Maintenance Agency	Implementation Status
	Reference		J	S	Requirement	D	C	O	5 ,	
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.		Franchisee	TMEIA			Y	N/A	Pending
Land Conta	nmination	-								
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	Pending
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	Pending
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	Pending

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant				Maintenance	Implementation
Reference	Manual		Timing	Agent	Standard or		Schedu		Agency	Status
	Reference				Requirement	D	С	О		
13.5.1	10.2	Impermeable lining shall be provided for all tank pits.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	Pending
13.5.1	10.2	Leak detection systems shall be provided to all valves.	0	Franchisee	TMEIA	Y			N/A	Pending
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	Pending
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	Pending
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	Pending
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	Pending
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	Pending

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	Pipe leakages shall be routinely checked	Tank farm /	Franchisee	TMEIA	Y	Y	Y	N/A	Pending
		for by means of a pressure sensitive leak detection system and routine inventory control.	Design							
13.5.5	10.2	Drainage from areas of hardstanding shall be treated by means of oil/water 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.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	Pending
13.5.5	10.2	The delivery pipeline from the jetty and the supply line to the airport shall be fitted with pressure sensitive leak detectors.	Tank farm / Design	Franchisee	TMEIA	Y	Y		N/A	Pending
Waste Man	agement									
14.7.2	8.3.1	The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	The waste coordinator shall prepare and implement a Waste Management Plan which specifies procedures such as ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of waste does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposal.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or		-	emen chedu C		Maintenance Agency	Implementation 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	Requirement TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.	D		Y	0	N/A	Ongoing
14.7.2	8.3.1	No waste shall be burnt on site.	PAFF Site throughout construction period	Contractor	TMEIA			Y		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	Contractor	TMEIA			Y		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 Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation	Relevant Standard or	Im	plement Schedul		Maintenance	Implementation Status
Reference	Reference		Timing	Agent	Requirement	D	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	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

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	Im	ple	ment	ation	Maintenance	Implementation
Reference	Manual		Timing	Agent	Standard or		Sc	hedul	le	Agency	Status
	Reference				Requirement	D		C	O		
14.7.2	8.3.1	Stockpiles shall be covered by tarpaulin	All areas /	Contractor	TMEIA, Public			Y		N/A	Ongoing
		and/or watered as required.	throughout		Health and						
			construction		Municipal						
			period,		Services						
			particularly		Ordinance (Cap						
			during dry		132) and the						
			season		Public						
					Cleansing and						
					Prevention of						
					Nuisances						
					(Regional						
					Council) By-						
					laws						
14.7.2	8.3.1	Storage of material on site should be kept	All areas /	Contractor	TMEIA, Public			Y		N/A	Ongoing
		to a minimum.	throughout		Cleansing and						
			construction		Prevention of						
			period		Nuisances						
					(Regional						
					Council) By-						
					laws						

EIA Reference	EM&A Manual	nual	Location/ Timing	Implementation Agent	Relevant Standard or	Implementation Schedule		lule	Maintenance Agency	Implementation Status
14.7.2	Reference 8.3.1	Excavated material in trucks shall be covered by tarpaulins.	All areas, particularly at site exits / throughout construction period	Contractor	Requirement 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	D	C Y	0	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	Council) By- laws TMEIA, Public Cleansing and Prevention of Nuisances (Regional Council) By- laws		Υ		N/A	Ongoing
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

EIA	EM&A	Environmental Protection Measures	Location/	Implementation	Relevant	In	-		ation	Maintenance Agency	Implementation Status
Reference	Manual		Timing	Agent	Standard or	_		edul			
	Reference				Requirement	D		C	О		
14.7.2	8.3.1	to collect chemical waste for delivery to a			TMEIA, Code of			Y		N/A	Ongoing
					Practice on the						
		licensed treatment facility.	facility at Tsing		Packaging,						
			Yi / throughout		Labelling and						
			construction		Storage of						
			period		Chemical						
					Wastes. A						
					Guide to the						
					Chemical Waste						
					Control Scheme					/.	
14.7.2	8.3.1	Temporary storage areas for general refuse should be enclosed to avoid environmental impacts.	All areas/ throughout construction	Contractor	TMEIA, Public	Y		N/A	Ongoing		
					Health and						
					Municipal						
			period		Services						
1470	0.0.1		A 11 /	C	Ordinance			.,		NT / A	
14.7.2		Sufficient dustbins should be provided for storage of waste.	*	Contractor	TMEIA, Public		Y		N/A	Ongoing	
					Cleansing and Prevention of						
					Nuisances						
					Ordinance						
	(Regional Council) By- laws, Public Health and Municipal Services										
					, ,						
					•						
					Ordinance						
14.7.2	8.3.1	3.1 General refuse should be cleared daily and should be disposed of to the nearest licensed facility.	All areas,	Contractor	TMEIA,			Y		N/A	Ongoing
11.7.2	0.5.1		WENT landfill	Contractor	Sanitation and		1		IN/ A	Origoritg	
			or NWNT		Conservancy						
			refuse transfer stations/		(Regional						
					Council) By-						
			throughout		laws						
			construction		-20						
			period								
			r								

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	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
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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	In D	Sc	mentation hedule C O	Maintenance Agency	Implementation Status
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:	PAFF site/ throughout construction	Contractor	TMEIA			Y	N/A	Ongoing
		• Clearly labelled;	period							
		• Enclosed on at least 3 sides;								
		 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	plement	ation	Maintenance	Implementation
Reference	Manual		Timing	Agent	Standard or		Schedule		Agency	Status
	Reference				Requirement	D	C	O		
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

ANALYICAL CHEMISTRY & TESTING SERVICES

2723 5660



: 1 of 5

CERTIFICATE OF ANALYSIS

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

Facsimile

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718174

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 17 Dec 2007

FACILITY

Order number : ---- Date of issue : 21 Dec 2007

C-O-C number : ---- No. of samples - Received : 78

+852 2610 2021

Site : --- - Analysed : 78

Report Comments

E-mail

Facsimile

This report for ALS Technichem (HK) Pty Ltd work order reference HK0718174 supersedes any previous reports with this reference. The completion date of analysis is 20 Dec 2007. 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 HK0718174: 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:-

Client : ERM HONG KONG

Work Order HK0718174



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER					Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 560693)								
HK0718174-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0		
HK0718174-011	MPB1 B ME	EA025: Suspended Solids (SS)		1	mg/L	11	12	13.4		
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 560694)								
HK0718174-021	IMO1 M ME	EA025: Suspended Solids (SS)		1	mg/L	7	8	13.8		
HK0718174-043	C2 (NM5) S ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0		
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 560695)								
HK0718174-053	MP B MF	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0		
HK0718174-063	MPB2 M MF	EA025: Suspended Solids (SS)		1	mg/L	11	13	14.7		
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 560696)						·		
HK0718174-073	IMO2 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0		
HK0718174-095	C1 (NM3) B MF	EA025: Suspended Solids (SS)		1	mg/L	18	17	0.0		

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 560693)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 560694)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 560695)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 560696)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718175

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 18 Dec 2007

FACILITY

Order number : ---- Date of issue : 21 Dec 2007

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 HK0718175 supersedes any previous reports with this reference. The completion date of analysis is 21 Dec 2007. 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 HK0718175: 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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Signatory Position Authorised results for:-

Client : ERM HONG KONG

Work Order HK0718175



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 561449)						
HK0718175-001	MPSME	EA025: Suspended Solids (SS)		1	mg/L	6	7	18.4
HK0718175-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 561450)						
HK0718175-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0
HK0718175-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 561451)						
HK0718175-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
HK0718175-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	4	0.0
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 561452)						·
HK0718175-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	18	18	0.0
HK0718175-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	9	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
•					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 561449)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 561450)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 561451)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 561452)		,	•							
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.0		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718376
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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 19 Dec 2007

FACILITY

Order number : ---- Date of issue : 24 Dec 2007

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 HK0718376 supersedes any previous reports with this reference. The completion date of analysis is 21 Dec 2007. 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 HK0718376 : 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

ALS Laboratory Group
Trading Name: ALS Technichem (HK) Pty Ltd

Client : ERM HONG KONG

Work Order HK0718376



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 561464)								
HK0718376-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	11	12	15.4		
HK0718376-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	7	8	16.4		
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 561465)								
HK0718376-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	7	8	0.0		
HK0718376-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0		
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 561466)								
HK0718376-058	MPB1 M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0		
HK0718376-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0		
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 561467)								
HK0718376-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0		
HK0718376-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0		

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 561464)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 561465)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 561466)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 561467)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718409

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 20 Dec 2007

FACILITY

Order number : ---- Date of issue : 24 Dec 2007

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 HK0718409 supersedes any previous reports with this reference. The completion date of analysis is 24 Dec 2007. 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 HK0718409: 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:-

Client : ERM HONG KONG

Work Order HK0718409



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56210	7)						
HK0718409-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
HK0718409-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56210	8)						
HK0718409-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0
HK0718409-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56210	9)						
HK0718409-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
HK0718409-068	IMO1 S DUP MF	EA025: Suspended Solids (SS)		1	mg/L	4	6	19.8
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56211	0)						·
HK0718409-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0718409-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 562107)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 562108)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 562109)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 562110)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

2723 5660



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718428
Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 21 Dec 2007

FACILITY

Order number : ---- Date of issue : 28 Dec 2007

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

Site : --- - Analysed : 74

+852 2610 2021

Report Comments

E-mail

Facsimile

This report for ALS Technichem (HK) Pty Ltd work order reference HK0718428 supersedes any previous reports with this reference. The completion date of analysis is 24 Dec 2007. 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 HK0718428: 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:-

Client : ERM HONG KONG

Work Order HK0718428



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56219	14)									
HK0718428-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	14	15	10.4			
HK0718428-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	24	22	6.2			
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56219	95)									
HK0718428-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	14	13	0.0			
HK0718428-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0			
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56219	(6)									
HK0718428-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	6	7	0.0			
HK0718428-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	5	0.0			
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56219	7)									
HK0718428-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0			
HK0718428-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	Os (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Propert	ties (QCLot: 562194)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115			
EA/ED: Physical and Aggregate Propert	ies (QCLot: 562195)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115			
EA/ED: Physical and Aggregate Propert	ies (QCLot: 562196)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			
EA/ED: Physical and Aggregate Propert	ies (QCLot: 562197)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115			

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

2723 5660



CERTIFICATE OF ANALYSIS

Client **ERM HONG KONG** : ALS Technichem (HK) Pty Ltd Laboratory Page : 1 of 4

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Facsimile Facsimile : EM&A FOR THE PERMANENT AVIATION FUEL · 22 Dec 2007 Project Quote number Date received

FACILITY

· 28 Dec 2007 Date of issue Order number

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

74 Site Analysed

+852 2610 2021

Report Comments

E-mail

This report for ALS Technichem (HK) Pty Ltd work order reference HK0718519 supersedes any previous reports with this reference. The completion date of analysis is 27 Dec 2007. 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 HK0718519: 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:-

Client : ERM HONG KONG

Work Order HK0718519



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56299	5)						
HK0718519-002	MP S DUP ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0718519-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56299	6)						
HK0718519-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0718519-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56299	7)						
HK0718519-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0
HK0718519-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56299	8)						
HK0718519-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
HK0718519-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	9s (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ies (QCLot: 562995)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.5		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 562996)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 562997)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 562998)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718587

Address : 21/F, LINCOLN HOUSE. Address : 11/F,. Chung Shun Knitting Centre.

: 21/F, LINCOLN HOUSE, Address : 11/F., Chung Shun Knitting Centre, 979 KING'S ROAD, TAIKOO PLACE, 1 - 3 Wing Yip Street,

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 23 Dec 2007

FACILITY

Order number · --- Date of issue · 28 Dec 2007

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 HK0718587 supersedes any previous reports with this reference. The completion date of analysis is 27 Dec 2007. 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 HK0718587: 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

ALS Laboratory Group Trading Name: ALS Technichem (HK) Pty Ltd

Client : ERM HONG KONG

Work Order HK0718587



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56300	14)						
HK0718587-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	12	12	0.0
HK0718587-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	9	16.5
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56300	95)						
HK0718587-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	12	13	0.0
HK0718587-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56300	16)						
HK0718587-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0
HK0718587-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56300	(8)						
HK0718587-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	10	9	0.0
HK0718587-100	C3 (NM6) M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	12	13	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 563004)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 563005)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 563006)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 563008)			·							
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718588
Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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E-mail : Karen.Lui@erm.com E-mail : Alice.Wong@alsenviro.com

Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 24 Dec 2007

FACILITY

Order number : ---- Date of issue : 31 Dec 2007

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 HK0718588 supersedes any previous reports with this reference. The completion date of analysis is 28 Dec 2007. 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 HK0718588: 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:-

Client : ERM HONG KONG

Work Order HK0718588



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 563410)									
HK0718588-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	32	31	3.8			
HK0718588-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	16	16	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 563411)									
HK0718588-022	IMO1 M DUP ME	EA025: Suspended Solids (SS)		1	mg/L	17	18	0.0			
HK0718588-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	14	13	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 563412)									
HK0718588-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	18	17	0.0			
HK0718588-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	16	15	8.1			
EA/ED: Physical and A	ggregate Properties (QC Lot:	: 563413)									
HK0718588-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	16	16	0.0			
HK0718588-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	11	12	0.0			

Matrix Type: WATER			Method Blank (MB) Results		Single Co	ntrol Spike (SCS) and D	uplicate Con	trol Spike (DCS	6) Results	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ies (QCLot: 563410)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 563411)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 563412)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 563413)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718589

Address : 21/F, LINCOLN HOUSE. Address : 11/F,, Chung Shun Knitting Centre.

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Telephone : 2271 3000 Telephone : +852 2610 1044
Facsimile : 2723 5660 Facsimile : +852 2610 2021

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 25 Dec 2007

FACILITY

Order number : ---- Date of issue : 2 Jan 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 HK0718589 supersedes any previous reports with this reference. The completion date of analysis is 31 Dec 2007. 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 HK0718589 : 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:-

Client : ERM HONG KONG

Work Order HK0718589



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	ggregate Properties (QC Lot:	563416)						
HK0718589-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	21	19	7.7
HK0718589-012	MPB1 B DUP ME	EA025: Suspended Solids (SS)		1	mg/L	24	27	12.6
EA/ED: Physical and A	ggregate Properties (QC Lot:	563417)						
HK0718589-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	17	15	11.1
HK0718589-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	10	12	12.6
EA/ED: Physical and A	ggregate Properties (QC Lot:	563418)						
HK0718589-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	19	18	0.0
HK0718589-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	18	19	0.0
EA/ED: Physical and A	ggregate Properties (QC Lot:	563419)		•				
HK0718589-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	17	16	0.0
HK0718589-100	C3 (NM6) M DUP MF	EA025: Suspended Solids (SS)		1	mg/L	11	11	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
• •					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL	Os (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	rties (QCLot: 563416)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	89.0		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 563417)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 563418)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 563419)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718590
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Telephone : 2271 3000 Telephone : +852 2610 1044
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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : --- Date received : 26 Dec 2007

FACILITY

Order number : ---- Date of issue : 2 Jan 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 HK0718590 supersedes any previous reports with this reference. The completion date of analysis is 2 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0718590 : 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:-

Client : ERM HONG KONG

Work Order HK0718590



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56342	1)						
HK0718590-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	24	25	0.0
HK0718590-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	17	16	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56342	2)						
HK0718590-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	14.0
HK0718590-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	12	12	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56342	3)						
HK0718590-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	22	23	4.8
HK0718590-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56342	4)						
HK0718590-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	15	15	0.0
HK0718590-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	11	11	0.0

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	Os (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Propert	ties (QCLot: 563421)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115			
EA/ED: Physical and Aggregate Propert	ties (QCLot: 563422)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115			
EA/ED: Physical and Aggregate Propert	ties (QCLot: 563423)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			
EA/ED: Physical and Aggregate Propert	ties (QCLot: 563424)										·	
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115			

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES

2723 5660



CERTIFICATE OF ANALYSIS

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

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718679

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Telephone : 2271 3000 Telephone : +852 2610 1044

Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 27 Dec 2007

FACILITY

Order number : ---- Date of issue : 2 Jan 2008

C-O-C number : ---- No. of samples - Received : 76

Site : --- - Analysed : 76

+852 2610 2021

Report Comments

E-mail

Facsimile

This report for ALS Technichem (HK) Pty Ltd work order reference HK0718679 supersedes any previous reports with this reference. The completion date of analysis is 2 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0718679 : 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

ALS Laboratory Group
Trading Name: ALS Technichem (HK) Pty Ltd

Client : ERM HONG KONG

Work Order HK0718679



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56458	35)						
HK0718679-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	12	14	19.7
HK0718679-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56458	36)						
HK0718679-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	22	21	0.0
HK0718679-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	15	15	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56458	37)						
HK0718679-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	19	18	0.0
HK0718679-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	12	12	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot: 56458	38)		·				
HK0718679-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	56	52	6.6
HK0718679-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	22	24	6.4

Matrix Type: WATER			Method Blank (MB	ank (MB) Results Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						S) Results	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	9s (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properti	ies (QCLot: 564585)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		
EA/ED: Physical and Aggregate Properti	ies (QCLot: 564586)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.0		85	115		
EA/ED: Physical and Aggregate Properti	ies (QCLot: 564587)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Properti	ies (QCLot: 564588)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client: ERM HONG KONG Laboratory: ALS Technichem (HK) Pty Ltd Page: 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718680
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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 28 Dec 2007

FACILITY

Order number : ---- Date of issue : 3 Jan 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 HK0718680 supersedes any previous reports with this reference. The completion date of analysis is 1 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0718680 : 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:-

Client : ERM HONG KONG

Work Order HK0718680



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results							
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 564594)									
HK0718680-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	11	10	0.0			
HK0718680-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	10	12	11.6			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 564595)									
HK0718680-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	14	15	8.2			
HK0718680-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	11	10	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 564596)									
HK0718680-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	16	15	0.0			
HK0718680-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	16	16	0.0			
EA/ED: Physical and A	ggregate Properties (QC Lo	t: 564597)									
HK0718680-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	30	32	6.8			
HK0718680-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	22	21	0.0			

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPL	Ds (%)
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Proper	ties (QCLot: 564594)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	95.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 564595)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 564596)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.0		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 564597)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	97.5		85	115		

ALS Laboratory Group

ANALYICAL 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 : Alice Wong Work Order : HK0718681

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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 29 Dec 2007

FACILITY

Order number : ---- Date of issue : 3 Jan 2008

C-O-C number : ---- No. of samples - Received : 76

Site : ---- - Analysed : 76

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0718681 supersedes any previous reports with this reference. The completion date of analysis is 3 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0718681 : 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:-

. 5015

Client : ERM HONG KONG

Work Order HK0718681



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and Ago	regate Properties (QC Lot: 56459	8)								
HK0718681-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	15	16	0.0		
HK0718681-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	14	15	9.3		
EA/ED: Physical and Ago	gregate Properties (QC Lot: 56459	9)								
HK0718681-024	IMO1 B DUP ME	EA025: Suspended Solids (SS)		1	mg/L	44	40	8.7		
HK0718681-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	9	8	11.5		
EA/ED: Physical and Ago	regate Properties (QC Lot: 56460	0)								
HK0718681-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	10	11	0.0		
HK0718681-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0		
EA/ED: Physical and Ago	gregate Properties (QC Lot: 56460	1)								
HK0718681-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0		
HK0718681-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	14	15	10.4		

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results							
				Spike Spike Re		Recovery (%)		overy Limits (%)		RPDs (%)		
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 564598)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115			
EA/ED: Physical and Aggregate Properties (QCLot: 564599)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85	115			
EA/ED: Physical and Aggregate Proper	rties (QCLot: 564600)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115			
EA/ED: Physical and Aggregate Properties (QCLot: 564601)												
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115			

ALS Laboratory Group

: EM&A FOR THE PERMANENT AVIATION FUEL

ANALYICAL CHEMISTRY & TESTING SERVICES



· 30 Dec 2007

Date received

CERTIFICATE OF ANALYSIS

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

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718776
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Quote number

FACILITY

Order number : ---- Date of issue : 7 Jan 2008

C-O-C number : ---- No. of samples - Received : 76

Site : ---- - Analysed : 76

Report Comments

Project

This report for ALS Technichem (HK) Pty Ltd work order reference HK0718776 supersedes any previous reports with this reference. The completion date of analysis is 3 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0718776 : 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

ALS Laboratory Group
Trading Name: ALS Technichem (HK) Pty Ltd

Client : ERM HONG KONG

Work Order HK0718776



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5646	02)								
HK0718776-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	34	34	0.0		
HK0718776-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	10	18.5		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5646	03)								
HK0718776-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	23	23	0.0		
HK0718776-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	9	10	11.2		
EA/ED: Physical and Ag	gregate Properties (QC Lot: 5646	04)								
HK0718776-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	13	13	0.0		
HK0718776-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	19	19	0.0		
EA/ED: Physical and Aggregate Properties (QC Lot: 564605)										
HK0718776-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	25	26	4.0		
HK0718776-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	16	14	6.8		

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
				Spike	Spike Spike Re		Recovery	Limits (%)	RPL	Os (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 564602)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 564603)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	rties (QCLot: 564604)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 564605)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG Laboratory : ALS Technichem (HK) Pty Ltd Page : 1 of 4

Contact : MS KAREN LUI Contact : Alice Wong Work Order : HK0718949
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Project : EM&A FOR THE PERMANENT AVIATION FUEL Quote number : ---- Date received : 31 Dec 2007

FACILITY

Order number ---- Date of issue --- 4 Jan 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 HK0718949 supersedes any previous reports with this reference. The completion date of analysis is 4 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0718949 : 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:-

Client : ERM HONG KONG

Work Order HK0718949



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER			Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Agg	regate Properties (QC Lot: 565639	9)							
HK0718949-001	MP S ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
HK0718949-013	MPB2 S ME	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
EA/ED: Physical and Agg	regate Properties (QC Lot: 565640	0)							
HK0718949-023	IMO1 B ME	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0	
HK0718949-045	C2 (NM5) M ME	EA025: Suspended Solids (SS)		1	mg/L	10	8	20.0	
EA/ED: Physical and Agg	regate Properties (QC Lot: 56564	1)							
HK0718949-057	MPB1 M MF	EA025: Suspended Solids (SS)		1	mg/L	5	6	20.0	
HK0718949-067	IMO1 S MF	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0	
EA/ED: Physical and Aggregate Properties (QC Lot: 565642)									
HK0718949-077	IMO2 B MF	EA025: Suspended Solids (SS)		1	mg/L	12	11	0.0	
HK0718949-099	C3 (NM6) M MF	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0	

Matrix Type: WATER	Matrix Type: WATER				Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 565639)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	90.5		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 565640)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Proper	ties (QCLot: 565641)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	107		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 565642)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

Annex G

Impact Water Quality Monitoring Results

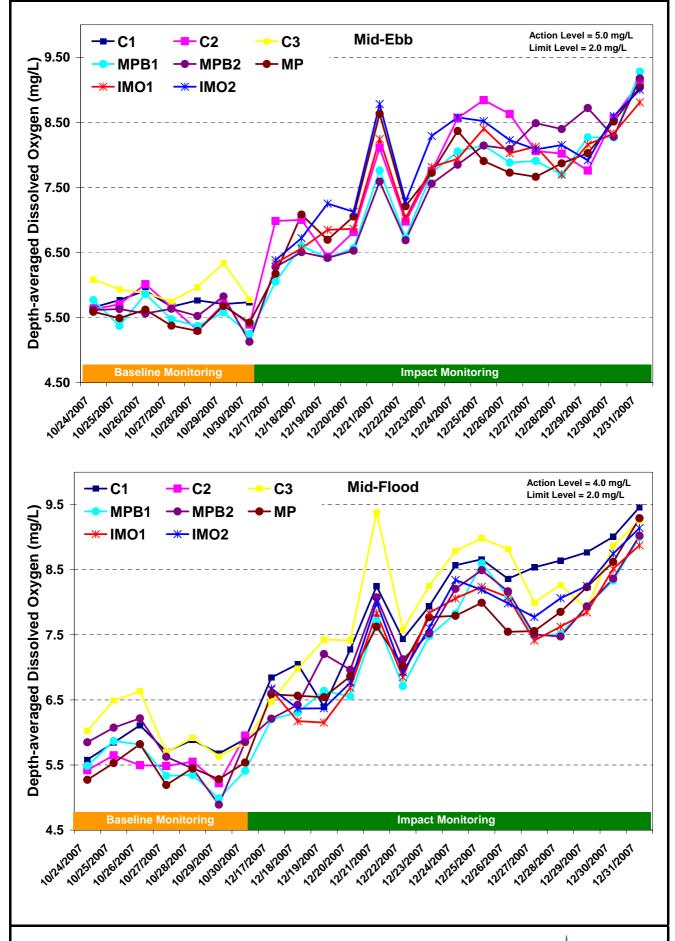


Figure G1 Dissolved oxygen concentration (depth-averaged) (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007



 $Ref: 0018105_Annex\ G_water\ graphs.doc$

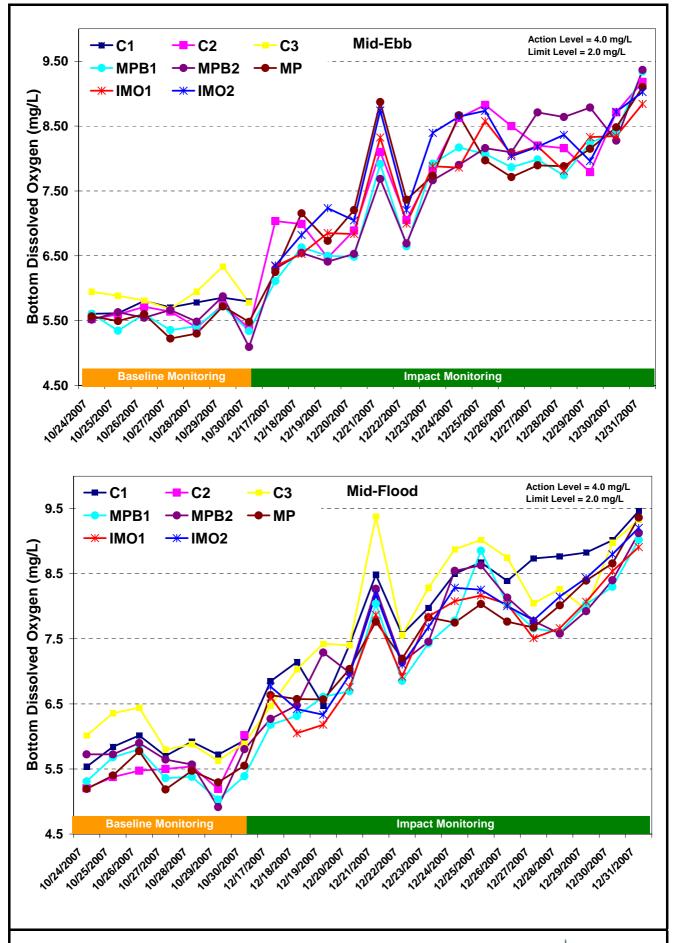


Figure G2 Dissolved oxygen concentration (bottom) (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007



Ref: 0018105_Annex G_water graphs.doc

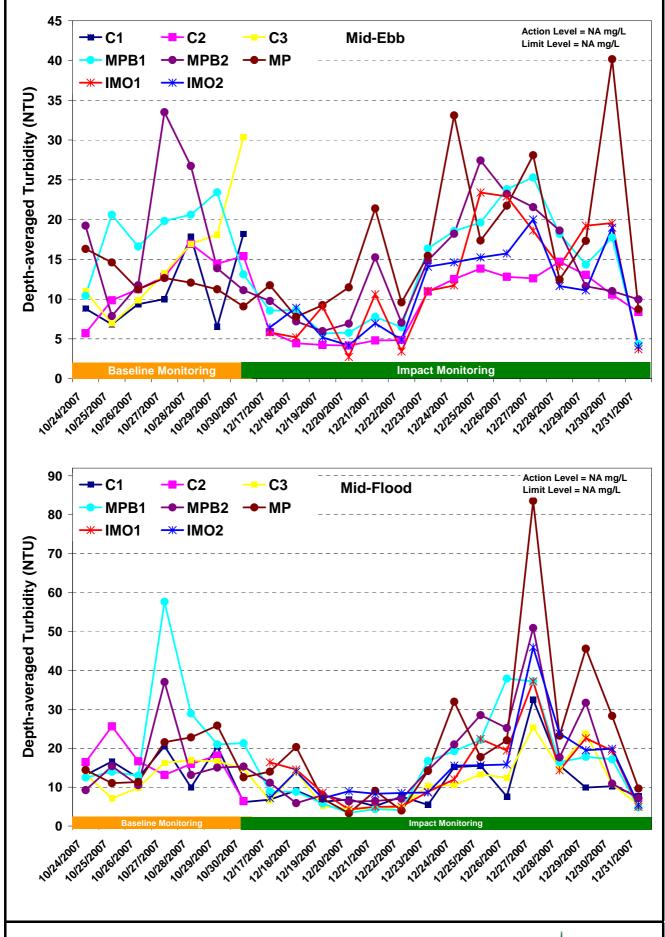


Figure G3 Depth-averaged turbidity (NTU) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007



 $Ref: 0018105_Annex\ G_water\ graphs.doc$

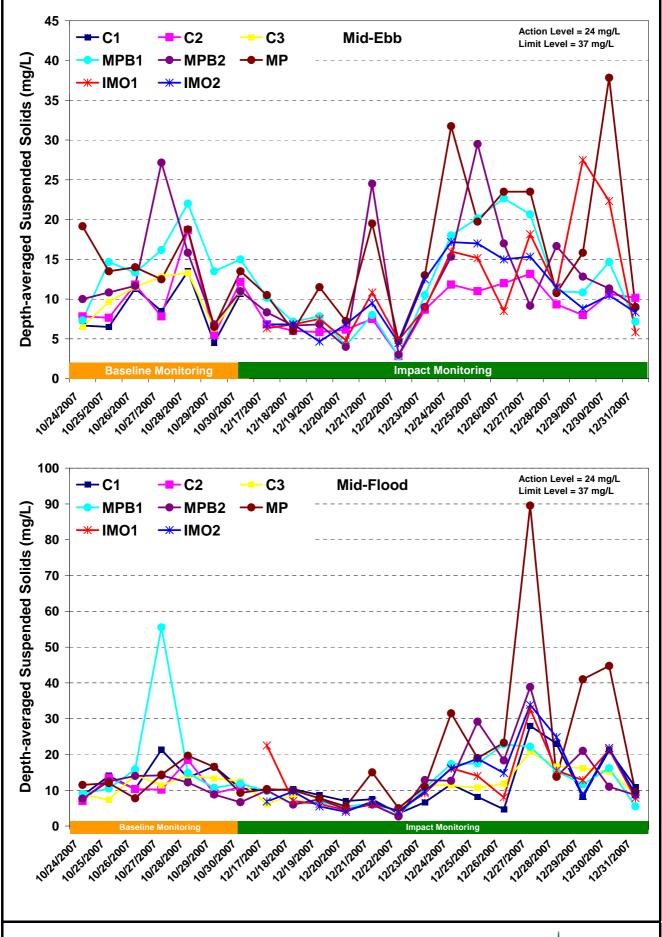


Figure G4 Depth-averaged suspended solids concentration (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007



 $Ref: 0018105_Annex\ G_water\ graphs.doc$

Sampling Date	12/17/07
Weather & Ambient Temperature	Cloudy, 24C

Station			C2 (NM5)			1	
Time (hh:mm)								
Water Depth (m)								
Monitoring Depth (m)	1.	00	10	.13	19	.27		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.2	21.7	21.7	21.8	21.1	20.8	21.37	ı
Salinity (ppt)	39.6	38.1	41.1	44.7	42.7	49.7	42.63	-
pH	7.8	7.9	8.0	8.0	8.0	8.0	7.94	
D.O. Saturation (%)	98.7	98.2	100.8	102.9	101.0	105.6	101.20	-
D.O. (mg/L)	7.0	6.9	7.0	7.0	7.0	7.1	6.98	7.04
Turbidity (NTU)	4.3	4.6	4.6	4.6	8.5	8.6	5.87	-
SS (mg/L)	7.0	7.0	6.0	7.0	6.0	8.0	6.83	1
Remarks		-			•	-	-	

Station			IM	01			Co-ord	dinates
Time (hh:mm)			18:14	-18:16			Northing	Easting
Water Depth (m)			22.21.527	113.54.636				
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.5	21.4	21.3	21.3	21.2	20.6	21.20	-
Salinity (ppt)	39.6	39.8	42.7	42.7	43.3	44.1	42.06	-
pH	7.9	8.0	8.0	8.0	8.0	8.0	8.01	
D.O. Saturation (%)	90.1	91.2	92.2	90.7	90.5	92.8	91.25	-
D.O. (mg/L)	6.3	6.4	6.4	6.3	6.2	6.44	6.34	6.34
Turbidity (NTU)	4.0	4.8	5.3	5.9	7.2	7.7	5.82	-
SS (mg/L)	6.0	4.0	7.0	7.0	8.0	6.0	6.33	-
Remarks								

Station			IM	02			Co-ord	dinates
Time (hh:mm)			18:06	-18:08			Northing	Easting
Water Depth (m)			10	.79			22.21.166	113.54.622
Monitoring Depth (m)	1.	00	5.	40	9.	79		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.5	21.5	21.4	21.4	21.2	21.2	21.36	-
Salinity (ppt)	39.7	39.5	42.1	42.0	43.4	43.0	41.61	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	91.2	90.9	92.7	92.6	93.4	90.7	91.92	-
D.O. (mg/L)	6.4	6.4	6.4	6.4	6.4	6.27	6.38	6.35
Turbidity (NTU)	4.3	4.2	5.3	5.8	9.4	9.7	6.45	-
SS (mg/L)	4.0 4.0 7.0 7.0 10.0 9.0						6.83	-
Remarks			•					

Mid-Ebb

Station			MF	PB1			1	
Time (hh:mm)			17:45	-17:47				
Water Depth (m)								
Monitoring Depth (m)	1.00		4.22		7.44			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.5	21.4	21.3	21.3	21.4	21.4	21.38	-
Salinity (ppt)	39.0	39.3	40.2	40.1	40.6	40.7	39.99	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.91	
D.O. Saturation (%)	85.2	85.7	86.5	85.8	86.0	89.0	86.37	-
D.O. (mg/L)	6.0	6.0	6.1	6.0	6.0	6.2	6.05	6.11
Turbidity (NTU)	6.8	7.0	9.2	8.6	9.8	9.9	8.55	-
SS (mg/L)	6.0	8.0	13.0	13.0	11.0	10.0	10.17	-
Remarks		•		•				

Station			MF	PB2				
Time (hh:mm)			17:54	-17:55				
Water Depth (m)								
Monitoring Depth (m)	1.00		4.60		8.19			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.5	21.5	21.3	20.8	21.2	21.2	21.24	-
Salinity (ppt)	38.7	38.8	40.2	41.0	42.1	41.8	40.43	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	87.3	87.6	90.4	90.8	92.4	89.1	89.60	-
D.O. (mg/L)	6.2	6.2	6.3	6.4	6.4	6.2	6.28	6.30
Turbidity (NTU)	6.3	7.4	10.2	11.1	12.3	11.3	9.77	-
SS (mg/L)	6.0	5.0	8.0	6.0	13.0	12.0	8.33	-
Remarks								

Station			1					
Time (hh:mm)								
Water Depth (m)								
Monitoring Depth (m)	1.	00	3.	17	5.	33		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.4	21.4	21.4	21.4	21.6	21.4	21.45	-
Salinity (ppt)	38.3	38.9	39.9	39.6	40.2	39.7	39.42	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.91	
D.O. Saturation (%)	86.7	87.5	87.6	87.0	91.0	87.8	87.93	-
D.O. (mg/L)	6.1	6.2	6.1	6.1	6.3	6.2	6.17	6.25
Turbidity (NTU)	8.8	8.0	10.6	12.6	15.8	14.7	11.75	-
SS (mg/L)	7.0	6.0	11.0	9.0	15.0	15.0	10.50	-
Remarks		•	•	•	•	•		

Compliance with Action and Limit Level

Compliance with Action and Limit Level														
Parameter	As in EM&A		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)	4.2	4.0	7.0	7.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.0	7.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	7.6	NA	N	NA	N	NA	Υ	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	8.9	8.9	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/17/07
Weather & Ambient Temperature	Sunny, 25C

Station			C1 (
Time (hh:mm)			13:05	-13:08				
Water Depth (m)			15	5.90				
Monitoring Depth (m)	1	.00	7.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.6	20.7	21.6	21.2	21.5	21.40	-
Salinity (ppt)	37.7	40.0	38.5	40.8	37.3	41.4	39.28	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	97.2	96.8	98.2	96.8	97.6	97.2	97.30	-
D.O. (mg/L)	6.8	6.8	7.0	6.7	7.0	6.7	6.84	6.85
Turbidity (NTU)	4.4	4.1	6.2	6.3	10.1	9.6	6.78	-
SS (mg/L)	4.0	7.0	8.0	8.0	18.0	15.0	10.00	-
Remarks		•		•				•

Station			C3 (NM6)				
Time (hh:mm)			14:34					
Water Depth (m)			6.					
Monitoring Depth (m)	1.	.00	3.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.6	21.8	20.8	21.3	21.7	21.52	-
Salinity (ppt)	41.2	40.6	43.0	42.7	43.5	45.3	42.72	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	93.3	92.7	94.5	94.0	93.5	96.4	94.07	-
D.O. (mg/L)	6.4	6.5	6.5	6.6	6.4	6.5	6.47	6.47
Turbidity (NTU)	5.0	4.6	6.4	6.0	8.8	8.6	6.57	-
SS (mg/L)	5.0	5.0	7.0	5.0	8.0	7.0	6.17	-
Remarks			•		•			

Station			IIV	101			Co-ordinate	s
Time (hh:mm)			13:28		Northing	Easting		
Water Depth (m)			16	22.21.628	113.54.589			
Monitoring Depth (m)	1.	.00	8.	.22				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.8	21.8	21.4	21.4	21.5	21.5	21.55	-
Salinity (ppt)	40.2	39.9	40.7	41.1	41.8	41.4	40.84	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	96.7	96.5	95.8	94.9	95.0	95.6	95.75	-
D.O. (mg/L)	6.7	6.7	6.7	6.6	6.6	6.6	6.66	6.61
Turbidity (NTU)	5.3	5.5	12.5	13.9	31.2	29.9	16.38	-
SS (mg/L)	4.0	4.0	18.0	18.0	57.0	34.0	22.50	-
Remarks								

Station			IM	02			Co-ordinate	s
Time (hh:mm)			13:38		Northing	Easting		
Water Depth (m)			11	22.21.269	113.54.681			
Monitoring Depth (m)	1.	.00	5.					
Trial	Trial 1	Trial 2	Trial 1	Depth-averaged	Bottom			
Water Temperature (°C)	21.8	21.9	21.6	21.7	21.5	21.1	21.58	-
Salinity (ppt)	40.3 40.1 40.3 40.4 40.5 41					41.3	40.48	-
pH	8.0	8.0 8.0 8.0 8.0 8.0					7.97	
D.O. Saturation (%)	95.5	95.4	95.0	95.5	95.0	98.7	95.85	-
D.O. (mg/L)	6.6	6.6	6.6	6.6	6.6	6.9	6.68	6.77
Turbidity (NTU)	5.6 5.4 7.0 6.2 10.1 9.0					9.0	7.22	-
SS (mg/L)	5.0	6.0	7.0	8.0	6.83	-		
Remarks		•	•	•				

Station			M	PB1				
Time (hh:mm)								
Water Depth (m)			8.	27				
Monitoring Depth (m)	1.	00	4.	13	7.	27		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.4	21.5	20.9	21.4	21.4	21.3	21.31	-
Salinity (ppt)	37.7	37.8	39.6	39.1	40.0	40.0	39.06	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88	
D.O. Saturation (%)	89.1	87.2	88.2	86.8	88.9	87.2	87.90	-
D.O. (mg/L)	6.3	6.2	6.2	6.1	6.2	6.1	6.20	6.18
Turbidity (NTU)	6.6	7.3	8.5	9.2	11.0	10.8	8.90	-
SS (mg/L)	6.0	8.0	10.0	12.0	11.0	12.0	9.83	-
Remarks					•			

Station			MF	PB2				
Time (hh:mm)								
Water Depth (m)			8.	24				
Monitoring Depth (m)	1.	00	4.	12	7.	24		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.3	21.3	21.3	21.2	21.38	-
Salinity (ppt)	38.4	38.3	39.9	40.0	40.3	40.2	39.52	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90	
D.O. Saturation (%)	88.9	87.3	88.1	87.1	91.1	87.7	88.37	-
D.O. (mg/L)	6.3	6.2	6.2	6.1	6.4	6.2	6.21	6.27
Turbidity (NTU)	7.1	8.2	11.1	10.7	15.1	14.5	11.12	-
SS (mg/L)	6.0	8.0	11.0	11.0	12.0	12.0	10.00	-
Remarks								

Station			N	IP				
Time (hh:mm)			13:57					
Water Depth (m)			6.	00				
Monitoring Depth (m)	1.	00	3.	00	5.	00		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.8	21.6	21.5	20.8	21.6	21.47	-
Salinity (ppt)	37.6	37.4	38.2	38.2	40.2	39.7	38.57	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88	
D.O. Saturation (%)	93.2	92.2	93.6	92.6	94.0	94.6	93.37	-
D.O. (mg/L)	6.6	6.5	6.6	6.6	6.7	6.6	6.59	6.64
Turbidity (NTU)	6.7	6.6	10.2	10.9	24.6	24.8	13.97	-
SS (mg/L)	8.0	9.0	7.0	8.0	10.0	20.0	10.33	-
Remarks								·

Parameter	As in	EM&A	Mean(C1+	C3)*130%	IMO1 IMO2				MPB1	MPB2		N	IP.	
	Action Level	Limit Level	Action Level	Limit Level	Exceedan ce of	Exceedan ce of Limit	Exceedance of Action Level		Exceedanc e of Action	Exceedance of Limit Level		Exceedan ce of Limit		Exceedan ce of Limit
					Action	Level		Level	Level		Action	Level	Action	Level
DO (Bottom)	4.2	4.0	6.7	6.7	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	6.7	6.7	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	8.7	NA	Y	NA	Ň	NA	Y	NA	Y	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	10.5	10.5	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/18/07
Weather & Ambient Temperature	Cloudy, 21C

Station								
Time (hh:mm)			18:22	-18:25				
Water Depth (m)			20	.33				
Monitoring Depth (m)	1.	00	10	.17	19	.33		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.8	21.7	21.8	21.9	21.7	21.7	21.78	-
Salinity (ppt)	38.3	38.3	40.7	40.6	42.1	41.3	40.20	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.92	
D.O. Saturation (%)	101.6	99.2	100.2	100.7	102.1	100.6	100.73	-
D.O. (mg/L)	7.2	7.0	6.9	7.0	7.0	7.0	7.00	6.99
Turbidity (NTU)	4.1	3.7	3.8	4.0	5.6	5.5	4.45	-
SS (mg/L)	4.0	6.0	6.0	6.00	-			
Remarks				•		•	•	

Station			IM	01			Co-ord	dinates
Time (hh:mm)			Northing	Easting				
Water Depth (m)			17	.05			22.21.627	113.54.582
Monitoring Depth (m)	1.	00	8.	53	16	.05		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.6	21.6	21.5	21.6	21.3	21.5	21.51	-
Salinity (ppt)	38.6	38.9	41.0	40.7	41.6	41.1	40.30	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	95.1	94.5	93.3	93.6	93.6	94.2	94.05	-
D.O. (mg/L)	6.7	6.6	6.5	6.5	6.5	6.55	6.56	6.53
Turbidity (NTU)	4.1	4.3	4.4	4.8	6.9	6.6	5.18	-
SS (mg/L)	6.0	6.0	6.0	7.0	7.0	9.0	6.83	-
Remarks								

Station			IM	02			Co-ord	dinates
Time (hh:mm)			18:13	-18:14			Northing	Easting
Water Depth (m)				22.21.165	113.54.662			
Monitoring Depth (m)	1.	00	5.	57	10	.14		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.7	21.7	21.5	21.7	21.7	21.5	21.62	-
Salinity (ppt)	38.4	38.7	39.2	38.7	39.4	40.1	39.07	-
pH	7.9	8.0	8.0	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	95.1	94.5	94.2	96.2	100.2	95.0	95.87	-
D.O. (mg/L)	6.7	6.6	6.6	6.8	7.0	6.63	6.72	6.82
Turbidity (NTU)	6.8	6.2	9.7	10.2	10.1	10.5	8.92	-
SS (mg/L)	5.0	7.0	6.83	-				
Remarks								

Station			MF	PB1			1	
Time (hh:mm)			18:51	-18:52				
Water Depth (m)			6.	63				
Monitoring Depth (m)	1.	00	3.	32	5.	63		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.6	21.6	21.5	21.6	21.57	-
Salinity (ppt)	38.4	38.3	38.6	38.9	39.0	38.4	38.58	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.93	
D.O. Saturation (%)	93.3	93.5	93.9	93.6	94.2	94.2	93.78	-
D.O. (mg/L)	6.6	6.6	6.6	6.6	6.6	6.6	6.60	6.63
Turbidity (NTU)	7.1	7.0	8.9	8.8	9.6	10.4	8.63	-
SS (mg/L)	6.0	6.0	10.0	7.17	-			
Remarks		-		-	•	-		

Station			MF	PB2				
Time (hh:mm)								
Water Depth (m)			9.	09				
Monitoring Depth (m)	1.	00	4.	55	8.	09		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.7	21.7	21.4	21.5	21.4	21.5	21.53	
Salinity (ppt)	38.5	38.6	40.2	40.1	40.5	40.7	39.76	-
pH	7.9	7.9	7.9	7.9	8.0	8.0	7.94	
D.O. Saturation (%)	92.1	94.0	91.2	92.6	91.4	96.3	92.93	-
D.O. (mg/L)	6.5	6.6	6.4	6.5	6.4	6.7	6.51	6.55
Turbidity (NTU)	4.2	3.8	8.6	8.3	9.3	9.0	7.20	-
SS (mg/L)	5.0	6.0	6.67	-				
Remarks								

Station			IV	IP				
Time (hh:mm)			18:41	-18:42				
Water Depth (m)								
Monitoring Depth (m)	1.	00	2.	91	4.	82		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.8	21.8	-	-	21.8	21.7	21.75	-
Salinity (ppt)	37.6	37.2	-	-	37.5	37.9	37.55	-
pH	7.9	7.9	-	-	7.9	7.9	7.90	
D.O. Saturation (%)	97.2	101.2	-	-	105.0	97.9	100.33	-
D.O. (mg/L)	6.9	7.2	-	-	7.4	6.9	7.08	7.16
Turbidity (NTU)	6.2	5.9	7.78	-				
SS (mg/L)	6.0	6.0	6.0	6.00	-			
Remarks								

Compliance with Action ar	ia Limit Lev	<u>/ei</u>												
Parameter	As in	EM&A	C2*1	30%	IMO1		IMO2		MPB1	MF	IPB2 MI		/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
					Level						Level		Level	
DO (Bottom)	4.2	4.0	7.0	7.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.0	7.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	5.8	NA	N	NA	Y	NA	Υ	NA	Υ	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	7.8	7.8	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/18/07
Weather & Ambient Temperature	Sunny, 23C

Station			C1 (NM3)				
Time (hh:mm)			13:06	-13:09				
Water Depth (m)			15	.99				
Monitoring Depth (m)	1.	.00	7.	.99	14	.99		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.0	22.1	21.9	21.8	21.7	20.8	21.68	-
Salinity (ppt)	39.5	39.0	40.6	39.9	40.1	40.5	39.93	-
pH	8.0	7.9	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	98.4	103.5	102.1	98.9	99.8	103.8	101.08	-
D.O. (mg/L)	6.9	7.2	7.1	6.9	7.0	7.3	7.05	7.15
Turbidity (NTU)	3.2	2.7	9.1	9.5	15.0	15.5	9.17	-
SS (mg/L)	4.0	5.0	10.0	14.0	13.0	16.0	10.33	-
Remarks								

Station			C3 (NM6)				
Time (hh:mm)			14:30					
Water Depth (m)			7.	.15				
Monitoring Depth (m)	1	.00	3.	.57	6.	.15		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.9	21.8	21.7	21.9	21.9	21.85	-
Salinity (ppt)	38.7	38.3	39.8	40.3	40.0	40.1	39.55	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01	
D.O. Saturation (%)	98.9	100.0	100.2	99.4	103.5	99.2	100.20	-
D.O. (mg/L)	6.9	7.0	7.0	6.9	7.2	6.9	6.98	7.03
Turbidity (NTU)	9.6	9.8	15.5	15.6	16.5	16.7	13.95	-
SS (mg/L)	5.0	6.0	8.0	13.0	8.83	-		
Remarks			•					

Station			IIV	101			Co-ordinate	s
Time (hh:mm)			13:26	-13:29			Northing	Easting
Water Depth (m)			16		22.21.632	11354.565		
Monitoring Depth (m)	1.	.00	8.	.16	15	i.31		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	22.0	21.4	20.9	21.8	21.8	21.60	-
Salinity (ppt)	38.3	38.0	40.6	41.3	41.1	41.3	40.10	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	88.8	89.7	88.8	88.5	87.4	87.5	88.45	-
D.O. (mg/L)	6.2	6.3	6.2	6.2	6.1	6.1	6.17	6.05
Turbidity (NTU)	4.2	4.1	9.1	10.8	28.9	30.1	14.53	-
SS (mg/L)	5.0	5.0	7.0	6.0	9.0	10.0	7.00	-
Remarks								

Station			IM	102			Co-ordinate	s
Time (hh:mm)			13:37	'-13:39			Northing	Easting
Water Depth (m)			10	22.21.164	113.54.649			
Monitoring Depth (m)	1.	.00	5.		•			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	22.1	21.6	21.5	21.1	21.6	21.63	-
Salinity (ppt)	38.9	38.5	39.0	39.4	39.5	39.3	39.09	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	90.9	91.5	90.1	89.7	92.0	90.5	90.78	-
D.O. (mg/L)	6.4	6.4	6.3	6.3	6.5	6.3	6.37	6.42
Turbidity (NTU)	6.4	6.5	14.8	13.3	20.9	22.0	13.98	-
SS (mg/L)	4.0	6.0	5.0	7.0	18.0	18.0	9.67	-
Remarks								

Station			MF	PB1				
Time (hh:mm)			14:03					
Water Depth (m)			8.	04				
Monitoring Depth (m)	1.	00	4.	02	7.	04		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.9	21.4	21.6	21.4	21.5	21.61	-
Salinity (ppt)	37.3	37.4	38.8	39.0	40.5	40.4	38.88	-
pH	7.9	7.9	7.9	7.9	8.0	8.0	7.91	
D.O. Saturation (%)	90.4	89.3	88.8	89.2	90.7	90.2	89.77	-
D.O. (mg/L)	6.4	6.3	6.3	6.3	6.3	6.3	6.31	6.32
Turbidity (NTU)	4.5	4.5	9.3	9.1	12.9	12.6	8.82	-
SS (mg/L)	7.0	5.0	5.0	7.0	6.17	-		
Remarks			-					

Station			MF	PB2				
Time (hh:mm)			14:13					
Water Depth (m)			8.	93				
Monitoring Depth (m)	1.	00	4.	46	7.	93		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.0	22.0	21.7	21.6	21.6	21.7	21.76	-
Salinity (ppt)	37.0	36.7	38.5	39.0	39.5	39.0	38.25	-
pH	7.9	7.9	7.9	7.9	8.0	8.0	7.93	
D.O. Saturation (%)	90.9	91.3	90.6	90.5	91.8	93.1	91.37	-
D.O. (mg/L)	6.4	6.5	6.4	6.4	6.4	6.5	6.43	6.48
Turbidity (NTU)	4.1	3.9	5.2	5.8	8.1	8.2	5.88	-
SS (mg/L)	6.0	5.0	8.0	6.00	-			
Remarks								

Station			N	IP				
Time (hh:mm)			13:53	-13:54				
Water Depth (m)								
Monitoring Depth (m)	1.	00	2.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.1	21.9	-	-	21.8	21.9	21.94	-
Salinity (ppt)	35.9	36.5	-	-	38.3	38.3	37.24	-
pH	7.8	7.8	-	-	7.9	8.0	7.89	
D.O. Saturation (%)	93.0	92.1	-	-	95.5	91.9	93.13	-
D.O. (mg/L)	6.6	6.5	-	-	6.7	6.4	6.57	6.58
Turbidity (NTU)	10.8	10.4	-	-	29.1	30.9	20.30	-
SS (mg/L)	8.0	6.0	-	-	14.0	12.0	10.00	-
Remarks								

Compliance with Action an	u =	-												
Parameter	As in	EM&A	Mean(C1-	-C3)*130%	IM	IMO1 IMO2				MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action Exceedar		Exceedanc	Exceedanc Exceedance of Limit Level I		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)	4.2	4.0	7.1	7.1	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.0	7.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	15.0	NA	N	NA	N	NA	N	NA	N	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	12.5	12.5	N	N	N	N	N	N	Ν	N	N	N

Sampling Date	12/19/07
Weather & Ambient Temperature	Cloudy, 19C

Station			C2 (NM5)			1	
Time (hh:mm)			8:03	-8:05				
Water Depth (m)			20	.65				
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.5	21.6	20.3	21.6	20.3	21.6	21.15	-
Salinity (ppt)	40.4	40.9	45.8	44.4	46.0	45.0	43.75	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	94.0	93.3	92.1	92.6	93.0	96.2	93.53	-
D.O. (mg/L)	6.6	6.5	6.4	6.3	6.4	6.5	6.44	6.47
Turbidity (NTU)	4.8	3.9	3.6	3.9	4.5	4.7	4.23	-
SS (mg/L)	6.0	5.0	7.0	7.0	6.0	4.0	5.83	-
Remarks		-		-		-	•	

Station			IM	01			Co-ore	dinates
Time (hh:mm)			7:42	-7:43			Northing	Easting
Water Depth (m)			22.21.528	113.54.492				
Monitoring Depth (m)	1.	00		•				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	22.4	22.4	21.9	22.4	21.7	21.9	22.11	-
Salinity (ppt)	36.5	36.3	40.6	39.8	41.4	41.6	39.37	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	98.7	98.7	97.2	98.3	98.7	100.0	98.60	-
D.O. (mg/L)	6.9	6.9	6.7	6.8	6.8	6.88	6.85	6.85
Turbidity (NTU)	6.5	6.1	8.6	8.7	12.4	12.0	9.05	-
SS (mg/L)	4.0	5.0	6.0	4.0	7.0	19.0	7.50	-
Remarks								

Station			IM	02			Co-ord	dinates
Time (hh:mm)			7:31	-7:32			Northing	Easting
Water Depth (m)				22.21.142	113.54.914			
Monitoring Depth (m)	1.	00	5.	53	10	.06		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.9	21.9	20.4	22.4	21.8	21.9	21.72	-
Salinity (ppt)	39.6	39.6	41.8	39.6	41.9	41.0	40.61	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	102.7	104.8	107.3	101.8	107.9	102.2	104.45	-
D.O. (mg/L)	7.2	7.3	7.6	7.0	7.4	7.05	7.25	7.24
Turbidity (NTU)	3.7	3.8	5.2	5.1	6.6	6.7	5.18	-
SS (mg/L)	5.0	3.0	5.0	5.0	6.0	4.0	4.67	-
Remarks								

Station			MF	PB1			1	
Time (hh:mm)			8:26	-8:27				
Water Depth (m)								
Monitoring Depth (m)	1.	00	3.	94	6.	87		
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	22.1	21.4	21.6	21.6	21.6	21.6	21.63	-
Salinity (ppt)	40.5	41.4	44.2	43.6	44.4	45.0	43.17	-
pH	7.9	7.9	8.0	8.0	8.0	7.9	7.95	
D.O. Saturation (%)	91.4	93.0	94.1	92.1	93.2	98.1	93.65	-
D.O. (mg/L)	6.3	6.5	6.4	6.3	6.3	6.7	6.41	6.50
Turbidity (NTU)	5.5	5.4	5.5	5.3	6.1	6.5	5.72	-
SS (mg/L)	7.0	10.0	7.83	-				
Remarks		-		-		•	-	

Station			MF	PB2				
Time (hh:mm)			8:33	-8:34				
Water Depth (m)								
Monitoring Depth (m)	1.	00	4.	43	7.	86		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	22.1	21.4	20.2	21.5	21.5	22.2	21.48	-
Salinity (ppt)	41.1	41.6	43.9	42.6	43.4	42.4	42.52	-
pH	8.0	7.9	7.9	8.0	7.9	8.0	7.94	
D.O. Saturation (%)	91.7	92.8	94.2	92.2	95.5	92.2	93.10	-
D.O. (mg/L)	6.3	6.4	6.6	6.4	6.5	6.3	6.42	6.41
Turbidity (NTU)	6.1	6.0	5.8	6.1	5.8	6.1	5.98	-
SS (mg/L)	7.0	6.0	8.0	6.83	-			
Remarks		•	•	•	•	•		

Station			IV	IP				
Time (hh:mm)			8:18	-8:19				
Water Depth (m)								
Monitoring Depth (m)	1.	00	2.	71	4.	42		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.4	21.4	-	-	21.5	21.4	21.41	-
Salinity (ppt)	41.7	41.3	-	-	42.4	43.3	42.18	-
pH	7.9	8.0	-	-	7.9	7.9	7.93	
D.O. Saturation (%)	97.5	94.1	-	-	95.1	100.5	96.80	-
D.O. (mg/L)	6.8	6.6	-	-	6.6	6.9	6.70	6.73
Turbidity (NTU)	9.4	9.6	-	-	9.0	9.0	9.25	-
SS (mg/L)	11.0	9.0	11.50	-				
Remarks		•		•	•	•		

Compliance with Action an	ia Limit Lev	<u>'ei</u>												
Parameter	As in	EM&A	C2*1	30%	IM	IMO1		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)	4.2	4.0	6.5	6.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	6.4	6.4	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	5.5	NA	Υ	NA	N	NA	Υ	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	7.6	7.6	N	N	N	N	N	N	N	N	Ν	N

Sampling Date	12/19/07
Weather & Ambient Temperature	Sunny, 19C

Station			C1 (NM3)				
Time (hh:mm)			14:01	-14:03				
Water Depth (m)								
Monitoring Depth (m)	1	.00	8.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.6	21.6	21.5	21.6	21.57	-
Salinity (ppt)	47.3	47.8	47.6	48.3	49.2	48.1	48.03	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01	
D.O. Saturation (%)	95.0	95.5	94.7	95.8	99.4	95.6	96.00	-
D.O. (mg/L)	6.4	6.4	6.3	6.4	6.6	6.4	6.40	6.48
Turbidity (NTU)	5.8	5.2	5.5	6.0	7.2	7.7	6.23	-
SS (mg/L)	11.0	8.0	10.0	8.0	9.0	6.0	8.67	-
Remarks								

Station			C3 (NM6)				
Time (hh:mm)			12:35					
Water Depth (m)			6.					
Monitoring Depth (m)	1.	.00	3.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.8	21.9	21.8	20.4	21.9	21.8	21.59	-
Salinity (ppt)	39.3	39.2	39.3	41.1	40.4	39.8	39.85	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.92	
D.O. Saturation (%)	106.7	103.1	104.9	109.2	108.0	105.9	106.30	-
D.O. (mg/L)	7.5	7.2	7.3	7.7	7.5	7.4	7.43	7.43
Turbidity (NTU)	4.8	4.5	5.0	5.4	5.7	5.4	5.13	-
SS (mg/L)	0.0	0.0	0.0	0.0	0.00	-		
Remarks			•					

Station			IM	01			Co-ordinate	s
Time (hh:mm)			13:28	-13:30			Northing	Easting
Water Depth (m)			16	22.21.627	113.54.592			
Monitoring Depth (m)	1.	00	8.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.3	21.8	21.8	22.4	22.2	21.6	21.86	-
Salinity (ppt)	44.9	44.5	45.7	46.0	47.3	47.3	45.94	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.02	
D.O. Saturation (%)	91.9	92.1	90.3	89.9	91.1	94.7	91.67	-
D.O. (mg/L)	6.3	6.2	6.1	6.0	6.0	6.3	6.15	6.18
Turbidity (NTU)	4.2	4.5	7.7	8.1	13.7	13.3	8.58	-
SS (mg/L)	5.0	4.0	6.0	6.0	9.0	7.0	6.17	-
Remarks								

Station			IM	02			Co-ordinate	s
Time (hh:mm)			13:37	-13:39			Northing	Easting
Water Depth (m)			10	22.21.163	113.54.646			
Monitoring Depth (m)	1.	.00	5.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.8	21.8	21.8	20.6	21.7	21.7	21.58	-
Salinity (ppt)	45.0	45.1	45.5	46.7	47.2	47.5	46.16	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	94.9	94.0	93.0	95.9	91.9	97.8	94.58	-
D.O. (mg/L)	6.4	6.3	6.3	6.5	6.1	6.5	6.37	6.34
Turbidity (NTU)	4.3	4.4	6.7	6.8	10.1	10.5	7.13	-
SS (mg/L)	5.0	4.0	8.0	4.0	5.50	-		
Remarks								

Station			MF	PB1				
Time (hh:mm)			13:03					
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.	08	7.	17		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	20.3	21.6	21.7	21.7	22.3	21.6	21.53	-
Salinity (ppt)	40.7	39.6	40.8	40.8	40.3	41.0	40.53	-
pH	7.9	7.9	7.9	8.0	8.0	7.9	7.95	
D.O. Saturation (%)	94.7	95.1	97.0	93.6	93.3	98.0	95.28	-
D.O. (mg/L)	6.7	6.7	6.7	6.5	6.4	6.8	6.64	6.61
Turbidity (NTU)	5.6	5.8	5.9	5.6	6.0	6.1	5.83	-
SS (mg/L)	8.0	6.0	7.0	6.0	7.0	6.0	6.67	-
Remarks			-					•

Station			MF	PB2					
Time (hh:mm)			12:53	-12:55					
Water Depth (m)	ater Depth (m) 8.70								
Monitoring Depth (m)	1.	00	4.						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.8	21.7	21.8	21.9	20.3	20.3	21.28	-	
Salinity (ppt)	37.1	37.4	38.0	37.8	42.6	42.7	39.26	-	
pH	7.9	7.9	7.9	7.9	8.0	8.0	7.95		
D.O. Saturation (%)	101.7	100.2	100.5	103.6	105.5	101.9	102.23	-	
D.O. (mg/L)	7.2	7.1	7.1	7.3	7.4	7.2	7.21	7.29	
Turbidity (NTU)	6.9	7.3	8.1	8.3	8.5	8.7	7.97	-	
SS (mg/L)	8.0	6.0	8.0	6.0	9.0	8.0	7.50	-	
Remarks									

Station			N	IP				
Time (hh:mm)			13:12	-13:13				
Water Depth (m)			5.					
Monitoring Depth (m)	1.	00	2.	81	4.	.62		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.3	20.3	-	-	21.7	21.7	21.47	-
Salinity (ppt)	40.3	42.3	-	-	42.5	42.5	41.88	-
pH	7.9	7.9	-	-	7.9	7.9	7.94	
D.O. Saturation (%)	93.7	93.2	-	-	93.0	98.2	94.53	-
D.O. (mg/L)	6.5	6.6	-	-	6.4	6.8	6.54	6.57
Turbidity (NTU)	6.8	6.7	-	-	7.3	7.4	7.05	-
SS (mg/L)	10.0	7.0	-	-	8.0	6.0	7.75	-
Remarks								

Sompliance with Action and Elinit Ecres															
Parameter	As in	EM&A	Mean(C1-	-C3)*130%	IM	01	IMO2	2		MPB1	MF	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance of Action Exceedance E		Exceedanc Exceedance of Limit Level		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)	4.2	4.0	7.0	7.0	N	N	N	N	N	N	N	N	N	N	
DO (Depth-averaged)	3.3	2.5	6.9	6.9	N	N	N	N	N	N	N	N	N	N	
Turbidity (Depth-averaged)	NA	NA	7.4	NA	Y	NA	N	NA	N	NA	Υ	NA	N	NA	
SS (Depth-averaged)	24.0	37.0	5.6	5.6	N	N	N	N	N	N	N	N	N	N	

Sampling Date	12/20/07
Weather & Ambient Temperature	Sunny, 23C

Station			C1 (NM3)				
Time (hh:mm)			14:41					
Water Depth (m)			16	6.36				
Monitoring Depth (m)	1.	.00	8.	.18	15	.36		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	20.5	21.8	22.2	22.3	20.2	21.48	-
Salinity (ppt)	42.1	43.2	42.2	42.3	42.0	44.4	42.68	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	103.9	106.8	104.6	103.9	107.7	107.4	105.72	-
D.O. (mg/L)	7.1	7.5	7.2	7.1	7.3	7.5	7.28	7.41
Turbidity (NTU)	4.2	4.4	8.1	7.8	8.5	8.3	6.88	-
SS (mg/L)	7.0	6.0	6.0	8.0	7.0	8.0	7.00	-
Remarks		•		•				

Station			C3 (NM6)				
Time (hh:mm)			13:20					
Water Depth (m)			6.					
Monitoring Depth (m)	1.	.00	3.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	20.3	21.6	21.6	21.6	21.5	21.41	-
Salinity (ppt)	41.7	41.8	41.4	42.3	42.4	43.3	42.15	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	106.6	109.1	106.3	106.2	106.8	108.5	107.25	-
D.O. (mg/L)	7.3	7.7	7.4	7.3	7.4	7.4	7.42	7.40
Turbidity (NTU)	3.9	3.8	4.3	4.6	4.6	5.0	4.37	-
SS (mg/L)	5.0	6.0	4.0	5.0	7.0	5.0	5.33	-
Remarks							•	·

Station			IM	101			Co-ordinate	s
Time (hh:mm)			14:08	-14:10			Northing	Easting
Water Depth (m)			16		22.21.627	113.54.582		
Monitoring Depth (m)	1.	.00	8.	5.59				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.0	22.0	21.7	21.7	21.6	20.2	21.55	-
Salinity (ppt)	43.5	43.0	45.3	44.1	44.7	48.3	44.80	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	98.9	98.4	97.7	96.9	98.0	100.8	98.45	-
D.O. (mg/L)	6.7	6.7	6.6	6.6	6.7	6.9	6.69	6.76
Turbidity (NTU)	2.6	2.8	3.5	4.1	6.3	6.4	4.28	-
SS (mg/L)	5.0	4.0	4.0	4.0	6.0	4.0	4.50	-
Remarks								

Station			IM	02			Co-ordinate	s
Time (hh:mm)			14:16	-14:18			Northing	Easting
Water Depth (m)			10	22.21.162	113.54.652			
Monitoring Depth (m)	1.	.00	5.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.0	22.0	21.7	22.2	21.7	21.7	21.88	-
Salinity (ppt)	41.6	41.8	42.6	42.3	43.2	43.0	42.40	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	97.9	96.1	99.4	96.3	104.5	98.6	98.80	-
D.O. (mg/L)	6.7	6.6	6.8	6.6	7.1	6.8	6.77	6.95
Turbidity (NTU)	5.9	5.8	10.3	10.1	10.9	10.7	8.95	-
SS (mg/L)	4.0 4.0 3.0 4.0 5.0 4.0						4.00	-
Remarks		•		•		•	•	

Station			MF	PB1				
Time (hh:mm)			13:44	-13:46				
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.8	20.4	21.7	21.6	21.7	21.6	21.47	-
Salinity (ppt)	42.3	44.9	45.0	43.4	46.3	44.0	44.30	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.93	
D.O. Saturation (%)	93.6	96.0	95.1	93.8	103.6	94.4	96.08	-
D.O. (mg/L)	6.4	6.7	6.5	6.4	7.0	6.4	6.55	6.70
Turbidity (NTU)	3.3	3.2	3.1	3.3	3.5	3.8	3.37	-
SS (mg/L)	5.0	6.0	6.0	7.0	4.0	5.0	5.50	-
Remarks			-					

Station			MF	PB2				
Time (hh:mm)			13:36	-13:37				
Water Depth (m)			9.					
Monitoring Depth (m)	1.	00	4.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.9	21.8	21.7	21.9	22.3	21.93	-
Salinity (ppt)	40.0	40.1	40.2	40.5	41.8	41.5	40.66	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.92	
D.O. Saturation (%)	99.3	100.6	102.5	98.3	100.0	103.6	100.72	-
D.O. (mg/L)	6.9	7.0	7.1	6.8	6.9	7.1	6.96	6.98
Turbidity (NTU)	4.6	4.7	6.9	6.6	7.6	7.6	6.33	-
SS (mg/L)	4.0	5.0	4.0	5.0	4.0	6.0	4.67	-
Remarks								

Station			N	IP				
Time (hh:mm)			13:52	-13:52				
Water Depth (m)			5.					
Monitoring Depth (m)	1.	00	2.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.7	21.8	-	-	20.4	21.7	21.42	-
Salinity (ppt)	42.6	42.6	-	-	45.1	43.9	43.56	-
pH	7.9	7.9	-	-	7.9	7.9	7.91	
D.O. Saturation (%)	96.2	99.0	-	-	107.0	97.8	100.00	-
D.O. (mg/L)	6.6	6.8	-	-	7.4	6.7	6.86	7.04
Turbidity (NTU)	3.6	3.3	-	-	3.1	3.2	3.30	-
SS (mg/L)	5.0	7.0	-	-	4.0	6.0	5.50	-
Remarks								

Parameter	As in	EM&A	Mean(C1-	n(C1+C3)*130% IMO1		101	IMO2			MPB1	MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level		Exceedan ce of Limit			Exceedanc e of Action	Exceedance of Limit Level		Exceedan ce of Limit		Exceedan ce of Limit
	Level	Level	Level	Level	Action	Level	Level	Level	Level		Action	Level	Action	Level
DO (Bottom)	4.2	4.0	7.4	7.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.3	7.3	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	7.3	NA	N	NA	Y	NA	N	NA	N	NA	N	NA
SS (Depth-averaged)	24.0	37.0	8.0	8.0	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/20/07
Weather & Ambient Temperature	Cloudy, 19C

Station			C2 (NM5)			1	
Time (hh:mm)			9:22	-9:23				
Water Depth (m)								
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	21.8	21.8	21.9	21.8	20.3	21.7	21.54	-
Salinity (ppt)	40.8	41.2	42.1	41.9	44.4	42.5	42.14	-
pН	8.0	8.0	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	98.4	99.2	98.3	97.3	100.9	98.5	98.77	-
D.O. (mg/L)	6.8	6.9	6.8	6.7	7.0	6.8	6.82	6.89
Turbidity (NTU)	3.2	3.6	4.4	4.0	4.8	4.9	4.15	-
SS (mg/L)	6.0	4.0	6.17	-				
Remarks			•				•	

Station			IM	01			Co-ord	dinates
Time (hh:mm)			9:03	-9:04			Northing	Easting
Water Depth (m)				22.21.634	113.54.598			
Monitoring Depth (m)	1.	00		-				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.8	21.7	22.3	21.7	22.3	21.7	21.90	-
Salinity (ppt)	40.0	39.9	41.1	41.5	42.0	42.3	41.15	-
pH	7.9	8.0	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	100.1	98.4	101.4	97.8	101.5	98.1	99.55	-
D.O. (mg/L)	7.0	6.9	7.0	6.8	6.9	6.74	6.87	6.84
Turbidity (NTU)	2.4	2.4	2.9	2.7	2.9	3.0	2.72	-
SS (mg/L)	6.0	3.0	5.0	5.0	5.0	5.0	4.83	-
Remarks								

Station			IM	02			Co-ord	dinates
Time (hh:mm)			8:54	-8:56			Northing	Easting
Water Depth (m)				22.21.170	113.54.673			
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	22.1	21.7	21.7	21.8	22.2	21.7	21.87	-
Salinity (ppt)	37.8	38.3	39.6	39.8	41.2	41.1	39.63	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	100.9	102.1	100.4	106.0	104.6	100.0	102.33	-
D.O. (mg/L)	7.1	7.2	7.0	7.4	7.2	6.92	7.13	7.05
Turbidity (NTU)	3.4	3.2	4.6	4.8	4.8	4.3	4.18	-
SS (mg/L)	9.0	6.0	7.0	5.0	8.0	6.0	6.83	-
Remarks		•	•	•	•	•	•	

Station			MF	PB1				
Time (hh:mm)			9:47	-9:48				
Water Depth (m)								
Monitoring Depth (m)	1.	00	4.	.03	7.	.05		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	19.9	19.9	21.5	21.5	21.6	21.6	20.98	-
Salinity (ppt)	42.6	43.2	42.5	41.9	45.2	44.2	43.27	-
pH	7.9	7.9	7.9	7.9	8.0	8.0	7.94	
D.O. Saturation (%)	94.5	95.3	95.3	93.0	97.1	93.8	94.83	-
D.O. (mg/L)	6.7	6.7	6.6	6.4	6.6	6.4	6.57	6.49
Turbidity (NTU)	4.6	4.6	6.2	5.9	6.7	6.6	5.77	-
SS (mg/L)	4.0	4.0	4.0	4.0	4.0	5.0	4.17	-
Remarks		-			•		-	

Station			MF	PB2				
Time (hh:mm)			9:55	-9:56				
Water Depth (m)								
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.5	21.5	21.5	20.1	21.6	21.5	21.26	-
Salinity (ppt)	41.7	42.3	43.0	43.7	43.0	44.5	43.02	-
pH	8.0	7.9	7.9	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	93.3	94.4	95.7	93.4	92.2	98.9	94.65	-
D.O. (mg/L)	6.5	6.5	6.6	6.6	6.3	6.7	6.53	6.53
Turbidity (NTU)	4.4	4.2	7.2	7.2	9.2	9.3	6.92	-
SS (mg/L)	4.0	3.0	4.0	4.00	-			
Remarks								

Station			N	/IP				
Time (hh:mm)			9:38	3-9:38				
Water Depth (m)								
Monitoring Depth (m)	1.	00	2	.79	4.	58		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.4	21.4	-	-	21.4	19.9	21.05	-
Salinity (ppt)	41.9	42.5	-	-	43.2	45.4	43.25	-
pH	7.9	7.9	-	-	7.9	7.9	7.91	
D.O. Saturation (%)	97.1	102.7	-	-	97.9	110.2	101.98	-
D.O. (mg/L)	6.7	7.1	-	-	6.7	7.7	7.05	7.21
Turbidity (NTU)	10.5	11.3	-	-	12.1	12.0	11.48	-
SS (mg/L)	8.0	6.0	-	-	7.0	8.0	7.25	-
Remarks				•			•	

Compliance with Action an	ia Limit Lev	<u>'ei</u>												
Parameter	As in	EM&A	C2*1	30%	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)	4.2	4.0	6.9	6.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	6.8	6.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	5.4	NA	N	NA	N	NA	Υ	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	8.0	8.0	N	N	N	N	N	N	N	N	Ν	N

Sampling Date	12/21/07
Weather & Ambient Temperature	Sunny, 23C

Station			C2 (NM5)			1	
Time (hh:mm)				1				
Water Depth (m)			20	.02				
Monitoring Depth (m)	1.	00	10	.01	19	.02		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	20.6	22.0	21.7	21.8	21.8	21.7	21.60	-
Salinity (ppt)	41.8	40.1	41.5	41.1	41.1	41.6	41.20	-
pH	8.0	7.9	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	116.7	116.5	116.3	117.8	118.8	115.9	117.00	-
D.O. (mg/L)	8.2	8.1	8.0	8.2	8.2	8.0	8.11	8.10
Turbidity (NTU)	3.9	4.0	5.0	5.0	5.5	5.4	4.80	-
SS (mg/L)	5.0	6.0	6.0	6.0	13.0	9.0	7.50	-
Remarks		-		-		-	•	

Station			IM	01			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			16	.74			22.21.641	113.54.584
Monitoring Depth (m)	1.	00	8.	37	15	.74		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.8	22.0	21.6	21.6	21.7	21.5	21.70	-
Salinity (ppt)	39.9	39.5	41.1	40.6	40.5	41.4	40.49	-
pH	8.0	8.0	8.1	8.1	8.0	8.1	8.03	
D.O. Saturation (%)	116.3	119.0	116.4	120.2	123.0	116.9	118.63	-
D.O. (mg/L)	8.1	8.3	8.1	8.4	8.6	8.10	8.24	8.33
Turbidity (NTU)	7.7	7.9	13.8	13.9	10.1	10.3	10.62	-
SS (mg/L)	8.0	8.0	10.83	-				
Remarks								

Station				Co-ord	dinates			
Time (hh:mm)				Northing	Easting			
Water Depth (m)			10	.55			22.21.162	113.54.671
Monitoring Depth (m)	1.	00	5.	28	9.	55		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.9	21.9	21.8	21.9	21.9	21.9	21.86	-
Salinity (ppt)	40.7	40.1	40.8	42.1	44.4	41.1	41.53	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	127.4	126.6	127.0	128.2	129.7	126.2	127.52	-
D.O. (mg/L)	8.8	8.8	8.8	8.8	8.8	8.71	8.78	8.74
Turbidity (NTU)	6.6	6.7	7.0	7.5	6.8	7.1	6.95	-
SS (mg/L)	8.0	9.0	9.50	-				
Remarks								

Station			MF	PB1			1	
Time (hh:mm)								
Water Depth (m)			8.	35				
Monitoring Depth (m)	1.	00	4.	18	7.	35		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	22.0	22.1	21.9	22.5	21.9	20.4	21.78	-
Salinity (ppt)	41.8	41.0	41.8	40.6	42.4	44.7	42.05	-
pH	7.9	7.9	7.9	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	111.1	112.3	111.3	112.8	115.7	114.0	112.87	-
D.O. (mg/L)	7.6	7.7	7.7	7.7	7.9	7.9	7.76	7.92
Turbidity (NTU)	6.3	6.1	7.7	7.5	9.8	9.2	7.77	-
SS (mg/L)	7.0	6.0	9.0	8.00	-			
Remarks				-		-	-	

Station			MF	PB2				
Time (hh:mm)								
Water Depth (m)			8.	89				
Monitoring Depth (m)	1.	00	4.	45	7.	89		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	22.0	22.5	21.9	21.8	21.9	22.5	22.09	-
Salinity (ppt)	41.1	40.8	41.6	41.3	42.3	41.8	41.51	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.94	
D.O. Saturation (%)	110.5	108.0	109.4	110.9	115.3	109.9	110.67	-
D.O. (mg/L)	7.6	7.4	7.5	7.7	7.9	7.5	7.59	7.69
Turbidity (NTU)	16.0	15.7	14.5	14.1	15.9	15.3	15.25	-
SS (mg/L)	24.0	29.0	26.0	24.50	-			
Remarks								

Station			IV	IP				
Time (hh:mm)								
Water Depth (m)								
Monitoring Depth (m)	1.	00	2.	81	4.	61		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	20.6	22.7	-	-	22.6	20.5	21.59	-
Salinity (ppt)	41.2	38.6	-	-	38.0	41.1	39.75	-
pH	7.9	7.9	-	-	7.9	7.9	7.93	
D.O. Saturation (%)	118.7	121.9	-	-	133.4	119.9	123.48	-
D.O. (mg/L)	8.4	8.4	-	-	9.3	8.5	8.63	8.87
Turbidity (NTU)	19.0	18.9	-	-	23.9	23.8	21.40	-
SS (mg/L)	14.0	13.0	19.50	-				
Remarks		•	•	•	•	•		

Compliance with Action an	ia 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)	4.2	4.0	8.1	8.1	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.1	8.1	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	6.2	NA	Υ	NA	Υ	NA	Y	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	9.8	9.8	N	N	N	N	N	N	Υ	N	N	N

Sampling Date	12/21/07
Weather & Ambient Temperature	Sunny, 26C

Station			C1 (NM3)				
Time (hh:mm)			15:41					
Water Depth (m)			15	i.98				
Monitoring Depth (m)	1.	00	7.	.99	14	.98		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.3	22.3	22.0	22.1	22.0	21.8	22.06	-
Salinity (ppt)	41.7	42.6	42.7	41.7	41.6	42.4	42.14	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	120.4	119.0	117.7	119.4	127.1	120.1	120.62	-
D.O. (mg/L)	8.2	8.1	8.0	8.2	8.7	8.2	8.25	8.49
Turbidity (NTU)	2.9	2.7	5.0	4.9	7.3	7.9	5.12	-
SS (mg/L)	5.0	6.0	6.0	7.0	11.0	10.0	7.50	-
Remarks						•		

Station			C3 (
Time (hh:mm)			14:01					
Water Depth (m)			6.	.48				
Monitoring Depth (m)	1.	.00	3.	.24	5.	48		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.0	22.4	22.2	22.7	21.8	21.9	22.01	-
Salinity (ppt)	40.6	38.4	38.6	39.6	40.2	38.6	39.32	-
pH	8.0	8.0	8.1	8.1	8.1	8.1	8.05	
D.O. Saturation (%)	134.4	135.4	136.8	133.4	131.9	137.1	134.83	-
D.O. (mg/L)	9.5	9.4	9.5	9.2	9.2	9.6	9.38	9.38
Turbidity (NTU)	3.9	4.0	4.1	4.5	4.2	4.5	4.20	-
SS (mg/L)	6.0	6.0	7.0	8.0	6.0	6.0	6.50	-
Remarks							•	·

Station			IM	101			Co-ordinate	s
Time (hh:mm)			15:09	-15:11			Northing	Easting
Water Depth (m)			16		22.21.611	113.54.537		
Monitoring Depth (m)	1.	00	8.	.02		•		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.2	22.2	21.8	21.8	21.7	21.8	21.93	-
Salinity (ppt)	41.3	41.6	42.4	41.9	42.8	42.3	42.05	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	115.2	113.6	112.9	114.4	112.9	116.6	114.27	-
D.O. (mg/L)	7.9	7.8	7.7	7.9	7.7	8.0	7.84	7.87
Turbidity (NTU)	3.4	3.5	5.1	4.6	6.9	6.2	4.95	-
SS (mg/L)	4.0	6.0	6.0	6.0	8.0	7.0	6.17	-
Remarks								

Station			IM	02			Co-ordinate	s
Time (hh:mm)			15:19	-15:20			Northing	Easting
Water Depth (m)			11	22.21.198	113.54.663			
Monitoring Depth (m)	1.	00	5.	53				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.6	23.2	22.3	22.2	21.7	21.9	22.30	-
Salinity (ppt)	40.4	40.2	40.5	41.0	42.0	41.7	40.96	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	115.8	114.7	116.3	115.2	116.8	121.1	116.65	-
D.O. (mg/L)	7.9	7.8	8.0	7.9	8.0	8.3	8.00	8.19
Turbidity (NTU)	4.3	4.8	6.4	6.9	13.7	13.8	8.32	-
SS (mg/L)	8.0	6.0	6.0	7.0	8.0	6.0	6.83	-
Remarks			•	•	•	•		

Station			MF	PB1				
Time (hh:mm)			14:28					
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.	11	7.	23		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.3	22.1	22.0	21.9	20.8	22.0	21.84	-
Salinity (ppt)	40.0	40.7	40.3	40.9	41.2	41.2	40.71	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90	
D.O. Saturation (%)	109.6	108.2	111.2	108.9	121.2	109.6	111.45	-
D.O. (mg/L)	7.6	7.5	7.7	7.5	8.5	7.6	7.72	8.04
Turbidity (NTU)	3.9	4.3	4.7	4.2	4.8	4.5	4.40	-
SS (mg/L)	8.0	6.0	6.0	5.0	6.0	6.0	6.17	-
Remarks					•			

Station			MF	PB2				
Time (hh:mm)			14:19	-14:21				
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.	44	7.	89		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.5	22.5	22.3	22.2	22.0	21.9	22.22	-
Salinity (ppt)	39.3	39.8	39.2	40.0	40.7	40.9	39.96	-
pH	7.9	7.9	7.9	7.9	8.0	7.9	7.92	
D.O. Saturation (%)	116.7	114.8	116.5	114.0	123.2	116.4	116.93	-
D.O. (mg/L)	8.1	7.9	8.1	7.9	8.5	8.0	8.08	8.27
Turbidity (NTU)	4.3	4.0	5.3	4.8	10.1	10.2	6.45	-
SS (mg/L)	5.0	5.0	6.0	5.0	7.0	8.0	6.00	-
Remarks								

Station			N	IP				
Time (hh:mm)			14:54	-14:54				
Water Depth (m)			5.					
Monitoring Depth (m)	1.	00	2.	85	4.	71		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.0	22.4	-	-	22.1	21.9	21.86	-
Salinity (ppt)	43.4	42.2	-	-	45.1	43.9	43.65	-
pH	7.9	7.9	-	-	7.8	7.9	7.85	
D.O. Saturation (%)	107.7	110.6	-	-	121.1	109.1	112.13	-
D.O. (mg/L)	7.5	7.5	-	-	8.1	7.4	7.63	7.77
Turbidity (NTU)	8.8	8.7	-	-	9.4	9.3	9.05	-
SS (mg/L)	6.0	7.0	-	-	24.0	23.0	15.00	-
Remarks								

Compilation with Addition and	Impliance with Action and Elimit Ecver													
Parameter	As in	EM&A	Mean(C1+	·C2)*130%	IM	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)	4.2	4.0	8.9	8.9	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.8	8.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	6.1	NA	N	NA	Υ	NA	N	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	9.1	9.1	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/22/07
Weather & Ambient Temperature	Cloudy, 23C

Station			C2 (NM5)			1	
Time (hh:mm)				1				
Water Depth (m)			20	.30				
Monitoring Depth (m)	1.	00	10	.15	19	.30		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.4	21.4	21.4	21.4	19.9	21.3	21.13	-
Salinity (ppt)	40.5	40.8	41.7	41.5	44.0	42.1	41.78	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	101.7	102.5	101.6	100.6	104.2	101.8	102.07	-
D.O. (mg/L)	7.0	7.0	6.9	6.9	7.2	6.9	6.98	7.05
Turbidity (NTU)	3.9	4.3	5.1	4.7	5.5	5.6	4.85	-
SS (mg/L)	3.0	3.0	3.0	3.0	2.0	3.0	2.83	-
Remarks			•					· · · · · · · · · · · · · · · · · · ·

Station			IM	101		-	Co-ore	dinates
Time (hh:mm)			11:04	-11:06			Northing	Easting
Water Depth (m)			16	.45			22.21.638	113.54.598
Monitoring Depth (m)	1.	00	8.	.23	15	.45		-
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.4	21.3	21.2	21.9	21.8	21.3	21.49	-
Salinity (ppt)	39.7	39.6	41.2	40.7	41.7	42.0	40.79	-
pH	7.9	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	103.4	101.7	101.1	104.7	104.8	101.4	102.85	-
D.O. (mg/L)	7.1	7.0	6.9	7.1	7.1	6.90	7.03	7.00
Turbidity (NTU)	3.1	3.1	3.4	3.6	3.6	3.7	3.42	-
SS (mg/L)	4.0	6.0	4.0	5.0	5.0	5.0	4.83	-
Remarks								

Station			IM	02			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			10	.27			22.21.160	113.54.682
Monitoring Depth (m)	1.	00	5.	13	9.	27		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.3	21.7	21.4	21.3	21.3	21.8	21.46	-
Salinity (ppt)	37.9	37.4	39.5	39.2	40.7	40.9	39.27	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	105.4	104.2	109.3	103.7	103.3	107.9	105.63	-
D.O. (mg/L)	7.4	7.2	7.5	7.2	7.1	7.33	7.29	7.21
Turbidity (NTU)	3.9	4.1	5.5	5.3	5.0	5.5	4.88	-
SS (mg/L)	5.0	5.0	4.0	4.0	5.0	4.0	4.50	-
Remarks								

Station			MF	PB1			1	
Time (hh:mm)								
Water Depth (m)			8.	27				
Monitoring Depth (m)	1.	00	4.	14	7.	27		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	19.5	19.5	21.1	21.0	21.2	21.2	20.57	-
Salinity (ppt)	42.8	42.3	42.1	41.5	43.9	44.9	42.91	-
pH	7.9	8.0	8.0	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	98.6	97.8	98.6	96.3	97.1	100.4	98.13	-
D.O. (mg/L)	6.9	6.9	6.7	6.6	6.6	6.7	6.73	6.65
Turbidity (NTU)	5.3	5.3	6.9	6.6	7.3	7.4	6.47	-
SS (mg/L)	3.0	3.0	3.0	2.0	3.0	3.0	2.83	ı
Remarks			•		•		•	

Station			MF	B2				
Time (hh:mm)								
Water Depth (m)			8.	79				
Monitoring Depth (m)	1.	1.00 4.40 7.79						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.1	21.0	21.1	19.7	21.2	21.1	20.85	-
Salinity (ppt)	41.3	42.0	42.6	43.4	42.6	44.1	42.66	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	96.6	97.7	99.0	96.7	95.5	102.2	97.95	-
D.O. (mg/L)	6.6	6.7	6.7	6.7	6.5	6.9	6.69	6.69
Turbidity (NTU)	5.1	4.9	7.9	7.9	8.3	8.1	7.03	-
SS (mg/L)	3.0	3.0	3.0	3.0	3.0	3.0	3.00	-
Remarks								

Station			N	IP			1	
Time (hh:mm)								
Water Depth (m)			5.	47				
Monitoring Depth (m)	1.	00	2.	74	4.	47		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.0	21.0	-	-	19.5	21.0	20.64	-
Salinity (ppt)	41.6	42.1	-	-	45.0	42.8	42.89	-
pH	7.9	7.9	-	-	7.9	7.9	7.92	
D.O. Saturation (%)	100.4	106.0	-	-	113.5	101.2	105.28	-
D.O. (mg/L)	6.9	7.2	-	-	7.8	6.9	7.21	7.37
Turbidity (NTU)	8.2	8.7	-	-	10.7	10.8	9.60	-
SS (mg/L)	5.0	5.0	-	-	4.0	5.0	4.75	-
Remarks								

Compliance with Action an	ia Limit Lev	<u>'ei</u>												
Parameter	As in	EM&A	C2*130%		IM	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)	4.2	4.0	7.1	7.1	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.0	7.0	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	6.3	NA	N	NA	N	NA	Y	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	3.7	3.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/22/07
Weather & Ambient Temperature	Sunny, 25C

Station			C1 (NM3)				
Time (hh:mm)			16:12	-16:13				
Water Depth (m)			16					
Monitoring Depth (m)	1.	.00	8.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	20.1	21.5	21.4	21.8	19.8	21.9	21.07	-
Salinity (ppt)	42.9	41.7	41.8	41.9	44.0	41.6	42.32	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	110.1	107.2	107.9	107.2	110.7	111.0	109.02	-
D.O. (mg/L)	7.6	7.3	7.3	7.2	7.6	7.5	7.44	7.57
Turbidity (NTU)	5.1	4.9	8.8	8.5	9.0	9.2	7.58	-
SS (mg/L)	3.0	3.0	4.0	3.0	3.0	5.0	3.50	-
Remarks								

Station			C3 (NM6)				
Time (hh:mm)			14:51	-14:52				
Water Depth (m)			6.					
Monitoring Depth (m)	1.	.00	3.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.4	19.8	21.2	21.2	21.1	21.1	21.00	-
Salinity (ppt)	41.4 41.4		42.0	41.0	42.9	42.0	41.79	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01	
D.O. Saturation (%)	109.9	112.4	109.5	109.6	111.8	110.1	110.55	-
D.O. (mg/L)	7.5	7.9	7.5	7.5	7.6	7.5	7.58	7.56
Turbidity (NTU)	4.6	4.5	5.3	5.0	5.7	5.3	5.07	-
SS (mg/L)	4.0	6.0	3.0	3.0	4.0	4.0	4.00	-
Remarks			•					

Station			IM	101			Co-ordinate	s
Time (hh:mm)			15:39	-15:40			Northing	Easting
Water Depth (m)			16	6.06			22.21.641	113.54.586
Monitoring Depth (m)	1.	.00	8.	.03	15	5.06		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.3	21.3	19.8	21.2	21.14	-
Salinity (ppt)	43.1	42.6	43.7	44.9	48.0	44.4	44.44	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	102.2	101.7	100.2	101.0	104.1	101.3	101.75	-
D.O. (mg/L)	6.9	6.9	6.8	6.8	7.0	6.8	6.85	6.92
Turbidity (NTU)	3.3	3.5	4.8	4.2	7.1	7.0	4.98	-
SS (mg/L)	4.0	4.0	4.0	6.0	4.0	4.0	4.33	-
Remarks								

Station			IM	102			Co-ordinate	s
Time (hh:mm)			15:47	'-15:48			Northing	Easting
Water Depth (m)			10	.85			22.21.172	113.54.689
Monitoring Depth (m)	1.	1.00 5.42 9.85						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.8	21.3	21.3	21.3	21.47	-
Salinity (ppt)	41.4	41.2	41.9	42.2	42.9	42.6	42.04	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.99	
D.O. Saturation (%)	99.4	101.2	99.6	102.7	107.8	101.9	102.10	-
D.O. (mg/L)	6.8	6.9	6.7	7.0	7.3	6.9	6.93	7.11
Turbidity (NTU)	6.5	6.6	9.8	9.1	9.6	9.4	8.50	-
SS (mg/L)	4.0 4.0 4.0 4.0 4.0 4.0		4.0	4.00	-			
Remarks		•	•					

Station			M	PB1				
Time (hh:mm)			15:15	-15:16				
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.	25				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	20.0	21.4	21.2	21.2	21.2	21.2	21.06	-
Salinity (ppt)	44.5	42.0	43.1	44.6	45.9	43.6	43.94	-
pH	7.9	7.9	8.0	7.9	7.9	8.0	7.94	
D.O. Saturation (%)	99.3	96.9	97.1	98.4	106.9	97.7	99.38	-
D.O. (mg/L)	6.8	6.6	6.6	6.6	7.1	6.6	6.71	6.86
Turbidity (NTU)	3.9	4.0	4.0	3.8	4.2	4.5	4.07	-
SS (mg/L)	3.0	3.0	4.0	3.0	2.0	2.0	2.83	-
Remarks			-					

Station			MF	PB2				
Time (hh:mm)			15:07	-15:08				
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.	38	7.	75		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.5	21.5	21.3	21.4	21.4	21.9	21.52	-
Salinity (ppt)	39.6	39.7	40.2	39.8	41.4	41.1	40.30	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.93	
D.O. Saturation (%)	102.6	103.9	101.6	105.8	103.3	106.9	104.02	-
D.O. (mg/L)	7.1	7.1	7.0	7.3	7.0	7.2	7.12	7.14
Turbidity (NTU)	5.3	5.4	7.3	7.6	8.3	8.3	7.03	-
SS (mg/L)	3.0	3.0	3.0	2.67	-			
Remarks								

Station			N	IP				
Time (hh:mm)			15:23	-15:23				
Water Depth (m)			5.					
Monitoring Depth (m)	1.	00	2.	89	4.	78		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.3	21.4	-	-	20.0	21.3	21.01	-
Salinity (ppt)	42.2	42.3	-	-	44.8	43.6	43.20	-
pH	7.9	7.9	-	-	7.9	7.9	7.92	
D.O. Saturation (%)	99.5	102.3	-	-	110.3	101.1	103.30	-
D.O. (mg/L)	6.8	6.9	-	-	7.6	6.8	7.02	7.20
Turbidity (NTU)	4.3	4.0	-	-	3.8	3.9	4.00	-
SS (mg/L)	5.0	5.0	-	5.00	-			
Remarks								

Sompliance with Action and Elimit Ecres														
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	01	IMO2			MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	Exceedanc Exceedance of Limit Level		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)	4.2	4.0	7.6	7.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.5	7.5	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	8.2	NA	N	NA	Υ	NA	N	NA	N	NA	N	NA
SS (Depth-averaged)	24.0	37.0	4.9	4.9	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/23/07
Weather & Ambient Temperature	Cloudy, 20C

Station			C2 (NM5)			1	
Time (hh:mm)								
Water Depth (m)								
Monitoring Depth (m)	1.	00	9.	95	18	.90		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.9	21.9	22.0	21.9	22.0	21.9	21.93	-
Salinity (ppt)	37.4	37.7	38.6	39.4	39.2	40.1	38.73	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	107.7	109.2	112.8	110.4	115.1	110.3	110.92	-
D.O. (mg/L)	7.6	7.7	7.9	7.7	8.0	7.7	7.75	7.84
Turbidity (NTU)	9.3	10.3	11.0	11.4	11.8	11.9	10.95	-
SS (mg/L)	10.0	10.0	8.67	-				
Remarks		•		-		-	•	

a:							Co-ordinates		
Station			IIV	01			Co-ore	dinates	
Time (hh:mm)			12:12	-12:15			Northing	Easting	
Water Depth (m)			22.21.630	113.54.593					
Monitoring Depth (m)	1.	00							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	22.5	22.0	21.9	22.0	21.8	22.4	22.09	-	
Salinity (ppt)	37.2	37.2	38.5	37.9	40.0	39.2	38.33	-	
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.96		
D.O. Saturation (%)	106.2	110.1	111.8	115.7	111.9	115.3	111.83	-	
D.O. (mg/L)	7.4	7.8	7.8	8.1	7.8	7.97	7.82	7.88	
Turbidity (NTU)	7.4	7.2	13.6	13.1	12.1	12.8	11.03	-	
SS (mg/L)	7.0	7.0	8.0	7.0	12.0	12.0	8.83	-	
Remarks			Dredging	and Dumpi	ng works we	re observed			

Station			IM	02			Co-ord	dinates
Time (hh:mm)			12:03	-12:04			Northing	Easting
Water Depth (m)				22.21.161	113.54.665			
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	22.0	22.5	22.5	22.4	21.9	20.5	21.97	-
Salinity (ppt)	38.0	37.5	38.1	38.1	40.0	41.2	38.81	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	118.4	116.4	120.1	117.7	116.6	123.1	118.72	-
D.O. (mg/L)	8.3	8.1	8.4	8.2	8.1	8.70	8.29	8.40
Turbidity (NTU)	12.3	12.9	15.2	15.7	14.2	14.2	14.08	-
SS (mg/L)	9.0	10.0	16.0	12.50	-			
Remarks			Dredging	and Dumpii	ng works we	re observed.		

Station			MF	PB1			1	
Time (hh:mm)			12:57	-12:58				
Water Depth (m)			8.	08				
Monitoring Depth (m)	1.	00	4.	04	7.	08		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.8	21.8	21.9	21.9	21.9	22.0	21.88	-
Salinity (ppt)	37.7	37.5	37.9	38.4	38.6	38.4	38.08	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.92	
D.O. Saturation (%)	107.3	108.6	110.1	107.5	107.9	118.2	109.93	-
D.O. (mg/L)	7.6	7.7	7.7	7.5	7.6	8.3	7.72	7.92
Turbidity (NTU)	13.9	13.3	17.9	17.1	17.7	18.2	16.35	-
SS (mg/L)	8.0	8.0	8.0	8.0	15.0	16.0	10.50	-
Remarks							•	•

Station			MF	PB2				
Time (hh:mm)			13:08	-13:09				
Water Depth (m)								
Monitoring Depth (m)	1.	00	4.	32	7.	65		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.8	21.8	21.8	22.3	21.8	21.8	21.89	-
Salinity (ppt)	38.0	38.2	38.7	38.0	38.7	39.2	38.47	-
pH	7.9	7.9	8.0	7.9	8.0	8.0	7.95	
D.O. Saturation (%)	107.2	106.6	107.3	107.1	111.9	107.2	107.88	=
D.O. (mg/L)	7.5	7.5	7.5	7.5	7.8	7.5	7.56	7.67
Turbidity (NTU)	10.1	10.2	14.6	14.6	20.2	19.4	14.85	=
SS (mg/L)	8.0	9.0	9.0	10.0	9.0	9.0	9.00	-
Remarks								

Station			N	IP			1	
Time (hh:mm)								
Water Depth (m)			5.	69				
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.8	21.8	-	-	21.9	22.4	21.96	-
Salinity (ppt)	37.2	37.4	-	-	37.3	37.3	37.28	-
pH	7.9	7.9	-	-	7.9	7.9	7.91	
D.O. Saturation (%)	109.3	109.1	-	-	110.5	109.6	109.63	-
D.O. (mg/L)	7.7	7.7	-	-	7.8	7.7	7.73	7.74
Turbidity (NTU)	14.7	14.6	-	-	16.5	16.0	15.45	-
SS (mg/L)	12.0	11.0	-	-	14.0	15.0	13.00	-
Remarks								

Compliance with Action an	ia Limit Lev	<u>'ei</u>												
Parameter	As in	EM&A	C2*1	30%	IM	IMO1		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)	4.2	4.0	7.8	7.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.8	7.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	14.2	NA	N	NA	N	NA	Υ	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	11.3	11.3	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/23/07
Weather & Ambient Temperature	Cloudy, 19C

Station			C1 (NM3)				
Time (hh:mm)			17:23	-17:24				
Water Depth (m)			15	.99				
Monitoring Depth (m)	1.	00	8.	00	14	.99		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.9	21.7	21.8	21.6	21.7	21.79	-
Salinity (ppt)	40.4	40.2	41.2	40.8	41.8	41.1	40.88	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01	
D.O. Saturation (%)	113.9	114.7	114.1	115.0	114.2	116.5	114.73	-
D.O. (mg/L)	7.9	8.0	7.9	8.0	7.9	8.1	7.94	7.98
Turbidity (NTU)	4.3	4.2	4.7	4.2	7.6	7.7	5.45	-
SS (mg/L)	6.0	7.0	6.0	8.0	6.0	7.0	6.67	-
Remarks								

Station			C3 (NM6)				
Time (hh:mm)			15:29					
Water Depth (m)			6.	47				
Monitoring Depth (m)	1.	00	3.	23	5.	47		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.7	21.8	21.8	20.5	21.8	21.7	21.56	-
Salinity (ppt)	39.5	39.3	39.3	40.8	39.4	39.7	39.67	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	116.3	117.3	118.5	118.1	120.9	116.4	117.92	-
D.O. (mg/L)	8.1	8.2	8.3	8.4	8.4	8.1	8.25	8.29
Turbidity (NTU)	9.6	10.1	10.8	10.7	10.5	10.5	10.37	-
SS (mg/L)	10.0	8.0	11.0	12.0	14.0	14.0	11.50	-
Remarks		•		•		•	•	•

Station			IIV	101			Co-ordinate	s
Time (hh:mm)			16:42	2-16:44			Northing	Easting
Water Depth (m)			16	6.50			22.21.624	113.54.594
Monitoring Depth (m)	1.	.00	8.	.25	15	5.50		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.8	21.9	21.9	22.4	21.8	21.96	-
Salinity (ppt)	38.2	38.8	39.0	39.7	39.1	40.5	39.21	-
pH	7.9	7.9	7.9	8.0	8.0	8.0	7.96	
D.O. Saturation (%)	111.4	110.6	113.6	112.8	115.5	111.0	112.48	-
D.O. (mg/L)	7.8	7.7	7.9	7.9	8.0	7.7	7.84	7.85
Turbidity (NTU)	7.2	7.4	9.1	9.3	9.9	9.8	8.78	-
SS (mg/L)	8.0	9.0	9.0	10.0	9.0	10.0	9.17	-
Remarks								

Station			IM	102			Co-ordinate	s
Time (hh:mm)							Northing	Easting
Water Depth (m)			10		22.21.177	113.54.669		
Monitoring Depth (m)	1.	.00	5.	.24	9.	48		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.4	22.3	22.4	21.9	21.9	21.8	22.13	-
Salinity (ppt)	37.5	37.7	37.9	38.1	39.5	39.9	38.44	-
pH	7.9	7.9	7.9	7.9	8.0	8.0	7.93	
D.O. Saturation (%)	108.0	105.8	107.7	112.3	113.9	106.9	109.10	-
D.O. (mg/L)	7.5	7.4	7.5	7.9	7.9	7.4	7.61	7.68
Turbidity (NTU)	7.6	7.7	8.6	8.9	9.5	9.6	8.65	-
SS (mg/L)	9.0	10.0	8.0	8.0	10.0	13.0	9.67	-
Remarks								

Station			MF	PB1						
Time (hh:mm)			16:03	-16:04						
Water Depth (m)			8.							
Monitoring Depth (m)	1.	00	4.	40						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	21.8	21.8	21.8	21.8	21.8	21.8	21.80	-		
Salinity (ppt)	38.0	38.0	38.7	38.5	39.8	40.3	38.89	-		
pH	7.9	7.9	8.0	7.9	8.0	8.0	7.94			
D.O. Saturation (%)	106.6	106.8	106.9	107.0	107.0	106.9	106.87	-		
D.O. (mg/L)	7.5	7.5	7.5	7.5	7.4	7.4	7.48	7.43		
Turbidity (NTU)	14.1	14.6	17.7	18.2	17.9	17.8	16.72	-		
SS (mg/L)	10.0	9.0	9.0	10.0	13.0	13.0	10.67	-		
Remarks		Dredging and Dumping works were observed.								

Station			MF	PB2							
Time (hh:mm)			15:54	-15:55							
Water Depth (m)			8.	79							
Monitoring Depth (m)	1.	00									
Trial	Trial 1	Trial 2	Depth-averaged	Bottom							
Water Temperature (°C)	21.8	20.7	20.6	22.4	22.0	22.3	21.63	-			
Salinity (ppt)	38.2	39.2	40.0	38.0	39.0	38.8	38.84	-			
pH	7.9	8.0	8.0	8.0	8.0	8.0	7.97				
D.O. Saturation (%)	106.0	107.7	107.7	107.08	-						
D.O. (mg/L)	7.5	7.7	7.7	7.52	7.46						
Turbidity (NTU)	11.1	11.3	13.2	13.3	18.5	18.5	14.32	-			
SS (mg/L)	8.0	8.0	11.0	12.0	19.0	19.0	12.83	-			
Remarks		Dredging and Dumping works were observed.									

Station			N	IP						
Time (hh:mm)			16:12	-16:12						
Water Depth (m)			5.	36						
Monitoring Depth (m)	1.	00	2.							
Trial	Trial 1	Trial 2	Depth-averaged	Bottom						
Water Temperature (°C)	21.7	21.8	-	-	20.6	21.8	21.47	-		
Salinity (ppt)	37.7	37.7	-	-	38.9	37.9	38.04	-		
pH	7.9	7.9	-	7.92						
D.O. Saturation (%)	109.2	109.6	-	-	111.4	109.2	109.85	-		
D.O. (mg/L)	7.7	7.7	7.77	7.83						
Turbidity (NTU)	13.8	14.3	-	14.15	-					
SS (mg/L)	10.0	12.0	-	-	11.0	11.0	11.00	-		
Remarks		Floating Rubbish was observed.								

Compliance with Action an	a = =0	<u> </u>												
Parameter	As in	EM&A	Mean(C1+	+C3)*130%	IM	01	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)	4.2	4.0	8.1	8.1	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.1	8.1	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	10.3	NA	N	NA	N	NA	Y	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	11.8	11.8	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/24/07
Weather & Ambient Temperature	Cloudy, 19C

Station			C2 (NM5)				
Time (hh:mm)			13:16	-13:18				
Water Depth (m)								
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.9	21.3	20.2	21.3	21.3	20.2	21.04	-
Salinity (ppt)	38.9	39.6	40.8	39.5	39.7	40.5	39.83	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.07	
D.O. Saturation (%)	120.4	120.8	122.5	121.1	121.1	122.5	121.40	-
D.O. (mg/L)	8.4	8.5	8.7	8.5	8.5	8.7	8.57	8.63
Turbidity (NTU)	11.5	11.1	12.4	12.7	13.8	13.6	12.52	-
SS (mg/L)	12.0	10.0	14.0	11.0	12.0	12.0	11.83	-
Remarks		-		-		•	-	

Station			IM	01			Co-ord	dinates			
Time (hh:mm)			12:56	-12:58			Northing	Easting			
Water Depth (m)		16.59 22.21.535 113.54.4									
Monitoring Depth (m)	1.	00									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	21.7	22.2	20.4	21.5	21.6	21.6	21.47	-			
Salinity (ppt)	38.3	38.2	40.2	39.4	39.8	40.1	39.32	-			
pH	8.0	8.0	8.1	8.03							
D.O. Saturation (%)	113.3	113.3 112.7 114.9 112.4 113.4 111.5									
D.O. (mg/L)	8.0	8.0 7.9 8.2 7.9 7.9 7.79 7.94									
Turbidity (NTU)	13.0	13.1	11.1	11.7	10.8	10.6	11.72	-			
SS (mg/L)	15.0	16.0	17.0	17.0	15.0	16.0	16.00	-			
Remarks	Floating rubbish was observed.										

Station			IM	02			Co-ord	dinates
Time (hh:mm)			12:45	-12:46			Northing	Easting
Water Depth (m)				22.21.197	113.54.644			
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 1 Trial 2		Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.6	21.6	21.6	21.7	21.7	21.6	21.63	-
Salinity (ppt)	38.4	38.0	38.5	38.9	39.8	38.9	38.73	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	121.1	120.7	121.4	122.0	126.7	120.1	122.00	-
D.O. (mg/L)	8.5	8.5	8.6	8.6	8.9	8.44	8.58	8.65
Turbidity (NTU)	14.8	14.9	14.9	14.4	14.3	14.5	14.63	-
SS (mg/L)	15.0 17.0 17.0 16.0 20.0 18.0							-
Remarks	Floating rubbish was observed.							

Station			MF	PB1					
Time (hh:mm)			13:42	-13:43					
Water Depth (m)									
Monitoring Depth (m)	1.	00	4.	21	7.	42		veraged 21.83 - 37.67 - 7.94 114.28 - 8.05 8.17 18.55 -	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	
Water Temperature (°C)	21.7	21.7	21.7	21.8	22.2	21.8	21.83	-	
Salinity (ppt)	37.8	37.6	37.9	37.5	37.3	37.9	37.67	-	
pH	7.9	7.9	8.0	7.9	7.9	7.9	7.94		
D.O. Saturation (%)	111.5	113.9	111.3	116.5	120.8	111.7	114.28	-	
D.O. (mg/L)	7.9	8.0	7.9	8.2	8.5	7.9	8.05	8.17	
Turbidity (NTU)	18.7	18.2	18.6	18.3	18.6	18.9	18.55	-	
SS (mg/L)	20.0	16.0	20.0	17.0	18.0	17.0	18.00	-	
Remarks		-		-		•	-		

Station			MF	PB2				
Time (hh:mm)			13:50	-13:51				
Water Depth (m)								
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	22.1	22.1	21.5	21.5	21.4	21.4	21.67	-
Salinity (ppt)	38.6	38.8	39.5	39.2	39.3	39.6	39.16	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	111.7	111.2	112.0	112.7	112.7	112.3	112.10	-
D.O. (mg/L)	7.8	7.7	7.9	7.9	7.9	7.9	7.85	7.90
Turbidity (NTU)	15.9	15.7	20.1	20.2	18.7	18.7	18.22	-
SS (mg/L)	16.0	16.0	15.0	16.0	14.0	15.0	15.33	-
Remarks		•	•	•	•	•		

Station			I	/IP				
Time (hh:mm)			13:33	-13:34				
Water Depth (m)								
Monitoring Depth (m)	1.	00						
Trial	Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2						Depth-	Bottom
							averaged	
Water Temperature (°C)	21.8	21.8	-	-	22.3	22.0	21.97	-
Salinity (ppt)	37.2	37.5	37.15	-				
pH	7.9	7.9	-	-	7.9	7.9	7.90	
D.O. Saturation (%)	117.9	110.5	-	-	112.6	133.7	118.68	-
D.O. (mg/L)	8.3	7.8	-	-	7.9	9.4	8.37	8.67
Turbidity (NTU)	33.0	32.2	-	-	34.1	33.1	33.10	-
SS (mg/L)	32.0	36.0	-	-	31.0	28.0	31.75	-
Remarks		•	•	•	•	•	•	

Compliance with Action ar	id Limit Lev	<u>'el</u>												
Parameter	As in	EM&A	C2*1	30%	IM	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)	4.2	4.0	8.6	8.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.6	8.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	16.3	NA	N	NA	N	NA	Υ	NA	Υ	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	15.4	15.4	N	N	N	N	N	N	N	N	Υ	N

Sampling Date	12/24/07
Weather & Ambient Temperature	Cloudy, 18C

Station			C1 (NM3)				
Time (hh:mm)			17:41	-17:43				
Water Depth (m)								
Monitoring Depth (m)	1.	.00	.35					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	20.3	21.4	21.6	21.3	21.4	22.1	21.34	-
Salinity (ppt)	40.4	39.5	39.3	39.7	39.7	38.9	39.58	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.07	
D.O. Saturation (%)	123.0	120.0	125.2	120.2	120.5	122.6	121.92	-
D.O. (mg/L)	8.8	8.4	8.8	8.5	8.5	8.5	8.57	8.50
Turbidity (NTU)	9.7	11.5	17.4	17.3	17.5	17.5	15.15	-
SS (mg/L)	10.0	12.0	11.0	13.0	11.0	13.0	11.67	-
Remarks		•		•				•

Station			C3 (NM6)				
Time (hh:mm)			16:01	-16:02				
Water Depth (m)			6.	.59				
Monitoring Depth (m)	1.	00	3.	.29	5.	.59		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	20.4	21.4	21.4	22.0	21.8	21.9	21.49	-
Salinity (ppt)	39.7	39.0	39.1	38.3	38.3	38.7	38.86	-
pH	8.0	8.0	8.1	8.0	8.0	8.1	8.04	
D.O. Saturation (%)	126.3	122.0	122.1	125.2	131.1	122.1	124.80	-
D.O. (mg/L)	9.0	8.6	8.6	8.8	9.2	8.5	8.79	8.88
Turbidity (NTU)	10.3	9.8	11.0	10.6	10.6	10.8	10.52	-
SS (mg/L)	11.0	12.0	11.0	11.0	12.0	11.0	11.33	-
Remarks								

Station			IM	101			Co-ordinate	s		
Time (hh:mm)			17:10	-17:12			Northing	Easting		
Water Depth (m)			16	5.72			22.21.542	113.54.467		
Monitoring Depth (m)	1.	.00	8.	.36	15	.72				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	22.2	21.7	21.5	21.5	21.6	21.6	21.69	-		
Salinity (ppt)	37.4	38.0	38.5	38.8	39.4	39.5	38.60	-		
pH	8.0	8.0	8.0	8.1	8.0	8.0	8.01			
D.O. Saturation (%)	114.0	113.8	115.8	113.9	117.0	113.8	114.72	-		
D.O. (mg/L)	8.0	8.0	8.2	8.0	8.2	8.0	8.06	8.08		
Turbidity (NTU)	13.5	13.2	12.1	11.9	10.9	10.5	12.02	-		
SS (mg/L)	16.0	15.0	15.0	19.0	15.0	17.0	16.17	-		
Remarks		Floating rubbish was observed.								

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			17:19	-17:20			Northing	Easting		
Water Depth (m)			10	.55			22.21.197	113.54.660		
Monitoring Depth (m)	1.	1.00 5.28 9.55								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	22.1	21.6	22.1	21.6	22.0	22.0	21.88	-		
Salinity (ppt)	37.6	38.1	38.1	38.4	38.4	38.5	38.17	-		
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01			
D.O. Saturation (%)	119.4	118.0	118.5	120.3	119.2	117.9	118.88	-		
D.O. (mg/L)	8.4	8.3	8.3	8.5	8.3	8.2	8.34	8.29		
Turbidity (NTU)	16.2	15.8	15.9	15.5	15.2	14.6	15.53	-		
SS (mg/L)	14.0 16.0 16.0 18.0 16.0 16.0						16.00	-		
Remarks		Floating rubbish was observed.								

Station			MF	PB1				
Time (hh:mm)			16:28	-16:30				
Water Depth (m)			8.	26				
Monitoring Depth (m)	1.	00	4.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.2	21.7	20.6	20.6	21.7	21.7	21.40	-
Salinity (ppt)	37.8	38.0	39.1	39.4	38.1	38.3	38.45	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.95	
D.O. Saturation (%)	109.4	110.6	111.7	111.5	110.7	110.2	110.68	-
D.O. (mg/L)	7.7	7.8	8.0	8.0	7.8	7.8	7.83	7.78
Turbidity (NTU)	19.1	19.0	19.0	19.9	19.1	19.3	19.23	-
SS (mg/L)	22.0	16.0	18.0	15.0	18.0	15.0	17.33	-
Remarks		•	-	•				

Station			MF	PB2				
Time (hh:mm)			16:19	-16:21				
Water Depth (m)			8.	85				
Monitoring Depth (m)	1.	00	4.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.6	21.5	20.5	20.3	21.18	-
Salinity (ppt)	38.4	38.8	38.4	39.0	39.5	40.1	39.02	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	113.9	112.8	117.0	112.9	125.1	114.4	116.02	-
D.O. (mg/L)	8.0	7.9	8.3	8.0	8.9	8.2	8.21	8.55
Turbidity (NTU)	18.2	18.2	24.5	20.1	22.1	22.7	20.97	-
SS (mg/L)	14.0	14.0	11.0	12.0	13.0	12.0	12.67	-
Remarks						•	•	•

Station			N	IP				
Time (hh:mm)			16:54	-16:54				
Water Depth (m)			5.					
Monitoring Depth (m)	1.	1.00 2.82 4.64						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	20.6	21.7	-	-	21.8	21.7	21.46	-
Salinity (ppt)	38.7	37.8	-	-	37.6	37.7	37.94	-
pH	7.9	7.9	-	-	7.9	7.9	7.93	
D.O. Saturation (%)	111.0	109.4	-	-	110.1	109.5	110.00	-
D.O. (mg/L)	8.0	7.7	-	-	7.8	7.7	7.79	7.75
Turbidity (NTU)	31.6	31.3	-	-	32.9	32.0	31.95	-
SS (mg/L)	31.0	32.0	-	-	32.0	31.0	31.50	-
Remarks								

Compilation with Atomorran	billance with Action and Emili Ecro													
Parameter	As in	EM&A	Mean(C1-	-C3)*130%	IM	01	IMO2		MPB1		MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance of Action		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)	4.2	4.0	8.7	8.7	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.7	8.7	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	16.7	NA	N	NA	N	NA	Y	NA	Υ	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	15.0	15.0	N	N	N	N	N	N	N	N	Y	N

Sampling Date	12/25/07
Weather & Ambient Temperature	Cloudy, 17C

Station			C2 (NM5)				
Time (hh:mm)			12:53	-12:55				
Water Depth (m)								
Monitoring Depth (m)	1.	.00	10	.13	19	.26		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	19.8	21.1	21.0	21.0	21.0	21.1	20.85	-
Salinity (ppt)	39.6	38.4	38.8	38.6	39.0	39.0	38.89	-
pH	8.0	8.0	8.1	8.1	8.1	8.1	8.06	
D.O. Saturation (%)	125.9	122.5	124.9	122.6	122.3	126.7	124.15	-
D.O. (mg/L)	9.1	8.7	8.9	8.7	8.7	9.0	8.84	8.83
Turbidity (NTU)	11.7	12.0	14.1	14.7	15.2	15.3	13.83	-
SS (mg/L)	11.0	10.0	12.0	11.00	-			
Remarks		•		•		•		

Station			IM	01			Co-ord	dinates
Time (hh:mm)			13:54	-13:55			Northing	Easting
Water Depth (m)				22.21.530	113.54.472			
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.7	21.1	21.6	21.1	21.1	21.2	21.30	-
Salinity (ppt)	38.1	38.8	38.9	39.2	39.5	39.1	38.94	-
pH	8.0	8.1	8.1	8.1	8.1	8.1	8.08	
D.O. Saturation (%)	117.8	117.7	116.8	119.2	116.8	126.0	119.05	-
D.O. (mg/L)	8.3	8.3	8.2	8.4	8.3	8.90	8.40	8.58
Turbidity (NTU)	21.5	20.8	23.8	27.3	22.2	24.8	23.40	-
SS (mg/L)	22.0	15.0	12.0	15.17	-			
Remarks			Brov	wnish water	color was ob	served.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			13:43	-13:44			Northing	Easting
Water Depth (m)				22.21.183	113.54.637			
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.7	20.1	21.1	21.7	20.1	21.3	20.98	-
Salinity (ppt)	38.1	39.4	38.8	38.0	39.8	38.4	38.72	-
pH	8.0	8.0	8.1	8.0	8.0	8.0	8.03	
D.O. Saturation (%)	115.3	120.9	116.4	121.5	118.6	126.2	119.82	-
D.O. (mg/L)	8.1	8.7	8.3	8.6	8.5	8.95	8.52	8.74
Turbidity (NTU)	14.0	14.1	16.1	16.2	15.2	15.9	15.25	-
SS (mg/L)	20.0	18.0	13.0	17.00	-			
Remarks			Brov	vnish water	color was ob	served.		

Station			MF	PB1			1	
Time (hh:mm)			13:21	-13:22				
Water Depth (m)			8.	14				
Monitoring Depth (m)	1.	00	4.	07	7.	14		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.2	21.2	21.0	21.0	21.6	21.0	21.17	-
Salinity (ppt)	39.0	39.0	39.4	39.4	39.1	39.5	39.24	-
pH	8.0	8.0	8.1	8.1	8.1	8.1	8.05	
D.O. Saturation (%)	116.3	115.9	115.1	115.6	114.1	115.0	115.33	-
D.O. (mg/L)	8.2	8.2	8.1	8.2	8.0	8.1	8.15	8.07
Turbidity (NTU)	18.7	18.1	20.1	21.1	19.2	20.6	19.63	-
SS (mg/L)	18.0	19.0	24.0	20.17	-			
Remarks			Brov	wnish water	color was ob	served.		

Station			MF	PB2						
Time (hh:mm)										
Water Depth (m)										
Monitoring Depth (m)	1.	00	4.	32	7.	65				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	21.7	21.2	21.1	21.1	21.2	21.1	21.23	-		
Salinity (ppt)	38.4	38.7	39.2	38.9	39.2	39.1	38.93	-		
pH	8.0	8.0	8.0	8.0	8.0	8.1	8.04			
D.O. Saturation (%)	114.8	114.9	115.5	115.1	116.1	114.7	115.18	-		
D.O. (mg/L)	8.1	8.1	8.2	8.2	8.2	8.1	8.14	8.16		
Turbidity (NTU)	27.4	26.7	27.4	28.3	27.3	27.5	27.43	-		
SS (mg/L)	19.0	28.0	32.0	31.0	38.0	29.0	29.50	-		
Remarks	Brownish water color was observed.									

Station			N	IP			1				
Time (hh:mm)			13:11	-13:12							
Water Depth (m)											
Monitoring Depth (m)	1.	00	2.	80	4.	60					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	21.7	21.7	-	-	21.2	21.2	21.45	-			
Salinity (ppt)	38.6	38.5	-	-	39.2	39.1	38.85	-			
pH	8.0	8.0	-	-	8.0	8.0	8.01				
D.O. Saturation (%)	111.8	111.2	-	-	111.9	112.9	111.95	-			
D.O. (mg/L)	7.9	7.8	-	-	8.0	8.0	7.91	7.97			
Turbidity (NTU)	17.7	17.2	-	-	17.3	17.3	17.38	-			
SS (mg/L)	21.0	21.0 19.0 19.0 20.0 19.75									
Remarks		•	Brov	wnish water	color was ob	served.					

Compliance with Action an	ia Limit Lev	<u>'ei</u>													
Parameter	As in	EM&A	C2*1	30%	IM	IMO1		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)	4.2	4.0	8.8	8.8	N	N	N	N	N	N	N	N	N	N	
DO (Depth-averaged)	3.3	2.5	8.8	8.8	N	N	N	N	N	N	N	N	N	N	
Turbidity (Depth-averaged)	NA	NA	18.0	NA	Υ	NA	N	NA	Y	NA	Υ	NA	N	NA	
SS (Depth-averaged)	24.0	37.0	14.3	14.3	N	N	N	N	N	N	Υ	N	Ν	N	

Sampling Date	12/25/07
Weather & Ambient Temperature	Cloudy, 16C

Station			C1 (NM3)				
Time (hh:mm)			8:36					
Water Depth (m)			16	6.04				
Monitoring Depth (m)	1.	.00	8.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.0	21.1	21.0	21.0	21.0	21.0	20.99	-
Salinity (ppt)	38.5	38.4	38.7	38.8	39.0	39.0	38.72	-
pH	8.0	8.0	8.1	8.1	8.1	8.1	8.06	
D.O. Saturation (%)	121.2	122.1	121.4	122.1	122.4	121.8	121.83	-
D.O. (mg/L)	8.6	8.7	8.6	8.7	8.7	8.7	8.66	8.68
Turbidity (NTU)	13.6	13.7	17.2	17.5	15.1	15.9	15.50	-
SS (mg/L)	6.0	8.0	8.0	10.0	8.0	9.0	8.17	-
Remarks						•		

Station			C3 (NM6)				
Time (hh:mm)			10:00					
Water Depth (m)			6.					
Monitoring Depth (m)	1.	.00	3.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	19.8	21.1	21.0	21.0	21.0	20.9	20.81	-
Salinity (ppt)	40.1	39.7	40.4	39.4	39.8	43.2	40.45	-
pH	8.0	8.0	8.0	8.1	8.0	8.0	8.03	
D.O. Saturation (%)	125.7	127.1	129.3	124.0	124.3	133.5	127.32	-
D.O. (mg/L)	9.1	9.0	9.1	8.8	8.8	9.3	8.99	9.02
Turbidity (NTU)	12.3	12.0	14.2	14.6	13.5	13.2	13.30	-
SS (mg/L)	11.0	11.0	9.0	11.0	10.0	12.0	10.67	-
Remarks			•		•			

Station			IM	101			Co-ordinate	s
Time (hh:mm)			8:55	-8:58			Northing	Easting
Water Depth (m)			16		22.21.524	113.54.477		
Monitoring Depth (m)	1.	00	8.	.34	15	.67		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.1	21.1	21.1	21.1	21.1	21.6	21.17	-
Salinity (ppt)	39.0	39.1	39.6	39.7	39.6	39.3	39.39	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.09	
D.O. Saturation (%)	117.4	116.7	117.2	116.8	116.6	115.7	116.73	-
D.O. (mg/L)	8.3	8.3	8.3	8.2	8.2	8.1	8.24	8.17
Turbidity (NTU)	21.5	20.4	24.3	24.4	21.6	21.9	22.35	-
SS (mg/L)	18.0	15.0	12.0	14.0	12.0	13.0	14.00	-
Remarks				Brownis	n water color	was observe	d.	

Station			IM	02			Co-ordinate	s
Time (hh:mm)			9:07	-9:09			Northing	Easting
Water Depth (m)			10		22.21.187	113.54.659		
Monitoring Depth (m)	1.00 5.15 9.30						•	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.1	21.1	21.0	21.1	21.1	20.0	20.89	-
Salinity (ppt)	39.0	38.8	39.2	39.0	39.0	40.3	39.23	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.06	
D.O. Saturation (%)	115.1	115.3	115.1	115.2	115.3	116.3	115.38	-
D.O. (mg/L)	8.2	8.2	8.2	8.2	8.2	8.3	8.19	8.26
Turbidity (NTU)	15.0	14.9	16.1	16.4	15.6	15.8	15.63	-
SS (mg/L)	15.0	24.0	17.0	19.0	17.0	21.0	18.83	-
Remarks				Brownis	n water color	was observe	ed.	

Station			MF	PB1						
Time (hh:mm)			9:33	-9:34						
Water Depth (m)			8.	32						
Monitoring Depth (m)	1.	00	4.	16	7.	32				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	20.1	21.7	21.7	21.2	20.0	19.9	20.76	-		
Salinity (ppt)	40.1	38.3	38.7	39.3	40.7	40.8	39.64	-		
pH	8.0	8.0	8.0	8.0	8.0	8.1	8.03			
D.O. Saturation (%)	122.6	116.2	116.7	123.6	128.8	118.7	121.10	-		
D.O. (mg/L)	8.8	8.2	8.2	8.7	9.2	8.5	8.60	8.86		
Turbidity (NTU)	20.6	20.6	23.2	22.1	22.9	23.3	22.12	-		
SS (mg/L)	17.0	17.0	19.0	16.0	18.0	18.0	17.50	-		
Remarks		Brownish water color was observed.								

Station			MF	B2						
Time (hh:mm)			9:42	-9:44						
Water Depth (m)			8.							
Monitoring Depth (m)	1.	00	4.	39	7.	78				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	21.2	21.2	21.2	21.1	21.2	21.1	21.17	-		
Salinity (ppt)	39.4	39.1	40.0	39.5	40.5	39.6	39.68	-		
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.02			
D.O. Saturation (%)	120.9	117.0	123.0	117.1	127.3	118.1	120.57	-		
D.O. (mg/L)	8.5	8.3	8.7	8.3	8.9	8.3	8.49	8.63		
Turbidity (NTU)	28.3	28.1	29.1	28.5	28.3	28.8	28.52	-		
SS (mg/L)	29.0	29.0	28.0	28.0	33.0	28.0	29.17	-		
Remarks		Brownish water color was observed.								

Station			N	IP						
Time (hh:mm)			9:23							
Water Depth (m)			5.	48						
Monitoring Depth (m)	1.	00	2.	74	4.	48				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	21.2	21.7	-	-	21.2	21.2	21.32	-		
Salinity (ppt)	39.0	38.6	-	-	39.0	39.1	38.91	-		
pH	8.0	8.0	-	-	8.0	8.0	8.01			
D.O. Saturation (%)	113.5	112.1	-	-	114.2	113.0	113.20	-		
D.O. (mg/L)	8.0	7.9	-	-	8.1	8.0	7.99	8.04		
Turbidity (NTU)	17.7	17.9	-	-	17.5	17.9	17.75	-		
SS (mg/L)	18.0	20.0	-	-	18.0	20.0	19.00	-		
Remarks		Brownish water color was observed.								

Sombilation with Addition and Elimit Editor														
Parameter	As in	EM&A	Mean(C1+	-C2)*130%	IMO1		IMO2		MPB1		MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance of Action Exceedance Ex		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)	4.2	4.0	8.8	8.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.8	8.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	18.7	NA	Y	NA	N	NA	Y	NA	Υ	NA	N	NA
SS (Depth-averaged)	24.0	37.0	12.2	12.2	N	N	N	N	N	N	Υ	N	N	N

Sampling Date	12/26/07
Weather & Ambient Temperature	Sunny, 22C

Station			C2 (NM5)				
Time (hh:mm)			13:42	-13:44				
Water Depth (m)								
Monitoring Depth (m)	1.	00						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.0	21.0	20.8	20.7	20.7	20.7	20.82	-
Salinity (ppt)	38.9	38.5	38.3	39.1	38.7	39.4	38.80	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01	
D.O. Saturation (%)	119.0	121.4	122.3	120.1	123.3	120.4	121.08	-
D.O. (mg/L)	8.4	8.6	8.7	8.6	8.8	8.6	8.63	8.70
Turbidity (NTU)	11.0	10.6	13.2	13.5	14.4	14.1	12.80	-
SS (mg/L)	12.0	12.0	12.0	12.0	12.0	12.0	12.00	-
Remarks		-		-		-	-	

Station			IM	01			Co-ore	dinates		
Time (hh:mm)			14:43	-14:45			Northing	Easting		
Water Depth (m)				22.21.427	113.54.235					
Monitoring Depth (m)	1.	00		-						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom		
							averaged			
Water Temperature (°C)	21.4	21.4	21.1	21.7	21.3	21.0	21.30	-		
Salinity (ppt)	38.9	39.0	39.2	38.4	38.7	39.1	38.89	-		
pH	8.0	8.0	8.1	8.0	8.1	8.1	8.04			
D.O. Saturation (%)	114.3	114.1	114.1	112.5	111.9	114.7	113.60	-		
D.O. (mg/L)	8.1	8.1	8.1	7.9	7.9	8.13	8.03	8.02		
Turbidity (NTU)	20.3	20.6	23.7	23.5	24.8	24.6	22.92	-		
SS (mg/L)	8.0	8.0	9.0	9.0	9.0	8.0	8.50	-		
Remarks		Brownish water color was observed.								

Station			IM	02			Co-ord	dinates	
Time (hh:mm)			14:32	-14:34			Northing	Easting	
Water Depth (m)				22.21.047	113.54.484				
Monitoring Depth (m)	1.	00							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	21.1	21.0	21.0	21.1	20.9	21.4	21.10	-	
Salinity (ppt)	39.5	39.8	39.9	39.6	39.9	39.2	39.65	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.07		
D.O. Saturation (%)	118.0	113.6	114.0	121.7	115.0	117.4	116.62	-	
D.O. (mg/L)	8.3	8.0	8.1	8.6	8.1	8.26	8.23	8.19	
Turbidity (NTU)	15.0	15.1	15.7	16.6	15.6	16.5	15.75	-	
SS (mg/L)	15.0	15.0	14.0	15.0	16.0	15.0	15.00	-	
Remarks		Brownish water color was observed.							

Station			MF	PB1			1				
Time (hh:mm)			14:10	-14:11							
Water Depth (m)											
Monitoring Depth (m)	1.	00									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	21.6	21.2	20.9	21.1	21.0	21.1	21.13	-			
Salinity (ppt)	38.2	38.5	38.9	38.5	39.0	38.7	38.62	-			
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01				
D.O. Saturation (%)	111.0	111.5	111.2	112.0	111.1	110.6	111.23	-			
D.O. (mg/L)	7.8	7.9	7.9	8.0	7.9	7.9	7.89	7.87			
Turbidity (NTU)	24.7	25.2	25.6	21.0	24.9	21.6	23.83	-			
SS (mg/L)	26.0	24.0	22.67	-							
Remarks		Brownish water color was observed.									

Station			MF	PB2					
Time (hh:mm)			14:18	-14:20					
Water Depth (m)									
Monitoring Depth (m)	1.	00							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	21.2	20.1	20.0	20.9	20.9	21.3	20.72	-	
Salinity (ppt)	38.7	40.0	40.3	39.6	39.8	39.3	39.61	-	
pH	8.0	8.0	8.0	8.0	8.0	8.1	8.01		
D.O. Saturation (%)	113.4	114.9	116.9	112.3	111.9	113.6	113.83	-	
D.O. (mg/L)	8.0	8.2	8.4	8.0	7.9	8.0	8.09	7.96	
Turbidity (NTU)	18.4	19.2	25.7	24.9	25.5	25.7	23.23	-	
SS (mg/L)	17.0	17.0	19.0	17.0	16.0	16.0	17.00	-	
Remarks	Brownish water color was observed.								

Station			N	/IP							
Time (hh:mm)			14:01	-14:02			1				
Water Depth (m)											
Monitoring Depth (m)	1.	00	2	.75	4.	50					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	21.2	21.1	-	-	21.6	21.1	21.25	-			
Salinity (ppt)	39.0	39.1	-	-	38.6	39.1	38.96	-			
pH	8.0	8.0	-	-	8.0	8.0	7.99				
D.O. Saturation (%)	108.9	109.3	-	-	109.8	109.4	109.35	-			
D.O. (mg/L)	7.7	7.7	-	-	7.7	7.8	7.73	7.74			
Turbidity (NTU)	22.1	21.8	-	-	20.2	22.9	21.75	-			
SS (mg/L)	24.0	24.0			22.0	24.0	23.50	-			
Remarks		Brownish water color was observed.									

Compliance with Action ar	id Limit Lev	<u>'el</u>												
Parameter	As in	EM&A	C2*1	30%	IM	IMO1		IMO2		MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedanc	anc Exceedanc Exceedanc Exceedance of Limit Level E		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)	4.2	4.0	8.7	8.7	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.6	8.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	16.6	NA	Υ	NA	N	NA	Υ	NA	Υ	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	15.6	15.6	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/26/07
Weather & Ambient Temperature	Sunny, 18C

Station			C1 (NM3)				
Time (hh:mm)			9:30	-9:33				
Water Depth (m)			16					
Monitoring Depth (m)	1.	00	.42					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.2	20.1	21.0	19.9	21.0	21.1	20.70	-
Salinity (ppt)	41.9	43.0	41.9	42.8	42.3	41.5	42.23	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.15	
D.O. Saturation (%)	119.0	120.3	119.1	120.4	119.4	118.4	119.43	-
D.O. (mg/L)	8.3	8.5	8.3	8.5	8.3	8.3	8.36	8.30
Turbidity (NTU)	6.4	6.5	7.6	8.1	8.8	8.1	7.58	-
SS (mg/L)	5.0	5.0	5.0	4.0	4.0	5.0	4.67	-
Remarks								

Station			C3 (NM6)				
Time (hh:mm)			10:54	-10:56				
Water Depth (m)			6.					
Monitoring Depth (m)	1.	00	3.					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.0	21.0	20.9	20.9	20.9	21.1	20.97	-
Salinity (ppt)	40.3	38.7	41.3	39.1	39.6	42.3	40.22	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	125.4	123.0	126.9	123.1	123.0	129.0	125.07	-
D.O. (mg/L)	8.8	8.8	8.9	8.8	8.7	9.0	8.82	8.84
Turbidity (NTU)	12.1	11.5	13.5	12.2	12.1	13.2	12.43	-
SS (mg/L)	12.0	13.0	11.0	11.0	11.0	13.0	11.83	-
Remarks			•					

Station			IM	101			Co-ordinate	s
Time (hh:mm)			9:50	-9:53			Northing	Easting
Water Depth (m)			16	6.35			22.21.437	113.54.271
Monitoring Depth (m)	1.	.00	8.	.17	15	.35		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.8	21.5	21.0	21.3	21.1	21.2	21.30	-
Salinity (ppt)	38.7	39.0	39.4	39.1	39.3	39.2	39.11	-
pH	8.0	8.0	8.1	8.0	8.0	8.0	8.04	
D.O. Saturation (%)	113.4	114.6	114.8	114.4	115.5	114.7	114.57	-
D.O. (mg/L)	7.9	8.1	8.1	8.1	8.2	8.1	8.08	8.14
Turbidity (NTU)	18.1	18.5	18.1	18.4	21.5	21.8	19.40	-
SS (mg/L)	8.0	8.0	8.0	8.0	8.0	8.0	8.00	-
Remarks				Brownis	n water color	was observe	d.	

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			10:01	-10:03			Northing	Easting		
Water Depth (m)			11	.00		22.21.081	113.54.439			
Monitoring Depth (m)	1.	00	5.	50	10	.00				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	21.1	21.0	21.1	21.0	20.9	21.0	21.03	-		
Salinity (ppt)	39.4	39.7	39.5	39.7	39.8	39.6	39.61	-		
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.06			
D.O. Saturation (%)	112.9	113.4	112.6	113.3	113.4	112.1	112.95	-		
D.O. (mg/L)	8.0	8.0	8.0	8.0	8.0	7.9	7.98	7.98		
Turbidity (NTU)	14.3	14.5	15.8	15.6	17.7	17.1	15.83	-		
SS (mg/L)	14.0	14.0	14.0	17.0	15.0	15.0	14.83	-		
Remarks		Brownish water color was observed.								

Station			MF	PB1					
Time (hh:mm)			10:27	-10:29					
Water Depth (m)			8.						
Monitoring Depth (m)	1.	00	4.	26					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.0	21.1	19.8	19.8	19.7	21.0	20.39	-	
Salinity (ppt)	39.0	38.8	40.2	40.1	40.7	39.2	39.68	-	
pH	8.0	8.0	8.0	8.0	8.1	8.0	8.02		
D.O. Saturation (%)	111.3	112.9	114.8	113.5	114.4	112.4	113.22	-	
D.O. (mg/L)	7.9	8.0	8.3	8.2	8.2	8.0	8.09	8.10	
Turbidity (NTU)	28.8	29.5	39.4	38.2	46.1	45.3	37.88	-	
SS (mg/L)	24.0	24.0	22.0	23.0	22.0	22.0	22.83	-	
Remarks		Brownish water color was observed.							

Station			MF	PB2				
Time (hh:mm)			10:37	-10:38				
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.	45	7.	89		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.7	21.2	21.6	21.5	20.8	20.9	21.28	-
Salinity (ppt)	38.0	38.6	38.6	38.4	39.2	39.3	38.69	-
pH	8.0	8.0	8.0	8.0	8.1	8.0	8.01	
D.O. Saturation (%)	115.4	115.2	115.0	115.6	116.4	115.0	115.43	-
D.O. (mg/L)	8.1	8.2	8.1	8.2	8.3	8.2	8.17	8.22
Turbidity (NTU)	23.5	23.7	25.6	25.1	26.5	26.8	25.20	-
SS (mg/L)	19.0	18.0	18.0	18.0	19.0	18.0	18.33	-
Remarks				Brownish w	ater color w	as observed.		

Station			N	IP.					
Time (hh:mm)			10:17	-10:18					
Water Depth (m)			5.						
Monitoring Depth (m)	1.	00	2.	.76					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.0	21.2	-	-	21.8	21.1	21.26	-	
Salinity (ppt)	39.1	38.9	-	-	38.4	39.1	38.84	-	
pH	8.0	8.0	-	-	8.0	8.0	7.99		
D.O. Saturation (%)	109.5	110.0	-	-	97.8	109.7	106.75	-	
D.O. (mg/L)	7.8	7.8	-	-	6.9	7.8	7.55	7.32	
Turbidity (NTU)	19.3	19.7	-	-	24.6	24.6	22.05	-	
SS (mg/L)	24.0	24.0			22.0	23.0	23.25	-	
Remarks		Brownish water color was observed.							

Compilation with Atomorran	Impliance that Potion and Eithe Ecres													
Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	01	IMO2	IMO2		MPB1	MF	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)	4.2	4.0	8.6	8.6	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.6	8.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	13.0	NA	Y	NA	Υ	NA	Y	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	10.7	10.7	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/27/07
Weather & Ambient Temperature	Sunny, 23C

Station	I		C2 (I	NM5)			1	
Time (hh:mm)			- 1	-14:01			•	
rime (nn:mm)			13.30	-14.01				
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)	21.6	21.6	21.6	21.1	21.2	20.9	21.33	-
Salinity (ppt)	38.0	37.6	38.5	39.6	39.1	39.9	38.79	-
pH	7.9	7.9	8.0	8.0	8.0	8.1	7.99	
D.O. Saturation (%)	108.9	111.4	116.9	115.3	117.8	114.2	114.08	-
D.O. (mg/L)	7.7	7.9	8.2	8.2	8.3	8.1	8.06	8.20
Turbidity (NTU)	7.2	8.2	9.1	9.7	20.6	20.8	12.60	-
SS (mg/L)	8.0	8.0	15.0	16.0	16.0	16.0	13.17	1
Remarks		Dr	edging work	s and brown	ish water col	or were obs	erved.	

Station			IM	101			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			11	1.8			22.21.491	113.54.309
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)	21.3	20.3	21.1	21.1	20.9	21.5	21.04	-
Salinity (ppt)	38.8	39.4	39.0	38.6	39.2	38.2	38.86	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00	
D.O. Saturation (%)	112.3	114.7	113.6	115.2	113.4	118.0	114.53	-
D.O. (mg/L)	7.9	8.2	8.1	8.2	8.1	8.33	8.13	8.19
Turbidity (NTU)	14.5	15.2	19.5	19.9	21.3	21.2	18.60	-
SS (mg/L)	14.0	14.0	18.0	19.0	22.0	22.0	18.17	-
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	O2			Co-ord	dinates			
Time (hh:mm)				Northing	Easting						
Water Depth (m)			9	.4			22.20.989	113.54.408			
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)	20.3	21.1	21.4	20.9	21.5	20.9	21.02	-			
Salinity (ppt)	39.9	39.5	38.7	39.6	38.4	39.6	39.25	-			
pH	8.0	8.0	8.0	8.0	8.0	8.1	8.03				
D.O. Saturation (%)	114.8	112.5	113.3	113.0	118.2	113.3	114.18	-			
D.O. (mg/L)	8.2	8.0	8.0	8.0	8.3	8.02	8.09	8.18			
Turbidity (NTU)	14.3	15.1	18.8	19.9	26.6	25.5	20.03	-			
SS (mg/L)	11.0	12.0	19.0	15.33	-						
Remarks		Dredging works was observed.									

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)	21.6	20.5	20.1	21.1	21.6	21.1	21.00	-
Salinity (ppt)	38.1	38.6	38.8	38.3	37.4	38.3	38.25	-
pH	7.9	7.8	7.9	7.8	7.9	7.8	7.85	
D.O. Saturation (%)	110.0	111.1	112.1	107.5	116.8	108.2	110.95	-
D.O. (mg/L)	7.8	8.0	8.1	7.7	8.3	7.7	7.91	7.99
Turbidity (NTU)	18.5	18.1	28.4	27.8	29.2	29.8	25.30	-
SS (mg/L)	8.0	8.0	26.0	26.0	28.0	28.0	20.67	-
Remarks		Dr	edging work	s and brown	ish water co	lor were obs	erved.	

Station			MI	PB2						
Time (hh:mm)										
Water Depth (m)			g	.3						
Monitoring Depth (m)	1	.0	4	.7	8	.3				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	21.7	21.8	21.2	21.3	20.9	20.8	21.28	-		
Salinity (ppt)	38.6	38.3	38.8	39.1	40.3	40.0	39.20	-		
pH	7.8	7.8	7.8	7.8	7.9	7.9	7.81			
D.O. Saturation (%)	115.8	120.7	116.4	122.6	125.4	121.1	120.33	-		
D.O. (mg/L)	8.1	8.5	8.2	8.7	8.9	8.6	8.49	8.71		
Turbidity (NTU)	7.7	8.2	19.2	19.9	39.2	35.2	21.57	-		
SS (mg/L)	8.0	8.0	8.0	10.0	10.0	11.0	9.17	-		
Remarks		Dredging works and brownish water color were observed.								

Station			N	/IP				
Time (hh:mm)				1				
Water Depth (m)								
Monitoring Depth (m)	1	.0	3	3.1	5	.2		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.9	21.5	21.1	20.0	21.5	20.1	21.00	-
Salinity (ppt)	37.9	37.9	38.0	39.4	37.9	38.6	38.28	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88	
D.O. Saturation (%)	105.5	106.8	106.2	105.8	105.8	114.9	107.50	-
D.O. (mg/L)	7.4	7.6	7.6	7.6	7.5	8.3	7.66	7.90
Turbidity (NTU)	12.0	13.4	28.7	31.3	43.1	40.1	28.10	-
SS (mg/L)	12.0	11.0	18.0	19.0	41.0	40.0	23.50	-
Remarks		Dr	edging work	s and brown	ish water co	lor were obs	served.	

Compliance with Action ar	ia Limit Lev	<u>'eı</u>												
Parameter	As in	EM&A	C2*1	C2*130%		IMO1		IMO2		MPB1		MPB2		ΙP
	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)	4.2	4.0	8.2	8.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.1	8.1	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	16.4	NA	Υ	NA	Υ	NA	Υ	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	17.1	17.1	N	N	N	N	N	N	Ν	N	N	N

Sampling Date	12/27/07
Weather & Ambient Temperature	Sunny, 19C

Station			C1 (NM3)							
Time (hh:mm)			8:52	:-8:55							
Water Depth (m)			15	5.8							
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)	21.0	21.0	21.4	21.0	20.9	19.8	20.85	-			
Salinity (ppt)	38.3	38.1	38.0	38.2	38.8	39.7	38.50	-			
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.11				
D.O. Saturation (%)	115.4	119.6	116.7	122.3	119.3	124.3	119.60	-			
D.O. (mg/L)	8.2	8.5	8.3	8.7	8.5	9.0	8.54	8.74			
Turbidity (NTU)	13.9	12.7	37.3	32.4	47.4	51.4	32.52	-			
SS (mg/L)	14.0	14.0	15.0	15.0	54.0	56.0	28.00	-			
Remarks		Dredging works was observed.									

Station			C3 (NM6)							
Time (hh:mm)			10:15	-10:17							
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)	21.1	21.1	20.9	20.0	21.4	21.0	20.89	-			
Salinity (ppt)	38.6	38.2	38.7	39.1	38.3	38.1	38.50	-			
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.02				
D.O. Saturation (%)	110.7	111.7	110.7	113.5	111.5	114.9	112.17	-			
D.O. (mg/L)	7.9	8.0	7.9	8.2	7.9	8.2	8.00	8.05			
Turbidity (NTU)	16.2	15.9	24.8	26.8	34.2	34.3	25.37	-			
SS (mg/L)	15.0	16.0	22.0	23.0	24.0	24.0	20.67	-			
Remarks		Dredging works was observed.									

Station			IM	101			Co-ordinate	s			
Time (hh:mm)			9:21	-9:24			Northing	Easting			
Water Depth (m)			11	1.6			22.21.391	113.54.327			
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)	20.9	20.9	20.9	21.0	20.9	21.5	21.01	-			
Salinity (ppt)	37.8	38.2	38.3	37.7	38.1	37.1	37.85	-			
pH	8.0	8.0	8.0	8.0	8.0	7.9	7.96				
D.O. Saturation (%)	104.1	103.3	102.0	102.8	102.7	108.0	103.82	-			
D.O. (mg/L)	7.5	7.4	7.3	7.4	7.3	7.7	7.41	7.51			
Turbidity (NTU)	11.5	11.7	28.8	25.5	75.5	70.2	37.20	-			
SS (mg/L)	12.0	13.0	17.0	18.0	66.0	70.0	32.67	-			
Remarks		Dredging works was observed.									

Station			IIV	02			Co-ordinates				
Time (hh:mm)			9:13	-9:16			Northing	Easting			
Water Depth (m)			g	.2			22.21.085	113.54.512			
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)	21.0	20.9	20.0	20.9	21.5	21.0	20.87	-			
Salinity (ppt)	37.2	37.6	38.1	37.5	37.1	37.2	37.43	-			
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.97				
D.O. Saturation (%)	107.9	106.5	110.6	106.8	106.6	111.4	108.30	-			
D.O. (mg/L)	7.7	7.6	8.0	7.7	7.6	8.0	7.77	7.79			
Turbidity (NTU)	25.0	24.3	47.9	43.0	67.1	68.5	45.97	-			
SS (mg/L)	16.0	16.0	29.0	30.0	56.0	56.0	33.83	-			
Remarks	Dredging works was observed.										

Station			MF								
Time (hh:mm)			9:45								
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)	20.9	21.0	20.9	20.9	21.0	20.9	20.94	-			
Salinity (ppt)	38.5	37.4	37.3	38.3	37.0	37.8	37.73	-			
pH	7.9	7.9	7.9	7.9	7.9	8.0	7.94				
D.O. Saturation (%)	103.3	104.4	103.7	102.6	110.9	102.9	104.63	-			
D.O. (mg/L)	7.4	7.5	7.4	7.3	8.0	7.4	7.49	7.66			
Turbidity (NTU)	12.7	13.1	23.1	22.3	73.8	78.1	37.18	-			
SS (mg/L)	12.0	13.0	19.0	19.0	35.0	35.0	22.17	-			
Remarks		Dredging works and brownish water color were observed.									

Station			MP								
Time (hh:mm)			9:55	-9:59							
Water Depth (m)			8								
Monitoring Depth (m)	1.	.0	4	.5							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	21.0	20.9	20.9	21.0	20.9	20.1	20.78	-			
Salinity (ppt)	38.0	38.3	38.3	37.9	38.3	38.6	38.22	-			
pH	8.0	8.0	8.0	8.0	8.0	7.9	7.96				
D.O. Saturation (%)	103.4	102.2	102.8	104.3	103.2	113.1	104.83	-			
D.O. (mg/L)	7.4	7.3	7.3	7.5	7.4	8.2	7.51	7.78			
Turbidity (NTU)	17.7	17.2	44.1	45.5	88.0	92.8	50.88	-			
SS (mg/L)	14.0	14.0	36.0	35.0	64.0	70.0	38.83	-			
Remarks		Dredging works and brownish water color were observed.									

Station			N	IP .						
Time (hh:mm)			9:36	-9:38						
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)	20.8	20.9	-	-	19.9	20.9	20.63	-		
Salinity (ppt)	37.3	37.1	-	-	37.9	37.3	37.39	-		
pH	7.9	7.9	-	-	7.9	7.9	7.93			
D.O. Saturation (%)	103.1	104.0	-	-	108.6	103.6	104.83	-		
D.O. (mg/L)	7.4	7.5	-	-	7.9	7.4	7.56	7.68		
Turbidity (NTU)	80.2	80.8	-	-	86.1	87.2	83.58	-		
SS (mg/L)	50.0	50.0	-	-	134.0	124.0	89.50	-		
Remarks	Dredging works and brownish water color were observed.									

	Compliance	with	Action	and	Limit	Level
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Parameter	As in	EM&A	Mean(C1-	+C3)*130%	IM	01	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)	4.2	4.0	8.4	8.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.3	8.3	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	37.6	NA	N	NA	Y	NA	N	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	31.6	31.6	Υ	N	Υ	N	N	N	Υ	Υ	Υ	Y

Sampling Date	12/28/07
Weather & Ambient Temperature	Fine, 24C

Station			C2 (NM5)			1	
Time (hh:mm)			<u> </u>	-15:07				
Water Depth (m)								
Monitoring Depth (m)	1	.0	10).2	19	9.3	1	
Trial	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	21.2	21.3	21.4	21.17	-			
Salinity (ppt)	40.0	38.7	41.5	40.0	42.7	39.9	40.47	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.98	
D.O. Saturation (%)	109.9	113.8	114.6	116.0	114.7	117.1	114.35	-
D.O. (mg/L)	7.7	8.1	7.9	8.1	8.1	8.2	8.02	8.16
Turbidity (NTU)	13.4	13.1	14.70	-				
SS (mg/L)	8.0	8.0	10.0	9.33	-			
Remarks			D	redging wor	ks was obse	rved.	•	

Station			IM	01			Co-or	dinates
Time (hh:mm)			14:28	-14:30			Northing	Easting
Water Depth (m)			22.21.367	113.54.236				
Monitoring Depth (m)	1	.0	5	.6	10).2		•
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.2	21.2	21.7	21.7	21.1	21.0	21.33	-
Salinity (ppt)	36.4	38.0	38.8	38.3	37.8	39.5	38.13	-
pH	7.9	7.9	7.9	7.9	7.9	8.0	7.91	
D.O. Saturation (%)	106.1	107.0	108.3	109.9	111.6	108.5	108.57	-
D.O. (mg/L)	7.6	7.6	7.6	7.7	8.0	7.67	7.70	7.81
Turbidity (NTU)	8.3	8.7	14.15	-				
SS (mg/L)	9.0	8.0	13.0	11.33	-			
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ore	dinates
Time (hh:mm)			14:19	-14:22			Northing	Easting
Water Depth (m)			22.20.994	113.54.319				
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)	21.4	21.5	20.0	19.9	20.0	19.8	20.43	-
Salinity (ppt)	36.4	37.1	38.2	39.6	38.2	40.3	38.28	-
pH	7.9	7.9	7.9	7.9	7.9	8.0	7.90	
D.O. Saturation (%)	109.1	110.5	115.2	112.9	117.5	113.9	113.18	-
D.O. (mg/L)	7.8	7.9	8.4	8.2	8.5	8.20	8.15	8.37
Turbidity (NTU)	7.9	7.0	11.65	-				
SS (mg/L)	8.0	7.0	11.50	-				
Remarks			D	redging wor	ks was obse	rved.		

Station			MF	PB1			1	
Time (hh:mm)			14:38	-14:40				
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)	21.3	21.4	21.1	21.1	21.1	21.0	21.16	-
Salinity (ppt)	36.3	36.1	37.1	36.7	37.6	38.0	36.97	-
pH	7.9	7.9	7.9	7.9	8.0	8.0	7.91	
D.O. Saturation (%)	106.0	106.7	106.9	108.9	110.2	106.6	107.55	-
D.O. (mg/L)	7.6	7.7	7.7	7.8	7.9	7.6	7.70	7.74
Turbidity (NTU)	8.5	8.5	18.20	-				
SS (mg/L)	8.0	9.0	15.0	11.00	-			
Remarks			D	redging worl	ks was obse	rved.		•

Station			MI	PB2								
Time (hh:mm)			14:10	-14:12								
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)	22.0	21.5	21.1	21.2	19.7	21.6	21.17	-				
Salinity (ppt)	35.9	36.4	37.6	37.6	40.3	39.1	37.80	-				
pH	7.8	7.8	7.8	7.8	7.9	7.9	7.82					
D.O. Saturation (%)	113.1	115.5	116.9	118.7	120.6	122.3	117.85	-				
D.O. (mg/L)	8.0	8.3	8.4	8.5	8.7	8.6	8.40	8.64				
Turbidity (NTU)	11.4	12.0	18.63	-								
SS (mg/L)	10.0	10.0 10.0 19.0 17.0 24.0 20.0 16.67										
Remarks				redging wor	ks was obse	rved.						

Station			IV	IP				
Time (hh:mm)			14:48	-14:49				
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-	Bottom
							averaged	
Water Temperature (°C)	21.4	20.2	-	-	21.1	21.1	20.94	-
Salinity (ppt)	37.7	38.7	-	-	38.4	38.5	38.30	-
pH	7.9	7.9	-	-	7.9	7.9	7.91	
D.O. Saturation (%)	108.3	111.1	-	-	112.9	109.0	110.33	-
D.O. (mg/L)	7.7	8.0	-	-	8.0	7.7	7.87	7.88
Turbidity (NTU)	10.5	10.5	12.45	-				
SS (mg/L)	11.0	9.0	10.75	-				
Remarks			D	redging wor	ks was obse	rved.		

Compliance with Action ar	id Limit Lev	<u>/el</u>														
Parameter	As in	EM&A	C2*1	C2*130%		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)	4.2	4.0	8.2	8.2	N	N	N	N	N	N	N	N	N	N		
DO (Depth-averaged)	3.3	2.5	8.0	8.0	N	N	N	N	N	N	N	N	N	N		
Turbidity (Depth-averaged)	NA	NA	19.1	NA	N	NA	N	NA	N	NA	N	NA	N	NA		
SS (Depth-averaged)	24.0	37.0	12.1	12.1	N	N	N	N	N	N	N	N	N	N		

Sampling Date	12/28/07
Weather & Ambient Temperature	Sunny, 21C
-	-

Station			C1 (
Time (hh:mm)			10:53					
Water Depth (m)			16					
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)	21.2	21.2	21.1	21.1	21.1	21.0	21.13	-
Salinity (ppt)	37.0	37.7	37.8	37.1	37.3	38.0	37.47	-
pH	8.0	8.0	8.0	8.0	8.1	8.1	8.04	
D.O. Saturation (%)	121.1	116.9	118.6	123.7	125.9	119.8	121.00	-
D.O. (mg/L)	8.7	8.3	8.5	8.9	9.0	8.5	8.64	8.77
Turbidity (NTU)	14.2	14.8	15.6	15.9	16.5	16.4	15.57	-
SS (mg/L)	21.0	19.0	31.0	19.0	23.00	-		
Remarks				Dredo	jing works w	as observed.		

Station			C3 (
Time (hh:mm)			12:10					
Water Depth (m)			6	5.8				
Monitoring Depth (m)	1	.0	3	3.4	5	.8		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.3	21.3	19.8	21.1	21.1	21.0	20.93	-
Salinity (ppt)	39.6	39.1	41.1	39.5	39.5	39.8	39.76	-
pH	8.0	8.0	8.1	8.0	8.0	8.1	8.04	
D.O. Saturation (%)	115.6	116.8	117.5	117.0	118.3	115.9	116.85	-
D.O. (mg/L)	8.1	8.3	8.4	8.3	8.4	8.2	8.27	8.27
Turbidity (NTU)	11.8	12.0	14.2	14.7	18.4	18.5	14.93	-
SS (mg/L)	15.0	13.0	22.0	15.0	16.67	-		
Remarks			•	Dredg	ing works w	as observed.		

Station			IM	101			Co-ordinate	s
Time (hh:mm)			11:20	-11:23			Northing	Easting
Water Depth (m)			10		22.21.361	113.54.270		
Monitoring Depth (m)	1	.0	5	.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.2	21.1	21.6	21.0	21.0	21.0	21.15	-
Salinity (ppt)	37.8	38.3	38.0 38.0 38.0 38.6		38.6	38.12	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90	
D.O. Saturation (%)	107.9	106.7	105.9	107.5	108.7	106.5	107.20	-
D.O. (mg/L)	7.7	7.6	7.5	7.7	7.8	7.6	7.63	7.67
Turbidity (NTU)	8.3	8.9	11.4	11.6	22.9	22.8	14.32	-
SS (mg/L)	16.0 16.0 16.0 15.0 15.0 15.0						15.50	-
Remarks				Dredo	ina works w	as observed.		

Station			IM	02			Co-ordinate	s		
Time (hh:mm)			11:14	-11:15			Northing	Easting		
Water Depth (m)			9		22.21.055	113.54.462				
Monitoring Depth (m)	1	.0	4	.8	8	.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	21.2	21.2	19.8	21.1	21.1	19.8	20.71	-		
Salinity (ppt)	38.2	37.0	39.3	36.9	36.8	39.4	37.92	-		
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.91			
D.O. Saturation (%)	110.9	111.9	112.3	112.6	113.4	113.0	112.35	-		
D.O. (mg/L)	7.9	8.0	8.1	8.1	8.1	8.2	8.06	8.15		
Turbidity (NTU)	19.6	19.8	25.3	25.4	26.6	26.1	23.80	-		
SS (mg/L)	18.0	18.0	30.0	23.0	30.0	30.0	24.83	-		
Remarks		Dredging works was observed.								

Station			MF	PB1					
Time (hh:mm)			11:43						
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)	21.3	21.3	21.1	19.7	21.0	21.1	20.92	-	
Salinity (ppt)	37.3	36.7	36.9	38.5	37.3	37.1	37.29	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.86		
D.O. Saturation (%)	103.4	104.1	103.5	104.7	103.9	108.3	104.65	-	
D.O. (mg/L)	7.4	7.5	7.4	7.6	7.5	7.8	7.51	7.60	
Turbidity (NTU)	9.5	9.2	15.1	15.6	24.5	24.4	16.38	-	
SS (mg/L)	9.0	10.0	16.0	14.0	22.0	21.0	15.33	-	
Remarks		Dredging works was observed.							

Station			MF	B2						
Time (hh:mm)			11:52	-11;54						
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-averaged	Bottom		
Water Temperature (°C)	21.2	21.1	21.6	21.6	21.5	21.0	21.33	-		
Salinity (ppt)	37.4	37.2	36.4	37.5	37.7	38.3	37.42	-		
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90			
D.O. Saturation (%)	104.3	104.4	104.1	103.8	108.6	104.8	105.00	-		
D.O. (mg/L)	7.5	7.5	7.4	7.4	7.7	7.5	7.48	7.58		
Turbidity (NTU)	10.7	11.0	14.5	14.0	28.5	27.2	17.65	-		
SS (mg/L)	10.0	12.0	12.0	12.0	18.0	19.0	13.83	-		
Remarks		Dredging works was observed.								

Station			N	IP				
Time (hh:mm)			11:34	-11:36				
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)	21.2	21.8	-	-	20.9	21.0	21.21	-
Salinity (ppt)	36.4	35.7	-	-	38.1	38.2	37.09	-
pH	7.8	7.8	-	-	7.9	7.9	7.88	
D.O. Saturation (%)	107.2	107.7	-	-	109.7	115.0	109.90	-
D.O. (mg/L)	7.7	7.7	-	-	7.8	8.2	7.85	8.02
Turbidity (NTU)	11.1	11.6	-	-	34.9	35.3	23.23	-
SS (mg/L)	11.0	17.0	-	-	16.0	11.0	13.75	-
Remarks		•		Dredging	g works was	observed.		

Compilation with Atomorran	ingulated with Action and Emilit Ecro													
Parameter	As in	EM&A	Mean(C1+	+C3)*130%	IMO1 IMO2			MPB1	MPB2		MP			
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance of Action 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)	4.2	4.0	8.5	8.5	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.5	8.5	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	19.8	NA	N	NA	Y	NA	N	NA	N	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	25.8	25.8	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/29/07
Weather & Ambient Temperature	Cloudy, 19C

Station			C2 (NM5)			1	
Time (hh:mm)			16:10	-16:12				
Water Depth (m)			20	0.1				
Monitoring Depth (m)	1	.0	10	0.1	19	9.1		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	21.1	21.1	21.0	21.0	21.0	21.1	21.04	-
Salinity (ppt)	41.3	41.2	41.8	41.9	41.8	41.5	41.59	-
pH	8.0	8.0	8.1	8.1	8.1	8.1	8.04	
D.O. Saturation (%)	110.9	111.0	110.9	110.5	111.0	112.2	111.08	-
D.O. (mg/L)	7.8	7.8	7.7	7.7	7.8	7.8	7.76	7.79
Turbidity (NTU)	8.7	9.0	14.9	14.9	15.1	15.7	13.05	-
SS (mg/L)	9.0	8.0	9.0	8.0	7.0	7.0	8.00	-
Remarks			D	redging wor	ks was obse	rved.		

Station			INA	101			Coor	dinates
Station			IIV	IU I			C0-010	
Time (hh:mm)			Northing	Easting				
Water Depth (m)			10	0.5			22.21.367	113.54.121
Monitoring Depth (m)	1	.0	5	.3	9	.5		-
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	21.1	21.2	21.2	21.1	19.9	21.2	20.94	-
Salinity (ppt)	40.3	40.1	40.4	40.5	42.1	40.5	40.64	-
pH	8.0	8.0	8.0	8.0	8.1	8.0	8.02	
D.O. Saturation (%)	113.7	114.9	116.5	114.6	116.3	119.7	115.95	-
D.O. (mg/L)	8.0	8.1	8.2	8.1	8.3	8.39	8.16	8.33
Turbidity (NTU)	21.9	21.8	16.6	16.3	19.7	19.1	19.23	-
SS (mg/L)	18.0	18.0	21.0	20.0	44.0	44.0	27.50	-
Remarks		Dr	edging work	s and brown	ish water co	lor were obs	erved.	

Station			IM	02			Co-ord	dinates
Time (hh:mm)				Northing	Easting			
Water Depth (m)			8	.9			22.21.000	113.54.275
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)	21.0	21.1	21.0	21.0	21.0	21.0	21.01	-
Salinity (ppt)	40.8	40.8	41.3	41.4	41.4	41.3	41.15	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.03	
D.O. Saturation (%)	113.1	112.1	113.3	112.1	112.3	115.1	113.00	-
D.O. (mg/L)	7.9	7.9	7.9	7.8	7.9	8.06	7.92	7.96
Turbidity (NTU)	7.4	7.9	11.8	10.9	14.1	14.5	11.10	-
SS (mg/L)	9.0	7.0	12.0	9.0	8.0	8.0	8.83	-
Remarks		•	D	redging wor	ks was obse	rved.	•	-

Station			MF	PB1			1	
Time (hh:mm)								
Water Depth (m)			8	3.6				
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)	19.9	21.0	21.0	19.9	21.7	21.1	20.77	-
Salinity (ppt)	39.6	38.7	38.8	39.6	39.2	40.2	39.38	-
pH	8.0	8.0	8.0	8.0	8.0	8.1	7.98	
D.O. Saturation (%)	116.5	113.8	114.8	118.0	119.5	115.5	116.35	-
D.O. (mg/L)	8.4	8.1	8.2	8.5	8.4	8.1	8.27	8.25
Turbidity (NTU)	9.3	9.3	11.5	11.8	22.0	22.2	14.35	-
SS (mg/L)	9.0	11.0	11.0	13.0	10.0	11.0	10.83	-
Remarks			D	redging worl	ks was obse	rved.		•

Station			MF	PB2			1	
Time (hh:mm)								
Water Depth (m)			9	.2				
Monitoring Depth (m)	1	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)	21.0	21.1	21.1	21.2	21.2	21.6	21.19	
Salinity (ppt)	37.5	37.0	37.7	37.4	37.9	38.5	37.65	-
pH	7.9	7.9	8.0	8.0	8.0	8.0	7.97	
D.O. Saturation (%)	119.7	121.3	121.9	123.1	127.4	120.6	122.33	-
D.O. (mg/L)	8.6	8.7	8.7	8.8	9.1	8.5	8.72	8.79
Turbidity (NTU)	12.0	12.2	9.4	9.3	13.7	13.1	11.62	-
SS (mg/L)	14.0	14.0	16.0	13.0	11.0	9.0	12.83	-
Remarks			D	redging wor	ks was obse	rved.		

Station			N	IP			1		
Time (hh:mm)									
Water Depth (m)			6	.2					
Monitoring Depth (m)	1	.0	3	.1	5	.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	
							averaged		
Water Temperature (°C)	21.0	21.0	19.9	21.0	21.2	21.0	20.86	-	
Salinity (ppt)	38.8	38.7	39.7	38.8	38.2	38.9	38.86	-	
pH	8.0	7.9	7.9	8.0	7.9	8.0	7.94		
D.O. Saturation (%)	111.1	111.3	113.4	111.2	118.2	111.3	112.75	-	
D.O. (mg/L)	7.9	7.9	8.2	7.9	8.4	7.9	8.03	8.15	
Turbidity (NTU)	16.4	16.0	17.9	17.2	18.4	18.1	17.33	-	
SS (mg/L)	15.0	17.0	16.0	14.0	15.0	18.0	15.83	-	
Remarks		Dredging works was observed.							

Compliance with Action an	ia Limit Lev	<u>'ei</u>												
Parameter	As in	EM&A	C2*1	30%	IM	101	IM	02		MPB1	MF	PB2	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)	4.2	4.0	7.8	7.8	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	7.8	7.8	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	17.0	NA	Υ	NA	N	NA	N	NA	N	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	10.4	10.4	Υ	N	N	N	N	N	N	N	N	N

Sampling Date	12/29/07
Weather & Ambient Temperature	Sunny, 19C

Station			C1 (NM3)							
Time (hh:mm)			11:28	-11:30							
Water Depth (m)			16	5.1							
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)	21.2	21.2	21.2	21.2	21.1	21.2	21.19	-			
Salinity (ppt)	38.8	39.4	40.1	39.2	39.5	41.3	39.71	-			
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.00				
D.O. Saturation (%)	122.3	124.4	124.48	-							
D.O. (mg/L)	8.7	8.8	8.8	8.77	8.83						
Turbidity (NTU)	6.0	5.7	9.5	9.4	14.7	14.2	9.92	-			
SS (mg/L)	6.0	8.0	8.0	9.0	9.0	9.0	8.17	-			
Remarks		Dredging works was observed.									

Station			C3 (
Time (hh:mm)			12:47							
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)	21.0	21.0	20.9	21.0	21.1	21.0	21.00	-		
Salinity (ppt)	38.7	38.6	38.8	38.7	38.9	39.0	38.78	-		
pH	8.0	8.0	8.0	8.0	8.0	8.0	7.95			
D.O. Saturation (%)	110.3	110.9	110.3	111.8	113.3	110.9	111.25	-		
D.O. (mg/L)	7.8	7.9	7.8	7.9	8.0	7.9	7.90	7.96		
Turbidity (NTU)	19.2	19.0	23.5	23.6	28.2	28.9	23.73	-		
SS (mg/L)	13.0	15.0	14.0	14.0	21.0	20.0	16.17	-		
Remarks		Dredging works was observed.								

Station			IM	Co-ordinate	s										
Time (hh:mm)			11:56	-11:59			Northing	Easting							
Water Depth (m)			10	0.6			22.21.374	113.54.221							
Monitoring Depth (m)	1	.0	5	i.3	9	.6									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom							
Water Temperature (°C)	21.0	21.6	21.6	21.6	21.1	21.2	21.33	-							
Salinity (ppt)	38.4	37.5	38.1	37.6	38.8	38.1	38.05	-							
pH	7.9	7.9	7.9	7.9	8.0	7.9	7.94								
D.O. Saturation (%)	109.6	109.4	108.0	109.4	109.4	117.6	110.57	-							
D.O. (mg/L)	7.8	7.8	7.6	7.8	7.8	8.4	7.85	8.07							
Turbidity (NTU)	10.3	10.2	19.1	20.7	37.4	37.9	22.60	-							
SS (mg/L)	9.0	9.0	11.0	11.0	18.0	19.0	12.83	-							
Remarks				Dredo	Dredging works was observed.										

Station			IM	02			Co-ordinate	s
Time (hh:mm)			11:49	Northing	Easting			
Water Depth (m)			8	.7			22.21.041	113.54.337
Monitoring Depth (m)	1	.0	4	.4	7	7.7		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.1	21.1	21.1	21.1	20.0	21.1	20.92	-
Salinity (ppt)	37.4	37.7	37.8	37.5	38.1	37.8	37.71	-
pH	7.9	8.0	8.0	7.9	7.9	7.9	7.94	
D.O. Saturation (%)	115.8	113.6	113.0	114.6	120.1	114.2	115.22	-
D.O. (mg/L)	8.3	8.1	8.1	8.2	8.7	8.1	8.25	8.44
Turbidity (NTU)	6.5	6.9	15.6	15.7	36.7	35.5	19.48	-
SS (mg/L)	7.0	9.0	8.0	9.0	8.0	10.0	8.50	-
Remarks				Dredo	jing works w	as observed.	•	•

Station			MF	PB1						
Time (hh:mm)			12:19							
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)	21.0	21.0	21.0	21.0	21.1	21.0	20.99	-		
Salinity (ppt)	38.3	38.5	38.4	38.6	38.3	38.8	38.47	-		
pH	7.9	8.0	7.9	8.0	7.9	8.0	7.94			
D.O. Saturation (%)	111.2	110.5	111.4	109.8	115.6	110.2	111.45	-		
D.O. (mg/L)	7.9	7.9	7.9	7.8	8.2	7.8	7.94	8.03		
Turbidity (NTU)	11.1	11.9	15.6	15.8	26.1	26.2	17.78	-		
SS (mg/L)	13.0	12.0	10.0	10.0	12.0	13.0	11.67	-		
Remarks		Dredging works and brownish water color were observed.								

Station			MF	PB2							
Time (hh:mm)			12:30								
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)	19.8	21.0	21.0	20.9	21.0	21.1	20.78	-			
Salinity (ppt)	39.7	38.5	38.7	38.8	39.1	39.0	38.97	-			
pH	7.9	7.9 7.9 7.9 8.0 8.0 8.0 7.95									
D.O. Saturation (%)	112.1	110.9	111.4	110.8	111.2	112.3	111.45	-			
D.O. (mg/L)	8.1	7.9	7.9	7.9	7.9	8.0	7.94	7.93			
Turbidity (NTU)	22.3	22.1	31.6	31.2	41.3	41.7	31.70	-			
SS (mg/L)	17.0	15.0	18.0	16.0	31.0	29.0	21.00	-			
Remarks		Dredging works and brownish water color were observed.									

Station		MP											
Time (hh:mm)			12:11										
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)	21.0	21.5	-	-	20.9	21.0	21.09	-					
Salinity (ppt)	37.6	37.3	-	-	38.2	37.8	37.75	-					
pH	7.9	7.9	-	-	8.0	7.9	7.94						
D.O. Saturation (%)	114.5	112.0	-	-	113.2	121.7	115.35	-					
D.O. (mg/L)	8.2	8.0	-	-	8.1	8.7	8.23	8.40					
Turbidity (NTU)	36.7	36.7	-	-	54.6	54.3	45.58	-					
SS (mg/L)	37.0	37.0	-	-	47.0	43.0	41.00	-					
Remarks		Dredging works and brownish water color were observed.											

Compliance w	ith Action	and I imit	Level

Compliance with Action an	a = =0 · ·	-												
Parameter	As in	EM&A	Mean(C1-	ean(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)	4.2	4.0	8.4	8.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.3	8.3	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	21.9	NA	Y	NA	N	NA	N	NA	Υ	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	15.8	15.8	N	N	N	N	N	N	N	N	Υ	Υ

Sampling Date	12/30/07
Weather & Ambient Temperature	Fine, 18C

Station			C2 (NM5)			1	
Time (hh:mm)								
Water Depth (m)			20).2				
Monitoring Depth (m)	1	.0	9.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	20.8	20.8	20.8	20.8	20.8	20.7	20.77	-
Salinity (ppt)	39.0	39.1	39.2	39.1	39.1	39.3	39.13	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.10	
D.O. Saturation (%)	118.2	119.7	120.1	119.7	123.2	121.4	120.38	-
D.O. (mg/L)	8.4	8.5	8.6	8.5	8.8	8.7	8.57	8.71
Turbidity (NTU)	7.2	7.6	11.5	11.6	12.8	12.7	10.57	-
SS (mg/L)	9.0	11.0	9.0	9.0	14.0	12.0	10.67	-
Remarks		-	D	redging wor	ks was obse	rved.	•	

Station			IM	01			Co-ord	dinates	
Time (hh:mm)				Northing	Easting				
Water Depth (m)			10	0.4			22.21.367	113.54.236	
Monitoring Depth (m)	1	.0		-					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged Bottom 20,77 - 38,91 - 8.06 - 116.85 -		
							averaged		
Water Temperature (°C)	20.8	20.8	20.7	20.8	20.7	20.8	20.77	-	
Salinity (ppt)	38.9	39.0	38.9	39.0	38.9	38.9	38.91	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.06		
D.O. Saturation (%)	117.0	116.6	116.9	116.5	117.0	117.1	116.85	-	
D.O. (mg/L)	8.3	8.3	8.3	8.3	8.4	8.34	8.33	8.35	
Turbidity (NTU)	15.5	15.5	19.6	19.6	23.3	23.9	19.57	-	
SS (mg/L)	19.0	19.0	23.0	22.33	-				
Remarks			D	redging wor	ks was obse	rved.			

Station			IM	O2			Co-ord	dinates				
Time (hh:mm)			16:29	-16:32			Northing	Easting				
Water Depth (m)			8	.9			22.20.994	113.54.319				
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)	21.3	20.7	20.7	20.7	20.7	19.6	20.61	-				
Salinity (ppt)	38.0	38.3	38.2	38.5	38.5	39.2	38.44	-				
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.04					
D.O. Saturation (%)	118.2	120.1	120.3	119.0	119.5	122.2	119.88	-				
D.O. (mg/L)	8.4	8.6	8.6	8.5	8.6	8.89	8.60	8.72				
Turbidity (NTU)	15.2	15.7	19.6	19.9	21.3	22.2	18.98	-				
SS (mg/L)	6.0	8.0	10.50	-								
Remarks		Dredging works was observed.										

Station			MF	PB1			1	
Time (hh:mm)			15:59	-16:01				
Water Depth (m)								
Monitoring Depth (m)	1	.0	4	.2	7	.3		
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	20.8	20.8	20.8	20.8	20.9	19.9	20.65	-
Salinity (ppt)	38.6	39.0	38.8	39.1	39.1	39.6	39.02	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.05	
D.O. Saturation (%)	115.4	114.5	115.9	114.2	114.3	120.4	115.78	-
D.O. (mg/L)	8.2	8.2	8.3	8.1	8.1	8.7	8.27	8.41
Turbidity (NTU)	10.4	10.7	16.5	16.1	26.1	26.6	17.73	-
SS (mg/L)	10.0	14.0	19.0	14.67	-			
Remarks			D	redging worl	ks was obse	rved.		

Station			MF	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			
	00.0	00.0	40.0	00.0	04.4	24.0	averaged				
Water Temperature (°C)	20.8	20.8	19.6	20.8	21.1	21.3	20.74	-			
Salinity (ppt)	40.0	40.5	41.9	40.1	39.7	40.1	40.38	-			
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.08				
D.O. Saturation (%)	116.9	115.7	117.2	117.4	120.0	115.4	117.10	-			
D.O. (mg/L)	8.3	8.2	8.4	8.3	8.5	8.1	8.28	8.28			
Turbidity (NTU)	7.6	7.5	11.9	11.7	13.6	13.8	11.02	-			
SS (mg/L)	8.0	8.0 10.0 12.0 11.0 14.0 13.0 11.33									
Remarks		Dredging works was observed.									

Station			N	/IP							
Time (hh:mm)			16:09	-16:11							
Water Depth (m)			6	5.2							
Monitoring Depth (m)	1	.0	3	3.1	5	.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom			
							averaged				
Water Temperature (°C)	19.3	20.5	20.4	20.3	20.3	20.5	20.21	-			
Salinity (ppt)	39.1	37.9	38.0	38.1	38.2	38.0	38.19	-			
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.03				
D.O. Saturation (%)	118.9	117.2	117.3	117.8	117.5	117.6	117.72	-			
D.O. (mg/L)	8.7	8.5	8.5	8.5	8.5	8.5	8.51	8.48			
Turbidity (NTU)	35.5	35.2	41.8	41.5	43.1	43.9	40.17	-			
SS (mg/L)	34.0	41.0	36.0	37.0	40.0	39.0	37.83	-			
Remarks		Dredging works was observed.									

Compliance with Action ar	id Limit Lev	<u>rel</u>												
Parameter	As in	EM&A	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)	4.2	4.0	8.7	8.7	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.6	8.6	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	13.7	NA	Υ	NA	Υ	NA	Y	NA	N	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	13.9	13.9	N	N	N	N	N	N	N	N	Υ	Υ

Sampling Date	12/30/07
Weather & Ambient Temperature	Sunny, 17C

Station			C1 (NM3)							
Time (hh:mm)			11:48								
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)	19.7	20.8	20.8	20.8	20.8	20.7	20.59	-			
Salinity (ppt)	40.0	39.1	38.9	39.4	40.0	39.0	39.40	-			
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.08				
D.O. Saturation (%)	125.7	126.8	124.8	127.0	128.1	125.7	126.35	-			
D.O. (mg/L)	9.1	9.0	8.9	9.0	9.1	9.0	9.01	9.02			
Turbidity (NTU)	7.6	7.1	10.1	10.5	13.0	13.1	10.23	-			
SS (mg/L)	26.0	25.0	22.0	16.0	21.17	-					
Remarks		Dredging works was observed.									

Station			C3 (NM6)								
Time (hh:mm)			13:07									
Water Depth (m)			6									
Monitoring Depth (m)	1	.0	3	.3	5	.5						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	20.6	21.0	20.6	20.4	20.6	20.5	20.61	-				
Salinity (ppt)	39.9	39.7	40.0	40.3	40.2	40.2	40.02	-				
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.10					
D.O. Saturation (%)	125.1	122.6	126.0	123.1	129.2	123.6	124.93	-				
D.O. (mg/L)	8.9	8.7	9.0	8.8	9.2	8.8	8.87	8.98				
Turbidity (NTU)	9.7	9.5	10.4	10.5	12.1	12.2	10.73	-				
SS (mg/L)	12.0	11.0	16.0	15.0	19.0	18.0	15.17	-				
Remarks		Dredging works was observed.										

Station			IM	101			Co-ordinate	s			
Time (hh:mm)			12:17	'-12:19			Northing	Easting			
Water Depth (m)			10		22.20.590	113.53.787					
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)	19.7	20.8	19.7	20.8	20.9	20.8	20.44	-			
Salinity (ppt)	39.8	38.5	39.5	38.7	38.4	38.7	38.94	-			
pH	8.1	8.0	8.0	8.1	8.0	8.0	8.04				
D.O. Saturation (%)	118.4	117.9	119.9	116.8	122.5	116.9	118.73	-			
D.O. (mg/L)	8.6	8.4	8.7	8.3	8.7	8.3	8.52	8.54			
Turbidity (NTU)	18.8	18.4	19.7	18.2	20.0	21.1	19.37	-			
SS (mg/L)	19.0	19.0	21.0	18.0	26.0	25.0	21.33	-			
Remarks		Dredging works was observed.									

Station			IM	02			Co-ordinate	s			
Time (hh:mm)			12:09	-12:12			Northing	Easting			
Water Depth (m)			8		22.21.032	113.54.227					
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)	21.3	20.7	20.8	20.8	20.7	20.8	20.84	-			
Salinity (ppt)	37.3	38.0	37.9	37.7	37.8	37.7	37.70	-			
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.03				
D.O. Saturation (%)	121.4	121.5	121.5	122.5	122.1	123.1	122.02	-			
D.O. (mg/L)	8.7	8.7	8.7	8.8	8.8	8.8	8.75	8.80			
Turbidity (NTU)	15.7	15.7	20.5	20.7	23.5	23.2	19.88	-			
SS (mg/L)	21.0	17.0	22.0	20.0	25.0	26.0	21.83	-			
Remarks		Dredging works was observed.									

Station			MF	PB1				
Time (hh:mm)			12:40	-12:42				
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)	19.6	20.7	21.3	19.6	20.7	20.7	20.42	-
Salinity (ppt)	39.4	38.2	37.9	39.6	38.6	38.5	38.68	-
pH	8.0	8.0	8.0	8.1	8.0	8.0	8.04	
D.O. Saturation (%)	116.7	116.1	115.1	116.4	115.6	116.6	116.08	-
D.O. (mg/L)	8.5	8.3	8.2	8.4	8.3	8.3	8.34	8.30
Turbidity (NTU)	9.7	9.6	14.3	14.9	27.2	27.2	17.15	-
SS (mg/L)	12.0	10.0	13.0	14.0	22.0	26.0	16.17	-
Remarks								

Station			MF	B2				
Time (hh:mm)			12:51	-12:52				
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)	20.8	20.9	20.8	20.7	20.8	20.9	20.80	-
Salinity (ppt)	39.6	39.2	39.4	39.9	39.7	39.3	39.50	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.07	
D.O. Saturation (%)	117.1	117.8	118.4	116.9	117.1	119.6	117.82	-
D.O. (mg/L)	8.3	8.4	8.4	8.3	8.3	8.5	8.36	8.40
Turbidity (NTU)	7.5	7.8	11.1	11.8	13.7	13.4	10.88	-
SS (mg/L)	8.0	9.0	10.0	11.0	14.0	14.0	11.00	-
Remarks				Dredging	g works was	observed.		

Station			N	IP				
Time (hh:mm)			12:31	-12:32				
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)	20.5	20.5	-	-	20.5	20.6	20.54	-
Salinity (ppt)	37.6	37.7	-	-	37.7	37.7	37.66	-
pH	8.0	8.0	-	-	8.0	8.0	8.00	
D.O. Saturation (%)	119.5	118.3	-	-	118.7	121.7	119.55	-
D.O. (mg/L)	8.6	8.5	-	-	8.6	8.8	8.62	8.66
Turbidity (NTU)	28.3	28.5	-	-	28.3	28.1	28.30	-
SS (mg/L)	39.0	38.0	50.0	44.75	-			
Remarks				Dredging	works was	observed.		

Compitative with Action and Elimit 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)	4.2	4.0	9.0	9.0	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	8.9	8.9	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	13.6	NA	Y	NA	Υ	NA	Υ	NA	N	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	23.6	23.6	N	N	N	N	N	N	N	N	Υ	Υ

Sampling Date	12/31/07
Weather & Ambient Temperature	Fine, 15C

Station			C2 (NM5)			1	
Time (hh:mm)			18:13	-18;16				
Water Depth (m)			20	0.1				
Monitoring Depth (m)	1	.0	9.1					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	20.0	19.0	20.0	20.0	19.0	20.5	19.75	-
Salinity (ppt)	39.0	40.2	39.0	39.2	40.0	38.6	39.31	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.18	
D.O. Saturation (%)	126.6	124.1	128.3	123.3	130.1	123.2	125.93	-
D.O. (mg/L)	9.1	9.1	9.3	8.9	9.5	8.8	9.12	9.18
Turbidity (NTU)	5.3	5.2	9.8	9.4	10.4	10.2	8.38	-
SS (mg/L)	8.0	7.0	10.17	-				
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	101			Co-ore	dinates
Time (hh:mm)			17:37	-17:39			Northing	Easting
Water Depth (m)				22.21.354	113.54.091			
Monitoring Depth (m)	1	.0	0.3		-			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	20.0	20.0	20.5	20.0	20.0	20.0	20.12	-
Salinity (ppt)	38.5	38.6	38.2	38.5	38.5	38.5	38.45	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.16	
D.O. Saturation (%)	121.9	121.7	121.0	122.0	122.2	122.0	121.80	-
D.O. (mg/L)	8.8	8.8	8.7	8.8	8.9	8.83	8.81	8.84
Turbidity (NTU)	3.6	3.6	3.5	3.8	3.9	3.7	3.68	-
SS (mg/L)	6.0	4.0	7.0	5.83	-			
Remarks			D	redging wor	ks was obse	rved.		

Station			IM	02			Co-ord	dinates
Time (hh:mm)			17:44	-17:47			Northing	Easting
Water Depth (m)				22.21.030	113.54.212			
Monitoring Depth (m)	1	.0						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	20.1	20.1	20.1	20.1	20.1	20.1	20.10	-
Salinity (ppt)	38.2	38.3	38.2	38.2	38.3	38.2	38.21	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.15	
D.O. Saturation (%)	123.7	124.0	124.9	123.8	124.0	125.1	124.25	-
D.O. (mg/L)	9.0	9.0	9.1	9.0	9.0	9.07	9.00	9.03
Turbidity (NTU)	3.8	3.9	4.1	4.2	4.2	4.2	4.07	-
SS (mg/L)	8.0	6.0	9.0	7.0	12.0	8.0	8.33	-
Remarks			D	redging wor	ks was obse	rved.		

Station			MF	PB1			1	
Time (hh:mm)			17:14	-17:16				
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)	19.0	18.9	20.1	20.0	20.2	20.0	19.71	-
Salinity (ppt)	39.7	39.8	38.6	38.8	38.6	38.8	39.05	-
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.13	
D.O. Saturation (%)	127.8	126.7	128.6	125.2	132.6	126.1	127.83	-
D.O. (mg/L)	9.4	9.3	9.3	9.1	9.6	9.1	9.28	9.34
Turbidity (NTU)	3.0	3.3	4.4	4.5	5.5	5.4	4.35	-
SS (mg/L)	5.0	6.0	6.0	7.17	-			
Remarks			D	redging worl	ks was obse	rved.		

Station			MI	PB2				
Time (hh:mm)			17:04	-17:07				
Water Depth (m)								
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)	19.8	19.9	19.9	20.0	19.0	19.9	19.76	-
Salinity (ppt)	39.0	38.9	39.0	38.8	39.9	39.0	39.10	-
pH	8.2	8.1	8.2	8.1	8.1	8.1	8.14	
D.O. Saturation (%)	124.3	126.2	124.1	127.2	132.1	125.4	126.55	-
D.O. (mg/L)	9.0	9.1	9.0	9.2	9.7	9.1	9.18	9.37
Turbidity (NTU)	7.9	8.0	9.7	9.6	12.2	12.4	9.97	-
SS (mg/L)	8.0	8.0	8.0	9.00	-			
Remarks			E	redging wor	ks was obse	rved.		

Station			IV	IP				
Time (hh:mm)			17:24	-17:26				
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)	20.0	20.4	-	-	19.9	20.5	20.18	-
Salinity (ppt)	37.8	37.4	-	-	38.0	37.5	37.69	-
pH	8.1	8.1	-	-	8.1	8.1	8.11	
D.O. Saturation (%)	124.3	123.0	-	-	123.8	127.1	124.55	-
D.O. (mg/L)	9.0	8.9	-	-	9.0	9.2	9.04	9.10
Turbidity (NTU)	8.1	8.4	-	-	9.2	9.2	8.73	-
SS (mg/L)	8.0	9.0	10.0	9.00	-			
Remarks		•		redging wor	ks was obse	rved.		

Compliance with Action an	ia Limit Lev	<u>'ei</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)	4.2	4.0	9.2	9.2	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	9.1	9.1	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	10.9	NA	N	NA	N	NA	N	NA	N	NA	N	NA
SS (Depth-averaged)	24.0	37.0	13.2	13.2	N	N	N	N	N	N	N	N	N	N

Sampling Date	12/31/07
Weather & Ambient Temperature	Sunny, 15C

Station			C1 (
Time (hh:mm)			12:07									
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)	19.0	20.0	20.1	20.0	20.0	20.0	19.87	-				
Salinity (ppt)	40.9	39.0	40.4	39.1	41.5	39.4	40.04	-				
pH	8.2	8.2	8.1	8.2	8.1	8.2	8.15					
D.O. Saturation (%)	132.3	130.2	131.2	130.6	133.3	131.2	131.47	-				
D.O. (mg/L)	9.6	9.4	9.4	9.4	9.5	9.5	9.46	9.47				
Turbidity (NTU)	5.5	5.3	7.5	7.3	10.1	10.7	7.73	-				
SS (mg/L)	7.0	9.0	10.0	10.83	-							
Remarks		Dredging works was observed.										

Station			C3 (NM6)								
Time (hh:mm)			13:33									
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)	20.4	20.4	20.4	20.0	20.0	20.4	20.26	-				
Salinity (ppt)	38.7	38.6	38.7	39.0	39.0	38.8	38.81	-				
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.13					
D.O. Saturation (%)	127.3	128.1	127.4	129.6	131.6	127.1	128.52	-				
D.O. (mg/L)	9.1	9.2	9.2	9.4	9.5	9.1	9.25	9.33				
Turbidity (NTU)	5.2	5.3	5.2	5.5	5.7	5.6	5.42	-				
SS (mg/L)	9.0	7.0	8.0	8.0	9.0	13.0	9.00	-				
Remarks		Dredging works was observed.										

Station			IM	01			Co-ordinates					
Time (hh:mm)			12:41	-12:42			Northing	Easting				
Water Depth (m)			10	22.21.335	113.54.090							
Monitoring Depth (m)	1	.0	5	.2	9	.3						
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom				
Water Temperature (°C)	20.1	20.1	20.6	20.0	20.1	20.1	20.15	-				
Salinity (ppt)	38.3	38.4	37.8	38.4	38.2	38.4	38.25	-				
pH	8.2	8.2	8.1 8.2		8.1	8.2	8.15					
D.O. Saturation (%)	122.7	122.3	122.3	122.4	123.5	122.5	122.62	-				
D.O. (mg/L)	8.9	8.9	8.8	8.9	8.9	8.9	8.88	8.91				
Turbidity (NTU)	4.4	4.8	5.2	5.1	5.2	5.0	4.95	-				
SS (mg/L)	7.0	8.0	5.0	9.0	7.0	11.0	7.83	-				
Remarks		Dredging works was observed.										

Station			IM		Co-ordinates							
Time (hh:mm)			12:32	-12:33			Northing	Easting				
Water Depth (m)			8		22.21.023	113.54.212						
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)	20.2	20.1	20.6	20.2	20.1	20.2	20.22	-				
Salinity (ppt)	37.9	38.1	37.6	37.9	38.0	37.9	37.89	-				
pH	8.1	8.2	8.2 8.1		8.1 8.1		8.14					
D.O. Saturation (%)	126.5	125.3	124.8	126.9	126.0	127.9	126.23	-				
D.O. (mg/L)	9.2	9.1	9.0	9.2	9.1	9.3	9.14	9.21				
Turbidity (NTU)	4.6	4.8	5.3	5.1	6.7	6.5	5.50	-				
SS (mg/L)	6.0	10.0	6.0	8.0	12.0	11.0	8.83	-				
Remarks	,	Dredging works was observed.										

Station			MF								
Time (hh:mm)			13:05								
Water Depth (m)			8	.5							
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)	20.0	20.0	20.0	20.1	20.0	20.6	20.12	-			
Salinity (ppt)	39.0	38.9	39.0	39.0	39.0	38.5	38.88	-			
pH	8.2	8.2	8.1	8.2	8.1	8.2	8.15				
D.O. Saturation (%)	123.8	124.8	125.3	124.1	125.5	125.3	124.80	-			
D.O. (mg/L)	8.9	9.0	9.1	9.0	9.1	9.0	9.00	9.02			
Turbidity (NTU)	3.4	3.4	5.1	5.0	6.0	5.8	4.78	-			
SS (mg/L)	5.0	6.0	5.0	5.0	7.0	5.0	5.50	-			
Remarks		Dredging works was observed.									

Station			MF	B2				
Time (hh:mm)			13:15					
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)	19.8	20.3	19.8	19.8	19.9	18.7	19.73	-
Salinity (ppt)	39.2	38.7	39.2	39.3	39.1	40.4	39.30	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.16	
D.O. Saturation (%)	124.1	123.7	124.5	124.1	125.0	125.6	124.50	-
D.O. (mg/L)	9.0	8.9	9.0	9.0	9.0	9.2	9.02	9.13
Turbidity (NTU)	7.0	7.1	7.4	7.3	7.2	7.1	7.18	-
SS (mg/L)	9.0	8.0	9.0	9.0	10.0	7.0	8.67	-
Remarks				Dredging	g works was	observed.	•	•

Station											
Time (hh:mm)			12:54								
Water Depth (m)			5	.7							
Monitoring Depth (m)	1	.0	2	.7							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom			
Water Temperature (°C)	20.0	19.9	-	-	20.4	19.9	20.06	-			
Salinity (ppt)	37.8	37.8	-	-	37.6	37.9	37.77	-			
pH	8.1	8.1	-	-	8.1	8.1	8.09				
D.O. Saturation (%)	128.9	124.3	-	-	131.4	126.8	127.85	-			
D.O. (mg/L)	9.4	9.1	-	-	9.5	9.2	9.29	9.37			
Turbidity (NTU)	9.1	9.2	-	-	10.2	10.1	9.65	-			
SS (mg/L)	8.0	10.0	-	-	9.0	11.0	9.50	-			
Remarks		Dredging works was observed.									

Sompliance with Action and Elinit Level														
Parameter	As in	EM&A	Mean(C1+	-C3)*130%	IM	01	IMO2			MPB1	MPB2		MP	
	Action	Limit	Action	Limit	Exceedan	Exceedan	Exceedance of Action	Exceedance	Exceedanc	ceedanc Exceedance of Limit Level		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)	4.2	4.0	9.4	9.4	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	3.3	2.5	9.4	9.4	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	8.5	NA	N	NA	N	NA	N	NA	N	NA	Υ	NA
SS (Depth-averaged)	24.0	37.0	12.9	12.9	N	N	N	N	N	N	N	N	N	N

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