



Environmental Monitoring and Audit for Contaminated Mud Pits to the South of The Brothers and at East Sha Chau (2012-2017) – Investigation *Agreement No. CE 23/2012(EP)*

8th Monthly Progress Report for Contaminated Mud Pits to the South of The Brothers and at East Sha Chau – April 2013

Revision 0

15 May 2013

Environmental Resources Management

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Client:		Project N	0:		
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v0	8 th Monthly Progress Report for CMP V and SB CMPs	RC	JT	CAR	15/5/13
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Dredging, Management and Capping of Contaminated Sediment Disposal Facility to the South of The Brothers

Environmental Certification Sheet EP-427/2011/A

Reference Document/Plan

Document/Plan-to be-Certified/ Verified: 8th Monthly Progress Report for Contaminated Mud Pits to the South of The Brothers and at East Sha Chau – April 2013

Date of Report: 15 May 2013

Date prepared by ET: 15 May 2013

Date received by IA: 15 May 2013

Reference EP Condition

Environmental Permit Condition: Condition No.: 4.4

4 hard copies and 1 electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of the reporting month. The EM&A Reports shall include a summary of all non-compliance (exceedances) of the environmental quality performance limits (Action and Limit Levels). The submissions shall be certified by the ET Leader and verified by the Independent Auditor. Additional copies of the submission shall be provided to the Director upon request by the Director.

ET Certification

I hereby certify that the above referenced document/ $\frac{1}{plan}$ complies with the above referenced condition of EP-427/2011/A

Craig A. Reid,

Environmental Team Leader:

Date:

15/5/2013

IA Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-427/2011/A

Dr Wang Wen Xiong, Independent Auditor: 🗸

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Date:

15/5/2013

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Agreement No. CE 23/2012 (EP)

Environmental Monitoring and Audit

for Contaminated Mud Pits at the South of The Brothers and at East Sha Chau (2012-2017) - Investigation

8TH MONTHLY PROGRESS REPORT FOR APRIL 2013

1.1 BACKGROUND

- 1.1.1 Since early 1990s, contaminated sediment (1) arising from various construction works in Hong Kong has been disposed of at a series of seabed pits at East of Sha Chau (ESC). In late 2008, a review indicated that the existing and planned facilities at ESC would not be able to meet the disposal demand after 2012. In order to meet this demand, the Hong Kong Special Administrative Region Government (HKSARG) decided to implement a new contained aquatic disposal (CAD) (2) facility at the South of The Brothers (SB CMPs) (hereafter referred to as "the Project") which had been under consideration for a number of years.
- 1.1.2 The environmental acceptability of the construction and operation of the Project had been confirmed by findings of the associated Environmental Impact Assessment (EIA) study completed in 2005 under *Agreement No. CE* 12/2002(EP) (3). The Director of Environmental Protection (DEP) approved this EIA report under the *Environmental Impact Assessment Ordinance* (Cap. 499) (EIAO) in September 2005 (EIA Register No.: AEIAR-089/2005).
- 1.1.3 In accordance with the EIA recommendation, prior to commencement of construction works for the SB CMPs, the Civil Engineering and Development Department (CEDD) undertook a detailed review and update of the EIA findings for the SB site (4). Findings of the EIA review undertaken in 2009/2010 confirmed that the construction and operation of the SB site had been predicted to be environmentally acceptable.

- (1) According to the Management Framework of Dredged / Excavated Sediment of ETWB TC(W) No. 34/2002, contaminated sediment in general shall mean those sediment requiring Type 2 Confined Marine Disposal as determined according to this TC(W).
- (2) CAD options may involve use of excavated borrow pits, or may involve purpose-built excavated pits. CAD sites are those which involve filling a seabed pit with contaminated mud and capping it with uncontaminated material such that the original seabed level is restored and the contaminated material is isolated from the surrounding marine environment.
- (3) Detailed Site Selection Study for a Proposed Contaminated Mud Disposal Facility within the Airport East / East of Sha Chau Area (Agreement No. CE 12/2002(EP))
- (4) Under the CEDD study Contaminated Sediment Disposal Facility to the South of The Brothers (Agreement No. FM 2/2009)

1.1.4 An *Environmental Permit* (*EP-427/2011*) was issued by the Environmental Protection Department (*EPD*) to the CEDD, the Permit Holder, on 3 November 2011 and varied on 23 December 2011 (*EP-427/2011/A*). Under the requirements of *Condition 4* of the *EP* (*EP-427/2011/A*), an Environmental Monitoring and Audit (EM&A) programme as set out in the EM&A Manual (1) is required to be implemented for the SB CMPs. The present EM&A programme undertaken under *Agreement No. CE 23/2012 (EP)* covers the dredging, disposal and capping operations of the SB CMPs.

1.2 REPORTING PERIOD

1.2.1 This Monthly Progress Report covers the EM&A activities for the reporting month of April 2013.

1.3 DETAILS OF SAMPLING AND LABORATORY TESTING ACTIVITIES

1.3.1 Impact Water Quality Monitoring during Dredging Operations of CMP 1 was conducted three times per week (ie 1, 3, 5, 8, 10, 12, 15, 17, 19, 22, 24, 26 and 29 April 2013) in this reporting month in accordance with the EM&A Manual.

1.4 DETAILS OF OUTSTANDING SAMPLING AND/OR ANALYSIS

1.4.1 No outstanding sampling remained from April 2013. Laboratory analysis of Suspended Solids (SS) collected after 24 April 2013 was still in progress during the preparation of this monthly report. A summary of field activities conducted are presented in *Annex A*.

1.5 Brief Discussion of the Monitoring Results for SB CMPs

1.5.1 Monitoring data collected for SB CMPs from 27 March to 24 April 2013 are presented in this monthly report. Detailed discussion will be presented in the corresponding *Quarterly Report*.

⁽¹⁾ ERM (2012) Environmental Monitoring and Audit (EM&A) Manual. Final First Review. Environmental Monitoring and Audit for Contaminated Mud Pits to the South of the Brothers and at East Sha Chau (2012-2017) – Investigation. Agreement No. CE 23/2012(EP). Submitted to EPD in November 2012.

1.5.2 Impact Water Quality Monitoring during Dredging Operations of CMP 1 – March and April 2013

- 1.5.3 Impact Water Quality Monitoring during Dredging Operations of CMP 1 was conducted three times per week with a total of thirteen (13) sampling days from 27 March to 24 April 2013. On each survey day, sampling was conducted during both mid-ebb and mid-flood tides at two Reference (Upstream) stations upstream and five Impact (Downstream) stations downstream of the dredging operations at CMP 1. Monitoring was also conducted at five Sensitive Receiver Stations (Ma Wan, Shum Shui Kok, Tai Mo To and Tai Ho Bay). A total of twelve stations were monitored and locations of the sampling stations are shown in Figure 1.1.
- 1.5.4 Monitoring results from 27 March to 24 April 2013 are presented in *Table B1* of *Annex B*. It should be noted that sampling at station THB2 during mid-flood tide of 5 April 2013, all sampling during mid-ebb tide of 5 April 2013 and all sampling during mid-flood tide of 19 April 2013 were not carried out due to adverse weather. Levels of Dissolved Oxygen (DO), Turbidity and SS generally complied with the Action and Limit Levels (see *Table B2* for details) set in the Baseline Monitoring Report ⁽¹⁾, except for the following occasions of exceedances shown in *Table 1.1* below.

Table 1.1 Details of exceedances recorded at CMP 1 between 27 March and 24 April 2013

Date	Tide	Parameter	Station	Type
27 March 2013	Ebb	Turbidity	WSR46	Action
27 March 2013	Ebb	SS	WSR46	Limit
27 March 2013	Flood	SS	DS2	Action
27 March 2013	Flood	SS	DS3	Action
29 March 2013	Ebb	SS	DS2	Action
29 March 2013	Flood	Turbidity	WSR46	Limit
29 March 2013	Flood	SS	WSR46	Action
10 April 2013	Ebb	Turbidity	WSR46	Action
10 April 2013	Ebb	SS	WSR46	Limit
10 April 2013	Flood	SS	DS4	Action
10 April 2013	Flood	SS	WSR45C	Action
12 April 2013	Flood	SS	WSR45C	Action
12 April 2013	Flood	Turbidity	WSR46	Action
12 April 2013	Flood	SS	WSR46	Action

ERM (2012) Baseline Monitoring Report. Environmental Monitoring and Audit for Contaminated Mud Pits to the South of the Brothers and at East Sha Chau (2012-2017) – Investigation. Agreement No. CE 23/2012(EP).
 Submitted to EPD in October 2012.

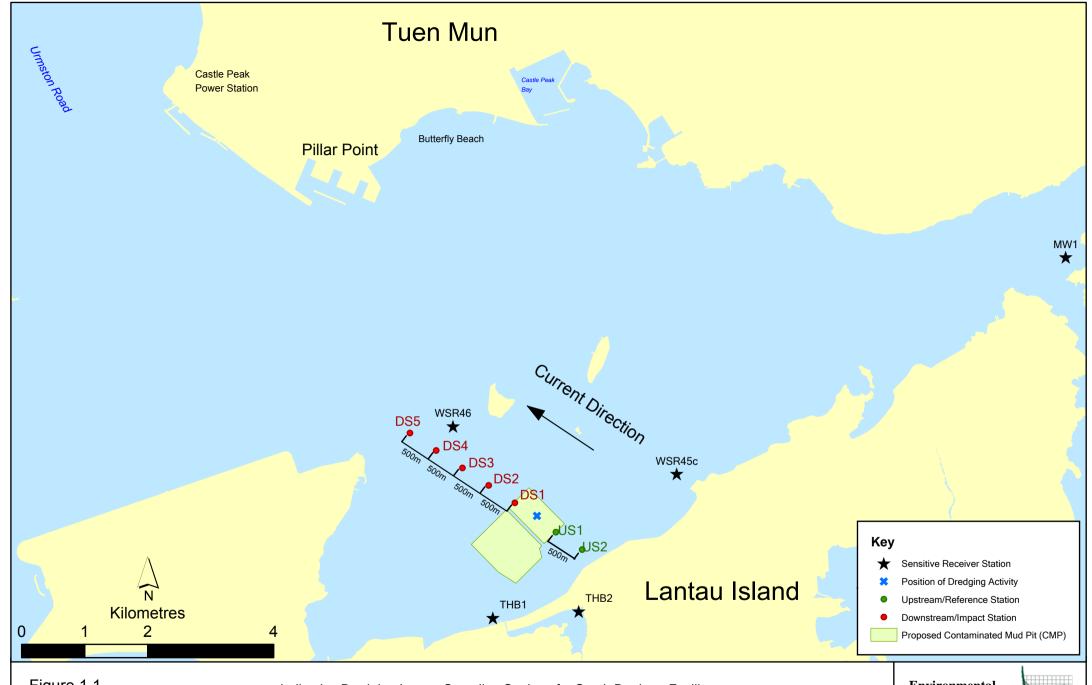


Figure 1.1

Indicative Dredging Impact Sampling Stations for South Brothers Facility

Note: The locations of sampling stations will be determined on site based on current direction and position of dredging activities

Environmental Resources Management



- 1.5.5 Stations DS2, DS3, DS4, WSR45C and WSR46 are located further away from the works area of CMP 1 when compared to station DS1 at which the levels of SS and Turbidity did not exceed the Action and Limit Levels. As such, the exceedances at these stations (ie DS2, DS3, DS4, WSR45C and WSR46) are not likely to be caused by the dredging works at CMP 1. It should be noted that high levels of Turbidity and SS were occasionally recorded during baseline monitoring which are considered to be sporadic events and characteristic of water quality in this area of Hong Kong. In addition, relatively higher levels of Turbidity and SS were recorded at all stations during the tidal periods when exceedances were recorded. Therefore, the Action and Limit Level exceedances may be caused by natural background variation in water quality of the area.
- 1.5.6 Overall, the results indicated that the dredging operations at CMP 1 of SB did not appear to cause any unacceptable deterioration in water quality during this reporting period. Therefore, no further mitigation measures, except for those recommended in the Environmental Permit (EP-427/2011/A), are considered necessary for the dredging operations.

1.6 ACTIVITIES SCHEDULED FOR THE NEXT MONTH

1.6.1 Impact Water Quality Monitoring during Dredging Operations for CMP 1 will be conducted three times per week in the next monthly period of May 2013. The sampling schedule is presented in *Annex A*.

1.7 STUDY PROGRAMME

1.7.1 A summary of the Study programme is presented in *Annex C*.

Annex A

Sampling Schedule

 $Annex\ A-Environmental\ Monitoring\ and\ Audit\ Sampling\ Schedule\ for\ South\ of\ The\ Brothers\ (July\ 2012-December\ 2017)$

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Annex A - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - December 2017)

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Annex A - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - December 2017)

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 $Annex\ A-Environmental\ Monitoring\ and\ Audit\ Sampling\ Schedule\ for\ South\ of\ The\ Brothers\ (July\ 2012-December\ 2017)$

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Notes:
"*" = Number of replicates depends on parameters
Naming of stations are tentative only and will be subjected to changes

Annex B

Results of Impact
Monitoring during
Dredging Operations of
CMP 1 in March and April
2013

Table B1 Summary Table of DO, Turbidity and SS Levels Recorded in March and April 2013

Sampling Date	Tidal Period	Station		DO Levels	Average Turbidity	Average SS Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
2013/3/27	Mid-Ebb	DS1	6.82	6.78	14.94	21.22
		DS2	6.80	6.80	18.28	19.67
		DS3	6.88	6.84	12.46	16.89
		DS4	6.77	6.88	10.72	13.00
		DS5	6.85	6.91	6.53	8.50
		US1	6.83	6.81	12.03	16.83
		US2	6.78	6.78	15.27	23.33
		MW1	6.56	6.61	2.65	5.33
		THB1	6.78	6.88	5.79	5.83
		THB2	-	6.04	8.35	8.33
		WSR45C	6.72	6.78	11.96	14.56
		WSR46	6.85	6.83	31.27	61.00
	Mid-Flood	DS1	6.70	6.77	12.32	15.67
		DS2	6.74	6.76	18.32	25.50
		DS3	6.76	6.78	18.60	24.33
		DS4	6.82	6.85	13.49	18.22
		DS5	6.83	6.84	13.17	17.50
		US1	6.75	6.87	9.67	14.56
		US2	6.76	6.83	6.48	9.22
		MW1	6.56	6.61	6.21	12.56
		THB1	6.85	6.94	12.34	14.83
		THB2	_	6.14	9.65	10.00
		WSR45C	6.70	6.76	8.57	13.22
		WSR46	6.85	6.89	10.58	11.67
2013/3/29	Mid-Ebb	DS1	6.60	6.61	16.99	16.56
		DS2	6.62	6.63	19.66	21.89
		DS3	6.66	6.65	16.29	16.00
		DS4	6.64	6.67	11.51	11.11
		DS5	6.72	6.71	8.49	8.33
		US1	6.67	6.66	11.67	14.67
		US2	6.66	6.65	19.28	23.33
		MW1	6.60	6.70	4.91	5.33
		THB1	6.78	6.80	9.82	9.67
		THB2	-	6.49	9.98	6.33
		WSR45C	6.62	6.66	11.86	11.56
		WSR46	6.67	6.69	11.13	11.56
	Mid-Flood	DS1	6.67	6.66	12.20	12.17
		DS2	6.68	6.70	9.10	9.00
		DS3	6.66	6.69	7.77	7.83
		DS4	6.65	6.66	11.98	12.67
		DS5	6.71	6.68	9.62	11.00
		US1	6.63	6.71	18.42	20.56
		US2	6.60	6.66	14.17	15.89
		MW1	6.56	6.64	6.87	8.00
		THB1	6.79	6.76	19.75	19.50
		THB2	_	6.29	8.35	9.67

Sampling Date	Tidal Period	Station		e DO Levels ng/L)	Average Turbidity	Average SS Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
		WSR46	6.70	6.74	65.15	27.44
2013/4/1	Mid-Ebb	DS1	6.80	6.91	9.69	12.33
		DS2	6.81	6.98	10.07	13.33
		DS3	6.74	6.99	10.14	15.33
		DS4	6.78	6.96	10.22	12.44
		DS5	6.88	6.97	7.83	8.83
		US1	6.75	6.79	11.20	13.33
		US2	6.77	6.76	18.76	24.89
		MW1	6.78	6.91	4.10	4.33
		THB1	7.01	7.09	11.05	11.33
		THB2	-	6.64	7.15	8.67
		WSR45C	6.76	6.90	13.93	17.89
		WSR46	6.71	6.85	8.74	9.33
	Mid-Flood	DS1	6.91	6.91	7.18	6.83
		DS2	6.89	6.89	7.18	7.00
		DS3	6.93	6.95	7.22	7.33
		DS4	6.77	6.82	12.63	17.67
		DS5	6.87	6.95	6.73	6.67
		US1	6.51	6.75	8.40	7.56
		US2	6.55	6.67	13.09	15.11
		MW1	6.57	6.60	3.87	3.67
		THB1	6.77	6.83	10.52	13.67
		THB2	-	6.78	6.92	9.00
		WSR45C	6.67	6.71	7.84	9.00
		WSR46	6.61	6.71	15.18	15.33
2013/4/3	Mid-Ebb	DS1	6.56	6.81	9.67	11.11
		DS2	6.63	6.78	7.33	12.78
		DS3	6.56	6.65	8.40	10.78
		DS4	6.59	6.68	5.06	7.89
		DS5	6.47	6.48	5.45	7.00
		US1	6.68	6.83	5.95	7.00
		US2	6.66	6.78	9.28	11.17
		MW1	6.67	6.72	1.77	4.00
		THB1	6.32	6.40	7.77	8.83
		THB2	-	6.26	8.62	7.00
		WSR45C	6.43	6.67	5.26	5.11
		WSR46	6.76	6.81	5.29	6.00
	Mid-Flood	DS1	6.73	6.98	6.33	9.00
		DS2	7.06	7.09	4.42	5.00
		DS3	7.04	7.04	4.27	4.83
		DS4	6.86	7.07	4.48	4.67
		DS5	6.60	6.99	5.27	5.44
		US1	6.83	6.82	2.59	3.56
		US2	6.71	6.78	2.90	3.22
		MW1	6.61	6.66	1.69	5.89
		THB1	6.58	6.70	6.10	9.50
		THB2	-	7.02	10.58	16.00
		WSR45C	6.59	6.62	2.67	7.22
		WSR46	6.78	6.83	3.78	8.89
2013/4/5	Mid-Flood	DS1	7.01	7.07	6.38	8.50
•		DS2	7.04	7.06	5.52	8.50

Sampling Date	Tidal Period	Station		DO Levels ng/L)	Average Turbidity	Average S Level
	-		Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
		DS3	7.05	7.05	4.70	6.83
		DS4	7.09	7.11	5.20	8.67
		DS5	6.75	7.05	7.28	8.78
		US1	6.84	7.07	4.29	5.11
		US2	6.63	6.96	4.54	6.33
		MW1	6.52	6.85	2.28	5.44
		THB1	7.15	7.23	5.47	7.00
		THB2	-	-	-	-
		WSR45C	6.62	6.97	5.00	6.78
		WSR46	6.67	6.99	5.98	7.89
2013/4/8	Mid-Ebb	DS1	6.71	6.75	7.99	16.44
, ,		DS2	6.71	6.77	4.59	7.78
		DS3	6.71	6.70	5.41	9.44
		DS4	6.66	6.64	5.87	9.50
		DS5	6.65	6.64	6.67	17.33
		US1	7.02	7.01	13.48	17.33
		US2	6.98	6.97	15.10	18.83
		MW1	6.73	6.79	2.85	7.56
		THB1	6.96	7.07	4.17	5.00
		THB2	-	6.41	8.25	6.33
		WSR45C	6.74	6.78	6.25	8.67
		WSR46	6.95	7.08	12.69	14.33
	Mid-Flood	DS1	7.20	7.20	8.43	10.00
	11110 11000	DS2	7.16	7.21	9.02	9.67
		DS3	7.19	7.23	11.20	14.33
		DS4	7.23	7.27	11.10	12.78
		DS5	7.16	7.23	9.00	14.17
		US1	6.85	7.05	9.22	10.56
		US2	6.77	6.89	12.43	14.11
		MW1	6.82	6.86	5.06	11.67
		THB1	7.00	6.92	10.62	14.33
		THB2	7.00	6.54	7.75	10.67
		WSR45C	6.92	7.11	11.24	16.00
		WSR46	7.06	7.11	9.31	9.89
2013/4/10	Mid-Ebb	DS1	6.70	6.80	8.21	12.33
- ∪1∪/ T / 1U	1411M-1700	DS1 DS2	6.85	6.94	5.62	7.89
		DS3	6.85	6.94	7.10	10.22
		DS4	6.76	6.85	6.84	10.22
		DS5	6.92	6.88	8.27	12.33
		US1	6.93	6.95	20.62	26.33
		US2	6.93	6.90	25.48	34.83
		MW1	6.62	6.68	4.70	7.78
		THB1	6.99	7.01	5.90	7.78 7.17
		THB1	6.99 -	7.01 6.46	5.90 9.37	8.00
		WSR45C		6.46		
		WSR45C WSR46	6.67		10.28	13.11
	Mid Flood		6.96	7.04	33.37	41.78
	Mid-Flood	DS1	6.94	6.93	8.03	12.05
		DS2	6.93	6.94	10.28	16.17
		DS3	6.90	6.94	10.75	13.50
		DS4	6.76	6.80	22.64	31.44
		DS5	6.75	6.74	15.32	20.33

Sampling Date	Tidal Period	Station		e DO Levels ng/L)	Average Turbidity	Average SS Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
		US1	6.67	6.74	16.42	21.44
		US2	6.66	6.69	8.37	11.56
		MW1	6.58	6.62	10.90	16.00
		THB1	6.78	6.75	19.67	19.50
		THB2	-	6.83	9.48	8.00
		WSR45C	6.70	6.77	16.24	21.89
		WSR46	6.91	6.93	16.98	17.00
2013/4/12	Mid-Ebb	DS1	6.80	6.86	9.67	17.44
		DS2	6.87	6.91	8.02	17.44
		DS3	6.82	6.94	7.08	16.00
		DS4	6.84	6.91	6.04	16.11
		DS5	6.84	6.84	8.65	17.00
		US1	6.72	6.73	15.93	19.83
		US2	6.68	6.67	19.61	24.89
		MW1	6.61	6.68	5.47	14.11
		THB1	6.81	6.84	7.92	14.83
		THB2	-	6.95	7.98	13.00
		WSR45C	6.80	6.85	13.13	20.22
		WSR46	6.75	6.75	13.23	19.56
	Mid-Flood	DS1	6.76	6.74	10.12	20.67
		DS2	6.76	6.74	11.22	16.17
		DS3	6.77	6.77	6.62	14.33
		DS4	6.68	6.71	9.71	19.22
		DS5	6.78	6.77	7.62	15.67
		US1	6.59	6.73	11.91	15.67
		US2	6.53	6.69	8.76	17.78
		MW1	6.59	6.73	4.90	12.56
		THB1	6.81	6.83	9.87	16.00
		THB2	-	6.55	6.28	14.00
		WSR45C	6.60	6.75	10.08	22.11
		WSR46	6.69	6.74	29.69	37.89
2013/4/15	Mid-Ebb	DS1	6.51	6.64	8.90	15.22
		DS2	6.64	6.74	8.00	15.89
		DS3	6.68	6.86	5.76	9.56
		DS4	6.80	6.84	4.76	7.33
		DS5	6.81	6.82	4.93	8.00
		US1	6.91	6.97	3.95	5.50
		US2	6.85	6.86	4.77	9.17
		MW1	6.64	6.77	4.04	6.33
		THB1	6.92	6.97	4.47	5.33
		THB2	-	6.90	4.44	9.00
		WSR45C	6.55	6.83	6.10	12.44
		WSR46	6.52	6.66	11.85	17.44
	Mid-Flood	DS1	6.65	6.62	9.20	14.17
		DS2	6.67	6.64	5.77	10.00
		DS3	6.72	6.71	4.72	6.17
		DS4	6.62	6.74	5.47	7.56
		DS5	6.73	6.73	4.75	8.83
		DS5 US1	6.73 6.58	6.73 6.61	4.75 4.73	8.83 8.33
		DS5 US1 US2	6.73 6.58 6.51	6.73 6.61 6.58	4.75 4.73 11.44	8.83 8.33 19.56

Sampling Date	Tidal Period	Station	Average DO Levels (mg/L)		Average Turbidity	Average SS Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
		THB1	6.51	6.52	11.24	11.00
		THB2	-	6.39	6.61	4.33
		WSR45C	6.51	6.58	5.29	8.33
		WSR46	6.51	6.66	18.80	16.00
2013/4/17	Mid-Ebb	DS1	6.93	7.27	4.22	6.89
		DS2	7.10	7.39	4.50	7.11
		DS3	7.09	7.35	3.80	4.22
		DS4	7.39	7.46	3.33	3.56
		DS5	7.57	7.58	3.20	3.67
		US1	7.12	7.43	3.78	4.17
		US2	7.24	7.43	4.98	7.50
		MW1	6.45	6.90	3.59	4.33
		THB1	6.60	6.84	5.74	4.50
		THB2	-	6.37	7.23	7.67
		WSR45C	6.35	7.05	6.57	13.11
		WSR46	6.36	6.86	5.10	7.44
	Mid-Flood	DS1	6.79	6.71	3.82	5.33
		DS2	6.83	6.82	3.18	4.67
		DS3	6.78	6.87	3.93	7.83
		DS4	6.66	6.81	4.10	6.11
		DS5	6.96	6.92	3.32	4.67
		US1	6.48	6.73	3.42	6.56
		US2	6.58	6.69	2.67	4.67
		MW1	6.42	6.69	2.65	4.33
		THB1	6.71	6.92	5.50	6.50
		THB2	_	5.95	4.68	8.00
		WSR45C	6.26	6.65	4.69	4.44
		WSR46	6.36	6.64	7.86	11.11
2013/4/19	Mid-Ebb	DS1	6.99	7.58	3.31	4.56
, ,		DS2	6.56	7.17	3.40	5.22
		DS3	6.88	7.15	2.63	4.44
		DS4	6.87	7.16	2.82	4.11
		DS5	7.05	7.30	2.68	4.00
		US1	7.11	8.00	7.87	7.33
		US2	6.94	7.66	7.02	6.67
		MW1	6.33	6.98	1.70	4.00
		THB1	5.98	7.93	6.42	7.50
		THB2	-	7.04	4.77	6.67
		WSR45C	6.10	6.82	5.01	7.78
		WSR46	6.37	6.63	4.56	5.67
2013/4/22	Mid-Ebb	DS1	6.51	6.71	7.37	7.78
2013/ 1/ 22	Wild Lob	DS2	6.54	6.66	6.53	12.00
		DS3	6.55	6.70	5.36	8.56
		DS4	6.54	6.67	4.73	7.33
		DS5	6.44	6.54	5.18	10.33
		US1	6.85	6.94	13.31	20.33
		US2	6.87	6.87	26.30	37.67
		MW1	6.51	6.75	4.78	9.11
		THB1	7.14	7.18		
		THB2			6.04 3.21	11.17 7.67
		WSR45C	- 6.42	7.04	3.21	7.67
		VV SIN43C	6.42	6.72	5.55	11.00

Sampling				Average	Average SS	
Date	Period		(mg/L)		Turbidity	Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
		WSR46	6.52	6.92	7.70	11.00
	Mid-Flood	DS1	7.01	7.20	14.95	17.83
		DS2	7.35	7.36	3.95	10.50
		DS3	7.27	7.32	4.84	11.56
		DS4	7.32	7.34	8.14	10.67
		DS5	7.56	7.58	7.80	9.50
		US1	6.77	6.95	5.90	9.33
		US2	6.58	6.89	5.16	8.67
		MW1	6.53	6.63	5.14	9.67
		THB1	6.84	6.80	10.80	15.00
		THB2	-	7.12	3.04	10.67
		WSR45C	6.54	6.81	5.99	7.22
		WSR46	6.58	7.30	6.10	10.11
2013/4/24	Mid-Ebb	DS1	6.77	6.81	9.64	17.44
		DS2	6.82	6.84	9.36	10.67
		DS3	6.90	7.00	6.90	10.67
		DS4	7.00	7.04	6.73	8.83
		DS5	6.88	6.86	7.83	10.83
		US1	6.77	6.81	8.47	13.00
		US2	6.76	6.79	9.53	13.33
		MW1	6.53	6.67	5.61	11.44
		THB1	7.08	7.17	7.82	6.67
		THB2	-	7.23	3.71	6.33
		WSR45C	6.76	6.82	11.33	18.78
		WSR46	6.75	6.70	18.26	17.67
	Mid-Flood	DS1	6.84	6.83	7.23	7.17
		DS2	6.92	6.88	7.33	12.67
		DS3	6.95	6.96	6.52	10.00
		DS4	7.01	7.00	7.53	9.50
		DS5	7.02	7.04	10.57	14.00
		US1	6.75	7.02	11.82	17.78
		US2	6.72	6.84	7.92	12.89
		MW1	6.49	6.53	9.78	12.33
		THB1	7.06	7.13	5.19	4.50
		THB2	-	7.70	3.91	6.67
		WSR45C	6.61	6.80	9.65	11.33
		WSR46	6.71	6.70	16.74	18.00

Notes:

- 1. Please refer to Table B2 below for the Action and Limit Levels for dredging activities.
- 2. Cell shaded yellow indicated value exceeding the Action Level criteria.
- 3. Cell shaded red indicated value exceeding the Limit Level criteria.
- 4. Only mid-depth water was sampled at Station THB2 because water depth was less than
- 5. Sampling at Station THB2 during mid-flood tide of 5 April 2013, all sampling during midebb tide of 5 April 2013 and all sampling during mid-flood tide of 19 April 2013 were not carried out due to adverse weather.

Table B2 Action and Limit Levels of Water Quality for Dredging, Backfilling and Capping Activities

Parameter	Action Level	Limit Level		
Dissolved Oxygen (DO) (1)	Surface and Mid-depth (2)	Surface and Mid-depth (2)		
Dibberred Onlygen (DO)	The average of the impact, WSR	The average of the impact, WSR		
	45C and WSR 46 station readings	45C and WSR 46 station readings		
	are < 5%-ile of baseline data for	are < 4 mg L ⁻¹		
	surface and middle layer = 4.32 mg			
	L-1	and		
	-	uru		
	and	Significantly less than the reference		
		stations mean DO (at the same tide		
	Significantly less than the reference	of the same day)		
	stations mean DO (at the same tide	3,		
	of the same day)			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Bottom	Bottom		
	The average of the impact, WSR	The average of the impact station,		
	45C and WSR 46 station readings	WSR 45C and WSR 46 readings are		
	are < 5%-ile of baseline data for	< 2 mg L ⁻¹		
	bottom layers = 3.12 mg L ⁻¹			
		and		
	and			
		Significantly less than the reference		
	Significantly less than the reference	stations mean DO (at the same tide		
	stations mean DO (at the same tide	of the same day)		
	of the same day)			
Depth-averaged	The average of the impact, WSR	The average of the impact, WSR		
Suspended Solids (SS) (3) (4)	45C and WSR 46 station readings	45C and WSR 46 station readings		
	are > 95%-ile of baseline data for	are > 99%-ile of baseline data for		
	depth average = 21.60 mg L ⁻¹	depth average = 40.10 mg L-1		
	and	and		
	120% of control station's SS at the	130% of control station's SS at the		
	same tide of the same day	same tide of the same day		
Depth-averaged Turbidity	The average of the impact, WSR	The average of the impact, WSR		
(Tby) (3) (4)	45C and WSR 46 station readings	45C and WSR 46 station readings		
(1 <i>by</i>) · · · ·	are > 95%-ile of baseline data =	are > 99%-ile of baseline data =		
	25.04 NTU	56.30 NTU		
	and	and		
	120% of control station's Tby at the	130% of control station's Tby at the		
	same tide of the same day	same tide of the same day		
	2 due of the suite day	zame day		

Notes:

- (1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.
- 3) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- (4) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Annex C

Study Programme

