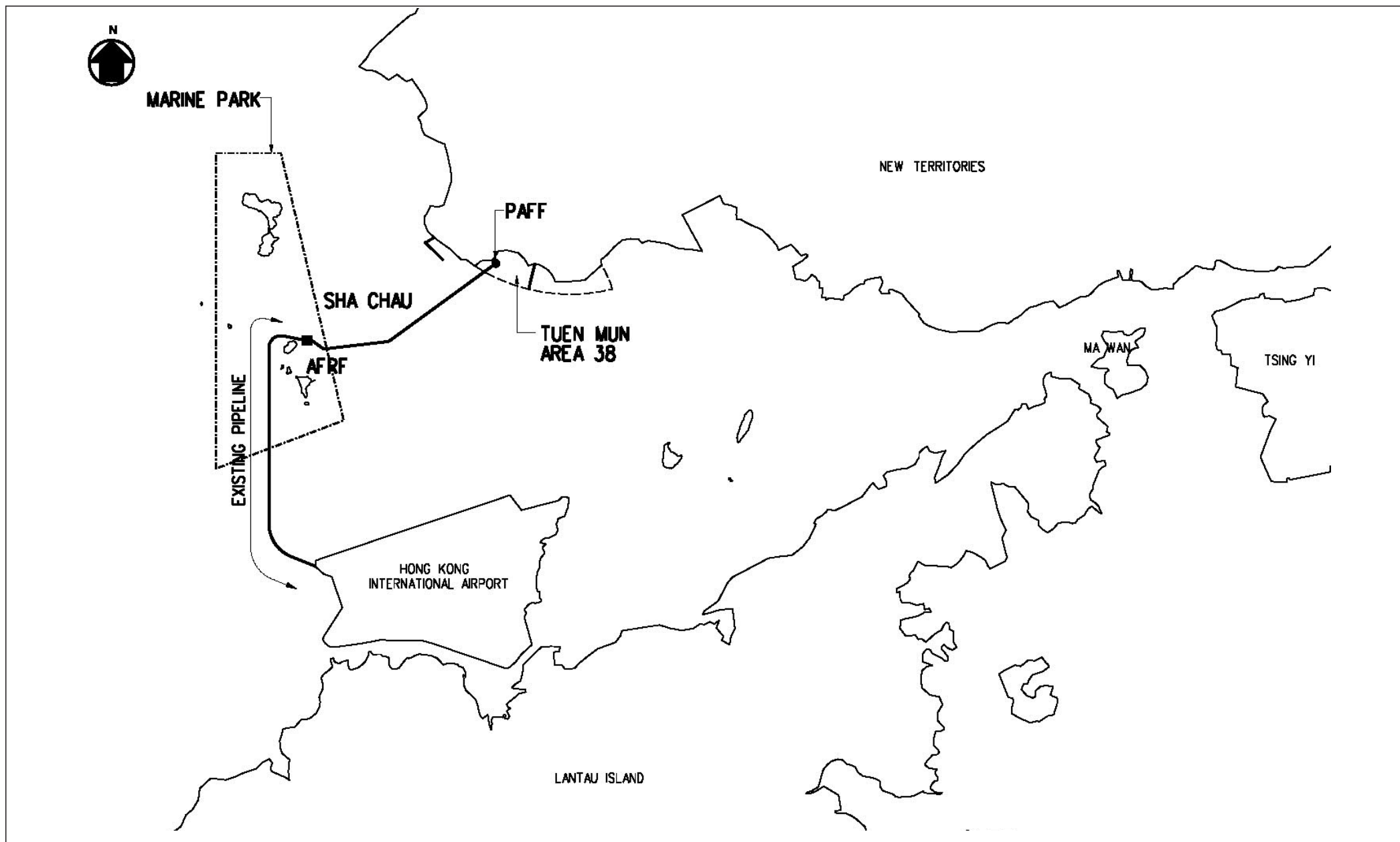


Annex A

Project Location



Annex A

Location of PAFF

FILE: 0018105bb1
DATE: 12/11/2007

Environmental
Resources
Management



Annex B

Water Quality Monitoring Stations, Water Quality and Ecological Sensitive Receivers

KEY

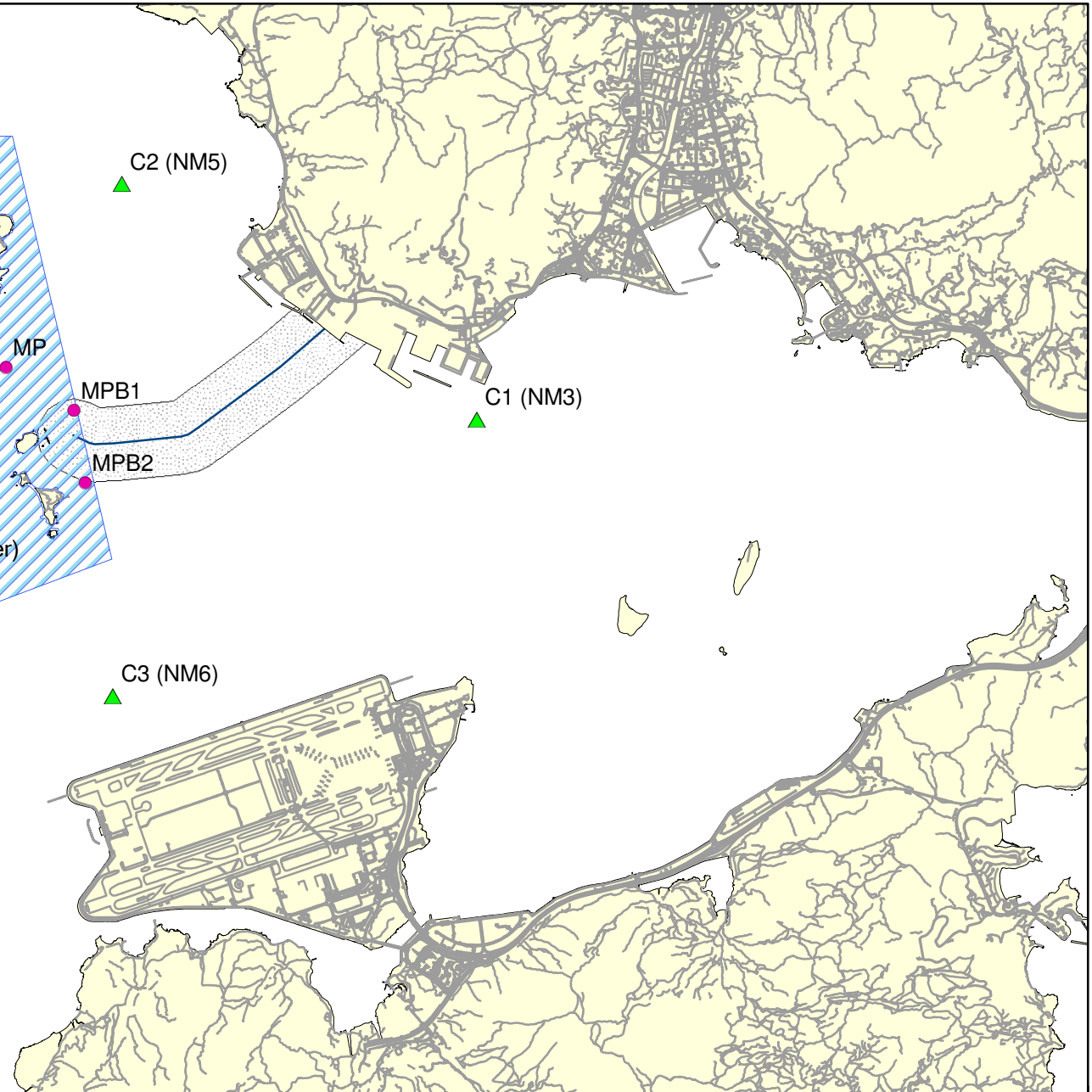
- ▲ Control Stations
- Impact Stations
- ▨ Marine Park
- Proposed Pipeline
- ▨ Potential IMO1 & IMO2 Monitoring Zone

Marine Park
(Water Sensitive Receiver)

C2 (NM5)

C1 (NM3)

C3 (NM6)



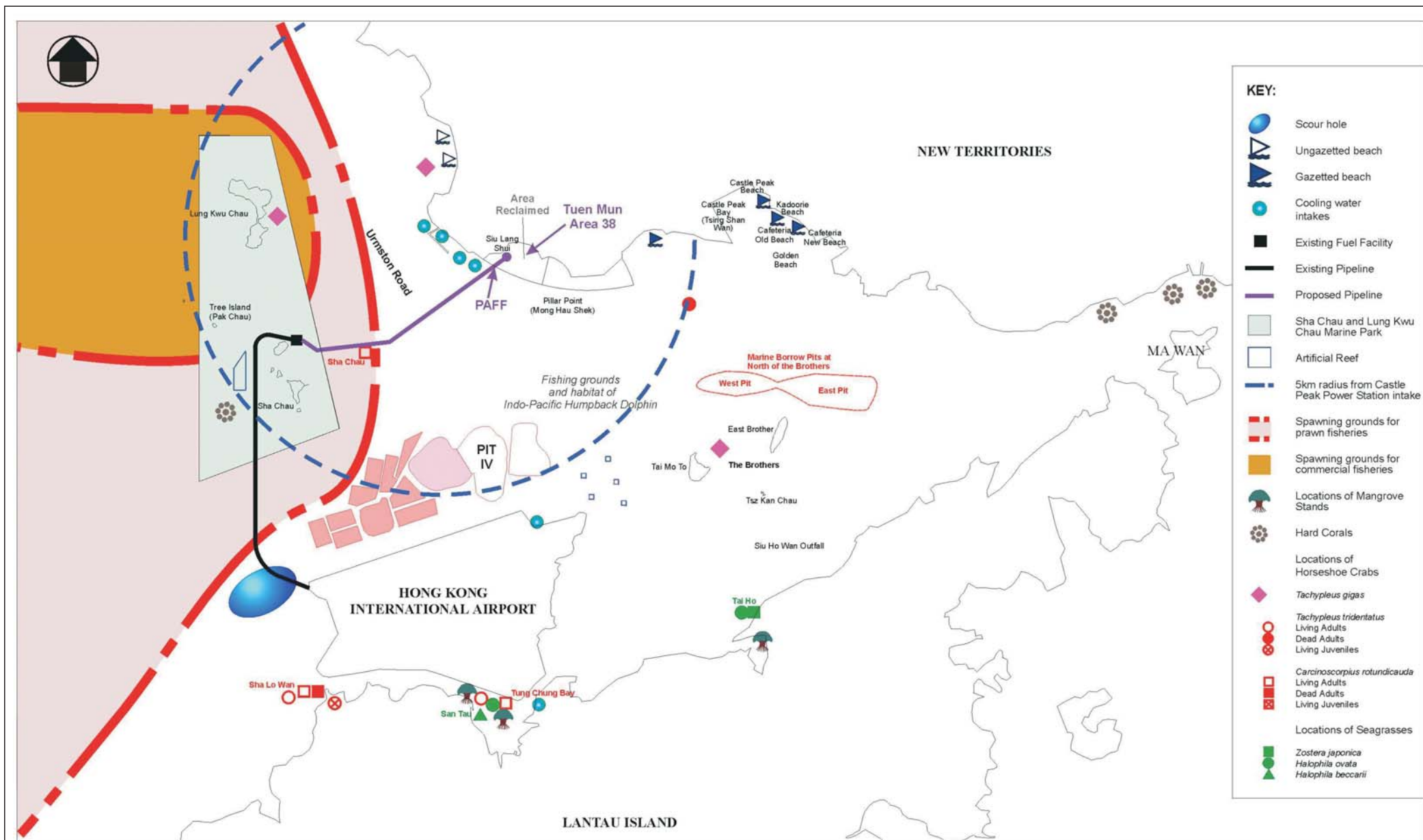
Annex B

Water Sensitive Receiver and Water Quality Monitoring Locations

File: 0018105_4.mxd
Date: 23/01/2006

Environmental
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Annex B

Water Quality and Ecological Sensitive Receivers

FILE: C2475aa
DATE: 12/11/2007

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

Environmental
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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)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						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
16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec
	Mid-flood 13:12 Mid-ebb 19:12	Mid-flood 13:52 Mid-ebb 20:20	Mid-ebb 07:47 Mid-flood 14:29	Mid-ebb 09:01 Mid-flood 15:07	Mid-ebb 10:11 Mid-flood 15:47	Mid-ebb 11:19 Mid-flood 16:29
23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec	29-Dec
Mid-ebb 12:14 Mid-flood 17:15	Mid-ebb 13:03 Mid-flood 18:01	Mid-ebb 13:50 Mid-flood 18:48	Mid-ebb 14:34 Mid-flood 19:36 +POP Samples	Mid-ebb 15:19 Mid-flood 20:22	Mid-ebb 16:04 Mid-flood 21:08	Mid-flood 11:34 Mid-ebb 16:52
30-Dec	31-Dec					
Mid-flood 12:14 Mid-ebb 17:48	Mid-ebb 05:29 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 Tidal Station: Lok On Pai (source: HK Observatory Department)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Jan	02-Jan	03-Jan	04-Jan	05-Jan
		Mid-Ebb 06:06 Mid-Flood 13:25	Mid-Ebb 07:14 Mid-Flood 13:54	Mid-Ebb 08:59 Mid-Flood 14:24	Mid-Ebb 10:19 Mid-Flood 14:59	Mid-Ebb 11:06 Mid-Flood 15:42
06-Jan	07-Jan	08-Jan	09-Jan	10-Jan	11-Jan	12-Jan
Mid-Ebb 11:47 Mid-Flood 16:27	Mid-Ebb 12:26 Mid-Flood 17:12	Mid-Flood 08:13 Mid-Ebb 13:04	Mid-Flood 08:44 Mid-Ebb 13:43 +POP Samples	Mid-Flood 09:14 Mid-Ebb 14:20	Mid-Flood 09:44 Mid-Ebb 14:59	Mid-Flood 10:13 Mid-Ebb 15:38
13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan
Mid-Flood 10:43 Mid-Ebb 16:21	Mid-Flood 11:14 Mid-Ebb 17:09	Mid-Flood 11:49 Mid-Ebb 18:13	Mid-Flood 12:25 Mid-Ebb 19:23	Mid-Ebb 06:55 Mid-Flood 13:06	Mid-Ebb 08:24 Mid-Flood 13:50	Mid-Ebb 09:59 Mid-Flood 14:43
20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan
Mid-Ebb 11:12 Mid-Flood 15:56	Mid-Ebb 12:11 Mid-Flood 17:04	Mid-Ebb 12:58 Mid-Flood 18:02	Mid-Flood 08:30 Mid-Ebb 13:40 +POP Samples	Mid-Flood 09:04 Mid-Ebb 14:19	Mid-Flood 09:34 Mid-Ebb 14:55	Mid-Flood 10:01 Mid-Ebb 15:30
27-Jan	28-Jan	29-Jan	30-Jan	31-Jan		
Mid-Flood 10:23 Mid-Ebb 16:04	Mid-Flood 10:45 Mid-Ebb 16:42	Mid-Flood 11:08 Mid-Ebb 17:31	Mid-Flood 11:35 Mid-Ebb 18:47	Mid-Ebb 05:35 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 construction works on 9th July 2007

09/07/07 – 31/07/07	0	2	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 Summons		
	Frequency	Cumulative	Summon Nature
18/11/05 – 15/12/05	0	0	Nil
16/12/05 – 14/01/06	0	0	Nil
15/01/06 – 14/02/06	0	0	Nil
15/02/06 – 14/03/06	0	0	Nil
15/03/06 – 14/04/06	0	0	Nil
15/04/06 – 14/05/06	0	0	Nil
15/05/06 – 14/06/06	0	0	Nil
15/06/06 – 14/07/06	0	0	Nil

Re-commencement of construction 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 Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status		
D											C	O
Water Quality												
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 m³/hr for the TSHD and 7,000 m³/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 Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	6.8.1	Barges and hopper dredgers shall have tight fittings seals to their bottom openings to prevent leakage of material.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Pending
6.7	6.8.1	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Pending
6.7	6.8.1	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Pending
6.7	6.8.1	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Pending
6.7	6.8.1	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Pending
6.7	6.8.1	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Pending

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
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 on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	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 Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	6.8.1	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Temporary access roads should be surfaced with crushed stone or gravel.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
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.	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 Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
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 Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	Section 6	Contingency procedures shall be drawn up to ensure containment and safe disposal of any fuel lost from tanks or pipework. Suitable absorbent materials (e.g. sand or earth) shall be kept on site to deal with spillages.	Tank farm	Franchisee	TMEIA Hong Kong Code of Practice for Oil Installations, 1992			Y	Franchisee	Pending
6.7	Section 6	Valves shall be installed within the storm drainage system to facilitate the retention of spillages.	Tank farm	Franchisee	TMEIA		Y		Franchisee	Pending
6.10	Section 6	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen.	Design monitoring stations as defined in EM&A Manual, section 6. Construction period when dredging takes place within 1000m of Marine Park and along entire length of the pipeline	Contractor	EM&A Manual		Y		N/A	Pending

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.10	Section 6	Routine water quality monitoring in the vicinity of the PAFF site to check the effectiveness of the proposed precautionary measures implemented for on-site spill control. The details of the monitoring to be undertaken will be prepared by the Franchisee as part of the PAFF Operations Manual and the details will be agreed with the relevant authorities within 3 months of the commencement of operation of the PAFF. Monitoring should include but not be limited to the parameters of TPH and PAH and reference should be made to the existing monitoring programme undertaken for the fuel tank farm on the HKIA platform.	Operational phase. Location and frequency to be determined and agreed with relevant authorities	Franchisee	EM&A Manual			Y	N/A	Pending
Ecology										
7.8	5.3	Undertake post construction dolphin abundance monitoring.	Construction	Contractor	TMEIA		Y		N/A	Pending
7.8	5.3	A 250m dolphin exclusion zone shall be implemented and dredging shall not begin until the observer has confirmed that the area has been clear for 30 minutes.	250m around dredger/throughout dredging in Marine Park and along the length of pipeline	Contractor	TMEIA		Y		N/A	Pending

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
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 & Visual										
8.10	7.2.1	The construction programme for the PAFF should be reduced to the shortest possible period.	PAFF site / throughout construction period	Contractor	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	The extent and periphery of the works areas should be managed so that they are as small as possible and do not appear cluttered, untidy and unattractive, particularly to road traffic along Lung Mun Road.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing
8.10	7.2.1	Temporary hoarding barriers should be of a recessive visual appearance in both colour and form.	PAFF site / throughout construction period	Contractor	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Materials should be stored in areas with the least obstruction to residents, pedestrians and traffic.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
8.10	7.2.1	All material stockpiles should be covered with an impermeable material and sandbagging diversions should be placed around exposed soil.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing
8.10	7.2.1	Conservation of existing and imported soil resources.	PAFF site / throughout construction period of fuel tank expansion	Contractor	TMEIA			Y	N/A	Ongoing
8.10	7.2.1	A landscape perimeter bund comprising containment bund-wall, access road and planting buffer shall be built and maintained around the tank farm.	PAFF site / throughout construction period	Project Proponent	TMEIA	Y	Y	Y	Franchisee	Ongoing
8.10	7.2.1	The design of the PAFF should incorporate materials, details and textures which are visually recessive.	PAFF site / design	Project Proponent	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Colours should be of low chromatic intensity to reduce the potential contrast between the structure and their background.	PAFF site tanks / design	Project Proponent	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Visually permeable security fencing should be used around the perimeter.	Site perimeter	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Minimum amount of lighting for the tanks shall be used, only applied for safety at the key access points and staircases.	Tanks / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Limited lighting intensity on the site.	PAFF site / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Directional down lighting is suggested to minimise light spill to the surrounding area.	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	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
Cultural Heritage										
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: - 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 blockages which requires the dredge head to be brought on deck for cleaning and examination; and,	Within vicinity of SS1 and SS2	Franchisee	TMEIA		Y		N/A	Pending

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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
11.6	10.4	Regular inspections and audits will be undertaken by the Franchisee during the operational phase of the facility: - 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.	Operation	Franchisee	TMEIA			Y	N/A	Pending
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.	Within 3 months of start of operation of the PAFF with audits every 24 months	Franchisee	TMEIA			Y	N/A	Pending
Land Contamination										
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 Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
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.	Tank farm / Design	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 roof 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.	Tank farm / Design	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 Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
13.5.5	10.2	Pipe leakages shall be routinely checked for by means of a pressure sensitive leak detection system and routine inventory control.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	Pending
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 Management										
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 Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		N/A	Ongoing
14.7.2	8.3.1	No waste shall be burnt on site.	PAFF Site throughout construction period	Contractor	TMEIA		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 construction period	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 Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
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 public fill stockpile in Mui Wo, North Lantau or Mui Wo refuse transfer stations / Throughout construction period	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 Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	Stockpiles shall be covered by tarpaulin and/or watered as required.	All areas / throughout construction period, particularly during dry season	Contractor	TMEIA, Public Health and Municipal Services Ordinance (Cap 132) and the Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing
14.7.2	8.3.1	Storage of material on site should be kept to a minimum.	All areas / throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	Excavated material in trucks shall be covered by tarpaulins.	All areas, particularly at site exits / throughout construction period	Contractor	TMEIA, Reduce the potential for spillage and dust. Public Health and Municipal Services Ordinance (Cap 132) and the Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing
14.7.2	8.3.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent the transfer of mud onto public roads.	Site entrances and exits/ throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing
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 Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical waste treatment facility at Tsing Yi / throughout construction period	Contractor	TMEIA, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. A Guide to the Chemical Waste Control Scheme		Y		N/A	Ongoing
14.7.2	8.3.1	Temporary storage areas for general refuse should be enclosed to avoid environmental impacts.	All areas/ throughout construction period	Contractor	TMEIA, Public Health and Municipal Services Ordinance		Y		N/A	Ongoing
14.7.2	8.3.1	Sufficient dustbins should be provided for storage of waste.	All areas/ throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances Ordinance (Regional Council) By-laws, Public Health and Municipal Services Ordinance		Y		N/A	Ongoing
14.7.2	8.3.1	General refuse should be cleared daily and should be disposed of to the nearest licensed facility.	All areas, WENT landfill or NWNT refuse transfer stations/ throughout construction period	Contractor	TMEIA, Sanitation and Conservancy (Regional Council) By-laws		Y		N/A	Ongoing

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

Annex F

QA/QC Results for
Laboratory Testing of
Suspended Solids



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	: HK0718174
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Project	: EM&A FOR THE PERMANENT AVIATION FUEL FACILITY	Quote number	: ---	Date received	: 17 Dec 2007
Order number	: ---			Date of issue	: 21 Dec 2007
C-O-C number	: ---			No. of samples	- Received : 78
Site	: ---				- Analysed : 78

Report Comments

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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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hona Kona. Chapter 553. Section 6.

Signatory

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 560693)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 560694)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	93.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 560695)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	96.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 560696)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.0	----	85	115	----	----



CERTIFICATE OF ANALYSIS

Client	: ERM HONG KONG	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 4
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E-mail	: Karen.Lui@erm.com	E-mail	: Alice.Wong@alsenviro.com		
Telephone	: 2271 3000	Telephone	: +852 2610 1044		
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Project	: EM&A FOR THE PERMANENT AVIATION FUEL FACILITY	Quote number	: ---	Date received	: 18 Dec 2007
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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Signatory

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics

ALS Laboratory Group

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A Campbell Brothers Limited Company



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 561449)								
HK0718175-001	MP S ME	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 Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 561449)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 561450)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	100	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 561451)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 561452)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.0	----	85	115	----	----



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 19 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate 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 Aggregate 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 Aggregate 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 Aggregate 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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 561464)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 561465)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 561466)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	95.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 561467)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.0	----	85	115	----	----



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 20 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 562107)								
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 Aggregate Properties (QC Lot: 562108)								
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 Aggregate Properties (QC Lot: 562109)								
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 Aggregate Properties (QC Lot: 562110)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 562107)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562108)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562109)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562110)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	101	----	85	115	----	----



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, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 21 Dec 2007
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 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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 562194)								
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 Aggregate Properties (QC Lot: 562195)								
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 Aggregate Properties (QC Lot: 562196)								
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 Aggregate Properties (QC Lot: 562197)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 562194)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562195)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562196)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	100	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562197)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	97.5	----	85	115	----	----



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	: HK0718519
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 22 Dec 2007
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 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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Signatory

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics

ALS Laboratory Group

Trading Name: ALS Technichem (HK) Pty Ltd

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong

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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 Aggregate Properties (QC Lot: 562995)								
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 Aggregate Properties (QC Lot: 562996)								
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 Aggregate Properties (QC Lot: 562997)								
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 Aggregate Properties (QC Lot: 562998)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 562995)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	95.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562996)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562997)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 562998)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.0	----	85	115	----	----



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, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 23 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 563004)								
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 Aggregate Properties (QC Lot: 563005)								
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 Aggregate Properties (QC Lot: 563006)								
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 Aggregate Properties (QC Lot: 563008)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 563004)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563005)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563006)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	96.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563008)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	93.5	----	85	115	----	----



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, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 24 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate 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 Aggregate 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 Aggregate 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 Aggregate 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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 563410)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	100	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563411)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	96.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563412)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563413)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.5	----	85	115	----	----



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, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 25 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate 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 Aggregate 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 Aggregate 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 Aggregate 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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 563416)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	89.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563417)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563418)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563419)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 26 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 563421)								
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 Aggregate Properties (QC Lot: 563422)								
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 Aggregate Properties (QC Lot: 563423)								
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 Aggregate Properties (QC Lot: 563424)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			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: 563421)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563422)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	96.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563423)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	100	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 563424)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	97.0	----	85	115	----	----



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 27 Dec 2007
Order number	: ---			Date of issue	: 2 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 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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 564585)								
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 Aggregate Properties (QC Lot: 564586)								
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 Aggregate Properties (QC Lot: 564587)								
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 Aggregate Properties (QC Lot: 564588)								
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

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

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



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 28 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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 Aggregate Properties (QC Lot: 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

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

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



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 29 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 564598)								
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 Aggregate Properties (QC Lot: 564599)								
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 Aggregate Properties (QC Lot: 564600)								
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 Aggregate Properties (QC Lot: 564601)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike Concentration	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: 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 Properties (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	----	----



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 30 Dec 2007
Order number	: ---			Date of issue	: 7 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 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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 564602)								
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 Aggregate Properties (QC Lot: 564603)								
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 Aggregate Properties (QC Lot: 564604)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	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 Properties (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	----	----



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
Address	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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 FACILITY	Quote number	: ---	Date received	: 31 Dec 2007
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

Fung Lim Chee, Richard

Position

General Manager

Authorised results for:-

Inorganics



Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 565639)								
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 Aggregate Properties (QC Lot: 565640)								
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 Aggregate Properties (QC Lot: 565641)								
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

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

Matrix Type: WATER		Method Blank (MB) Results			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 Properties (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

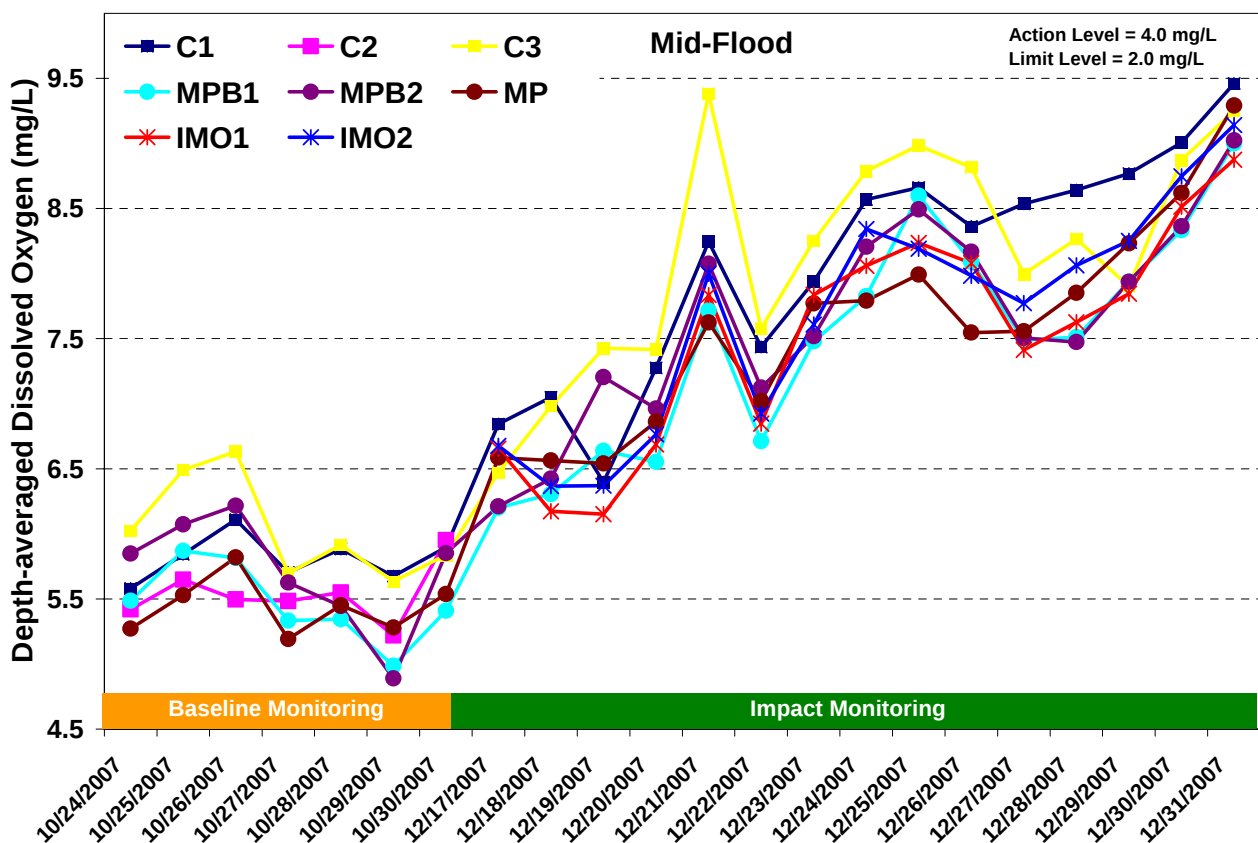
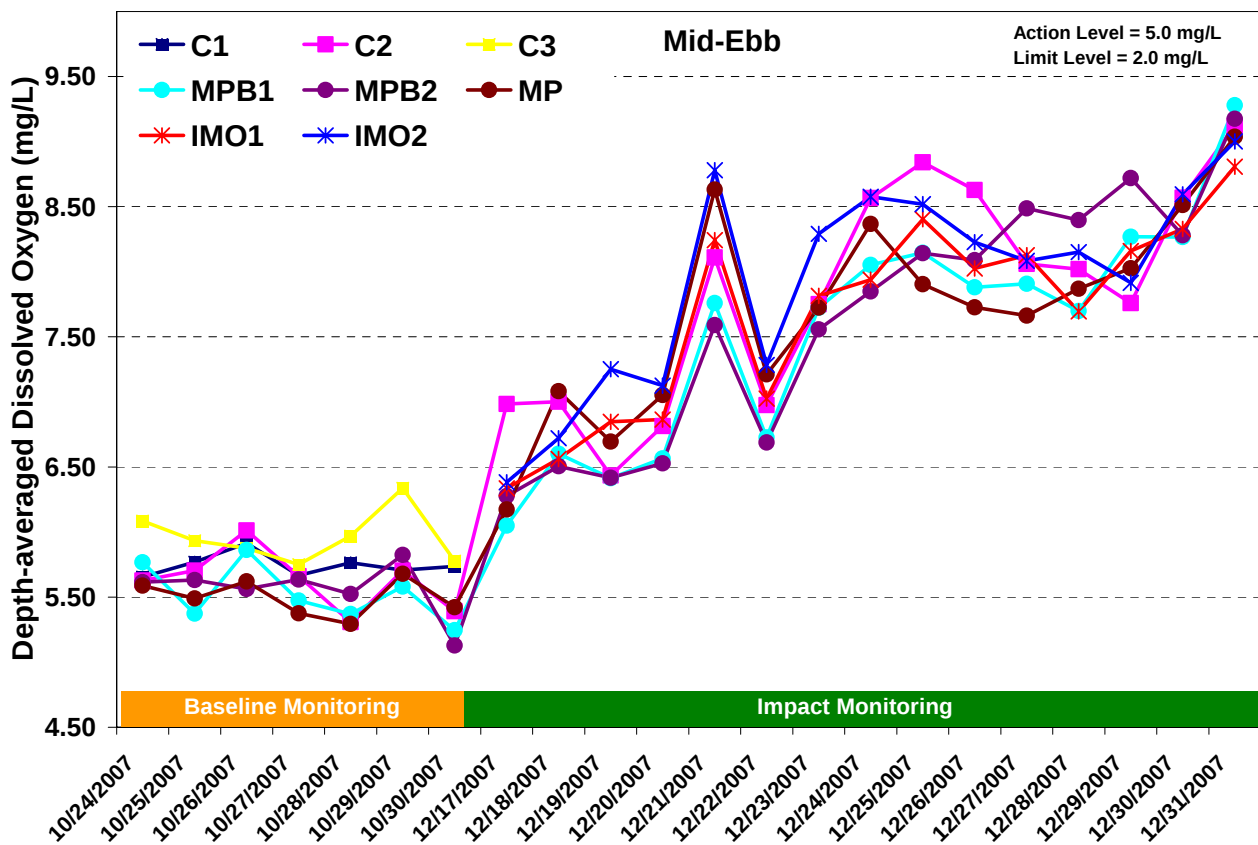


Figure G1 Dissolved oxygen concentration (depth-averaged) (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007

Ref: 0018105_Annex G_water graphs.doc



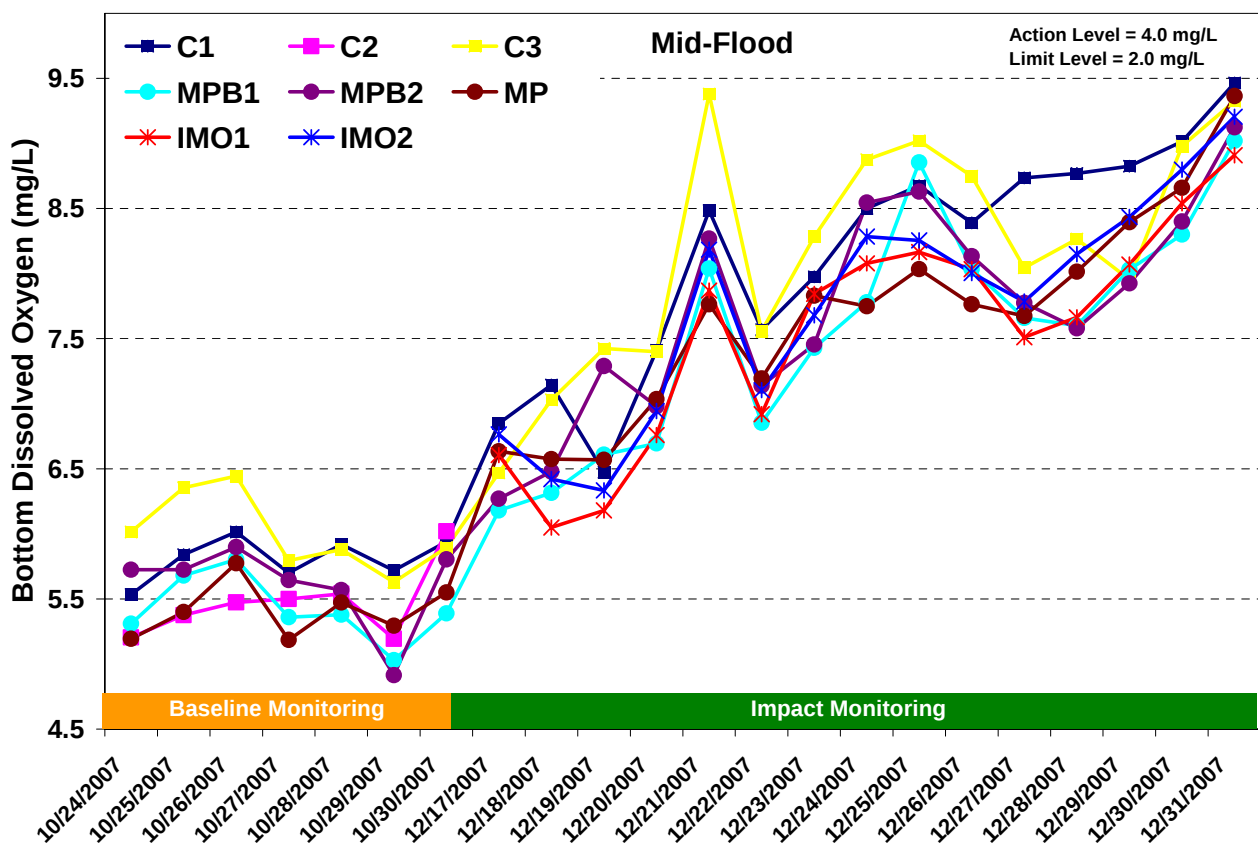
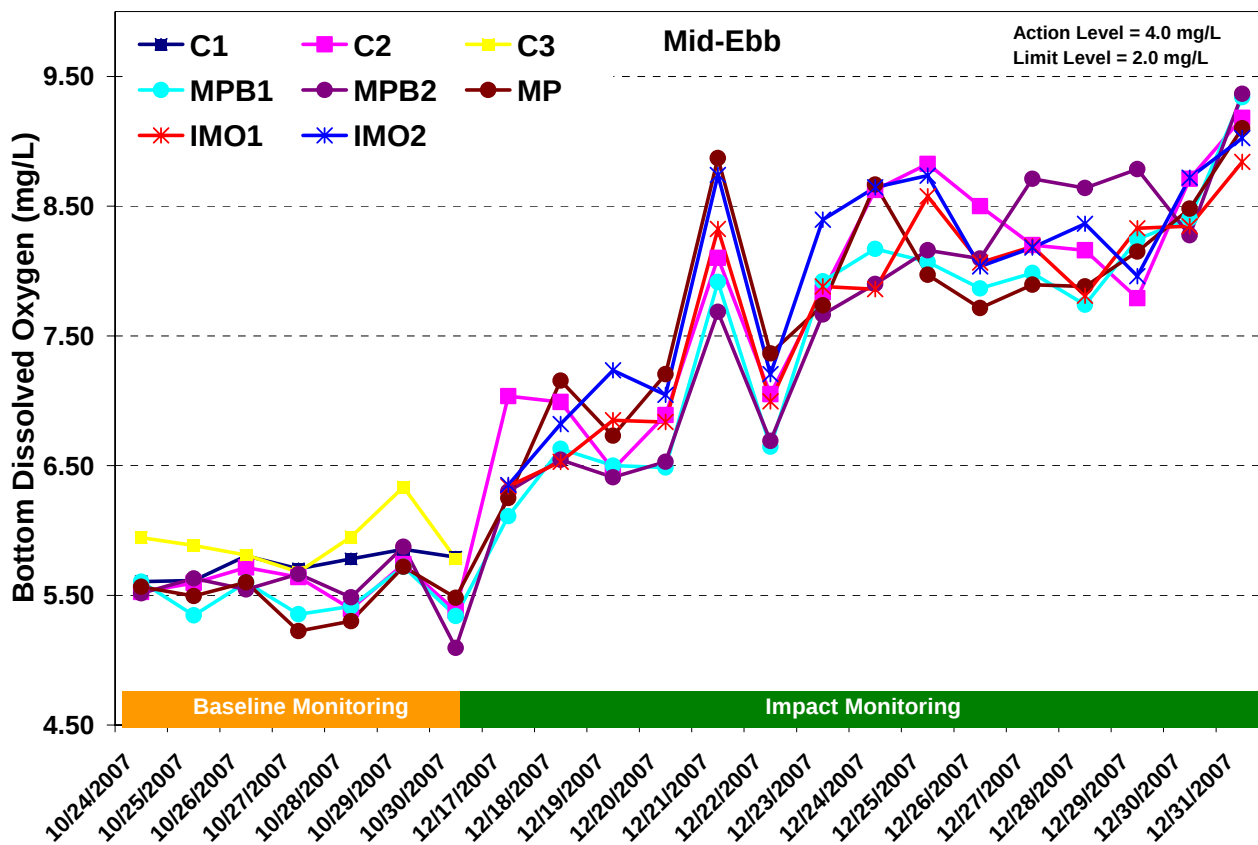


Figure G2 Dissolved oxygen concentration (bottom) (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007

Ref: 0018105_Annex G_water graphs.doc



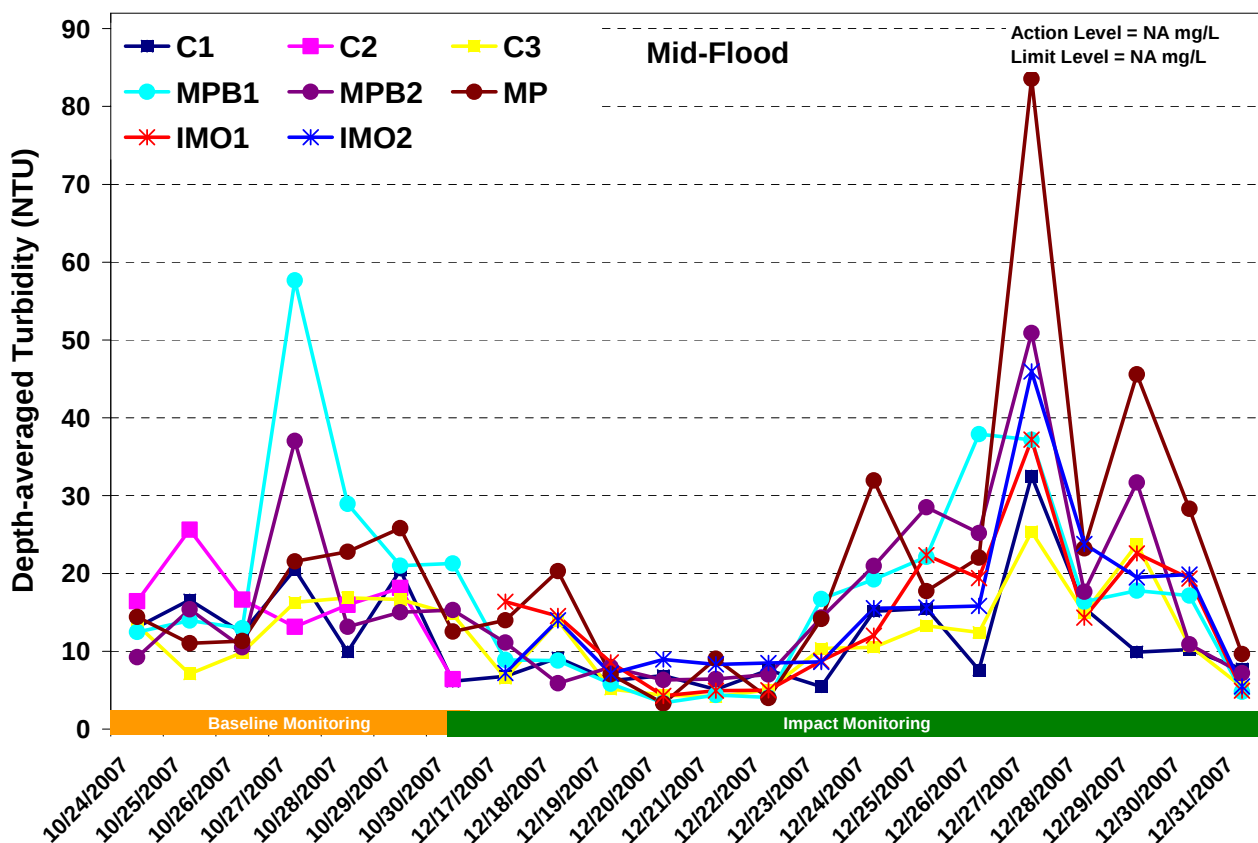
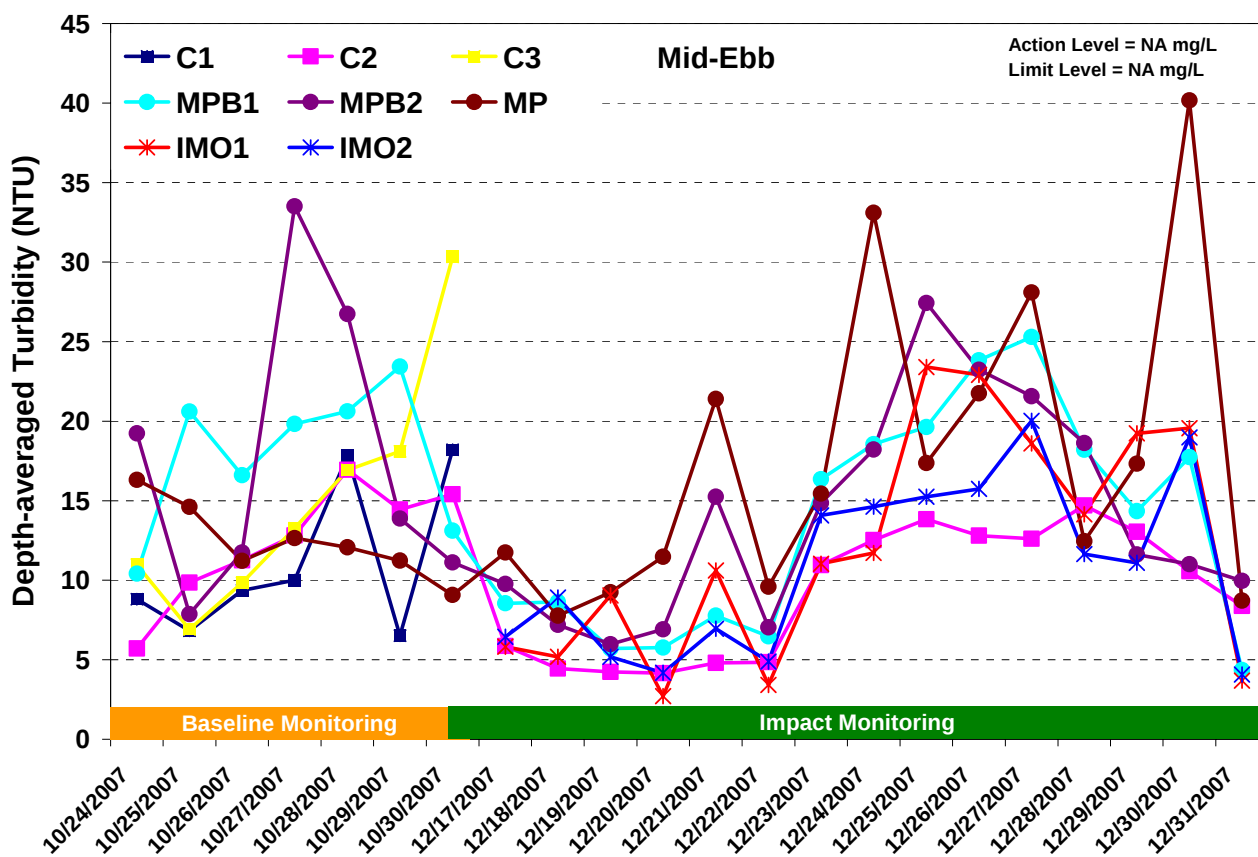


Figure G3 Depth-averaged turbidity (NTU) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007

Ref: 0018105_Annex G_water graphs.doc



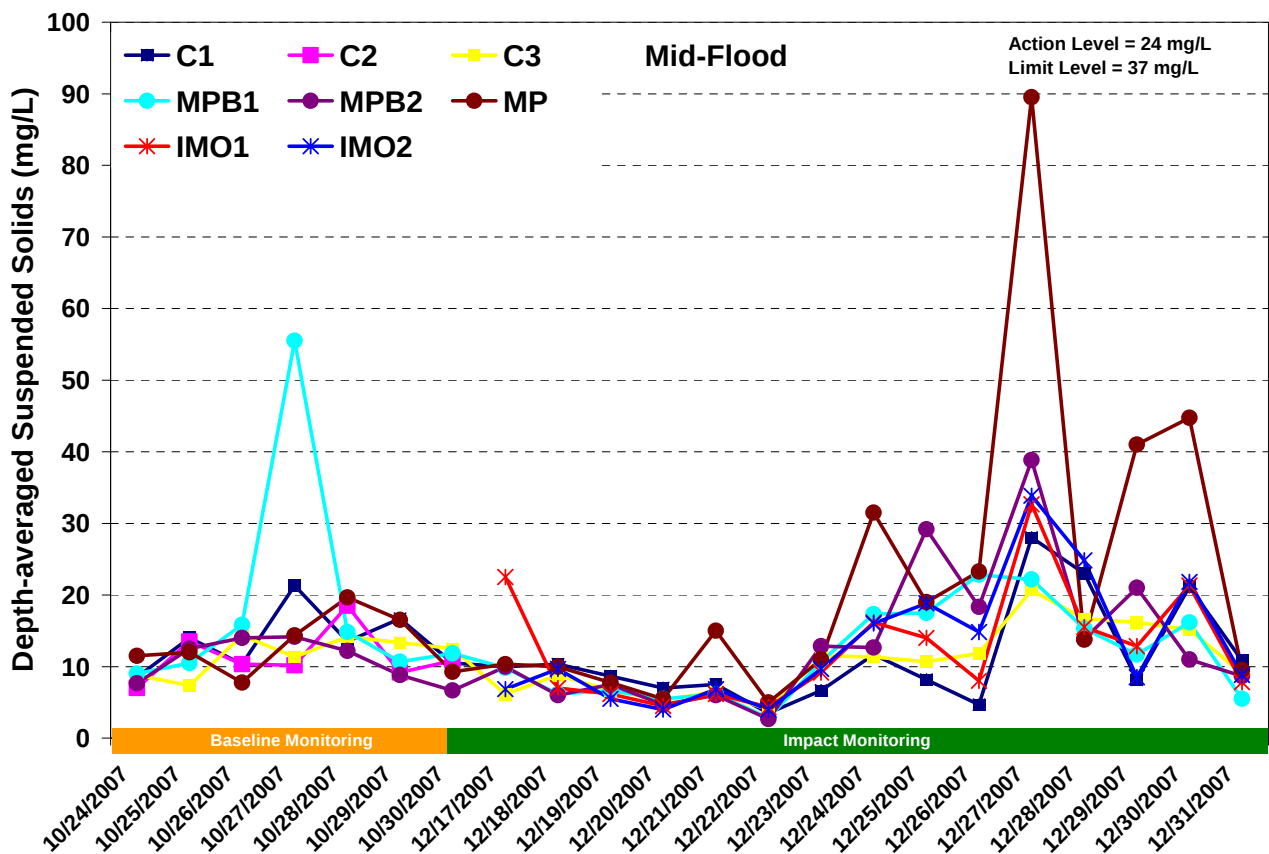
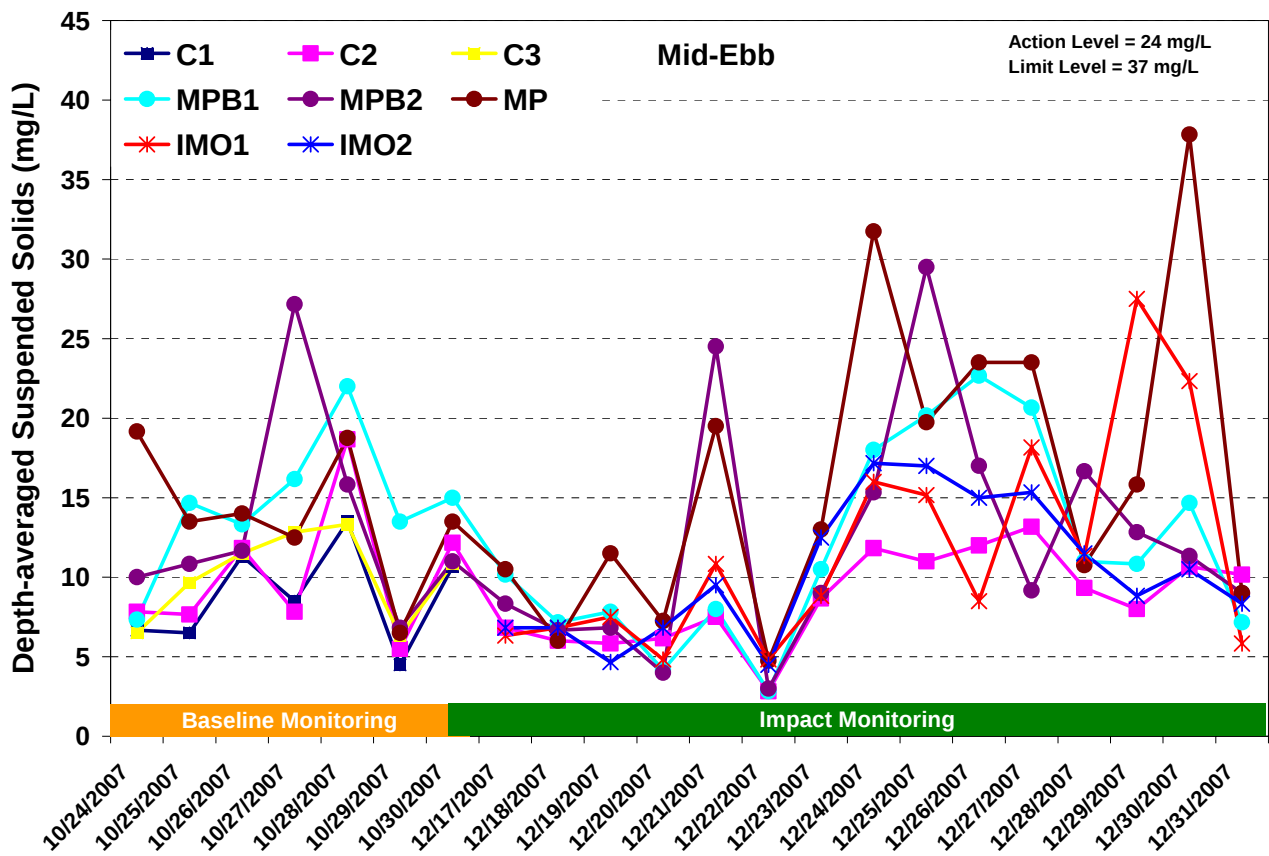


Figure G4 Depth-averaged suspended solids concentration (mg/L) of water samples from the eight sampling locations at mid-ebb and mid-flood between 17 December and 31 December 2007, and previous monitoring period between 24 October and 30 October 2007

Mid-Ebb

Station	MPB1								
Time (hh:mm)	17:45-17:47								
Water Depth (m)	8.44								
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	MPB2							
Time (hh:mm)	17:54-17:55							
Water Depth (m)	9.19							
Monitoring Depth (m)	1.00		4.60		8.19			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	MP						Depth-averaged	Bottom
Time (hh:mm)	17:37-17:38							
Water Depth (m)	6.33							
Monitoring Depth (m)	1.00		3.17		5.33			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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

[illegible]

Mid-Flood

Station	MPB1							
Time (hh:mm)	14:06-14:08							
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	MPB2							
Time (hh:mm)	14:15-14:17							
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	MP							
Time (hh:mm)	13:57-13:59							
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								

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	Y	NA	Y	NA
N	N	N	N	N

Compliance with Action and Limit Level

[illegible]

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

Station	C2 (NM5)							
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	<i>Depth-averaged</i>	<i>Bottom</i>
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	5.0	6.0	9.0	6.0	6.00	-
Remarks								

Station	IMO1						Co-ordinates	
Time (hh:mm)	19:23-19:25						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	<i>Depth-averaged</i>	<i>Bottom</i>
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	IMO2						Co-ordinates	
Time (hh:mm)	18:13-18:14						Northing	Easting
Water Depth (m)	11.14						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	<i>Depth-averaged</i>	<i>Bottom</i>
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	5.0	6.0	8.0	10.0	6.83	-
Remarks								

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1							
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	6.0	7.0	8.0	10.0	7.17	-
Remarks								

Station	MPB2							
Time (hh:mm)	18:59-19:00							
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		
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	7.0	6.0	8.0	8.0	6.67	-
Remarks								

Station	MP							
Time (hh:mm)	18:41-18:42							
Water Depth (m)	5.82							
Monitoring Depth (m)	1.00		2.91		4.82			
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	21.7	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	-	-	9.7	9.3	7.78	-
SS (mg/L)	6.0	6.0	-	-	6.0	6.0	6.00	-
Remarks								

Mid-Flood

Station	MPB1							
Time (hh:mm)	14:03:14:05							
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	5.0	8.0	7.0	6.17	-
Remarks								

Station	MPB2							
Time (hh:mm)	14:13-14:14							
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	5.0	6.0	6.0	6.00	-
Remarks								

Station	MP							
Time (hh:mm)	13:53-13:54							
Water Depth (m)	5.79							
Monitoring Depth (m)	1.00		2.89		4.79			
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								

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	N	NA	Y	NA
N	N	N	N	N

[illegible]

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

Station	C2 (NM5)						Depth- averaged	Bottom
Time (hh:mm)	8:03-8:05							
Water Depth (m)	20.65							
Monitoring Depth (m)	1.00		10.33		19.65			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	IMO1						Co-ordinates	
Time (hh:mm)	7:42-7:43						Northing	Easting
Water Depth (m)	13.59						22.21.528	113.54.492
Monitoring Depth (m)	1.00		6.80		12.59			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	IMO2						Co-ordinates	
Time (hh:mm)	7:31-7:32						Northing	Easting
Water Depth (m)	11.06						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	<i>Depth-averaged</i>	<i>Bottom</i>
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								

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1							
Time (hh:mm)	8:26-8:27							
Water Depth (m)	7.87							
Monitoring Depth (m)	1.00		3.94		6.87			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	8.0	9.0	6.0	7.0	7.83	-
Remarks								

Station	MPB2						Depth- averaged	Bottom
Time (hh:mm)	8:33-8:34							
Water Depth (m)	8.86							
Monitoring Depth (m)	1.00		4.43		7.86			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	7.0	7.0	6.0	8.0	6.83	-
Remarks								

Station	MP							
Time (hh:mm)	8:18-8:19							
Water Depth (m)	5.42							
Monitoring Depth (m)	1.00		2.71		4.42			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
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	-	-	13.0	13.0	11.50	-
Remarks								

Mid-Flood

Station	MPB1							
Time (hh:mm)	13:03-13:04							
Water Depth (m)	8.17							
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	21.2	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	MPB2							
Time (hh:mm)	12:53:12:55							
Water Depth (m)	8.70							
Monitoring Depth (m)	1.00		4.35		7.70			
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	MP							
Time (hh:mm)	13:12-13:13							
Water Depth (m)	5.62							
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								

Compliance with Action and Limit Level

[illegible]

Mid-Flood

Station	MPB1							
Time (hh:mm)	13:44-13:46							
Water Depth (m)	8.30							
Monitoring Depth (m)	1.00		4.15		7.30			
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	MPB2							
Time (hh:mm)	13:36-13:37							
Water Depth (m)	9.10							
Monitoring Depth (m)	1.00		4.55		8.10			
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	MP							
Time (hh:mm)	13:52-13:52							
Water Depth (m)	5.78							
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)	21.7	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								

Compliance with Action and Limit Level

[illegible]

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

Station	C2 (NM5)						Depth- averaged	Bottom
Time (hh:mm)	9:22-9:23							
Water Depth (m)	19.75							
Monitoring Depth (m)	1.00		9.87		18.75			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	-
pH	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	4.0	6.0	7.0	10.0	6.17	-
Remarks								

Station	IMO1						Co-ordinates	
Time (hh:mm)	9:03-9:04						Northing	Easting
Water Depth (m)	17.00						22.21.634	113.54.598
Monitoring Depth (m)	1.00		8.50		16.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	IMO2						Co-ordinates	
Time (hh:mm)	8:54-8:56						Northing	Easting
Water Depth (m)	10.69						22.21.170	113.54.673
Monitoring Depth (m)	1.00		5.34		9.69			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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								

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1						Depth- averaged	Bottom
Time (hh:mm)	9:47-9:48							
Water Depth (m)	8.05							
Monitoring Depth (m)	1.00		4.03		7.05			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	MPB2						Depth- averaged	Bottom
Time (hh:mm)	9:55-9:56							
Water Depth (m)	8.64							
Monitoring Depth (m)	1.00		4.32		7.64			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	5.0	3.0	5.0	4.0	4.00	-
Remarks								

Station	MP							
Time (hh:mm)	9:38-9:38							
Water Depth (m)	5.58							
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								

Mid-Ebb

Station	MPB1								
Time (hh:mm)	10:57-10:59								
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	8.0	6.0	12.0	9.0	8.00	-	
Remarks									

Station	MPB2						Depth- averaged	Bottom
Time (hh:mm)	11:06-11:07							
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		
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	19.0	27.0	22.0	26.0	24.50	-
Remarks								

Station	MP							
Time (hh:mm)	10:49-10:50							
Water Depth (m)	5.61							
Monitoring Depth (m)	1.00		2.81		4.61			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
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	-	-	26.0	25.0	19.50	-
Remarks								

Parameter	As in EM&A		C2*130%		IMO1		IMO2		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit 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	Y	NA	Y	NA	Y	NA	Y	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	9.8	9.8	N	N	N	N	N	N	Y	N	N	N

Mid-Flood

Station	MPB1							
Time (hh:mm)	14:28-14:29							
Water Depth (m)	8.23							
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	MPB2							
Time (hh:mm)	14:19-14:21							
Water Depth (m)	8.89							
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	MP							
Time (hh:mm)	14:54-14:54							
Water Depth (m)	5.71							
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								

[illegible]

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

Station	C2 (NM5)						Depth- averaged	Bottom
Time (hh:mm)	11:23-11:25							
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		
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	IMO1						Co-ordinates	
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	<i>Depth-averaged</i>	<i>Bottom</i>
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	IMO2						Co-ordinates	
Time (hh:mm)	10:56-10:58						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	<i>Depth-averaged</i>	<i>Bottom</i>
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								

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1						Depth-averaged	Bottom
Time (hh:mm)	11:49-11:50							
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		
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	-
Remarks								

Station	MPB2							
Time (hh:mm)	11:57-11:58							
Water Depth (m)	8.79							
Monitoring Depth (m)	1.00		4.40		7.79			
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	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	MP							
Time (hh:mm)	11:39-11:40							
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-averaged	Bottom
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								

Mid-Flood

Station	MPB1							
Time (hh:mm)	15:15-15:16							
Water Depth (m)	8.25							
Monitoring Depth (m)	1.00		4.12		7.25			
Trial	Trial 0	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	20.1	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	MPB2							
Time (hh:mm)	15:07-15:08							
Water Depth (m)	8.75							
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	3.0	2.0	2.0	2.67	-
Remarks								

Station	MP							
Time (hh:mm)	15:23-15:23							
Water Depth (m)	5.78							
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	-	-	5.0	5.0	5.00	-
Remarks								

Compliance with Action and Limit Level

[illegible]

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

Station	C2 (NM5)							
Time (hh:mm)	12:32-12:35							
Water Depth (m)	19.90							
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	10.0	9.0	7.0	6.0	8.67	-
Remarks								

Station	IMO1						Co-ordinates	
Time (hh:mm)	12:12-12:15						Northing	Easting
Water Depth (m)	16.58						22.21.630	113.54.593
Monitoring Depth (m)	1.00		8.29		15.58			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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 Dumping works were observed.							

Station	IMO2						Co-ordinates	
Time (hh:mm)	12:03-12:04						Northing	Easting
Water Depth (m)	10.70						22.21.161	113.54.665
Monitoring Depth (m)	1.00		5.35		9.70			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
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	12.0	11.0	17.0	16.0	12.50	-
Remarks	Dredging and Dumping works were observed.							

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1							
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	MPB2							
Time (hh:mm)	13:08-13:09							
Water Depth (m)	8.65							
Monitoring Depth (m)	1.00		4.32		7.65			
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	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	MP						Depth- averaged	Bottom
Time (hh:mm)	12:49-12:50							
Water Depth (m)	5.69							
Monitoring Depth (m)	1.00		2.85		4.69			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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								

Mid-Flood

Station	MPB1							
Time (hh:mm)	16:03-16:04							
Water Depth (m)	8.40							
Monitoring Depth (m)	1.00		4.20		7.40			
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	MPB2							
Time (hh:mm)	15:54-15:55							
Water Depth (m)	8.79							
Monitoring Depth (m)	1.00		4.39		7.79			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	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	106.7	109.2	105.2	107.08	-
D.O. (mg/L)	7.5	7.7	7.7	7.4	7.6	7.3	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	MP							
Time (hh:mm)	16:12-16:12							
Water Depth (m)	5.36							
Monitoring Depth (m)	1.00		2.68		4.36			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	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	-	-	7.9	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	-	-	8.0	7.7	7.77	7.83
Turbidity (NTU)	13.8	14.3	-	-	14.5	14.0	14.15	-
SS (mg/L)	10.0	12.0	-	-	11.0	11.0	11.00	-
Remarks	Floating Rubbish was observed.							

[illegible]

Mid-Flood

Station	MPB1							
Time (hh:mm)	16:28-16:30							
Water Depth (m)	8.26							
Monitoring Depth (m)	1.00		4.13		7.26			
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	MPB2							
Time (hh:mm)	16:19-16:21							
Water Depth (m)	8.85							
Monitoring Depth (m)	1.00		4.42		7.85			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.6	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	MP							
Time (hh:mm)	16:54-16:54							
Water Depth (m)	5.64							
Monitoring Depth (m)	1.00		2.82		4.64			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
Water Temperature (°C)	20.6	21.7	-	-	21.8	21.7	Depth-averaged	Bottom
Salinity (ppt)	38.7	37.8	-	-	37.6	37.7	21.46	-
pH	7.9	7.9	-	-	7.9	7.9	37.94	-
D.O. Saturation (%)	111.0	109.4	-	-	110.1	109.5	7.93	-
D.O. (mg/L)	8.0	7.7	-	-	7.8	7.7	110.00	-
Turbidity (NTU)	31.6	31.3	-	-	32.9	32.0	7.79	7.75
SS (mg/L)	31.0	32.0	-	-	32.0	31.0	31.95	-
Remarks							31.50	-

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	Y	NA	Y	NA
N	N	N	Y	N

Compliance with Action and Limit Level

[illegible]

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

Station	C2 (NM5)							
Time (hh:mm)	12:53-12:55							
Water Depth (m)	20.26							
Monitoring Depth (m)	1.00		10.13		19.26			
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	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	10.0	13.0	10.0	12.0	11.00	-
Remarks								

Station	IMO1						Co-ordinates	
Time (hh:mm)	13:54-13:55						Northing	Easting
Water Depth (m)	16.45						22.21.530	113.54.472
Monitoring Depth (m)	1.00		8.23		15.45			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	13.0	12.0	17.0	12.0	15.17	-
Remarks	Brownish water color was observed.							

Station	IMO2						Co-ordinates	
Time (hh:mm)	13:43-13:44						Northing	Easting
Water Depth (m)	10.36						22.21.183	113.54.637
Monitoring Depth (m)	1.00		5.18		9.36			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	20.0	16.0	15.0	13.0	17.00	-
Remarks	Brownish water color was observed.							

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit 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	Y	NA	N	NA	Y	NA	Y	NA	N	NA
SS (Depth-averaged)	24.0	37.0	14.3	14.3	N	N	N	N	N	N	Y	N	N	N

Mid-Ebb

Station	MPB1							
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	19.0	22.0	19.0	24.0	20.17	-
Remarks	Brownish water color was observed.							

Station	MPB2						Depth- averaged	Bottom
Time (hh:mm)	13:29-13:31							
Water Depth (m)	8.65							
Monitoring Depth (m)	1.00		4.32		7.65			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	MP							
Time (hh:mm)	13:11-13:12							
Water Depth (m)	5.60							
Monitoring Depth (m)	1.00		2.80		4.60			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
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	19.0	-	-	19.0	20.0	19.75	-
Remarks	Brownish water color was observed.							

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

Mid-Flood

Station	C1 (NM3)							
Time (hh:mm)	8:36-8:39							
Water Depth (m)	16.04							
Monitoring Depth (m)	1.00		8.02		15.04			
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)	10:00-10:02							
Water Depth (m)	6.78							
Monitoring Depth (m)	1.00		3.39		5.78			
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	IMO1						Co-ordinates	
Time (hh:mm)	8:55-8:58						Northing	Easting
Water Depth (m)	16.67						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	Brownish water color was observed.							

Station	IMO2						Co-ordinates	
Time (hh:mm)	9:07-9:09						Northing	Easting
Water Depth (m)	10.30						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	Brownish water color was observed.							

Station	MPB1							
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	MPB2							
Time (hh:mm)	9:42-9:44							
Water Depth (m)	8.78							
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	MP							
Time (hh:mm)	9:23-9:24							
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.							

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean(C1+C2)*130%		IMO1		IMO2		Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level					Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	4.2	4.0	8.8	8.8	N	N	N	N	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	N	N	N	N
Turbidity (Depth-averaged)	NA	NA	18.7	NA	Y	NA	N	NA	Y	NA	Y	NA	Y	NA	N	NA	NA	NA
SS (Depth-averaged)	24.0	37.0	12.2	12.2	N	N	N	N	N	N	N	N	Y	N	N	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)	20.18							
Monitoring Depth (m)	1.00		10.09		19.18			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
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	IMO1						Co-ordinates	
Time (hh:mm)	14:43-14:45						Northing	Easting
Water Depth (m)	16.84						22.21.427	113.54.235
Monitoring Depth (m)	1.00		8.42		15.84			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	IMO2						Co-ordinates	
Time (hh:mm)	14:32-14:34						Northing	Easting
Water Depth (m)	11.27						22.21.047	113.54.484
Monitoring Depth (m)	1.00		5.63		10.27			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
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.							

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1								
Time (hh:mm)	14:10-14:11								
Water Depth (m)	8.37								
Monitoring Depth (m)	1.00		4.18		7.37				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
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	22.0	22.0	21.0	21.0	22.67	-	
Remarks	Brownish water color was observed.								

Station	MPB2							
Time (hh:mm)	14:18-14:20							
Water Depth (m)	8.72							
Monitoring Depth (m)	1.00		4.36		7.72			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
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	MP							
Time (hh:mm)	14:01-14:02							
Water Depth (m)	5.50							
Monitoring Depth (m)	1.00		2.75		4.50			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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.							

Mid-Flood

Station	MPB1							
Time (hh:mm)	10:27-10:29							
Water Depth (m)	8.26							
Monitoring Depth (m)	1.00		4.13		7.26			
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	MPB2							
Time (hh:mm)	10:37-10:38							
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		
Water Temperature (°C)	21.7	21.2	21.6	21.5	20.8	20.9	Depth-averaged	Bottom
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 water color was observed.							

Station	MP							
Time (hh:mm)	10:17-10:18							
Water Depth (m)	5.76							
Monitoring Depth (m)	1.00		2.88		4.76			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
Water Temperature (°C)	21.0	21.2	-	-	21.8	21.1	Depth-averaged	Bottom
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.							

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	Y	NA	Y	NA
N	N	N	N	N

Compliance with Action and Limit Level

[illegible]

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

Station	C2 (NM5)								
Time (hh:mm)	13:58-14:01								
Water Depth (m)	20.4								
Monitoring Depth (m)	1.0		10.2		19.4				
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	21.1	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	-	
Remarks	Dredging works and brownish water color were observed.								

Station	IMO1						Co-ordinates	
Time (hh:mm)	14:18-14:20						Northing	Easting
Water Depth (m)	11.8						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-averaged	Bottom
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	Dredging works was observed.							

Station	IMO2						Co-ordinates	
Time (hh:mm)	14:26-14:28						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	<i>Depth-averaged</i>	<i>Bottom</i>
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	16.0	15.0	19.0	19.0	15.33	-
Remarks	Dredging works was observed.							

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1								
Time (hh:mm)	13:30-13:32								
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	Dredging works and brownish water color were observed.								

Station	MPB2								
Time (hh:mm)	13:22-13:24								
Water Depth (m)	9.3								
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	MP							
Time (hh:mm)	13:39-13:43							
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-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	Dredging works and brownish water color were observed.							

Mid-Flood

Station	MPB1							
Time (hh:mm)	9:45-9:49							
Water Depth (m)	7.9							
Monitoring Depth (m)	1.0		4.0		6.9			
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	MPB2						Depth-averaged	Bottom
Time (hh:mm)	9:55-9:59							
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		
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	MP							
Time (hh:mm)	9:36-9:38							
Water Depth (m)	5.4							
Monitoring Depth (m)	1.0		2.7		4.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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.							

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	Y	NA	Y	NA
N	Y	Y	Y	Y

Parameter	As in EM&A		Mean(C1+C3)*130%		IMO1		IMO2		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit 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	Y	NA	Y	NA
SS (Depth-averaged)	24.0	37.0	31.6	31.6	Y	N	Y	N	N	N	Y	Y	Y	Y

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

Station	C2 (NM5)						Depth- averaged	Bottom
Time (hh:mm)	15:05-15:07							
Water Depth (m)	20.3							
Monitoring Depth (m)	1.0		10.2		19.3			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
Water Temperature (°C)	21.2	21.3	21.5	21.6	20.0	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	14.1	15.1	16.2	16.3	14.70	-
SS (mg/L)	8.0	8.0	11.0	10.0	9.0	10.0	9.33	-
Remarks	Dredging works was observed.							

Station	IMO1						Co-ordinates	
Time (hh:mm)	14:28-14:30						Northing	Easting
Water Depth (m)	11.2						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	13.7	13.2	20.8	20.2	14.15	-
SS (mg/L)	9.0	8.0	12.0	12.0	14.0	13.0	11.33	-
Remarks	Dredging works was observed.							

Station	IMO2						Co-ordinates	
Time (hh:mm)	14:19-14:22						Northing	Easting
Water Depth (m)	9.0						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	<i>Depth-averaged</i>	<i>Bottom</i>
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	11.4	12.9	15.1	15.6	11.65	-
SS (mg/L)	8.0	7.0	12.0	12.0	17.0	13.0	11.50	-
Remarks	Dredging works was observed.							

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1								
Time (hh:mm)	14:38-14:40								
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			
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	18.8	18.3	27.7	27.4	18.20	-	
SS (mg/L)	8.0	9.0	10.0	12.0	12.0	15.0	11.00	-	
Remarks	Dredging works was observed.								

Station	MPB2							
Time (hh:mm)	14:10-14:12							
Water Depth (m)	9.2							
Monitoring Depth (m)	1.0		4.6		8.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	18.8	18.1	25.5	26.0	18.63	-
SS (mg/L)	10.0	10.0	19.0	17.0	24.0	20.0	16.67	-
Remarks	Dredging works was observed.							

Station	MP						Depth-averaged	Bottom
Time (hh:mm)	14:48-14:49							
Water Depth (m)	5.8							
Monitoring Depth (m)	1.0		2.9		4.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2		
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	-	-	14.6	14.2	12.45	-
SS (mg/L)	11.0	9.0	-	-	11.0	12.0	10.75	-
Remarks	Dredging works was observed.							

Mid-Flood

Station	MPB1							
Time (hh:mm)	11:43-11:45							
Water Depth (m)	8.2							
Monitoring Depth (m)	1.0		4.1		7.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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	MPB2							
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		
Water Temperature (°C)	21.2	21.1	21.6	21.6	21.5	21.0	Depth-averaged	Bottom
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	MP							
Time (hh:mm)	11:34-11:36							
Water Depth (m)	5.8							
Monitoring Depth (m)	1.0		2.9		4.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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 works was observed.							

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	N	NA	Y	NA
N	N	N	N	N

[illegible]

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

Station	C2 (NM5)							
Time (hh:mm)	16:10-16:12							
Water Depth (m)	20.1							
Monitoring Depth (m)	1.0		10.1		19.1			
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	Dredging works was observed.							

Station	IMO1						Co-ordinates	
Time (hh:mm)	15:34-15:35						Northing	Easting
Water Depth (m)	10.5						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	<i>Depth-averaged</i>	<i>Bottom</i>
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	Dredging works and brownish water color were observed.							

Station	IMO2						Co-ordinates	
Time (hh:mm)	15:41-15:44						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	<i>Depth-averaged</i>	<i>Bottom</i>
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	Dredging works was observed.							

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1						Depth-averaged	Bottom
Time (hh:mm)	15:11-15:13							
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		
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	Dredging works was observed.							

Station	MPB2							
Time (hh:mm)	15:01-15:03							
Water Depth (m)	9.2							
Monitoring Depth (m)	1.0		4.6		8.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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	Dredging works was observed.							

Station	MP							
Time (hh:mm)	15:21-15:23							
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-averaged	Bottom
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.							

Mid-Flood

Station	MPB1							
Time (hh:mm)	12:19-12:21							
Water Depth (m)	8.4							
Monitoring Depth (m)	1.0		4.2		7.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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	MPB2							
Time (hh:mm)	12:30-12:32							
Water Depth (m)	8.9							
Monitoring Depth (m)	1.0		4.5		7.9			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	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)	12:11-12:12							
Water Depth (m)	5.8							
Monitoring Depth (m)	1.0		2.9		4.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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.							

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	Y	NA	Y	NA
N	N	N	Y	Y

Compliance with Action and Limit Level

[illegible]

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

Station	C2 (NM5)							
Time (hh:mm)	16:58-17:00							
Water Depth (m)	20.2							
Monitoring Depth (m)	1.0		10.1		19.2			
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	Dredging works was observed.							

Station	IMO1						Co-ordinates	
Time (hh:mm)	16:22-16:23						Northing	Easting
Water Depth (m)	10.4						22.21.367	113.54.236
Monitoring Depth (m)	1.0		5.2		9.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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	25.0	25.0	23.0	23.0	22.33	-
Remarks	Dredging works was observed.							

Station	IMO2						Co-ordinates	
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-averaged	Bottom
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	9.0	8.0	12.0	20.0	10.50	-
Remarks	Dredging works was observed.							

Compliance with Action and Limit Level

[illegible]

Mid-Ebb

Station	MPB1								
Time (hh:mm)	15:59:16:01								
Water Depth (m)	8.3								
Monitoring Depth (m)	1.0		4.2		7.3				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	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	11.0	16.0	18.0	19.0	14.67	-	
Remarks	Dredging works was observed.								

Station	MPB2							
Time (hh:mm)	15:49-15:51							
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)	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	10.0	12.0	11.0	14.0	13.0	11.33	-
Remarks	Dredging works was observed.							

Station	MP						Depth- averaged	Bottom
Time (hh:mm)	16:09-16:11							
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		
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.							

Mid-Flood

Station	MPB1							
Time (hh:mm)	12:40-12:42							
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)	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	Dredging works was observed.							

Station	MPB2							
Time (hh:mm)	12:51-12:52							
Water Depth (m)	8.8							
Monitoring Depth (m)	1.0		4.4		7.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	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 works was observed.							

Station	MP							
Time (hh:mm)	12:31-12:32							
Water Depth (m)	5.8							
Monitoring Depth (m)	1.0		2.9		4.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	<i>Depth-averaged</i>	<i>Bottom</i>
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	-	-	52.0	50.0	44.75	-
Remarks	Dredging works was observed.							

MPB1	MPB2		MP	
Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
N	N	N	N	N
N	N	N	N	N
NA	N	NA	Y	NA
N	N	N	Y	Y

Compliance with Action and Limit Level

[illegible]

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