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Special Administrative Region

Drainage Services Department

Agreement No. HATS 02/2008
Hire of Services for Environmental Consultant for
Harbour Area Treatment Scheme Stage
2A
Advance Disinfection Facilities
At Stonecutters Island Sewage Treatment Works

Final Review Report

February 2014

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1 INTRODUCTION

1.1 Background

- 1.1.1 AECOM was commissioned by Drainage Services Department (DSD) of Hong Kong SAR Government to provide environmental consultant services for Harbour Area Treatment Scheme (HATS) Stage 2A Advance Disinfection Facilities (ADF) at Stonecutters Island Sewage Treatment Works (SCISTW) (the Project). The objective is to provide services as an Environmental Consultant (EC) in accordance with the EP and Final EM&A Manual issued for the Project, as well as to perform other duties of the EC as specified in the Consultancy Brief.
- 1.1.2 Baseline monitoring was conducted by Monitoring Team (MT) from October 2008 to September 2009. Samples from effluent and marine monitoring points were collected, with Total Residual Chlorine (TRC) and 9 Chlorination By-products (CBPs) monitored monthly, and 25 Contaminants of Concern (COCs) monitored quarterly. Sediment Quality Monitoring and Benthic Survey were conducted twice in the year.
- 1.1.3 The Project was in operation in March 2010, and the first year operation monitoring was conducted by MT from March 2010 to February 2011. Samples from effluent and marine monitoring points were collected, with TRC and 9 CBPs monitored monthly and 25 COCs monitored quarterly. Sediment Quality Monitoring and Benthic Survey were conducted twice in the year. Whole Effluent Toxicity Test (WETT) was conducted monthly. To review the overall performance ADF, this Final Review Report also covers operation monitoring conducted by MT from March 2011 to April 2013. Samples from effluent and marine monitoring points were collected, with TRC and 9 CBPs and 25 COCs monitored at frequency agreed by the DSD and the EPD. Sediment Quality Monitoring and Benthic Survey were ceased after review on first year operation. Whole Effluent Toxicity Test (WETT) was conducted quarterly since April 2013.

1.2 Purpose of this Report

- 1.2.1 The purpose of the Final Review Report is to summarize the monitoring results of the operation of the Project and review the overall environmental performance of the Project.

1.3 Structure of this Report

- 1.3.1 This report comprises the following sections:

Section 1 – Introduction
Section 2 – Operational Data and Monitoring Results
Section 3 – Review and Analysis of Operation Monitoring Data
Section 4 – Review on Risk Assessments
Section 5 – Review on Monitoring Frequency
Section 6 – Review on Overall Environmental Performance
Section 7 – Conclusions

2 OPERATIONAL DATA AND MONITORING RESULTS

2.1 Introduction

2.1.1 Summaries of monitoring data recorded during the operation of the Project for the monitoring parameters as required in the Final EM&A Manual are presented in this Section. Review and analysis of the operation monitoring results are given in Section 3 of this report.

2.2 Chemical Dosage Records

2.2.1 According to the Clause 4.8 of the Final EM&A Manual, daily chemical dosage records were collected from DSD. The summary is tabulated in **Table 2.1** below and detailed in **Appendix A**.

Table 2.1 Summary of Chemical Dosage Records

Month	Average Sodium Hypochlorite Dosage (mg Cl ₂ /L)	Average Sodium Bisulphite Dosage (mg NaHSO ₃ /L)
March 2010	13.7	7.2
April 2010	14.7	7.0
May 2010	12.7	6.8
June 2010	10.9	6.2
July 2010	10.7	6.2
August 2010	11.2	6.5
September 2010	11.9	6.4
October 2010	10.0	5.7
November 2010	11.2	2.9
December 2010	13.4	3.0
January 2011	9.6	3.2
February 2011	12.2	3.7
March 2011	13.8	4.4
April 2011	18.3	3.2
May 2011	18.5	3.5
June 2011	18.4	3.8
July 2011	18.6	3.3
August 2011	18.2	2.9
September 2011	17.8	3.2
October 2011	16.0	3.8
November 2011	17.8	3.2
December 2011	16.1	5.7
January 2012	11.8	4.6
February 2012	12.3	4.5
March 2012	14.6	3.8
April 2012	15.9	3.1
May 2012	17.5	2.9
June 2012	17.3	3.1
July 2012	17.0	3.7
August 2012	18.0	2.6
September 2012	18.2	2.6
October 2012	14.7	2.7
November 2012	11.1	2.7
December 2012	10.8	2.8
January 2013	10.3	2.7
February 2013	9.2	2.9
March 2013	12.0	2.9
April 2013	14.9	2.9
Average	14.2	4.0

2.3 Effluent Quality

TRC, CBPs and COCs in Effluent

- 2.3.1 As referred to Clause 4.9 to 4.20 and Clause 5.4 to 5.6 of the Final EM&A Manual, monthly effluent monitoring was carried out at existing Chamber No. 15, and the sampling location of effluent from SCISTW is shown in **Figure 2.1**.
- 2.3.2 Details on effluent quality monitoring data (TRC, CBPs and COCs) are shown in **Appendix B**. Most monitoring parameters recorded during the operation are below the detection limits. Monitoring parameters with values above the detection limits are summarized in **Table 2.2** below.

Table 2.2 Summary of Effluent Quality Monitoring Results (TRC, CBPs and COCs) With Values Higher Than Detection Limits

Month	Concentration (µg/L)					
	TRC	Bromoform	Bromodichloromethane	Chloroform	Dibromochloromethane	Bromoacetic acid
March 2010	<5	<0.1	<0.1	<0.1	<0.2	<2
April 2010	<5	<0.1	<0.1	<0.1	<0.2	<2
May 2010	<5	<0.1	<0.1	<0.1	<0.2	<2
June 2010	<5	<0.1	<0.1	<0.1	<0.2	<2
July 2010	<5	<0.1	<0.1	4.3	<0.2	<2
August 2010	<5	<0.1	<0.1	2.1	<0.2	<2
September 2010	<5	<0.1	<0.1	<0.1	<0.2	<2
October 2010	24	<0.1	<0.1	3.5	<0.2	<2
November 2010	87	<0.1	<0.1	0.1	<0.2	<2
December 2010	43	<0.1	<0.1	0.1	<0.2	<2
January 2011	25	<0.1	<0.1	0.1	<0.2	<2
February 2011	<5	<0.1	<0.1	0.1	<0.2	<2
March 2011	82	<0.1	<0.1	<0.1	<0.2	<2
April 2011	88	<0.1	<0.1	<0.1	<0.2	<2
June 2011	<5	<0.1	<0.1	<0.1	<0.2	3
August 2011	31	<0.1	<0.1	2	<0.2	<2
September 2011	-	-	-	-	-	-
October 2011	26	<0.1	<0.1	<0.1	<0.2	3
December 2011	22	<0.1	<0.1	<0.1	<0.2	<2
February 2012	<5	<0.1	<0.1	<0.1	<0.2	<2
April 2012	11	<0.1	<0.1	<0.1	<0.2	<2
July 2012	8	<0.1	<0.1	<0.1	<0.2	<2
October 2012	11	0.6	0.7	0.5	0.5	<2
January 2013	<10	<1	<1	<1	<1	<5
April 2013	<10	<1	<1	<1	<1	<1

Table 2.2 Summary of Effluent Quality Monitoring Results (TRC, CBPs and COCs) With Values Higher Than Detection Limits (Cont)

Month	Concentration (µg/L)				Methylene chloride*
	Chloroacetic acid	Dibromoacetic acid	Dichloroacetic acid	Trichloroacetic acid	
March 2010	<2	<2	<2	<2	-
April 2010	<2	<2	<2	<2	-
May 2010	<2	<2	<2	<2	<20
June 2010	<2	<2	<2	<2	-
July 2010	<2	<2	<2	<2	-
August 2010	<2	9	9	7	53
September 2010	<2	<2	<2	<2	-
October 2010	<2	9	9	7	-
November 2010	<2	8	8	7	23
December 2010	<2	7	7	7	-
January 2011	<2	8	8	7	-
February 2011	<2	7	7	7	<20
March 2011	<2	7	7	8	-
April 2011	<2	8	8	8	-
June 2011	<2	10	10	8	<20
August 2011	5	14	14	11	-
September 2011	-	-	-	-	<20
October 2011	<2	11	11	9	-
December 2011	<2	8	8	9	<20
February 2012	6	12	12	9	-
April 2012	6	10	10	5	<20
July 2012	5	7	7	5	<20
October 2012	<2	12	12	10	<20
January 2013	<5	<5	<5	<1	-
April 2013	<5	<5	<5	<1	<20

* Methylene chloride was monitored quarterly.

E.coli in Effluent

- 2.3.3 As referred to the Final EM&A Manual Clause 4.21 and 4.40, *E. coli* records in effluent during the operation period were collected by DSD and the summary is tabulated in Table 2.3 below and detailed in Appendix H.

Table 2.3 Summary of Effluent Quality Monitoring Results (*E. coli*)

Month	Geometric Mean of <i>E. coli</i> (number per 100mL)	95 percentile of <i>E. coli</i> (number per 100mL)
Mar-10	11,916	931,000
Apr-10	14,141	660,000
May-10	27,427	810,000
Jun-10	24,462	1,360,000
Jul-10	10,305	199,000
Aug-10	6,667	42,850
Sep-10	1,979	37,000
Oct-10	2,142	21,000
Nov-10	1,449	184,650
Dec-10	367	2,860
Jan-11	278	2,920
Feb-11	282	495
Mar-11	348	4060
Apr-11	1480	23600
May-11	1652	65500
Jun-11	3267	414000
Jul-11	347	4650
Aug-11	7091	590500
Sep-11	1718	578000
Oct-11	1408	1231500
Nov-11	10481	2335000
Dec-11	71	940
Jan-12	81	1404
Feb-12	20	166
Mar-12	32	7600
Apr-12	942	224400
May-12	6417	473500
Jun-12	14120	893000
Jul-12	1418	400000
Aug-12	1272	301600
Sep-12	18188	2060000
Oct-12	19881	863500
Nov-12	22678	2020000
Dec-12	1962	1640000
Jan-13	354	1105
Feb-13	2989	1026000
Mar-13	125	2000
Apr-13	152	1780

2.4 Marine Water Quality

TRC, CBPs and COCs in Marine Water

- 2.4.1 Based on the requirements stated in Clause 4.25 to 4.30 and 5.7 to 5.9 of the Final EM&A Manual, monthly marine water quality monitoring was carried out at monitoring stations 1~4, SM6 and SM12, as shown in **Figure 2.2** with coordinates given in **Table 2.4**.

Table 2.4 Marine Water Quality Monitoring Stations

Station	Description	Coordinates	
		Easting	Northing
1	Edge of Mixing Zone (northwest of effluent diffuser)	829762.00	819604.47
2	Edge of ZID (northwest of effluent diffuser)	830117.99	819251.93
3	Edge of ZID (southeast of effluent diffuser)	830186.21	819184.37
4	Edge of Mixing Zone (southeast of effluent diffuser)	830525.00	818848.87
SM6	Control Station	826179.81	805902.89
SM12	Control Station	819524.19	808420.40

- 2.4.2 All monitoring parameters, except TRC and bromoform recorded during the operation (Mar 13 – Apr 13) are below the detection limits. The measured values of TRC and bromoform at different marine water quality monitoring stations are summarized in **Table 2.5** and **Table 2.6** respectively. A complete table showing the marine water quality monitoring results of all parameters (TRC, CBPs and COCs) can be found in **Appendix C**.

Table 2.5 Summary of Marine Water Quality Monitoring Results (TRC) at Different Marine Water Quality Monitoring Stations

Month	Average Concentration of TRC (µg/L)					
	Station 1	Station 2	Station 3	Station 4	Station SM6	Station SM12
March 2010	<5	<5	<5	<5	<5	<5
April 2010	<5	<5	<5	<5	<5	<5
May 2010	<5	<5	<5	<5	<5	<5
June 2010	<5	<5	<5	<5	<5	<5
July 2010	<5	<5	<5	<5	<5	<5
August 2010	<5	<5	<5	<5	<5	<5
September 2010	<5	<5	<5	<5	<5	<5
October 2010	<5	<5	<5	<5	<5	<5
November 2010	<5	<5	<5	<5	<5	<5
December 2010	<5	<5	<5	<5	<5	<5
January 2011	<5	<5	<5	<5	<5	<5
February 2011	<5	<5	<5	<5	<5	<5
March 2011	<5	<5	<5	<5	<5	<5
April 2011	<5	<5	<5	<5	<5	<5
June 2011	<5	<5	<5	<5	<5	<5
August 2011	<5	<5	<5	<5	<5	<5
September 2011	<5	<5	<5	<5	<5	<5
October 2011	<5	<5	<5	<5	<5	<5
December 2011	<5	<5	<5	<5	<5	<5
February 2012	<5	<5	<5	<5	<5	<5
April 2012	<5	<5	<5	<5	<5	<5
July 2012	<5	<5	<5	<5	<5	<5

Month	Average Concentration of TRC (µg/L)					
	Station 1	Station 2	Station 3	Station 4	Station SM6	Station SM12
October 2012	<5	<5	<5	<5	<5	<5
January 2013	10	20	20	20	10	10
April 2013	<10	<10	<10	<10	<10	<10

Table 2.6 Summary of Marine Water Quality Monitoring Results (Bromoform) at Different Marine Water Quality Monitoring Stations

Month	Average Concentration of Bromoform (µg/L)					
	Station 1	Station 2	Station 3	Station 4	Station SM6	Station SM12
March 2010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
April 2010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
May 2010	0.75	0.7	0.3	0.5	0.4	0.2
June 2010	0.3	0.25	0.2	0.2	0.2	0.2
July 2010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
August 2010	0.2	0.2	0.2	0.2	0.2	0.1
September 2010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
October 2010	0.1	0.1	0.1	0.1	<0.1	<0.1
November 2010	0.1	0.15	0.1	0.1	0.1	0.1
December 2010	0.1	0.15	0.1	0.1	0.1	0.1
January 2011	<0.1	0.1	0.1	0.2	0.1	0.1
February 2011	0.1	0.1	<0.1	0.1	<0.1	<0.1
March 2011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
April 2011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
June 2011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
August 2011	0.3	0.3	0.5	0.5	0.4	0.3
September 2011	-	-	-	-	-	-
October 2011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
December 2011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
February 2012	0.3	0.4	0.4	0.4	0.5	0.5
April 2012	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
July 2012	0.2	0.2	0.2	0.2	0.1	<0.1
October 2012	0.3	0.4	0.4	0.3	0.2	<0.1
January 2013	<1	<1	<1	<1	<1	<1
April 2013	<1	<1	<1	<1	<1	<1

2.5 Sediment Quality during Operation Phase

CBPs and COCs in Sediment during First Year Operation Phase

- 2.5.1 As stated in Clause 7.4 to 7.11 of the Final EM&A Manual, sediment quality monitoring was carried out twice a year during First Year Operation Phase at monitoring stations 1~4, WS1 VS6, SS3 and SS4, as shown in Figure 2.3 with coordinates given as in Table 2.7.

Table 2.7 Sediment Quality Monitoring Stations

Station	Description	Coordinates	
		Easting	Northing
Near Field Stations			
1	Edge of Mixing Zone (northwest of effluent diffuser)	829762.00	819604.47
2	Edge of ZID (northwest of effluent diffuser)	830117.99	819251.93
3	Edge of ZID (southeast of effluent diffuser)	830186.21	819184.37
4	Edge of Mixing Zone (southeast of effluent diffuser)	830525.00	818848.87
Mid Field Stations			
WS1	EPD Sediment Monitoring Station	828048.67	820118.17
VS6	EPD Sediment Monitoring Station	832495.44	817473.60
Far Field Stations			
SS3	EPD Sediment Monitoring Station	826179.81	805902.89
SS4	EPD Sediment Monitoring Station	825718.54	810037.23

2.5.2 The monitoring results for all parameters measured under the sediment quality monitoring programme were below their respective detection limits and are shown in Appendix D.

2.6 Benthic Survey Data during Operation Phase

2.6.1 As stated in Clause 7.6 to 7.21 of the Final EM&A Manual, benthic survey was carried out twice a year at same monitoring stations as the sediment quality monitoring during the first year of operation. In addition to the monitoring during the first year operation, additional benthic surveys conducted during the testing and commissioning (T&C) phase in February 2010 and after the first year operation phase in September 2011 were incorporated for a comprehensive analysis. After reviewing the benthic surveys conducted in the first year operation period and during the testing and commissioning (T&C) phase in February 2010 and after the first year operation phase in September 2011, the benthic survey was completed.

2.6.2 For benthic survey data of both baseline and operation phases, please refer to Appendix E.

2.7 Whole Effluent Toxicity Test Results during Operation Phase

2.7.1 As stipulated in Clause 6.11 to 6.18 of the Final EM&A Manual, WETT was conducted monthly until Apr-11, bimonthly between Apr-11 to Apr-12 and quarterly between Apr-12 and Apr-13, the result is summarized in Table 2.8 below and detailed in Appendix F.

2.7.2 Initially, five test species as required in the EM&A Manual were conducted. However, due to the limitation of the supply of one of the test species, Shrimp, Copepod which is at the same trophic level and the same phyla as the Shrimp, was added as the test species starting from August 2010, the 6th month since the commencement of operation.

Table 2.8 Summary of WETT Results

Month	Measured LC50 / NOEC for Test Species					
	Amphipod - <i>Melita longidactyla</i>	Fish - <i>Lutjanus malabaricus</i>	Barnacle larvae - <i>Balanus amphitrite</i>	Shrimp - <i>Metapenaeus ensis</i>	Diatom - <i>Skeletonema costatum</i>	Copepod - <i>Tigriopus japonicus</i> ³
Mar-10	80.00%	- ¹	52.20%	NT ²	2.5% (NOEC)	-
Apr-10	40.40%	82.20%	33.60%	NT ²	2.5% (NOEC)	-
May-10	36.90%	71.50%	33.60%	NT ²	2.5% (NOEC)	-
Jun-10	33.30%	49.40%	28.40%	39.10%	2.5% (NOEC)	-
Jul-10	34.50%	46.70%	29.40%	42.90%	2.5% (NOEC)	-
Aug-10	NT ²	- ¹	44.40%	70.20%	2.5% (NOEC)	- ¹
Sep-10	24.80%	43.20%	28.90%	34.30%	2.5% (NOEC)	69.7%
Oct-10	22.10%	51.70%	29.60%	37.40%	2.5% (NOEC)	- ¹
Nov-10	22.60%	64.50%	23.20%	31.90%	2.5% (NOEC)	74.3%
Dec-10	26.80%	53.90%	32.40%	61.90%	2.5% (NOEC)	76.7%
Jan-11	23.90%	NT ²	24.10%	52.30%	2.5% (NOEC)	70.7%
Feb-11	26.30%	38.20%	26.00%	35.80%	2.5% (NOEC)	39.0%
Mar-11	35.20%	38.70%	23.40%	34.70%	2.5% (NOEC)	40.70%
Apr-11	35.70%	48.20%	28.60%	42.30%	2.5% (NOEC)	69.90%
Jun-11	NT	40.10%	23.90%	38.00%	2.5% (NOEC)	78.20%
Aug-11	NT	49.30%	33.60%	31.70%	2.5% (NOEC)	-
Oct-11	23.90%	59.90%	54.90%	40.60%	2.5% (NOEC)	68.80%
Dec-11	46.90%	70.30%	30.50%	50.60%	2.5% (NOEC)	81.40%
Feb-12	68.90%	72.20%	23.40%	45.30%	2.5% (NOEC)	79.10%
Apr-12	34.60%	69.10%	27.40%	44.20%	2.5% (NOEC)	73.70%
Jul-12	NT	67.70%	23.30%	41.40%	2.5% (NOEC)	76.40%
Oct-12	49.80%	67.70%	29.50%	NT	2.5% (NOEC)	77.10%
Jan-13	65.50%	80.50%	32.50%	65.90%	2.5% (NOEC)	84.60%
Apr-13	55.40%	72.30%	26.70%	64.70%	2.5% (NOEC)	75.40%

1) The mortalities in all concentration groups were less than 50% of that in control group and thus LC50 cannot be calculated

2) NT = Not Tested (due to unavailability of specie)

3) WETT for Copepod was carried out since August 2010.

2.8 Baseline Marine Water Quality Monitoring Results for Emergency Discharge

2.8.1 As required under Clause 4.42 to 4.45 of the Final EM&A Manual, a six-month baseline marine water quality monitoring (which covers both dry and wet seasons) was carried out at monitoring stations B7~B14, F5, WSD18~WSD20, WM4, VM7, VM8, SM6 and SM12, as shown in Figure 2.4 with coordinates given in Table 2.9.

2.8.2 To obtain a more representative baseline for future monitoring, DSD has extended the duration for the baseline monitoring for emergency discharge from six months to eleven months, from April 2010 to February 2011.

2.8.3 The geometric mean of baseline marine water quality monitoring data (in terms of *E.coli*) during mid-ebb and mid-flood in dry and wet season is summarized in Table 2.10 below and detailed in Appendix G.

Table 2.9 Marine Water Quality Monitoring Stations for Emergency Discharge

Station	Description	Coordinates	
		Easting	Northing
B7	Anglers' Beach	823836.36	825044.52
B8	Gemini Beach	825215.29	824933.71
B9	Ho Mei Wan Beach	825388.98	825067.17
B10	Casam Beach	825731.46	825330.90
B11	Lido Beach	825917.78	825385.83
B12	Ting Kau Beach	826277.40	825519.01
B13	Approach Beach	827237.94	825301.02
B14	Ma Wan Beach	824431.47	823415.85
F5	Ma Wan Fish Culture Zone	823875.25	823699.48
WM4	Gradient Station	825366.76	823461.98
WSD18	Central Water Front	833935.18	816624.15
WSD19	Sheung Wan	833383.13	816836.34
WSD20	Kennedy Town	830826.34	816244.46
VM8	Gradient Station	830363.95	817092.23
VM7	Gradient Station	832513.90	817465.40
SM6	Control Station	826179.81	805902.89
SM12	Control Station	819524.19	808420.40

Table 2.10 Summary of Baseline Marine Water Quality Monitoring Results for Emergency Discharge

Station	Geometric Mean of Depth-average <i>E. coli</i> (number per 100mL)	
	Wet Season (May to September 2010)	Dry Season (April 2010, October 2010 to February 2011)
B7	27	73
B8	46	95
B9	46	83
B10	46	55
B11	31	64
B12	30	77
B13	64	98
B14	64	82
F5	37	75
WM4	52	107
WSD18	235	1065
WSD19	549	1226
WSD20	109	1149
VM7	328	628
VM8	183	580
SM6	36	397
SM12	31	242

2.8.4 Although it is stated in Clause 4.44 of the Final EM&A Manual that the baseline marine water quality results should be reviewed together with the EPD's marine water quality monitoring stations in Victoria Harbour to establish the ambient conditions, in view of the facts that EPD's marine water quality monitoring stations in Victoria Harbour covers only 3 stations (WM4, VM7 and VM8) among the list of the stations for this Project and the monitoring conducted by the

MT covered an extensive period of eleven months, the monitoring data from EPD was not included in the analysis.

- 2.8.5 According section 4.47 of the EM&A manual, review should be conducted to determine whether monitoring programme for such emergency discharge event shall be continued after two years of monitoring. However, no emergency discharge took place in the operation phase (March 10 to April 13) as a results no analysis was conducted.

2.9 Marine Water Quality in EPD's Marine Water Quality Monitoring Stations and Beaches

Marine Water Quality Stations (WM2, WM3, WM4, VM7 and VM8)

- 2.9.1 As referred to the Final EM&A Manual Clause 4.40, monthly water quality monitoring results at EPD marine water quality stations WM2, WM3, WM4, VM7 and VM8 during the baseline (i.e. one year before the commissioning of the Project) and first year operation period were collected from EPD. For tabulated summary, please refer to the **Table 2.10** and detailed data at **Appendix H** of the First Review Report.

Beaches Along Tsuen Wan Coast

- 2.9.2 As referred to the Final EM&A Manual Clause 4.40, water quality monitoring results at beaches along Tsuen Wan coast during the baseline (i.e. one year before the commissioning of the Project) and first year operation period were collected from EPD. For tabulated summary, please refer to **Table 2.11**, **Table 2.12** and detailed data in **Appendix H** of the First Review Report.
- 2.9.3 In addition to the above monitoring at Tsuen Wan beaches conducted by EPD, DSD commissioned the MT to conduct a more frequent monitoring at the same locations of above beaches using the same analytical method. The data obtained by DSD supplements the monitoring works done by EPD. For summary of results, please refer to **Table 2.13** and detailed data in **Appendix H** of the First Review Report

3 REVIEW AND ANALYSIS OF OPERATION MONITORING DATA

3.1 Introduction

3.1.1 The monitoring data recorded during operation of Project (Mar 10 – Apr 13), as presented in Section 2 above, were reviewed and analysed with the baseline monitoring data recorded before commissioning of the Project. Details on the review and analysis of monitoring data during operation are listed in this Section.

3.2 Chemical Dosage and Effluent Quality

Objective and Methodology of Review and Analysis

3.2.1 Chemical dosage records obtained between the operation phase (Mar 10 – Apr 13) were used to compare the assumptions in EIA Study to investigate the effects on monitoring results.

3.2.2 To discern the overall environmental performance of the operation of the Project, the effluent quality monitoring data obtained between the operation phase (Mar 10 – Apr 13) was reviewed against the discharge limit recommended in the EIA Study. Moreover, the monitoring results of Whole Effluent Toxicity Test (WETT) during the operation phase (Mar 10 – Apr 13) were obtained to check against the assumptions in EIA Study.

Chemical Dosage During Operation

3.2.3 According to the Clause 4.8 of the Final EM&A Manual, the recommended dosage for Sodium Hypochlorite is 11-15mg Cl₂/L and for Sodium Bisulphite is 4-7mg NaHSO₃/L. The average dosage for Sodium Hypochlorite and Sodium Bisulphite during the operation phase (Mar 10 – Apr 13) is 14.2 mg Cl₂/L and 4 mg NaHSO₃/L respectively.

3.2.4 This shows that during the operation phase (Mar 10 – Apr 13), as presented in Section 2.2, the dosage for Sodium Hypochlorite and Sodium Bisulphite is generally in line with the recommended chemical dosage made in the EIA Study.

Effluent Quality During Operation

3.2.5 The recommended effluent discharge limit, Action and Limit Level, baseline monitoring data, monitoring data during operation and predicted level in EIA study are summarized in Table 3.1 below:

Table 3.1 Comparison of Operational Effluent Data and Recommended Discharge Limits

Parameters		Recommended Discharge Limit; Action/Limit Level (µg/L or as specified) ^a	Effluent Quality in Baseline Period (µg/L or as specified)	Effluent Quality in the operation phase (Mar 10 – Apr 13) (µg/L or as specified)	Predicted Level in EIA Study (µg/L or as specified)
E.coli (number per 100mL)	Geometric Mean	200,000	N/A	103,329	200,000
	95%-tile	3,000,000	N/A	721,000	--
TRC	Max	400	11	88	20 – 100 [#]
	95%-tile	200	9.35	87.5	200
Bromoform		560	Max = 0.4	Max = 0.6	<5

Parameters	Recommended Discharge Limit; Action/Limit Level (µg/L or as specified) [^]	Effluent Quality in Baseline Period (µg/L or as specified)	Effluent Quality in the operation phase (Mar 10 – Apr 13) (µg/L or as specified)	Predicted Level in EIA Study (µg/L or as specified)
Bromodichloromethane	16,000	Max = 0.1	Max = 0.7	<5
Chloroform	1,000	Max = 2	Max = 0.7	<5 – 7 [#]
Dibromochloromethane	1,500	Max = 0.4	Max = 4.3	<5
Bromoacetic acid	1,500,000	Max = <2	Max = 0.5	<2
Chloroacetic acid	10,000	Max = <2	Max = 3.0	<2 – 4 [#]
Dibromoacetic acid	430,000	Max = <2	Max = 6.0	<2 – 4 [#]
Dichloroacetic acid	75,000	Max = <2	Max = 6.0	20 – 45.9 [#]
Trichloroacetic acid	32,000	Max = <2	Max = 14.0	7.19 – 22 [#]
Methylene chloride	74,000	Max = <20	Max = 53	<20
Carbon tetrachloride	560	Max = <0.5	Max = <1	<0.5
Chlorobenzene	1,200	Max = <0.5	Max = <1	<0.5
1,1-dichloroethane	N/A *	Max = <0.5	Max = <1	<0.5
1,2-dichloroethane	470	Max = <0.5	Max = <1	<0.5
1,1-dichloroethylene	150	Max = <0.5	Max = <1	<0.5
1,2-dichloropropane	29,000	Max = <0.5	Max = <1	<0.5
Tetrachloroethylene	420	Max = 0.6	Max = <1	0.5 – 1.3 [#]
1,1,1-trichloroethane	4,700	Max = <0.5	Max = <1	<0.5
1,1,2-trichloroethane	4,700	Max = <0.5	Max = <1	<0.5
Trichloroethylene	470	Max = 0.6	Max = <1	1.1 – 2 [#]
2-chlorophenol	2,400	Max = <0.5	Max = <1	<0.5
2,4-dichlorophenol	940	Max = <0.5	Max = <1	<0.5
p-chloro-m-cresol	1,900	Max = <0.5	Max = <1	<0.5
Pentachlorophenol	370	Max = <0.5	Max = <1	<2.5
2,4,6-trichlorophenol	570	Max = <0.5	Max = <1	1 – 2 [#]
Bis(2-chloroethoxy) methane	86,000	Max = <0.5	Max = <1	<0.5
1,4-dichlorobenzene	3,500	Max = <0.5	Max = <1	<0.5
Hexachlorobenzene	1.4	Max = <0.01	Max = <1	<0.5
Hexachlorocyclopentadiene	420	Max = <2.5	Max = <5	<2.5
Hexachloroethane	1,100	Max = <0.5	Max = <1	<0.5
1,2,4-trichlorobenzene	250	Max = <0.5	Max = <1	<0.5
Alpha-BHC	240	Max = <0.01	Max = <1	<0.5
Beta-BHC	2.4	Max = <0.01	Max = <1	<1
Gamma-BHC	3.0	Max = <0.01	Max = <1	<1

[^] Recommended Discharge Limit is extracted from Table 4.1 and 4.3 of the Final EM&A Manual. 1mg/L = 1,000µg/L

* No Toxicity Reference Value available, thus Limit Level cannot be produced.

Values in range.

- 3.2.6 It is noted that all the parameters collected during the operation phase (Mar 10 – Apr 13) are well within the recommended discharge limit in the EIA Study. All parameters collected during the operation phase (Mar 10 – Apr 13) are well within the recommended discharge limit in Action and Limit Level. All parameters collected during the operation phase (Mar 10 – Apr 13) are below the detection limit, except for bromodichloromethane, chloroform, dibromochloromethane, bromoacetic acid, chloroacetic acid, dibromoacetic acid, dichloroacetic acid, trichloroacetic acid and methylene chloride. However, these parameters collected during the operation phase (Mar 10 – Apr 13) are still much lower than the recommended discharge limit.

3.2.7 In view of the effluent quality in terms of *E.coli* concentration, the effluent quality during the operation phase (Mar 10 – Apr 13) complied with the recommended discharge limit and below the Action and Limit Level.

WETTs During Operation

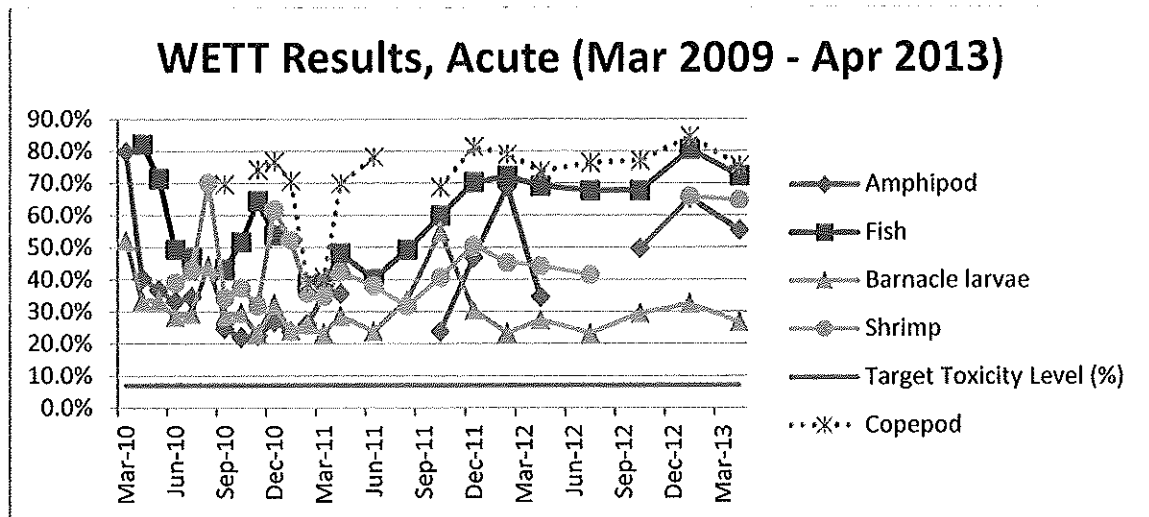
3.2.8 The WETT results collected between the operation phase (Mar 10 – Apr 13) are presented in Section 2.7.

3.2.9 The Action and Limit Levels stipulated in the Baseline Condition Report are stated in **Table 3.2** below. Same Action/Limit Level as shrimp was applied for Copepod, the additional test species for WETT.

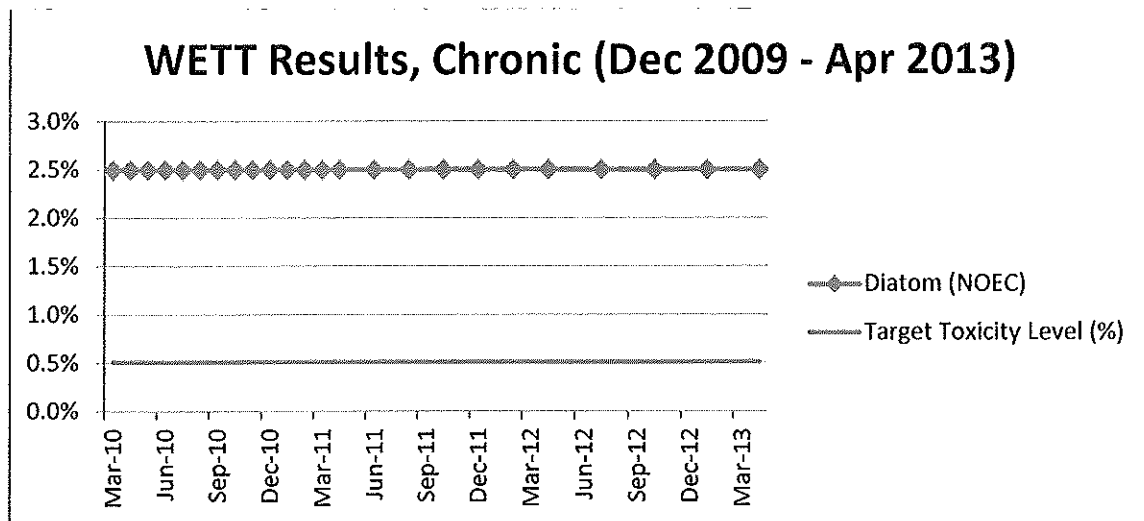
Table 3.2 Action and Limit Levels for WETTs

Parameters	Action / Limit Level
<i>Acute Toxicity</i>	
LC50 in 48-hr amphipod survival test	<7.1%
LC50 in 48-hr barnacle larvae survival test	<7.1%
LC50 in 48-hr fish survival test	<7.1%
LC50 in 48-hr shrimp survival test	<7.1%
LC50 in 48-hr copepod survival test	<7.1%
<i>Chronic Toxicity</i>	
NOEC in 7-day diatom growth inhibition test	<0.51%

3.2.10 The trend of acute toxicity level and chronic toxicity level of the effluent from the operation phase (Mar 10 – Apr 13) for different test species are shown below:



Note: Some data are not shown as the species are not tested (due to unavailability of specie) or the mortalities in all concentration groups were less than 50% of that in control group and thus LC50 cannot be calculated.



3.2.11 Results show that acute toxicity level and chronic toxicity level of the effluent from between the operation phase (Mar 10 – Apr 13) are within the Action and Limit Level.

3.3 Marine Water Quality

Objective and Methodology of Review and Analysis

3.3.1 In accordance to Clause 4.39 of the Final EM&A Manual and Clause 3.3.1(d)(ii) of the Consultancy Brief, operation phase monitoring data and baseline monitoring data shall be compared by statistical analysis for determining of any increase of TRC, CBP and COC concentrations in marine water after implementation of the Project.

3.3.2 Analysis of variance technique and statistical hypothesis testing were used to compare the TRC/CBPs concentration in the marine water during the baseline monitoring period and the operation phase (Mar 10 – Apr 13). The statistical test would compare the operation phase (Mar 10 – Apr 13) data against the baseline monitoring results, and evaluate if there is any statistically significant increase in TRC/CBP concentrations. The mean and variance of the monitoring data would be used to calculate the test statistic, T_o .

$$T_o = \frac{\bar{X} - \mu_o}{S/\sqrt{n}}$$

Where $\bar{X}$ is the mean of the measured values during the operation phase (Mar 10 – Apr 13);

μ is the mean of the measured values during baseline phase;

S is the standard deviation of the measured values during the operation phase (Mar 10 – Apr 13);

n is the degrees of freedom.

3.3.3 If the test statistic exceeds the test criteria ($t_{\alpha, n-1}$), i.e. $t_{0.05, 11}$ in this case (with $\alpha = 0.05$ (95% confident)), it indicates that the increase in the monitoring data (when compare to the baseline condition) is statistically significant.

Statistical Analysis for Marine Water Quality

3.3.4 All the remaining TRC, CBPs and COCs at all the stations have a concentration that is equal or less than the baseline average, so no statistical analysis was conducted for the remaining parameters. As presented in Section 2.4, since results higher than detection limit and the operation average concentration of bromoform and TRC at Station 1, Station 2, Station 3,

Station 4, Station SM6 and Station SM12 are higher than the detection limit and baseline average, therefore, statistical analysis was carried out for bromoform at these monitoring stations. The operation phase (Mar 10 – Apr 13) average concentration of Chloroform at all station is higher than the baseline average but all below limit of detection, therefore, no statistical analysis was carried out for Chloroform.

- 3.3.5 Statistical analysis of TRC and bromoform for all monitoring station are tabulated in **Table 3.3** and **Table 3.4** below. The data are tested at a significant level of $\alpha = 0.05$ (95% confident). Detailed calculations of statistical tests were shown in **Appendix C**.

Table 3.3 Summary of Statistical Analysis for TRC in Marine Water.

	Recommended Discharge Limit; Action/Limit Level ($\mu\text{g/L}$)	Baseline Average ($\mu\text{g/L}$)	Operation Phase Average (Mar 10 – Apr 13) ($\mu\text{g/L}$)	Indication of Significant increase / Test Statistic Results
Station 1	400	5	5.42	No, $t_o = 1.441 < 1.796$,
Station 2	400	5	5.83	No, $t_o = 1.277 < 1.796$,
Station 3	400	5	5.83	No, $t_o = 1.277 < 1.796$,
Station 4	400	5	5.83	No, $t_o = 1.277 < 1.796$,
Station SM6	400	5	5.83	No, $t_o = 1.277 < 1.796$,
Station SM12	400	5	5.83	No, $t_o = 1.277 < 1.796$,

Table 3.4 Summary of Statistical Analysis for Bromoform in Marine Water.

	Recommended Discharge Limit; Action/Limit Level ($\mu\text{g/L}$)	Baseline Average ($\mu\text{g/L}$)	Operation Phase Average (Mar 10 – Apr 13) ($\mu\text{g/L}$)	Indication of Significant increase / Test Statistic Results
Station 1	360	0.14	0.24	No, $t_o = 1.837 > 1.796$,
Station 2	360	0.13	0.25	No, $t_o = 2.056 > 1.796$,
Station 3	360	0.12	0.24	No, $t_o = 2.156 > 1.796$,
Station 4	360	0.15	0.29	No, $t_o = 2.298 > 1.796$,
Station SM6	360	0.16	0.27	No, $t_o = 1.391 < 1.796$,
Station SM12	360	0.12	0.26	No, $t_o = 1.640 < 1.796$,

- 3.3.6 The results indicate that there is statistically significant increase from the baseline condition for the bromoform levels in marine water. The monitoring data collected in effluent quality monitoring were used to provide information to investigate whether such increase is due to the effluent discharged by the project according to section 4.39 of the Final EM&A manual. Result

from statistical analysis shows that the effluent quality monitoring data collected during the operation phase is not significantly larger than the results obtained during baseline period, indicating it is unlikely that the increase is due to the effluent discharged by the Project.

- 3.3.7 Also, as mentioned in **Section 2.3.2** and shown in **Table 3.1**, the measured bromoform levels in effluent quality during the operation period (Mar 10 – Apr 13) are below the detection limit, bromoform detected in the marine water is unlikely due to the operation of the Project.
- 3.3.8 Therefore the significant increase in bromoform in marine water was considered not related to the operation of the Project.
- 3.3.9 The results indicate that there is no statistically significant increase from the baseline condition for the chloroform and TRC levels in marine water. All the remaining CBPs and COCs at all the stations have a concentration that is equal to or less than the baseline average, implying that there is no significant increase after the Project operation period (Mar 10 – Apr 13).
- 3.3.10 Therefore, based on the monitoring data obtained during the Project operation period (Mar 10 – Apr 13), there is no indication of the discharges from the Project would significantly increase the bromoform, TRC, CBPs and COCs concentration in the marine water.

3.4 Sediment Quality

Objective and Methodology of Review and Analysis

- 3.4.1 In accordance to the Clause 7.15 of the Final EM&A Manual and Clause 3.3.1(d)(ii) of the Consultancy Brief, operation phase monitoring data and baseline monitoring data shall be compared by statistical analysis for determining of any increase of CBP and COC concentrations in sediment after implementation of the Project.
- 3.4.2 Analysis of variance technique and statistical hypothesis testing is used to compare the CBP and COC concentrations in the sediment during the baseline monitoring period and the first year operation period. The statistical test would compare the first year operation data against the baseline monitoring results, and evaluate if there is any statistically significant increase in CBP/COC concentrations. The mean and variance of the monitoring data would be used to calculate the test statistic, T_o .

$$T_o = \frac{\bar{X} - \mu_o}{S/\sqrt{n}}$$

Where $\bar{X}$ is the mean of the measured values during first year operation phase;

μ is the mean of the measured values during baseline phase;

S is the standard deviation of the measured values during first year operation phase;
n is the degrees of freedom.

- 3.4.3 If the test statistic exceeds the test criteria ($t_{\alpha, n-1}$), i.e. $t_{0.05, 1}$ in this case (with 95% confidence), it indicates that the increase in the monitoring data (when compared to the baseline condition) is statistically significant.

Statistical Analysis for Sediment Quality

- 3.4.4 As mentioned in Section 2.5, all measured CBPs and COCs average levels at all the stations during the first year operation phase are below the detection limit of the laboratory analysis, that's equal to the baseline average. So, no statistical analysis on whether there is any statistically significant increase in CBP and COC concentrations was carried out. And thus, there is no indication of the discharges from the Project would significantly increase the CBP and COC concentrations in the sediment.
- 3.4.5 **Sediment monitoring for operation phase was completed after the first year review period.**
- 3.4.6 By referring to the monitoring results for sediment monitoring, all measured CBP and COC average levels at all the stations during the first year operation phase are below the reporting limit of the laboratory analysis. No indication of the discharge from the Project would result in significantly increase the CBP and COC concentrations in the sediment. It is considered that sediment monitoring for operation phase was completed.

3.4.7 Benthic Survey

Objective and Methodology of Review and Analysis

- 3.4.8 In accordance to the Clause 7.24 of the Final EM&A Manual and Clause 3.3.1(d)(ii) of the Consultancy Brief, operation phase monitoring data and baseline monitoring data shall be compared by statistical analysis for determining of any change in benthic community structure after implementation of the Project.
- 3.4.9 In this data analysis, data were derived from six sampling time, i.e. Oct08, Jul09, Feb10, Jul10, Jan11, Sep11. Data analysis on benthic temporal changes was performed along those time serials. Data derived from six sampling stations, i.e., 4 near field stations (Stations 1 to 4), 2

mid field stations (WS1 & VS6), 2 far field stations (SS3 & SS4), were used to analysis benthic spatial variations or changes.

- 3.4.10 As referred to the section 4 of the first year's review report, it was revealed that there is no indication of the discharge from the Project would result in adverse impacts on the benthic communities. With employment of WETT test (which is under a controlled environmental in the laboratory), which is easier to spot the response of the test animals to chemical change, it is expected that the results from WETT test could be used as an indicator to show out the effect of ADF operation on benthic community. As referred to the first year operation data, the impact on benthic community from the project discharge is not expected. Unless there is significant change on the operation procedure, the effect on benthic community should be minimal. It is considered that benthic survey for operation phase was completed after the first year review period.

- 3.4.11 The total abundance and total wet weight of each faunal group, relative abundance of each faunal group in each sampling time (in percentage) and their breakdown at each sampling stations and data and graphical plot for the number of species in density, abundance in density, wet weight in density, H' and J at each sample station in each sampling time are summarized in **Appendix I**.
- 3.4.12 Detailed statistical analyses of spatial and temporal changes on benthic community are shown in **Appendix I**.
- 3.4.13 Based on the findings in effluent quality, marine water quality and sediment quality during the first year operation, it is believed that the significant temporal changes of benthic communities are not due to the Project operation. The monitoring was completed after the first year's operation.
- 3.5 Marine Water Quality Monitoring Results for Emergency Discharge**
- 3.5.1 The eleven-months baseline marine water quality monitoring was conducted for both dry and wet seasons at the 17 stations after commissioning of the Project.
- 3.5.2 **Table 3.5** below shows the baseline condition for emergency discharge at different marine water quality monitoring stations based on the data as shown in **Section 2.8**. The ambient condition, i.e. when the Project is operated normally, is established and is set as the geometric mean of the monitoring data during the dry and wet seasons.

Table 3.5 Summary of Baseline Marine Water Quality Monitoring Results for Emergency Discharge

Station	Geometric Mean of Depth-average <i>E. coli</i> (number per 100mL) during Baseline for Emergency Discharge	
	Wet Season (May to September 2010)	Dry Season (April 2010, October 2010 to February 2011)
B7	27	73
B8	46	95
B9	46	83
B10	46	55
B11	31	64
B12	30	77
B13	64	98
B14	64	82
F5	37	75
WM4	52	107
WSD18	235	1065
WSD19	549	1226
WSD20	109	1149
VM7	328	628
VM8	183	580
SM6	36	397
SM12	31	242

- 3.5.3 An emergency monitoring plan was developed to illustrate the actions to be taken should the measured *E.coli* level at particular monitoring station exceeds the baseline condition are illustrated in **Figure 3.1**.
- 3.5.4 The ambient condition, i.e. when the Project is operated normally, is established and is set as the geometric mean of the monitoring data during the dry and wet seasons.
- 3.5.5 According to Section 4.47 of the Final EM&A Manual, after the 2-year monitoring period, a review shall be conducted to determine whether such monitoring shall be continued. Such

review may not be conducted due to no emergency discharge event during operation (Mar 10 – Apr 13). Although emergency discharge event is infrequent and remote, the monitoring should be continued until data may be collected from an emergency discharge event and, by that time, review should be carried out to determine whether such monitoring shall be continued.

3.6 Marine Water Quality in EPD's Marine Water Quality Monitoring Stations and Beaches

Marine Water Quality Stations (WM2, WM3, WM4, VM7 and VM8)

- 3.6.1 As referred to Clause 4.40 and 4.41 of the Final EM&A Manual, the annual g-mean of the *E. coli* count at the 5 EPD stations during the first year operation period as stated in **Table 2.10** of the First Review Report was reviewed and analysed. It is noted that the annual g-mean is lower than the monitoring result recorded during the baseline monitoring period, implying that the Project has positive effect on improving the water quality (in terms of *E.coli* level) in the western harbour waters.

Beaches Along Tsuen Wan Coast

- 3.6.2 Based on the requirement in Clause 4.40 and 4.41 of the Final EM&A Manual, the annual g-mean of the *E. coli* count at all 7 beaches along the Tsuen Wan coast during the first year operation period, which is stated in **Table 2.11** of the First Review Report, was reviewed and analysed. It is noted that the annual geometric mean is lower than the monitoring result recorded during the baseline monitoring period. For details, please refer to the section 3.6 of the first year review report.

Review on SCISTW Effluent Standard (in terms of *E.coli* Level)

- 3.6.3 In accordance with Clause 4.41 of the Final EM&A Manual, recommendation on the review of SCISTW effluent standard (in terms of *E.coli* level) should be provided. In terms of *E.coli* concentration, improvement on the water quality in Western Harbour and beaches along Tsuen Wan coast was noticed with the effluent quality all complied with the recommended discharge limit. Therefore, it was recommended in the first review report that there is no adjustment on the SCISTW effluent limit (in terms of *E.coli* level) proposed in the Final EIA Report.

4 REVIEW ON RISK ASSESSMENTS

- 4.1.1 Statistical analysis for marine water quality is conducted in **Section 3.3** of the Report. The results indicate that there are no statistically significant increases of TRC, CBP and COC concentrations in the marine water.
- 4.1.2 Human health risk assessment (HHRA) and ecological risk assessment (ERA) were conducted in the EIA Study to evaluate the potential risk to the human and ecological receptors, and the EIA Study concluded that the Project would not cause unacceptable risk to human health and ecological resources. According to Clause 5.10 and 6.7 of the Final EM&A Manual, if the statistical analysis reveals that marine water concentration of TRC and/or COCs (one or more) increases after operation of the Project, the monitoring data collected in effluent quality monitoring shall be used to provide information to investigate whether such increase is due to the effluent discharge by the Project. If such increase is found to be due to the Project operation, HHRA and ERA using the operation phase monitoring data should be conducted to verify if the risk due to TRC and COCs discharged from SCISTW effluent is acceptable.
- 4.1.3 The monitoring data collected in effluent quality monitoring was used to investigate the significant increase in bromoform in the marine water quality and it is considered that the increase was not due to the Project operation as such HHRA and ERA are considered not necessary.

5 REVIEW ON MONITORING FREQUENCY

- 5.1.1 It is considered that the data for 12-month operation monitoring for chemical dosage to work out the comparison with the EIA study is adequate. Investigation and comparison on chemical dosage was ceased after review of the first year operation, although it is known that the SCISTW keeps on monitoring of the chemical dosage and data could be provided on request.
- 5.1.2 As discussed in **Section 3**, there is indication of statistically significant increase of the bromoform concentration after the operation period (Mar 10 – Apr 13) of the Project but after review of the effluent monitoring data, the increase was considered not due to Project operation. Therefore, it is recommended that the frequency of monitoring for effluent quality (TRC and CBPs), marine water quality (TRC and CBPs) and WETT to be conducted on quarterly basis. While all results of COCs obtained from monitoring in effluent quality and marine water quality are below Limit of Detection, the frequency of monitoring of COCs is suggested to be performed twice a year.
- 5.1.3 The above new monitoring frequencies (as shown in Table 5.1) have been effected since mid-2013 and will be conducted until the commissioning of HATS Stage 2A which is targeted in 2015.
- 5.1.4 When HATS Stage 2A commissions in 2015, the Advance Disinfection Facilities (ADF) at Stone Cutters Island Treatment Works will be switched to the Final Disinfection Facilities (FDF). Prior to the commencement of FDF, monitoring frequency will need to be reviewed and any changes should then be agreed by EPD.

Table 5.1 Summary of Recommended Monitoring Frequency

Monitoring Parameters		Recommended Monitoring Frequency
Effluent Quality	TRC, CBPs	Quarterly
	COCs	Twice a year
Marine Water Quality	TRC, CBPs	Quarterly
	COCs	Twice a year
WETT	--	Quarterly

6 REVIEW ON OVERAL ENVIRONMENTAL PERFORMAMNCE.

- 6.1.1 The effluent quality monitoring data obtained between the operation phase (Mar 10 – Apr 13) was reviewed against the discharge limit recommended in the EIA Study. It is noted that all the parameters collected during the operation phase (Mar 10 – Apr 13) are well within the recommended discharge limit in the EIA Study. All parameters collected during the operation phase (Mar 10 – Apr 13) are well within the recommended discharge limit in Action and Limit Level. All parameters collected during the operation phase (Mar 10 – Apr 13) are below the detection limit, except for bromodichloromethane, chloroform, dibromochloromethane, bromoacetic acid, chloroacetic acid, dibromoacetic acid, dicloroacetic acid, trichloroacetic acid and methylene chloride. However, these parameters collected during the operation phase (Mar 10 – Apr 13) are still much lower than recommended the discharge limit.
- 6.1.2 The monitoring results of Whole Effluent Toxicity Test (WETT) during the operation phase (Mar 10 – Apr 13) were obtained to check against the assumptions in EIA Study. WETT results show that acute toxicity level and chronic toxicity level of the effluent from between the operation phase (Mar 10 – Apr 13) are within the Action and Limit Level.
- 6.1.3 During the operation phase (Mar 10 – Apr 13), the dosage for Sodium Hypochlorite and Sodium Bisulphite is generally in line with the recommended chemical dosage made in the EIA Study.
- 6.1.4 In view of the effluent quality in terms of *E.coli* concentration, the effluent quality during the operation phase (Mar 10 – Apr 13) complied with the recommended discharge limit and below the Action and Limit Level.
- 6.1.5 When operation phase marine water quality monitoring data and baseline marine water quality monitoring data was compared by statistical analysis, the results indicate that there is statistically significant increase from the baseline condition for the bromoform levels in marine water. The monitoring data collected in effluent quality monitoring were used to provide information to investigate whether such increase is due to the effluent discharged by the project according to section 4.39 of the Final EM&A manual. Result from statistical analysis shows that the effluent quality monitoring data collected during the operation phase is not significantly larger than the results obtained during baseline period. Indicating it is unlikely that the increase is due to the effluent discharged by the Project, as such HHRA and ERA are considered not necessary.
- 6.1.6 Based on the review of statistical analysis results and investigation results mentioned in section 3.3, there is no indication of the discharges from the Project would significantly increase the bromoform, TRC, CBPs and COCs concentration in the marine water.
- 6.1.7 As mentioned in section 3.4, the analysis of sediment monitoring results of the first year operation phase did not show any indication of the discharge from the Project would result in significantly increase the CBP and COC concentrations in the sediment.
- 6.1.8 Base on ANOVA test and Non-metric Multi-Dimensional Scaling analysis of data, the benthic faunal assemblages did not show distinct difference before and after operation of ADF. It can be assessed that, as referred to analytical results of data of the first year operation, the operation of ADF since February 2010 did not induce significant impact on benthic community structures. As such, the impact on benthic community from the project discharge is not expected. Unless there is significant change on the operation procedure, the effect on benthic community should be minimal.
- 6.1.9 According to Section 3.5 of this report, emergency monitoring and review of emergency monitoring may not be conducted due to no emergency discharge event during operation (Mar 10 – Apr 13). Although emergency discharge event is infrequent and remote, the monitoring should be continued until data may be collected from an emergency discharge event and, by that time, review should be carried out to determine whether such monitoring shall be continued.

- 6.1.10 With reference to section 3.6 of this report, the annual g-mean of the *E. coli* count at the 5 EPD stations during the first year operation period as stated in **Table 2.10** of the First Review Report was reviewed and analysed. It is noted that the annual g-mean is lower than the monitoring result recorded during the baseline monitoring period, implying that the Project has positive effect on improving the water quality (in terms of *E.coli* level) in the western harbour waters. Therefore, it was recommended in the first review report that there is no adjustment on the SCISTW effluent limit (in terms of *E.coli* level) proposed in the Final EIA Report.

7 CONCLUSIONS

- 7.1.1 During the operation phase (Mar 10 – Apr 13), the average dosage for Sodium Hypochlorite and Sodium Bisulphite during the first year operation is 14.2 mg Cl_2/L and 4.0 mg NaHSO_3/L respectively. The dosage for Sodium Hypochlorite and Sodium Bisulphite is generally in line with the recommended chemical dosage made in the EIA Study.
- 7.1.2 It is noted that all parameters collected during the operation phase (Mar 10 – Apr 13) were well within the recommended discharge limit in the EIA Study and the Action and Limit Level. All parameters collected during the operation phase (Mar 10 – Apr 13) are below the detection limit or equal/lower than that collected during the baseline period, except for TRC, bromoform, chloroform, bromodichloromethane, chloroform, dibromochloromethane, bromoacetic acid, chloroacetic acid, dibromoacetic acid, dichloroacetic acid, trichloroacetic acid and methylene chloride. However, these parameters collected during the operation phase (Mar 10 – Apr 13) are still much lower than recommended the discharge limit.
- 7.1.3 In view of the effluent quality in terms of *E.coli* concentration, the effluent quality during the operation phase (Mar 10 – Apr 13) complied with the discharge license requirements.
- 7.1.4 For the monitoring of the operation phase (Mar 10 – Apr 13), the results show that acute toxicity level and chronic toxicity level of the effluent are within the Action and Limit Level.
- 7.1.5 The average concentrations of all monitored marine water quality parameters (except TRC and bromoform) during the operation phase (Mar 10 – Apr 13) were equal to or less than that of the baseline period. Since the average concentration of TRC and bromoform from marine monitoring stations were higher than that of the baseline period, statistical analysis was conducted after and results from the statistical test showed that the increase was statistically significant for bromoform but not for TRC. The monitoring data collected in effluent quality monitoring was used to provide information for investigation. Statistical test was conducted to compare whether there is significant difference between the effluent data collected during baseline and the effluent data collected during operation phase (Mar 10 – Apr 13) and results of the statistical test show that the increase was not statistically significant for bromoform, indicating that the slight increase in bromoform was unlikely caused by the Project.
- 7.1.6 For the sediment quality during the first year operation, all measured CBPs and COCs average levels at all the stations are below the reporting limit of the laboratory analysis, that's equal to the baseline average. And thus, there is no indication that the discharges from the Project would significantly increase the CBP and COC concentrations in the sediment.
- 7.1.7 The first year operation data was review in the first review report and the results showed that there was no significant spatial difference of benthic communities among near field, mid field and far field stations.
- 7.1.8 There was significant change of benthic communities at near field, mid field and far field stations, temporal changes of benthic communities were noticed in each station group regardless the time before or after ADF operation in Stonecutter Island, the change s were considered due to natural and seasonal succession of benthic communities. Based on ANOVA test and Non-metric Multi-Dimensional Scaling analysis of data, the benthic faunal assemblages did not show distinct difference before and after operation of ADF. It can be assessed that the operation of ADF since February 2010 did not induce significant impact on benthic community structures. No sign of pollution was noticed that the health status of benthic community was normal under no threatening stress. Hence impact of ADF operation was not noticeable.
- 7.1.9 Based on the findings for first year of operation in effluent quality, marine water quality and sediment quality, there was no significant temporal change of benthic communities are not due to the Project operation.
- 7.1.10 The monitoring data collected in effluent quality monitoring was used to investigate the significant increase in bromoform in the marine water quality and it is considered that the

increase was not due to the Project operation as such HHRA and ERA are considered not necessary.

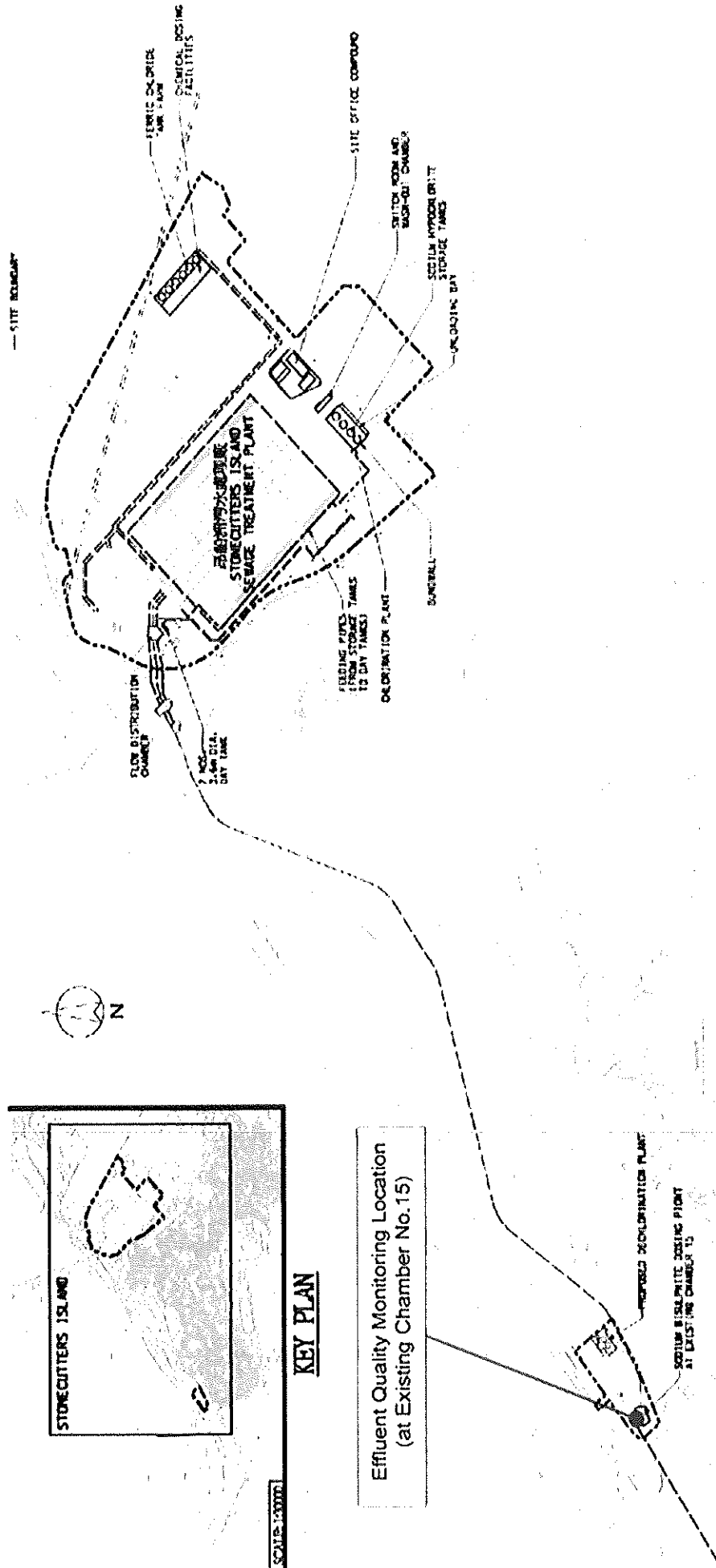
- 7.1.11 It is noted that the annual g-mean recorded during first year of operation in the western harbour waters is lower than the monitoring result recorded during the baseline monitoring period.
- 7.1.12 The annual g-mean of the *E.coli* count at 7 beaches along the Tsuen Wan coast during first year of operation was lower than the monitoring result recorded during the baseline monitoring period and were all below 180 counts per 100 ml.
- 7.1.13 In view of the water quality (in terms of *E.coli* concentration), it is recommended that there is no adjustment on the SCISTW effluent limit (in terms of *E.coli* level) as proposed in the Final EIA Report.
- 7.1.14 Environmental performance of the Project was reviewed; the result showed that there was no significant adverse impact on the sensitive receivers due to the operation of the Project. Positive effect on reduction of *E.coli* level in bathing beaches along Tsuen Wan coast was observed after the first year operation of the Project.
- 7.1.15 When the HATS Stage 2A comes into effect in early 2015. The Monitoring frequencies for the Final Disinfection Facilities (FDF) will need to be reviewed and agreed by EPD.

LIST OF REFERENCE:

- [1] Zar, Jerrold H.1984. Biological Analysis. Second Edition,Prentice-Hall International, Inc., USA.
- [2] SPSS Inc., 1999a. SPSS Base 9.0 User's Guide. SPSS Inc., Chicago, USA.
- [3] SPSS Inc., 1999b. SPSS Base 9.0 Application Guide. SPSS Inc., Chicago, USA.
- [4] Bray, J.R., Curtis, J.T., 1957. An ordination of upland forest community of Southern Wisconsin. Ecological Monographs 27, 325–349.
- [5] Clarke, K.R., Warwick, R.M., 2001. Changes in Marine Communities: An Approach to Statistical Analysis and Interpretation, second ed. PRIMER-E Ltd., Plymouth Marine Laboratory, UK

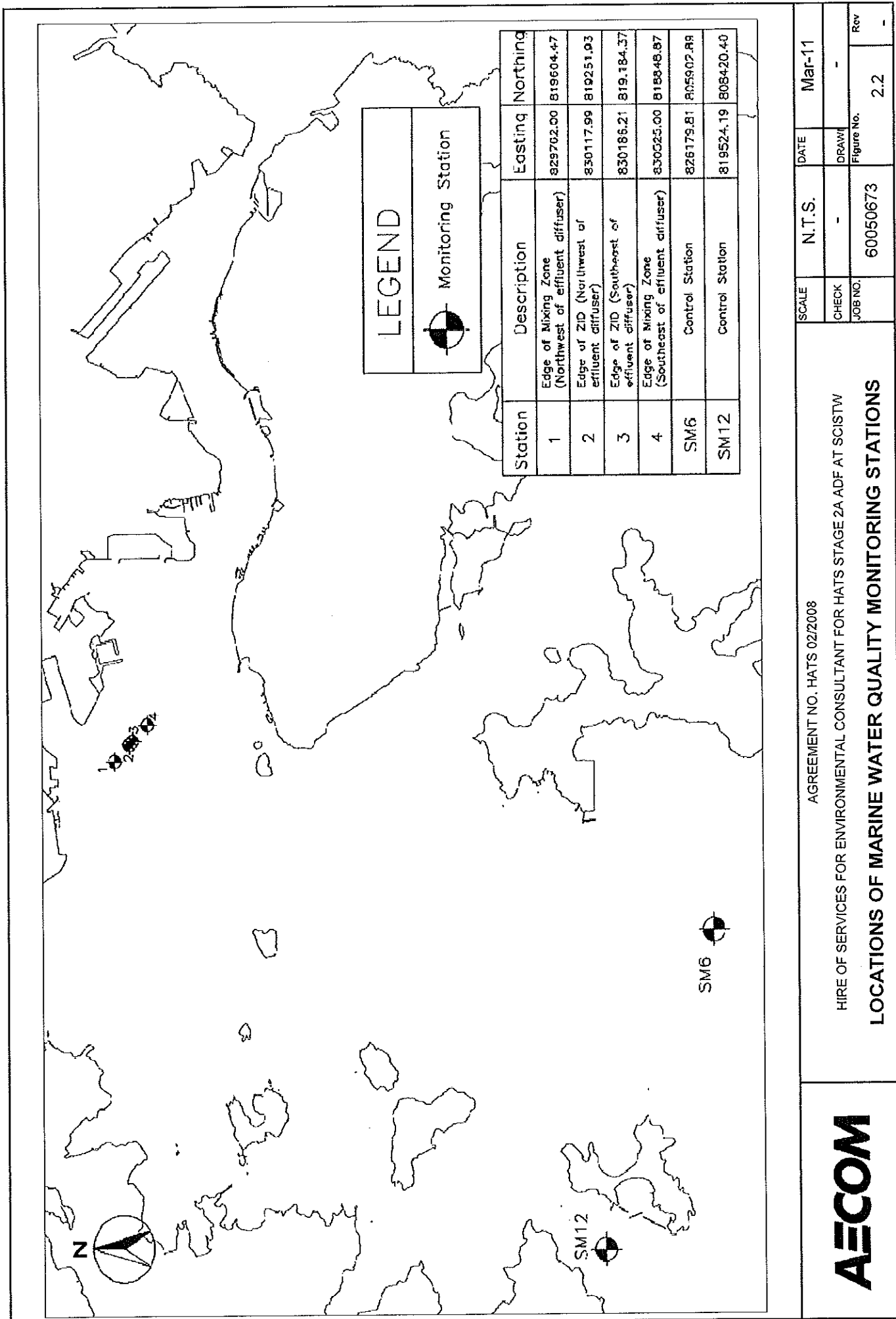
FIGURES



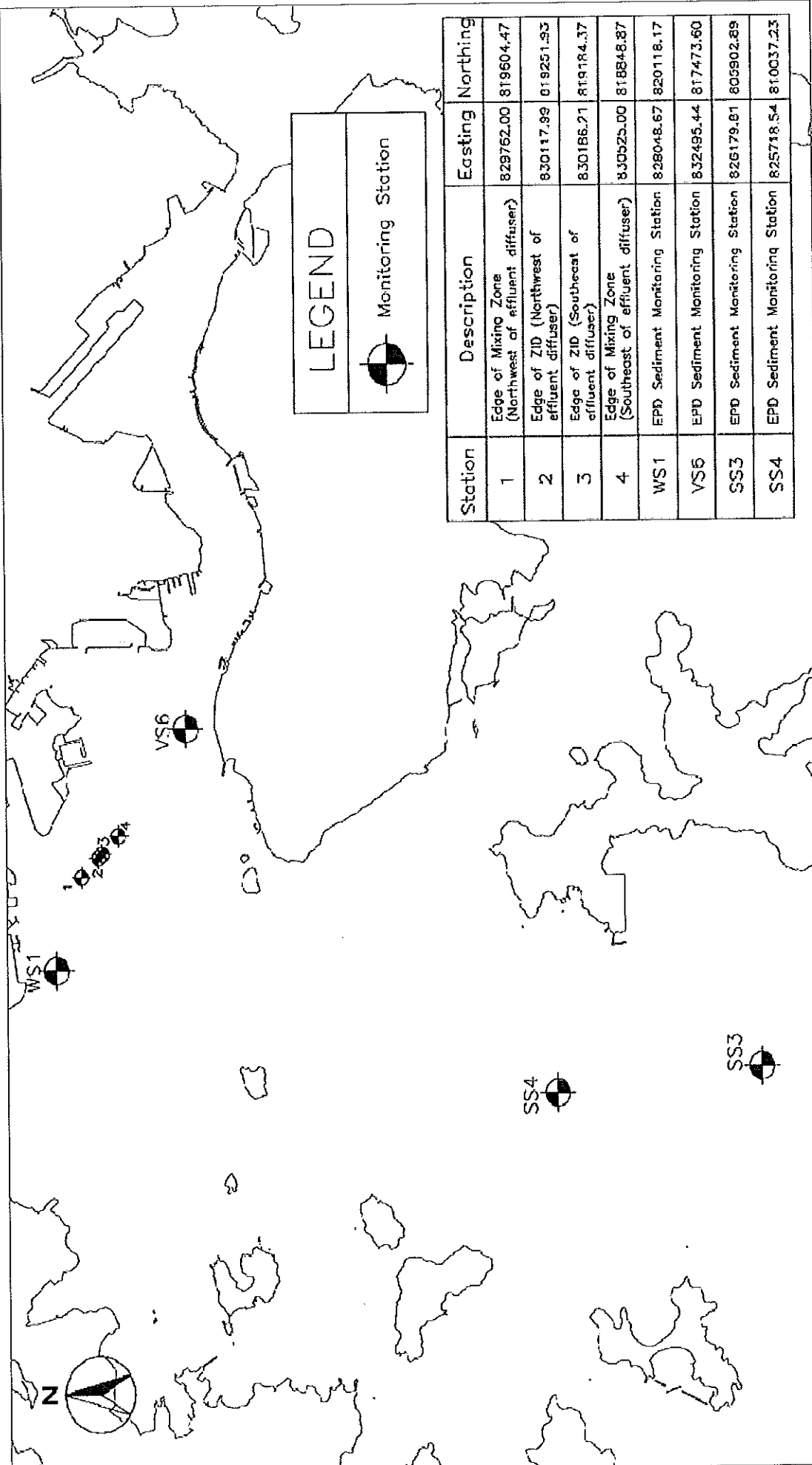


Effluent Quality Monitoring Location
(at Existing Chamber No. 15)

	AGREEMENT NO. HATS 02/2008 HIRE OF SERVICES FOR ENVIRONMENTAL CONSULTANT FOR HATS STAGE 2A ADF AT SCISTW LOCATION OF EFFLUENT QUALITY MONITORING STATION			
	SCALE	N.T.S.	DATE	Mar-11
	CHECK	-	DRAWN	-
	JOB NO.	60050673	Figure No.	2.1
			Rev	-





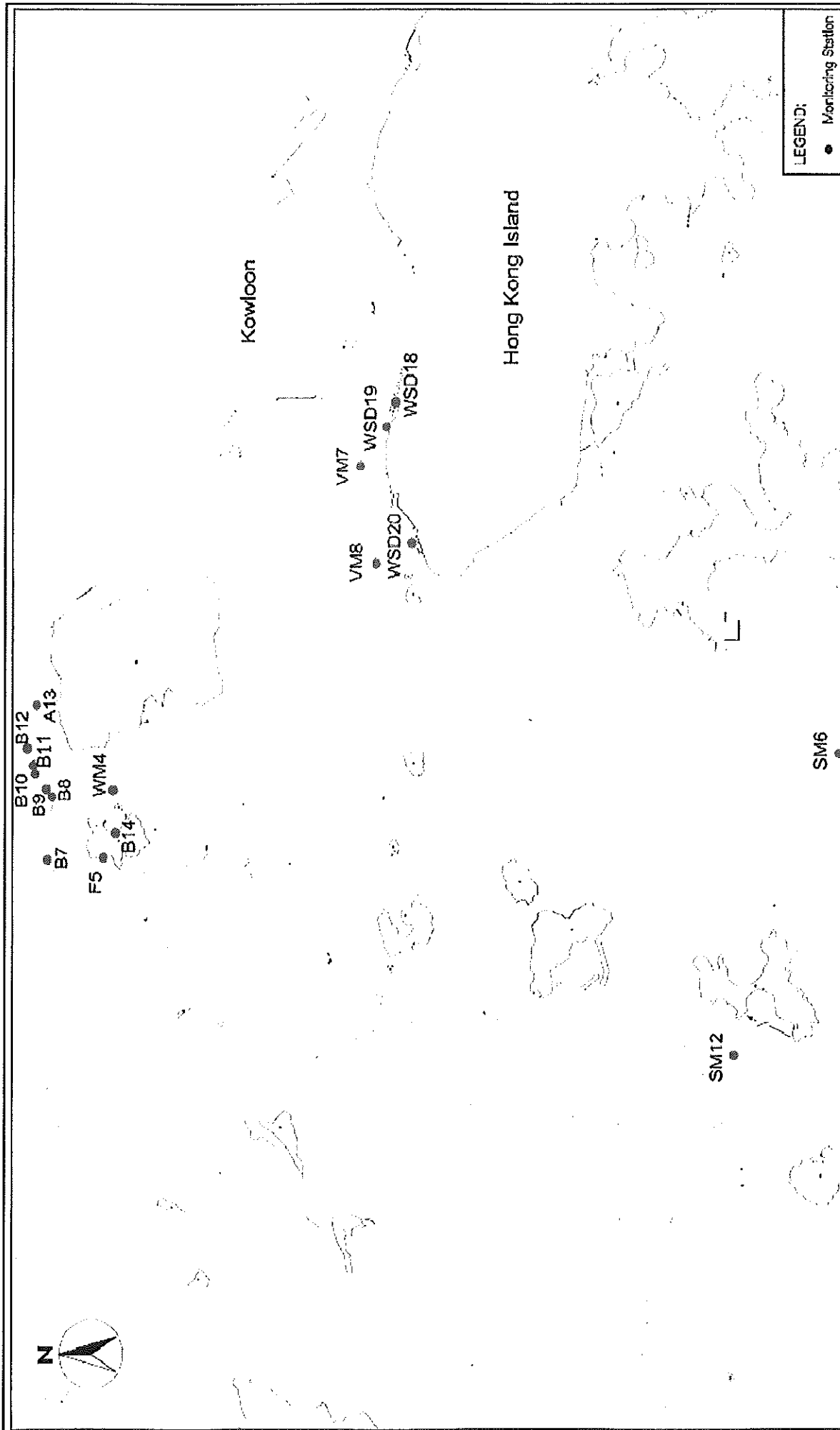


LEGEND

Monitoring Station

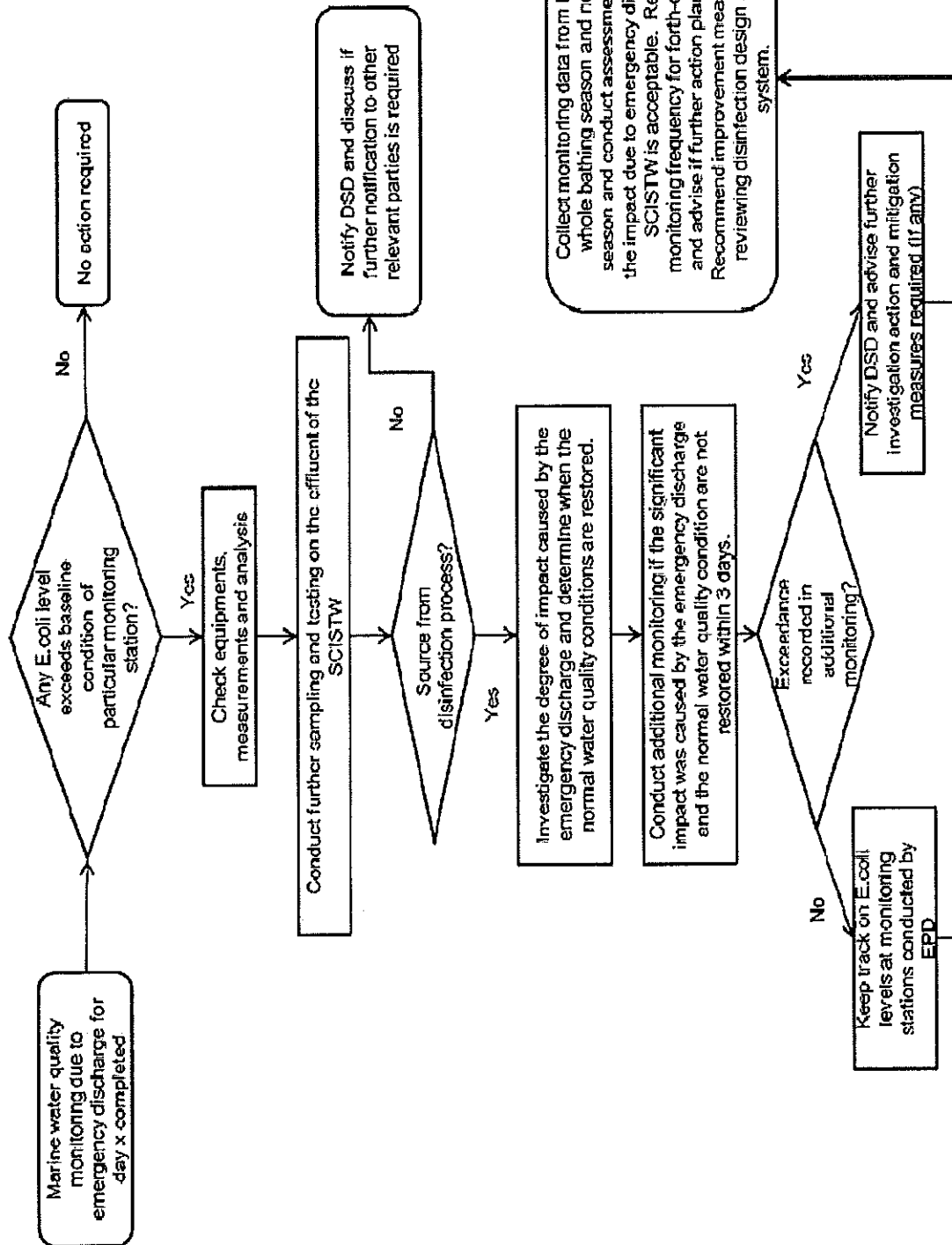
Station	Description	Easting	Northing
1	Edge of Mixing Zone (Northwest of effluent diffuser)	829762.00	819604.47
2	Edge of ZID (Northwest of effluent diffuser)	830117.99	819251.93
3	Edge of ZID (Southeast of effluent diffuser)	830186.21	819184.37
4	Edge of Mixing Zone (Southeast of effluent diffuser)	830525.00	818848.87
WS1	EPD Sediment Monitoring Station	828048.67	820118.17
VS6	EPD Sediment Monitoring Station	832495.44	817473.60
SS3	EPD Sediment Monitoring Station	826179.01	805902.89
SS4	EPD Sediment Monitoring Station	825718.54	810037.23

AECOM HIRE OF SERVICES FOR ENVIRONMENTAL CONSULTANT FOR HATS STAGE 2A ADF AT SCISTW LOCATIONS OF SEDIMENT QUALITY AND BENTHIC SURVEY MONITORING STATIONS	AGREEMENT NO. HATS 02/2008		SCALE N.T.S.	DATE Mar-11
	CHECK JOB NO.	DRAWN Figure No.	Rev 2.3	
	60050673			



AECOM	AGREEMENT NO. HATS 02/2008			
	HIRE OF SERVICES FOR ENVIRONMENTAL CONSULTANT FOR HATS STAGE 2A ADF AT SCISTW			
	LOCATIONS OF MARINE WATER QUALITY MONITORING STATIONS FOR EMERGENCY DISCHARGE			
	SCALE	N.T.S.	DATE	Mar-11
	CHECK	-	DRAWN	-
	JOB NO.	60050673	Figure No.	2.4
			Rev	-





Note: Monitoring Action Plan based on the general approach indicated in EM&A Manual Table 4.8.

AECOM	AGREEMENT NO. HATS 02/2008 HIRE OF SERVICES FOR ENVIRONMENTAL CONSULTANT FOR HATS STAGE 2A ADF AT SCISTW EMERGENCY MONITORING PLAN FOR EMERGENCY DISCHARGE				SCALE	N.T.S.	DATE	Mar-11
					CHECK	-	DRAWN	-
					JOB NO.	60050673	Figure No.	3.1
				Rev				

APPENDIX A

Chemical Dosage Records

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/03/2010	14.0	7.0
02/03/2010	16.0	7.0
03/03/2010	15.0	7.0
04/03/2010	14.0	7.0
05/03/2010	15.0	7.0
06/03/2010	15.0	7.0
07/03/2010	15.0	7.0
08/03/2010	15.0	8.0
09/03/2010	11.0	8.0
10/03/2010	10.0	7.0
11/03/2010	10.0	7.0
12/03/2010	11.0	7.0
13/03/2010	12.0	7.0
14/03/2010	12.0	7.0
15/03/2010	13.0	8.0
16/03/2010	12.0	8.0
17/03/2010	13.0	7.0
18/03/2010	13.0	7.0
19/03/2010	13.0	7.0
20/03/2010	12.0	6.0
21/03/2010	13.0	8.0
22/03/2010	13.0	8.0
23/03/2010	13.0	8.0
24/03/2010	14.0	7.0
25/03/2010	15.0	7.0
26/03/2010	17.0	7.0
27/03/2010	17.0	7.0
28/03/2010	17.0	7.0
29/03/2010	17.0	7.0
30/03/2010	14.0	8.0
31/03/2010	14.0	7.0
Mar 10 Avg	13.7	7.2

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/04/2010	14.0	7.0
02/04/2010	15.0	7.0
03/04/2010	14.0	7.0
04/04/2010	15.0	7.0
05/04/2010	14.0	8.0
06/04/2010	15.0	8.0
07/04/2010	15.0	8.0
08/04/2010	15.0	7.0
09/04/2010	15.0	7.0
10/04/2010	15.0	7.0
11/04/2010	15.0	7.0
12/04/2010	15.0	8.0
13/04/2010	15.0	8.0
14/04/2010	15.0	8.0
15/04/2010	15.0	7.0
16/04/2010	14.0	6.0
17/04/2010	14.0	7.0
18/04/2010	15.0	6.0
19/04/2010	15.0	6.0
20/04/2010	14.0	6.0
21/04/2010	15.0	7.0
22/04/2010	15.0	7.0
23/04/2010	14.0	7.0
24/04/2010	14.0	7.0
25/04/2010	14.0	7.0
26/04/2010	14.0	6.0
27/04/2010	16.0	6.0
28/04/2010	18.0	6.0
29/04/2010	15.0	7.0
30/04/2010	13.0	7.0
Apr 10 Avg	14.7	7.0

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/05/2010	14.3	6.5
02/05/2010	14.6	6.4
03/05/2010	14.7	7.0
04/05/2010	14.5	6.7
05/05/2010	13.8	6.4
06/05/2010	13.2	6.8
07/05/2010	12.5	6.4
08/05/2010	13.7	7.1
09/05/2010	13.1	6.4
10/05/2010	13.7	6.9
11/05/2010	13.2	6.9
12/05/2010	12.8	6.3
13/05/2010	13.3	6.4
14/05/2010	13.4	6.7
15/05/2010	13.5	6.8
16/05/2010	13.4	6.6
17/05/2010	13.6	6.6
18/05/2010	12.6	6.6
19/05/2010	11.0	6.7
20/05/2010	12.0	8.5
21/05/2010	11.4	6.7
22/05/2010	11.5	7.2
23/05/2010	11.4	6.8
24/05/2010	11.6	7.1
25/05/2010	11.7	6.9
26/05/2010	11.6	6.4
27/05/2010	11.9	6.7
28/05/2010	11.9	6.9
29/05/2010	11.6	6.7
30/05/2010	11.7	7.0
31/05/2010	11.6	7.3
May 10 Avg	12.7	6.8

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/06/2010	11.8	7.6
02/06/2010	11.8	6.2
03/06/2010	11.6	6.1
04/06/2010	11.4	5.9
05/06/2010	11.3	6.2
06/06/2010	11.1	6.0
07/06/2010	10.8	5.3
08/06/2010	10.7	6.0
09/06/2010	11.3	6.0
10/06/2010	10.4	6.5
11/06/2010	11.4	6.1
12/06/2010	11.7	6.1
13/06/2010	11.3	6.3
14/06/2010	11.7	5.9
15/06/2010	11.6	6.3
16/06/2010	11.3	5.4
17/06/2010	10.9	6.0
18/06/2010	10.8	5.3
19/06/2010	11.2	6.3
20/06/2010	11.2	5.7
21/06/2010	11.3	5.9
22/06/2010	11.3	8.1
23/06/2010	11.2	6.0
24/06/2010	11.4	6.3
25/06/2010	10.8	6.2
26/06/2010	7.6	6.4
27/06/2010	8.7	6.2
28/06/2010	9.5	5.9
29/06/2010	9.4	6.2
30/06/2010	10.1	6.0
Jun 10 Avg	10.9	6.2

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/07/2010	10.6	6.2
02/07/2010	11.2	6.6
03/07/2010	7.8	4.8
04/07/2010	11.1	6.0
05/07/2010	11.2	5.9
06/07/2010	10.6	5.4
07/07/2010	11.4	5.5
08/07/2010	10.9	5.7
09/07/2010	11.6	5.9
10/07/2010	11.7	6.9
11/07/2010	11.4	6.1
12/07/2010	11.4	6.0
13/07/2010	11.3	5.6
14/07/2010	11.1	6.3
15/07/2010	11.3	6.6
16/07/2010	11.2	6.8
17/07/2010	10.9	6.4
18/07/2010	10.9	5.5
19/07/2010	10.4	5.9
20/07/2010	11.4	5.9
21/07/2010	10.9	6.4
22/07/2010	10.3	6.5
23/07/2010	6.5	6.6
24/07/2010	10.2	6.5
25/07/2010	10.9	6.3
26/07/2010	11.1	6.6
27/07/2010	11.3	6.4
28/07/2010	11.2	6.1
29/07/2010	8.2	6.6
30/07/2010	10.6	6.8
31/07/2010	10.0	6.6
Jul 10 Avg	10.7	6.2

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/08/2010	10.1	6.7
02/08/2010	11.1	6.6
03/08/2010	10.8	6.7
04/08/2010	11.0	6.7
05/08/2010	10.8	6.6
06/08/2010	10.3	6.5
07/08/2010	10.7	6.5
08/08/2010	9.9	6.3
09/08/2010	11.0	6.3
10/08/2010	11.4	6.3
11/08/2010	12.2	6.6
12/08/2010	11.9	6.4
13/08/2010	11.5	6.9
14/08/2010	11.3	5.9
15/08/2010	11.4	6.3
16/08/2010	11.9	6.5
17/08/2010	11.1	6.1
18/08/2010	11.7	6.1
19/08/2010	11.4	7.0
20/08/2010	9.9	5.9
21/08/2010	11.5	6.5
22/08/2010	11.2	6.3
23/08/2010	11.6	6.2
24/08/2010	10.1	6.7
25/08/2010	11.5	6.5
26/08/2010	11.6	6.5
27/08/2010	11.8	6.2
28/08/2010	11.5	6.6
29/08/2010	11.8	6.3
30/08/2010	11.4	6.9
31/08/2010	11.4	6.5
Aug 10 Avg	11.2	6.5

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/09/2010	12.8	6.5
02/09/2010	11.8	6.2
03/09/2010	11.4	6.5
04/09/2010	11.5	6.3
05/09/2010	11.7	6.4
06/09/2010	11.8	6.2
07/09/2010	11.6	6.8
08/09/2010	12.1	6.3
09/09/2010	12.1	6.6
10/09/2010	11.5	6.5
11/09/2010	10.0	7.1
12/09/2010	10.4	5.9
13/09/2010	9.7	7.1
14/09/2010	11.3	6.2
15/09/2010	10.8	6.5
16/09/2010	18.5	6.2
17/09/2010	18.9	6.5
18/09/2010	11.3	6.2
19/09/2010	10.2	6.4
20/09/2010	10.8	6.3
21/09/2010	6.8	6.5
22/09/2010	14.1	6.8
23/09/2010	16.7	6.3
24/09/2010	12.9	6.7
25/09/2010	10.9	6.3
26/09/2010	11.0	6.4
27/09/2010	11.2	6.0
28/09/2010	11.4	6.0
29/09/2010	11.6	6.0
30/09/2010	11.5	5.9
Sep 10 Avg	11.9	6.4

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/10/2010	11.4	5.9
02/10/2010	11.4	5.8
03/10/2010	11.3	5.7
04/10/2010	11.5	5.9
05/10/2010	11.6	5.5
06/10/2010	11.7	5.8
07/10/2010	9.8	5.9
08/10/2010	9.9	5.9
09/10/2010	8.7	5.5
10/10/2010	6.2	5.9
11/10/2010	9.2	5.7
12/10/2010	8.4	5.9
13/10/2010	8.9	6.0
14/10/2010	8.9	5.4
15/10/2010	9.0	5.7
16/10/2010	9.1	5.7
17/10/2010	8.6	5.3
18/10/2010	8.7	5.9
19/10/2010	9.8	5.5
20/10/2010	10.9	5.8
21/10/2010	10.8	5.7
22/10/2010	11.1	5.9
23/10/2010	11.0	5.7
24/10/2010	8.1	5.5
25/10/2010	10.8	5.8
26/10/2010	10.8	5.5
27/10/2010	10.7	5.6
28/10/2010	10.8	5.4
29/10/2010	10.2	5.6
30/10/2010	10.7	5.5
31/10/2010	10.5	5.6
Oct 10 Avg	10.0	5.7

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/11/2010	13.1	5.4
02/11/2010	17.5	5.6
03/11/2010	16.8	4.5
04/11/2010	15.6	3.5
05/11/2010	9.9	3.0
06/11/2010	9.0	2.3
07/11/2010	9.9	2.7
08/11/2010	9.9	2.4
09/11/2010	10.1	2.7
10/11/2010	10.2	2.8
11/11/2010	10.0	2.5
12/11/2010	10.3	2.9
13/11/2010	10.4	2.5
14/11/2010	10.7	2.9
15/11/2010	10.8	2.5
16/11/2010	10.6	2.5
17/11/2010	10.9	2.9
18/11/2010	11.1	2.5
19/11/2010	11.4	2.9
20/11/2010	11.0	2.5
21/11/2010	10.8	2.5
22/11/2010	11.1	2.8
23/11/2010	10.7	2.4
24/11/2010	10.9	2.4
25/11/2010	10.5	2.8
26/11/2010	10.6	2.4
27/11/2010	10.4	2.8
28/11/2010	10.5	2.9
29/11/2010	10.8	2.8
30/11/2010	11.1	2.9
Nov 10 Avg	11.2	2.9

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/12/2010	11.6	2.6
02/12/2010	16.0	2.9
03/12/2010	18.3	2.9
04/12/2010	17.5	2.8
05/12/2010	17.1	2.8
06/12/2010	17.9	2.9
07/12/2010	17.6	2.9
08/12/2010	16.6	2.9
09/12/2010	16.1	2.9
10/12/2010	14.6	3.3
11/12/2010	12.9	2.9
12/12/2010	13.1	2.6
13/12/2010	13.0	3.3
14/12/2010	12.7	3.3
15/12/2010	13.0	2.9
16/12/2010	10.9	4.4
17/12/2010	10.0	3.3
18/12/2010	11.6	2.9
19/12/2010	12.9	2.5
20/12/2010	13.7	2.8
21/12/2010	13.0	2.8
22/12/2010	13.4	2.4
23/12/2010	10.3	2.9
24/12/2010	9.6	2.5
25/12/2010	12.9	3.0
26/12/2010	12.3	3.1
27/12/2010	8.5	3.1
28/12/2010	8.3	2.6
29/12/2010	12.4	3.0
30/12/2010	13.2	3.8
31/12/2010	13.7	4.1
Dec 10 Avg	13.4	3.0

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/01/2011	13.3	2.9
02/01/2011	12.5	3.2
03/01/2011	12.2	2.8
04/01/2011	11.1	3.2
05/01/2011	10.8	3.2
06/01/2011	10.7	2.9
07/01/2011	8.9	2.9
08/01/2011	8.8	2.5
09/01/2011	10.1	3.0
10/01/2011	9.7	3.3
11/01/2011	9.8	3.3
12/01/2011	8.0	3.3
13/01/2011	8.6	2.9
14/01/2011	9.3	3.3
15/01/2011	8.6	2.9
16/01/2011	7.2	3.2
17/01/2011	10.6	6.4
18/01/2011	7.6	3.2
19/01/2011	8.7	3.2
20/01/2011	9.6	3.2
21/01/2011	9.5	3.2
22/01/2011	8.3	3.2
23/01/2011	7.7	2.9
24/01/2011	10.3	3.2
25/01/2011	9.9	2.9
26/01/2011	9.3	3.3
27/01/2011	10.0	2.9
28/01/2011	10.4	3.3
29/01/2011	8.9	3.2
30/01/2011	8.6	3.2
31/01/2011	8.5	3.5
Jan 11 Avg	9.6	3.2

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/02/2011	7.5	3.2
02/02/2011	8.6	2.8
03/02/2011	11.6	3.2
04/02/2011	12.1	3.2
05/02/2011	13.5	3.7
06/02/2011	15.3	3.3
07/02/2011	15.6	3.2
08/02/2011	16.1	2.7
09/02/2011	16.7	3.1
10/02/2011	15.7	3.4
11/02/2011	16.4	3.1
12/02/2011	12.8	3.3
13/02/2011	10.4	3.6
14/02/2011	10.0	4.1
15/02/2011	8.8	4.4
16/02/2011	7.9	4.1
17/02/2011	10.4	4.2
18/02/2011	10.6	4.1
19/02/2011	9.9	4.0
20/02/2011	9.9	3.8
21/02/2011	10.8	4.2
22/02/2011	10.3	4.2
23/02/2011	12.3	3.8
24/02/2011	13.5	4.2
25/02/2011	12.8	4.2
26/02/2011	12.0	4.5
27/02/2011	15.2	4.6
28/02/2011	15.8	4.5
Feb 11 Avg	12.2	3.7

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/03/2011	15.3	4.5
02/03/2011	14.8	4.5
03/03/2011	14.4	4.5
04/03/2011	12.9	4.9
05/03/2011	12.7	4.9
06/03/2011	14.7	4.2
07/03/2011	15.9	4.2
08/03/2011	12.7	4.9
09/03/2011	13.4	4.6
10/03/2011	13.8	4.2
11/03/2011	12.8	4.6
12/03/2011	14.3	4.2
13/03/2011	16.6	4.2
14/03/2011	16.2	4.2
15/03/2011	16.0	4.2
16/03/2011	13.2	4.8
17/03/2011	12.2	4.4
18/03/2011	11.5	4.8
19/03/2011	11.7	4.4
20/03/2011	14.5	4.2
21/03/2011	15.0	4.5
22/03/2011	15.1	3.7
23/03/2011	12.7	4.8
24/03/2011	12.3	4.3
25/03/2011	12.2	4.5
26/03/2011	13.4	4.4
27/03/2011	13.7	4.1
28/03/2011	13.4	4.5
29/03/2011	12.8	4.9
30/03/2011	14.1	3.8
31/03/2011	14.9	4.2
Mar 11 Avg	13.8	4.4

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/04/2011	15.3	4.2
02/04/2011	17.2	3.5
03/04/2011	19.0	3.5
04/04/2011	17.2	3.5
05/04/2011	16.6	4.2
06/04/2011	16.2	4.1
07/04/2011	17.6	3.4
08/04/2011	17.6	3.8
09/04/2011	18.1	3.4
10/04/2011	19.0	3.4
11/04/2011	19.3	3.0
12/04/2011	19.1	3.4
13/04/2011	18.8	3.0
14/04/2011	19.0	3.4
15/04/2011	18.4	2.7
16/04/2011	18.9	3.0
17/04/2011	18.5	2.9
18/04/2011	18.7	3.0
19/04/2011	18.4	3.4
20/04/2011	17.7	3.0
21/04/2011	17.9	3.4
22/04/2011	18.7	2.7
23/04/2011	19.0	3.2
24/04/2011	18.8	2.8
25/04/2011	18.6	2.7
26/04/2011	18.9	2.7
27/04/2011	18.9	2.7
28/04/2011	18.6	2.7
29/04/2011	19.2	2.7
30/04/2011	18.8	2.7
Apr 11 Avg	18.3	3.2

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/05/2011	18.7	2.8
02/05/2011	18.7	2.6
03/05/2011	18.8	2.6
04/05/2011	18.8	2.6
05/05/2011	18.5	2.9
06/05/2011	18.4	3.0
07/05/2011	18.6	3.0
08/05/2011	18.9	2.6
09/05/2011	18.7	2.6
10/05/2011	19.0	2.6
11/05/2011	18.7	2.7
12/05/2011	18.9	2.7
13/05/2011	18.1	3.3
14/05/2011	19.1	3.3
15/05/2011	18.4	3.0
16/05/2011	18.2	3.7
17/05/2011	17.4	3.7
18/05/2011	17.7	4.4
19/05/2011	18.1	4.4
20/05/2011	18.8	3.7
21/05/2011	19.1	4.5
22/05/2011	15.4	5.5
23/05/2011	15.2	5.1
24/05/2011	17.9	4.5
25/05/2011	18.9	4.1
26/05/2011	19.5	3.8
27/05/2011	19.1	3.7
28/05/2011	19.7	3.3
29/05/2011	18.9	3.4
30/05/2011	19.3	3.7
31/05/2011	19.2	3.7
May 11 Avg	18.5	3.5

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/06/2011	19.1	3.6
02/06/2011	18.9	3.3
03/06/2011	18.2	3.3
04/06/2011	20.3	3.2
05/06/2011	19.6	3.3
06/06/2011	19.1	3.7
07/06/2011	19.0	3.3
08/06/2011	18.8	3.3
09/06/2011	19.3	3.3
10/06/2011	19.9	3.4
11/06/2011	19.8	2.9
12/06/2011	18.2	3.8
13/06/2011	19.8	3.2
14/06/2011	20.2	3.6
15/06/2011	19.3	3.2
16/06/2011	16.5	5.7
17/06/2011	11.1	5.9
18/06/2011	17.0	4.1
19/06/2011	19.2	3.6
20/06/2011	19.2	3.2
21/06/2011	18.8	2.5
22/06/2011	19.4	5.8
23/06/2011	19.6	3.9
24/06/2011	20.4	2.5
25/06/2011	19.0	2.5
26/06/2011	19.3	2.6
27/06/2011	19.0	2.5
28/06/2011	16.0	5.9
29/06/2011	14.0	6.5
30/06/2011	14.4	6.3
Jun 11 Avg	18.4	3.8

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/07/2011	18.2	4.5
02/07/2011	19.4	3.5
03/07/2011	20.0	3.2
04/07/2011	20.0	3.5
05/07/2011	20.0	3.9
06/07/2011	20.3	2.9
07/07/2011	19.6	2.9
08/07/2011	19.5	2.9
09/07/2011	19.3	2.6
10/07/2011	18.9	3.0
11/07/2011	18.9	2.8
12/07/2011	18.9	3.5
13/07/2011	18.5	3.5
14/07/2011	18.3	3.8
15/07/2011	16.2	4.5
16/07/2011	13.6	6.2
17/07/2011	19.2	3.9
18/07/2011	19.4	2.8
19/07/2011	19.2	2.5
20/07/2011	19.1	3.2
21/07/2011	18.8	2.9
22/07/2011	18.5	3.2
23/07/2011	18.5	2.9
24/07/2011	17.4	2.6
25/07/2011	16.7	2.9
26/07/2011	18.4	2.6
27/07/2011	18.8	2.6
28/07/2011	18.7	2.6
29/07/2011	17.9	3.4
30/07/2011	18.5	3.5
31/07/2011	18.4	2.5
Jul 11 Avg	18.6	3.3

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/08/2011	18.5	2.0
02/08/2011	18.5	2.0
03/08/2011	18.2	3.0
04/08/2011	18.3	3.0
05/08/2011	18.5	3.0
06/08/2011	18.4	2.0
07/08/2011	18.8	2.0
08/08/2011	18.5	2.0
09/08/2011	18.7	3.0
10/08/2011	18.2	4.0
11/08/2011	17.6	4.0
12/08/2011	18.3	4.0
13/08/2011	18.6	3.0
14/08/2011	18.6	3.0
15/08/2011	17.9	2.0
16/08/2011	16.7	3.0
17/08/2011	18.2	2.0
18/08/2011	18.0	4.0
19/08/2011	18.5	3.0
20/08/2011	18.3	3.0
21/08/2011	18.6	3.0
22/08/2011	18.4	3.0
23/08/2011	18.2	3.0
24/08/2011	17.5	3.0
25/08/2011	18.3	3.0
26/08/2011	17.9	3.0
27/08/2011	17.8	3.0
28/08/2011	18.1	3.0
29/08/2011	18.0	3.0
30/08/2011	18.3	3.0
31/08/2011	18.6	3.0
Aug 11 Avg	18.2	2.9

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/09/2011	18.4	3.0
02/09/2011	18.5	3.0
03/09/2011	18.5	3.0
04/09/2011	18.6	3.0
05/09/2011	18.4	3.0
06/09/2011	18.2	3.0
07/09/2011	18.4	3.0
08/09/2011	18.2	3.0
09/09/2011	17.3	3.0
10/09/2011	17.4	3.0
11/09/2011	18.1	3.0
12/09/2011	18.1	3.0
13/09/2011	18.1	3.0
14/09/2011	18.2	3.0
15/09/2011	18.1	3.0
16/09/2011	17.9	3.0
17/09/2011	18.2	3.0
18/09/2011	18.0	3.0
19/09/2011	18.4	3.0
20/09/2011	18.3	3.0
21/09/2011	18.0	3.0
22/09/2011	17.5	3.0
23/09/2011	18.1	3.0
24/09/2011	18.0	3.0
25/09/2011	17.9	3.0
26/09/2011	17.3	3.0
27/09/2011	16.8	4.0
28/09/2011	16.6	5.0
29/09/2011	15.9	5.0
30/09/2011	14.7	5.0
Sept 11 Avg	17.8	3.2

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/10/2011	13.4	3.4
02/10/2011	14.1	3.2
03/10/2011	13.4	3.0
04/10/2011	13.1	3.7
05/10/2011	14.4	3.4
06/10/2011	14.4	3.8
07/10/2011	14.5	3.5
08/10/2011	14.9	3.2
09/10/2011	13.8	3.9
10/10/2011	14.9	3.5
11/10/2011	16.8	2.8
12/10/2011	12.9	6.6
13/10/2011	15.0	5.2
14/10/2011	16.2	4.7
15/10/2011	16.3	4.5
16/10/2011	17.3	4.2
17/10/2011	17.3	3.8
18/10/2011	16.8	4.5
19/10/2011	16.8	4.4
20/10/2011	16.7	3.8
21/10/2011	17.3	3.5
22/10/2011	17.7	3.5
23/10/2011	18.0	2.9
24/10/2011	18.1	2.8
25/10/2011	18.1	3.2
26/10/2011	16.5	4.0
27/10/2011	16.3	4.4
28/10/2011	17.5	4.1
29/10/2011	17.9	3.1
30/10/2011	17.7	2.8
31/10/2011	17.7	3.0
Oct 11 Avg	16.0	3.8

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/11/2011	17.6	3.0
02/11/2011	17.4	3.5
03/11/2011	17.6	2.8
04/11/2011	18.8	3.6
05/11/2011	18.7	2.5
06/11/2011	18.8	2.6
07/11/2011	18.1	2.4
08/11/2011	18.4	3.4
09/11/2011	15.1	4.8
10/11/2011	16.2	4.9
11/11/2011	17.8	3.5
12/11/2011	17.9	3.8
13/11/2011	18.2	3.2
14/11/2011	17.8	3.1
15/11/2011	17.3	3.8
16/11/2011	17.2	4.5
17/11/2011	18.1	3.1
18/11/2011	17.6	3.5
19/11/2011	17.9	2.5
20/11/2011	18.2	2.9
21/11/2011	18.0	2.4
22/11/2011	17.8	2.8
23/11/2011	17.7	2.8
24/11/2011	18.4	3.7
25/11/2011	18.1	3.7
26/11/2011	18.2	3.4
27/11/2011	18.1	2.4
28/11/2011	17.9	2.4
29/11/2011	18.2	2.8
30/11/2011	18.1	3.2
Nov 11 Avg	17.8	3.2

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/12/2011	18.0	3.2
02/12/2011	18.0	4.3
03/12/2011	17.0	4.6
04/12/2011	18.0	3.2
05/12/2011	18.0	5.0
06/12/2011	17.0	5.3
07/12/2011	18.0	4.3
08/12/2011	18.0	3.6
09/12/2011	17.0	5.5
10/12/2011	16.0	5.8
11/12/2011	15.0	6.9
12/12/2011	14.0	6.9
13/12/2011	15.0	6.7
14/12/2011	16.0	6.4
15/12/2011	16.0	5.3
16/12/2011	16.0	6.0
17/12/2011	17.0	5.5
18/12/2011	16.0	6.8
19/12/2011	15.0	6.3
20/12/2011	16.0	5.7
21/12/2011	17.0	5.3
22/12/2011	16.0	6.5
23/12/2011	15.0	6.6
24/12/2011	14.0	6.4
25/12/2011	13.0	6.5
26/12/2011	15.0	6.8
27/12/2011	15.0	6.6
28/12/2011	15.0	6.8
29/12/2011	16.0	5.4
30/12/2011	16.0	5.8
31/12/2011	16.0	5.8
Dec 11 Avg	16.1	5.7

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/01/2012	17.2	5.7
02/01/2012	17.5	6.2
03/01/2012	16.7	5.9
04/01/2012	14.1	6.2
05/01/2012	12.6	7.1
06/01/2012	12.7	6.6
07/01/2012	12.7	6.4
08/01/2012	13.3	6.7
09/01/2012	13.5	7.2
10/01/2012	13.7	7.3
11/01/2012	12.2	5.0
12/01/2012	11.4	6.4
13/01/2012	10.8	5.3
14/01/2012	11.3	4.3
15/01/2012	13.6	3.9
16/01/2012	10.8	4.6
17/01/2012	13.5	4.3
18/01/2012	12.3	4.3
19/01/2012	14.8	3.6
20/01/2012	13.6	2.8
21/01/2012	9.2	2.7
22/01/2012	9.2	2.4
23/01/2012	9.0	3.0
24/01/2012	8.0	3.0
25/01/2012	8.1	3.0
26/01/2012	7.4	3.0
27/01/2012	9.0	2.6
28/01/2012	9.1	3.0
29/01/2012	9.4	2.7
30/01/2012	9.2	3.7
31/01/2012	8.9	2.6
Jan 12 Avg	11.8	4.6

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/02/2012	11.9	3.3
02/02/2012	12.3	2.9
03/02/2012	13.5	3.9
04/02/2012	12.3	4.3
05/02/2012	14.2	4.0
06/02/2012	13.1	5.7
07/02/2012	13.1	4.0
08/02/2012	10.3	6.8
09/02/2012	10.5	5.4
10/02/2012	10.9	4.4
11/02/2012	11.8	4.0
12/02/2012	13.0	4.0
13/02/2012	14.3	5.4
14/02/2012	14.5	4.5
15/02/2012	15.4	6.3
16/02/2012	13.4	4.3
17/02/2012	11.5	4.3
18/02/2012	11.7	4.2
19/02/2012	12.3	4.3
20/02/2012	11.5	4.2
21/02/2012	11.5	4.7
22/02/2012	11.0	4.4
23/02/2012	12.8	5.4
24/02/2012	14.4	4.8
25/02/2012	13.5	4.0
26/02/2012	12.3	4.3
27/02/2012	10.3	4.2
28/02/2012	9.2	4.8
29/02/2012	9.5	4.3
Feb 12 Avg	12.3	4.5

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/03/2012	13.0	4.0
02/03/2012	15.6	3.7
03/03/2012	15.3	4.3
04/03/2012	15.3	4.0
05/03/2012	15.2	4.0
06/03/2012	13.1	3.2
07/03/2012	10.6	2.9
08/03/2012	14.2	3.9
09/03/2012	13.4	4.3
10/03/2012	11.4	4.5
11/03/2012	11.3	3.8
12/03/2012	9.9	4.8
13/03/2012	10.1	4.2
14/03/2012	12.6	4.3
15/03/2012	13.1	3.9
16/03/2012	15.0	4.0
17/03/2012	17.1	3.6
18/03/2012	17.8	3.3
19/03/2012	17.0	3.6
20/03/2012	15.1	3.7
21/03/2012	14.5	3.9
22/03/2012	15.0	3.6
23/03/2012	16.3	3.7
24/03/2012	16.0	3.3
25/03/2012	16.6	4.0
26/03/2012	14.8	3.6
27/03/2012	14.8	4.0
28/03/2012	16.1	3.3
29/03/2012	16.6	3.7
30/03/2012	17.4	3.0
31/03/2012	17.0	2.6
Mar 12 Avg	14.6	3.8

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/04/2012	17.2	2.6
02/04/2012	16.9	3.3
03/04/2012	17.1	3.0
04/04/2012	17.6	3.0
05/04/2012	15.8	3.5
06/04/2012	11.4	3.4
07/04/2012	13.4	3.5
08/04/2012	13.5	3.1
09/04/2012	11.3	3.4
10/04/2012	15.6	3.2
11/04/2012	16.9	3.3
12/04/2012	17.4	2.9
13/04/2012	17.5	2.6
14/04/2012	17.6	2.9
15/04/2012	17.5	2.9
16/04/2012	17.8	2.9
17/04/2012	16.7	3.3
18/04/2012	15.6	2.6
19/04/2012	16.0	3.2
20/04/2012	14.0	4.3
21/04/2012	15.0	2.9
22/04/2012	16.5	2.9
23/04/2012	17.0	2.9
24/04/2012	16.7	2.9
25/04/2012	16.9	2.6
26/04/2012	16.9	2.6
27/04/2012	16.8	3.2
28/04/2012	13.9	3.4
29/04/2012	14.0	3.3
30/04/2012	16.6	2.5
Apr 12 Avg	15.9	3.1

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl₂/L)	Average sodium bisulphite dosage (mg NaHSO₃/L)
01/05/2012	16.1	2.6
02/05/2012	16.3	2.6
03/05/2012	16.7	2.6
04/05/2012	17.0	2.8
05/05/2012	16.6	2.5
06/05/2012	17.1	2.5
07/05/2012	17.0	2.8
08/05/2012	17.4	2.5
09/05/2012	17.7	2.5
10/05/2012	17.8	2.5
11/05/2012	17.9	2.5
12/05/2012	18.2	2.5
13/05/2012	18.0	2.6
14/05/2012	18.3	2.9
15/05/2012	18.3	2.5
16/05/2012	18.2	2.6
17/05/2012	18.6	2.6
18/05/2012	16.3	3.8
19/05/2012	16.6	3.1
20/05/2012	18.5	3.0
21/05/2012	17.5	3.7
22/05/2012	17.4	3.7
23/05/2012	16.9	4.1
24/05/2012	17.7	4.2
25/05/2012	18.0	3.2
26/05/2012	17.8	3.0
27/05/2012	18.2	2.8
28/05/2012	17.3	3.1
29/05/2012	18.2	2.8
30/05/2012	18.2	2.9
31/05/2012	17.9	2.9
May 12 Avg	17.5	2.9

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl₂/L)	Average sodium bisulphite dosage (mg NaHSO₃/L)
01/06/2012	18.1	3.1
02/06/2012	18.3	3.0
03/06/2012	16.4	3.8
04/06/2012	17.6	3.3
05/06/2012	17.6	3.0
06/06/2012	18.5	3.3
07/06/2012	18.4	3.0
08/06/2012	18.4	2.4
09/06/2012	18.4	2.4
10/06/2012	18.5	3.1
11/06/2012	18.0	2.5
12/06/2012	18.0	2.9
13/06/2012	17.6	2.5
14/06/2012	17.1	3.3
15/06/2012	17.8	2.9
16/06/2012	17.4	4.0
17/06/2012	15.9	3.6
18/06/2012	15.5	2.6
19/06/2012	14.0	3.1
20/06/2012	14.2	2.7
21/06/2012	15.3	3.4
22/06/2012	18.0	3.7
23/06/2012	18.0	3.2
24/06/2012	17.7	2.9
25/06/2012	17.9	2.8
26/06/2012	17.8	2.9
27/06/2012	17.7	3.2
28/06/2012	17.6	3.3
29/06/2012	17.5	3.3
30/06/2012	15.2	4.2
Jun 12 Avg	17.3	3.1

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/07/2012	17.7	3.6
02/07/2012	16.8	2.1
03/07/2012	18.3	3.4
04/07/2012	18.4	3.1
05/07/2012	17.1	3.9
06/07/2012	18.5	3.4
07/07/2012	18.6	3.4
08/07/2012	18.4	2.9
09/07/2012	18.3	2.8
10/07/2012	18.0	2.6
11/07/2012	18.4	2.9
12/07/2012	18.4	2.6
13/07/2012	18.7	3.3
14/07/2012	18.4	3.2
15/07/2012	18.3	2.9
16/07/2012	18.7	2.8
17/07/2012	18.2	3.6
18/07/2012	16.1	4.3
19/07/2012	18.8	3.9
20/07/2012	18.1	3.2
21/07/2012	17.7	2.8
22/07/2012	18.2	3.2
23/07/2012	14.5	5.9
24/07/2012	6.6	9.4
25/07/2012	9.4	6.8
26/07/2012	12.7	5.7
27/07/2012	14.8	3.9
28/07/2012	17.6	3.4
29/07/2012	18.4	2.8
30/07/2012	17.9	2.7
31/07/2012	17.8	3.0
Jul 12 Avg	17.0	3.7

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/08/2012	17.7	3.0
02/08/2012	17.8	2.9
03/08/2012	18.4	2.7
04/08/2012	18.9	2.8
05/08/2012	18.9	2.8
06/08/2012	18.8	2.7
07/08/2012	18.1	2.5
08/08/2012	17.0	2.5
09/08/2012	16.6	2.6
10/08/2012	17.6	2.5
11/08/2012	17.5	3.0
12/08/2012	18.3	2.5
13/08/2012	18.7	2.8
14/08/2012	18.5	2.5
15/08/2012	18.8	2.5
16/08/2012	15.9	2.4
17/08/2012	16.3	2.7
18/08/2012	18.7	2.8
19/08/2012	18.6	2.5
20/08/2012	18.4	2.4
21/08/2012	17.8	2.5
22/08/2012	18.4	2.5
23/08/2012	17.8	2.5
24/08/2012	17.7	2.5
25/08/2012	17.8	2.8
26/08/2012	17.7	2.5
27/08/2012	18.2	2.3
28/08/2012	18.3	2.4
29/08/2012	18.5	2.4
30/08/2012	18.8	2.5
31/08/2012	17.4	3.1
Aug 12 Avg	18.0	2.6

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/09/2012	19.1	2.4
02/09/2012	18.8	2.4
03/09/2012	18.9	2.4
04/09/2012	18.5	2.7
05/09/2012	18.5	2.5
06/09/2012	18.7	2.4
07/09/2012	19.2	2.5
08/09/2012	18.5	2.8
09/09/2012	18.2	2.5
10/09/2012	18.7	2.5
11/09/2012	18.8	2.9
12/09/2012	18.8	2.9
13/09/2012	19.2	2.5
14/09/2012	18.8	2.9
15/09/2012	18.9	2.4
16/09/2012	18.9	2.8
17/09/2012	18.9	2.4
18/09/2012	18.5	2.4
19/09/2012	18.5	2.8
20/09/2012	18.7	2.4
21/09/2012	18.9	2.4
22/09/2012	18.6	2.7
23/09/2012	18.7	2.5
24/09/2012	18.5	2.5
25/09/2012	12.4	3.6
26/09/2012	18.3	2.6
27/09/2012	18.8	2.3
28/09/2012	18.8	2.7
29/09/2012	16.4	2.7
30/09/2012	13.2	2.4
Sept 12 Avg	18.2	2.6

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/10/2012	13.0	2.5
02/10/2012	12.9	2.7
03/10/2012	12.7	2.4
04/10/2012	12.0	2.4
05/10/2012	11.3	2.7
06/10/2012	11.4	2.4
07/10/2012	11.4	2.5
08/10/2012	11.3	2.7
09/10/2012	16.0	2.4
10/10/2012	18.8	2.8
11/10/2012	19.0	2.4
12/10/2012	19.1	2.4
13/10/2012	19.0	2.7
14/10/2012	19.0	2.4
15/10/2012	18.9	2.4
16/10/2012	18.9	2.7
17/10/2012	18.9	2.8
18/10/2012	19.1	2.4
19/10/2012	18.5	2.7
20/10/2012	19.1	2.4
21/10/2012	19.0	2.8
22/10/2012	11.8	2.5
23/10/2012	11.5	3.3
24/10/2012	9.7	7.8
25/10/2012	11.6	2.8
26/10/2012	12.0	2.8
27/10/2012	12.1	2.5
28/10/2012	12.0	2.5
29/10/2012	11.9	2.4
30/10/2012	11.6	2.3
31/10/2012	11.4	2.4
Oct 12 Avg	14.7	2.7

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/11/2012	11.8	2.5
02/11/2012	11.9	2.5
03/11/2012	11.7	2.5
04/11/2012	11.6	2.9
05/11/2012	11.8	2.5
06/11/2012	11.7	2.5
07/11/2012	11.3	2.5
08/11/2012	11.2	2.5
09/11/2012	11.6	2.6
10/11/2012	11.2	2.9
11/11/2012	11.2	2.6
12/11/2012	11.2	2.8
13/11/2012	10.6	2.4
14/11/2012	11.2	2.5
15/11/2012	11.1	2.8
16/11/2012	10.2	2.4
17/11/2012	11.1	2.8
18/11/2012	11.0	2.8
19/11/2012	11.0	3.1
20/11/2012	11.2	2.8
21/11/2012	10.9	3.3
22/11/2012	10.8	2.9
23/11/2012	10.5	2.9
24/11/2012	10.8	2.9
25/11/2012	10.8	2.9
26/11/2012	10.7	3.2
27/11/2012	11.0	2.7
28/11/2012	10.9	2.8
29/11/2012	11.0	2.9
30/11/2012	10.9	2.9
Nov 12 Avg	11.1	2.7

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/12/2012	10.7	2.8
02/12/2012	10.6	2.5
03/12/2012	11.0	2.4
04/12/2012	10.8	2.8
05/12/2012	11.1	2.8
06/12/2012	10.9	2.8
07/12/2012	11.0	2.5
08/12/2012	10.9	2.9
09/12/2012	10.8	2.9
10/12/2012	11.0	2.8
11/12/2012	11.4	2.5
12/12/2012	10.7	2.8
13/12/2012	10.8	2.7
14/12/2012	10.8	2.9
15/12/2012	10.9	2.8
16/12/2012	10.7	2.9
17/12/2012	10.8	2.9
18/12/2012	11.0	2.6
19/12/2012	10.8	2.9
20/12/2012	10.7	2.9
21/12/2012	10.6	2.9
22/12/2012	10.5	3.0
23/12/2012	10.3	3.0
24/12/2012	10.7	2.6
25/12/2012	10.5	3.1
26/12/2012	10.5	2.6
27/12/2012	10.5	2.9
28/12/2012	10.5	2.5
29/12/2012	10.6	2.5
30/12/2012	10.5	3.0
31/12/2012	10.7	2.6
Dec 12 Avg	10.8	2.8

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/01/2013	10.3	3.0
02/01/2013	10.7	2.2
03/01/2013	10.6	2.9
04/01/2013	10.8	2.6
05/01/2013	10.7	2.9
06/01/2013	10.5	2.6
07/01/2013	10.3	2.9
08/01/2013	10.2	2.9
09/01/2013	10.3	2.5
10/01/2013	10.3	2.8
11/01/2013	9.9	2.8
12/01/2013	10.3	2.8
13/01/2013	10.1	2.5
14/01/2013	10.4	2.9
15/01/2013	9.8	2.9
16/01/2013	9.8	2.6
17/01/2013	9.8	3.0
18/01/2013	10.3	2.6
19/01/2013	10.4	3.0
20/01/2013	10.5	2.6
21/01/2013	10.9	2.6
22/01/2013	10.8	3.0
23/01/2013	10.8	2.6
24/01/2013	10.6	2.5
25/01/2013	10.8	2.5
26/01/2013	10.5	2.5
27/01/2013	10.5	2.6
28/01/2013	10.6	2.5
29/01/2013	10.0	2.9
30/01/2013	9.6	2.6
31/01/2013	9.5	2.6
Jan 13 Avg	10.3	2.7

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/02/2013	8.9	3.4
02/02/2013	9.1	2.6
03/02/2013	9.0	2.6
04/02/2013	9.2	2.6
05/02/2013	8.8	2.6
06/02/2013	8.5	2.6
07/02/2013	8.4	2.5
08/02/2013	8.3	2.8
09/02/2013	8.4	2.4
10/02/2013	8.4	2.9
11/02/2013	8.4	2.8
12/02/2013	8.4	2.8
13/02/2013	8.2	2.4
14/02/2013	8.5	2.7
15/02/2013	8.5	3.1
16/02/2013	8.4	3.1
17/02/2013	8.2	3.1
18/02/2013	8.5	3.1
19/02/2013	9.0	3.0
20/02/2013	8.9	3.0
21/02/2013	8.8	3.0
22/02/2013	9.0	3.0
23/02/2013	8.9	3.0
24/02/2013	13.4	3.0
25/02/2013	12.8	3.0
26/02/2013	13.1	3.0
27/02/2013	12.0	3.0
28/02/2013	8.1	3.0
Feb 13 Avg	9.2	2.9

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/03/2013	9.1	3.0
02/03/2013	9.0	2.7
03/03/2013	12.6	3.0
04/03/2013	12.5	3.0
05/03/2013	13.9	3.0
06/03/2013	12.2	3.0
07/03/2013	8.2	3.0
08/03/2013	9.3	2.7
09/03/2013	9.0	3.0
10/03/2013	8.9	3.1
11/03/2013	9.0	3.0
12/03/2013	9.3	3.0
13/03/2013	9.9	3.1
14/03/2013	9.9	2.7
15/03/2013	9.5	2.6
16/03/2013	8.9	3.0
17/03/2013	10.3	2.7
18/03/2013	10.9	3.0
19/03/2013	10.9	2.5
20/03/2013	12.9	2.6
21/03/2013	14.1	3.0
22/03/2013	14.9	2.7
23/03/2013	15.0	3.0
24/03/2013	15.0	2.7
25/03/2013	15.0	2.6
26/03/2013	14.6	2.9
27/03/2013	15.0	2.7
28/03/2013	16.0	2.9
29/03/2013	16.3	3.1
30/03/2013	14.7	2.8
31/03/2013	13.6	3.2
Mar 13 Avg	12.0	2.9

Appendix A - Chemical Dosage Records

Date	Average sodium hypochlorite dosage (mg Cl ₂ /L)	Average sodium bisulphite dosage (mg NaHSO ₃ /L)
01/04/2013	17.5	3.4
02/04/2013	17.5	3.0
03/04/2013	15.6	2.7
04/04/2013	14.9	3.1
05/04/2013	12.1	3.1
06/04/2013	11.9	2.8
07/04/2013	13.8	3.4
08/04/2013	14.4	3.0
09/04/2013	12.8	3.3
10/04/2013	11.7	3.2
11/04/2013	11.7	3.2
12/04/2013	11.4	3.0
13/04/2013	13.6	3.0
14/04/2013	15.5	3.0
15/04/2013	16.1	2.6
16/04/2013	17.1	3.0
17/04/2013	16.7	2.9
18/04/2013	15.3	2.6
19/04/2013	15.1	2.9
20/04/2013	15.2	2.5
21/04/2013	15.3	2.6
22/04/2013	15.6	2.9
23/04/2013	15.7	2.6
24/04/2013	15.3	2.6
25/04/2013	16.1	2.8
26/04/2013	15.8	2.7
27/04/2013	16.1	2.9
28/04/2013	16.1	2.5
29/04/2013	16.2	2.9
30/04/2013	16.6	2.5
Apr 13 Avg	14.9	2.9

APPENDIX B

Baseline and Operation Effluent Quality Monitoring Records

Appendix B - Baseline and Operation Effluent Quality Monitoring Records

Parameters (µg/L)		Baseline Monitoring											
TRC and Potential CBPs		Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09
Total residual Chlorine (TRC)		11	8	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodrom		0.4	0.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane		0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodrom		2	0.5	0.3	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane		0.4	0.3	0.3	0.2	<0.2	0.2	0.4	0.3	<0.2	<0.2	0.2	0.2
Bromoacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COCs)													
Methylene chloride		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene		0.6	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane		0.6	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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APPENDIX C

Baseline and Operation Marine Water Quality Monitoring Records and Their Statistical Analysis



Station 1

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Station 1

Parameters (µg/L)	Baseline Monitoring																	
	Jan-09						Feb-09						Mar-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoforn	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroforn	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20						
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

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Station 1

Parameters (µg/L)	Operation Period																	
	Mar-10									Apr-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	0.7	0.7	0.8	0.8	0.9
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 1

Parameters (µg/L)	Operation Period																	
	Jun-10									Jul-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.3	0.3	0.3	0.3	0.3	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Gamma-BHC

Station 1

Parameters (µg/L)	Operation Period																	
	Dec-10									Jan-11								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Gamma-BHC

Parameters (µg/L)	Operation Period											
	Aug-11						Sep-11					
	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs												
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5						
Bromoform	0.3	0.3	0.3	0.3	0.3	0.3						
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2						
Bromoacetic acid	<2	<2	<2	<2	<2	<2						
Chloroacetic acid	<2	<2	<2	<2	<2	<2						
Dibromoacetic acid	<2	<2	<2	<2	<2	<2						
Dichloroacetic acid	<2	<2	<2	<2	<2	<2						
Trichloroacetic acid	<2	<2	<2	<2	<2	<2						
Contaminants of Concern (COC)												
Methylene chloride							<20	<20	<20	<20	<20	<20
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

[illegible]

Station 1

Parameters (µg/L)	Operation Period																	
	Jul-12						Oct-12						Jan-13					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)																		
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20						
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station 1

Parameters (µg/L)	Operation Period					
	Apr-13					
TRC and Potential CBPs	A	B	C	D	E	F
Total residual Chlorine (TRC)	<10	<10	<10	<10	<10	<10
Bromoform	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<1	<1	<1	<1	<1	<1
Chloroacetic acid	<5	<5	<5	<5	<5	<5
Dibromoacetic acid	<1	<1	<1	<1	<1	<1
Dichloroacetic acid	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)						
Methylene chloride	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1
2-chlorophenol	<1	<1	<1	<1	<1	<1
2,4-dichlorophenol	<1	<1	<1	<1	<1	<1
p-chloro-m-cresol	<1	<1	<1	<1	<1	<1
Pentachlorophenol	<1	<1	<1	<1	<1	<1
2,4,6-trichlorophenol	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy) methane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	<5	<5	<5	<5	<5	<5
Hexachloroethane	<1	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	<1	<1	<1	<1	<1	<1
Alpha-BHC	<1	<1	<1	<1	<1	<1
Beta-BHC	<1	<1	<1	<1	<1	<1
Gamma-BHC	<1	<1	<1	<1	<1	<1

Station 2

Parameters (µg/L)	Baseline Monitoring																	
	Oct-08						Nov-08						Dec-08					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromofom	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	1.8	2.7	3.6	4.3	2.8	1.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COCs)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-n-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station 2

Parameters (µg/L)	Baseline Monitoring																	
	Jan-09						Feb-09						Mar-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station 2

[illegible]

Station 2

Parameters (µg/L)	Baseline Monitoring																	
	Jul-09						Aug-09						Sep-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station 2

Parameters (µg/L)	Operation Period																	
	Mar-10									Apr-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloroacetic acid	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dibromoacetic acid	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichloroacetic acid	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Trichloroacetic acid	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Contaminants of Concern (COC)																		
Methylene chloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,1-tetrachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,5-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 2

Parameters (µg/L)	Operation Period																	
	Jun-10						Jul-10						Aug-10					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.3	0.3	0.3	0.3	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride														<20	<20	<20	<20	<20
Carbon tetrachloride														<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane														<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol														<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane														<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene														<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene														<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC														<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC														<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC														<0.01	<0.01	<0.01	<0.01	<0.01

Station 2

Parameters (µg/L)	Operation Period											
	Sep-10						Oct-10					
	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs												
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.2
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)												
Methylene chloride							<20	<20	<20	<20	<20	<20
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorocyclopentadiene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

[illegible]

Station 2	Parameters (µg/L)	Operation Period																	
		Mar-11						Apr-11						Jun-11					
		A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																			
Total residual Chlorine (TRC)		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																			
Methylene chloride														<20	<20	<20	<20	<20	<20
Carbon tetrachloride														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene														<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene														<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC														<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC														<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC														<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 2

Parameters (µg/L)	Operation Period																	
	Aug-11						Sep-11						Oct-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5												
Bromoform	0.3	0.3	0.3	0.3	0.4	0.4												
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1												
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1												
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2												
Bromoacetic acid	<2	<2	<2	<2	<2	<2												
Chloroacetic acid	<2	<2	<2	<2	<2	<2												
Dibromoacetic acid	<2	<2	<2	<2	<2	<2												
Dichloroacetic acid	<2	<2	<2	<2	<2	<2												
Trichloroacetic acid	<2	<2	<2	<2	<2	<2												
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Gamma-BHC

Station 2

Station 2

Parameters (µg/L)	Apr-13					
	A	B	C	D	E	F
TRC and Potential CBPs						
Total residual Chlorine (TRC)	<10	<10	<10	<10	<10	<10
Bromoform	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<1	<1	<1	<1	<1	<1
Chloroacetic acid	<5	<5	<5	<5	<5	<5
Dibromoacetic acid	<1	<1	<1	<1	<1	<1
Dichloroacetic acid	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)						
Methylene chloride	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1
2-chlorophenol	<1	<1	<1	<1	<1	<1
2,4-dichlorophenol	<1	<1	<1	<1	<1	<1
p-chloro-m-cresol	<1	<1	<1	<1	<1	<1
Pentachlorophenol	<1	<1	<1	<1	<1	<1
2,4,6-trichlorophenol	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy) methane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	<5	<5	<5	<5	<5	<5
Hexachloroethane	<1	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	<1	<1	<1	<1	<1	<1
Alpha-BHC	<1	<1	<1	<1	<1	<1
Beta-BHC	<1	<1	<1	<1	<1	<1
Gamma-BHC	<1	<1	<1	<1	<1	<1

CHB-BHC

[illegible]

Station 3

Parameters (µg/L)	Baseline Monitoring																	
	Apr-09						May-09						Jun-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromofom	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Penachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorocyclopentadiene							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
Hexachloroethane							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

[illegible]

Station 3

Parameters (µg/L)	Operation Period																	
	Mar-10						Apr-10						May-10					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.3	0.3	0.3	0.4	0.4
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

[illegible]

Parameters (µg/L)	Operation Period																	
	Dec-10						Jan-11						Feb-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total residual Chlorine (TRC)	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dibromochloromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Penachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,4-dichlorobenzene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-trichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 3

Parameters (µg/L)	Mar-11						Apr-11						Jun-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<0.1	<0.1	<0.1	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5	<5	<5	<5
Bromolom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride														<20	<20	<20	<20	<20
Carbon tetrachloride														<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane														<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene														<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
p-chlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol														<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol														<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane														<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene														<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene														<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane														<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene														<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC														<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC														<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC														<0.01	<0.01	<0.01	<0.01	<0.01

[illegible]

Samma-BHC

Parameters (µg/L)	Baseline Monitoring																	
	Oct-08						Nov-08						Dec-08					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.3	0.3	0.2	0.3	0.2	0.2	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	0.3	1.9	0.8	3.6	1.7	0.6	0.2	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COCs)																		
Methylene chloride							<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol				</														

Station 4

Station 4		Baseline Monitoring																	
		Jan-09						Feb-09						Mar-09					
		A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
Parameters (µg/L)																			
TRC and Potential CBPs																			
Total residual Chlorine (TRC)		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																			
Methylene chloride		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5								

Station 4

Parameters (µg/L)	Baseline Monitoring																	
	Apr-09						May-09						Jun-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	0.1	0.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5					
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					

Station 4

Parameters (µg/L)	Baseline Monitoring																	
	Jul-09						Aug-09						Sep-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5					
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					

Station 4

Parameters (µg/L)	Operation Period																	
	Mar-10									Apr-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 4

Parameters (µg/L)	Operation Period																	
	Jun-10									Jul-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.2	0.2	0.2	0.2	0.2	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 4

Parameters (µg/L)	Operation Period																	
	Sep-10									Oct-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloroethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 4

Parameters (µg/L)	Operation Period																	
	Dec-10									Jan-11								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	0.1	0.2	0.1	0.1	<0.1	<0.1	<0.1	0.2	0.1	<0.1	0.1	0.1	0.1	<0.1	0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 4

Parameters (µg/L)	Mar-11						Apr-11						Jun-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station 4

Parameters (µg/L)	Aug-11						Sep-11						Oct-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20	<20	<20	<5	<5	<5	<5	<5	<5
Bromoform	0.5	0.5	0.4	0.5	0.4	0.4							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station 4

Station 4

Parameters (µg/L)	Jul-12						Oct-12						Jan-13					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.2	0.2	0.2	0.1	0.2	0.2	0.4	0.4	0.3	0.2	0.2	0.2	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)																		
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20						
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachlorobutadiene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station 4

Parameters (µg/L)	Apr-12					
	A	B	C	D	E	F
TRC and Potential CBPs						
Total residual Chlorine (TRC)	<10	<10	<10	<10	<10	<10
Bromoform	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<1	<1	<1	<1	<1	<1
Chloroacetic acid	<5	<5	<5	<5	<5	<5
Dibromoacetic acid	<1	<1	<1	<1	<1	<1
Dichloroacetic acid	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)						
Methylene chloride	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1
2-chlorophenol	<1	<1	<1	<1	<1	<1
2,4-dichlorophenol	<1	<1	<1	<1	<1	<1
p-chloro-m-cresol	<1	<1	<1	<1	<1	<1
Pentachlorophenol	<1	<1	<1	<1	<1	<1
2,4,6-trichlorophenol	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy) methane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	<5	<5	<5	<5	<5	<5
Hexachloroethane	<1	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	<1	<1	<1	<1	<1	<1
Alpha-BHC	<1	<1	<1	<1	<1	<1
Beta-BHC	<1	<1	<1	<1	<1	<1
Gamma-BHC	<1	<1	<1	<1	<1	<1

[illegible]

Gamma-BHC

Station SM6

Parameters (µg/L)	Baseline Monitoring																	
	Apr-09						May-09						Jun-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station SM6

Parameters (µg/L)	Baseline Monitoring																	
	Jul-09						Aug-09						Sep-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<0.1	<5	<0.1	<5	<5	<5	<0.1	<5	<0.1	<5	<5	<5	<0.1	<5	<0.1	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station SM6

Station SM6

Parameters (µg/L)	Operation Period																	
	Jun-10									Jul-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.2	0.2	0.2	0.2	0.2	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SM6

Parameters (µg/L)	Operation Period																	
	Sep-10									Oct-10								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SM6

Parameters (µg/L)	Operation Period																	
	Dec-10									Jan-11								
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoforn	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroforn	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SM6

Parameters (µg/L)	Mar-11						Apr-11						Jun-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SM6

Parameters (µg/L)	Aug-11						Sep-11						Oct-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total Residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5							<5	<5	<5	<5	<5	<5
Bromoform	0.3	0.4	0.4	0.4	0.4	0.4							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2							<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2							<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5					
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					

Station SM6

Station SM6

Parameters (µg/L)	Apr-13					
	A	B	C	D	E	F
TRC and Potential CBPs						
Total residual Chlorine (TRC)	<10	<10	<10	<10	<10	<10
Bromoform	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<1	<1	<1	<1	<1	<1
Chloroacetic acid	<5	<5	<5	<5	<5	<5
Dibromoacetic acid	<1	<1	<1	<1	<1	<1
Dichloroacetic acid	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)						
Methylene chloride	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1
2-chlorophenol	<1	<1	<1	<1	<1	<1
2,4-dichlorophenol	<1	<1	<1	<1	<1	<1
p-chloro-m-cresol	<1	<1	<1	<1	<1	<1
Pentachlorophenol	<1	<1	<1	<1	<1	<1
2,4,6-trichlorophenol	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy) methane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	<5	<5	<5	<5	<5	<5
Hexachloroethane	<1	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	<1	<1	<1	<1	<1	<1
Alpha-BHC	<1	<1	<1	<1	<1	<1
Beta-BHC	<1	<1	<1	<1	<1	<1
Gamma-BHC	<1	<1	<1	<1	<1	<1

Station SM12

Parameters (µg/L)	Baseline Monitoring																	
	Oct-08						Nov-08						Dec-08					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.2	0.2	0.2	0.2	0.2	0.2	<0.1	<0.1	<0.1	<0.1	0.4	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	0.5	0.2	0.5	0.4	0.6	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (GOCs)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Beta-BHC

Station SM12

Parameters (µg/L)	Baseline Monitoring																	
	Apr-09						May-09						Jun-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorocyclopentadiene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachloroethane							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station SM12

Parameters (µg/L)	Baseline Monitoring																	
	Jul-09						Aug-09						Sep-09					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride							<20	<20	<20	<20	<20	<20						
Carbon tetrachloride							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene							<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station SM12

Parameters (µg/L)	Operation Period																	
	Mar-10						Apr-10						May-10					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.2	0.2	0.2	0.2
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachlorocyclopentadiene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SM12

Parameters (µg/L)	Operation Period																	
	Jun-10						Jul-10						Aug-10					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	0.2	0.2	0.2	0.3	0.2	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.1	0.1	0.1	0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-n-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SM12

Parameters (µg/L)	Operation Period																	
	Sep-10						Oct-10						Nov-10					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SM12

Parameters (µg/L)	Operation Period																	
	Mar-11						Apr-11						Jun-11					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Contaminants of Concern (COC)																		
Methylene chloride													<20	<20	<20	<20	<20	<20
Carbon tetrachloride													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene													<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene													<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC													<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Station SIM12		Operation Period																							
		Aug-11						Sep-11						Oct-11											
		A		B		C		D		E		F		A		B		C		D		E		F	
		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)		Parameters (µg/L)	
TRC and Potential CBPs		A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
Total residual Chlorine (TRC)		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform		0.3	0.3	0.3	0.3	0.3	0.3																		
Bromodichloromethane		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																		
Chloroform		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																		
Dibromochloromethane		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2																		
Bromoacetic acid		<2	<2	<2	<2	<2	<2																		
Chloroacetic acid		<2	<2	<2	<2	<2	<2																		
Dibromoacetic acid		<2	<2	<2	<2	<2	<2																		
Dichloroacetic acid		<2	<2	<2	<2	<2	<2																		
Trichloroacetic acid		<2	<2	<2	<2	<2	<2																		
Contaminants of Concern (COC)																									
Methylene chloride		<20	<20	<20	<20	<20	<20						<20	<20											
Carbon tetrachloride		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
Chlorobenzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
1,1-dichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
1,2-dichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
1,1,1-trichloroethylene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
1,2-dichloropropane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
Tetrachloroethylene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
1,1,1-trichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
1,1,2-trichloroethane		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
Trichloroethylene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
2-chlorophenol		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	<0.5											
2,4-dichlorophenol		<0.5	<0.5	<0.5	<0.																				

Station SM12

Station SM12

Parameters (µg/L)	Operation Period																	
	Jul-12						Oct-12						Jan-13					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
TRC and Potential CBPs																		
Total residual Chlorine (TRC)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Chloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Dibromoacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)																		
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20						
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5						
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01						

Station SM12

Parameters (µg/L)	Operation Period					
	Apr-13					
TRC and Potential CBPs	A	B	C	D	E	F
Total residual Chlorine (TRC)	<10	<10	<10	<10	<10	<10
Bromoform	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Bromoacetic acid	<1	<1	<1	<1	<1	<1
Chloroacetic acid	<5	<5	<5	<5	<5	<5
Dibromoacetic acid	<1	<1	<1	<1	<1	<1
Dichloroacetic acid	<5	<5	<5	<5	<5	<5
Trichloroacetic acid	<1	<1	<1	<1	<1	<1
Contaminants of Concern (COC)						
Methylene chloride	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1
2-chlorophenol	<1	<1	<1	<1	<1	<1
2,4-dichlorophenol	<1	<1	<1	<1	<1	<1
p-chloro-m-cresol	<1	<1	<1	<1	<1	<1
Pentachlorophenol	<1	<1	<1	<1	<1	<1
2,4,6-trichlorophenol	<1	<1	<1	<1	<1	<1
Bis(2-chloroethoxy) methane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	<5	<5	<5	<5	<5	<5
Hexachloroethane	<1	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	<1	<1	<1	<1	<1	<1
Alpha-BHC	<1	<1	<1	<1	<1	<1
Beta-BHC	<1	<1	<1	<1	<1	<1
Gamma-BHC	<1	<1	<1	<1	<1	<1

Calculations of Statistical Tests for Total residual Chlorine (TRC), Bromoform and Chloroform

Station 1

Parameters (mg/L)	Baseline Monitoring		Operation Monitoring		Statistical Analysis	
	Average (µg/L)	Stdev	Average (µg/L)	Stdev	T0	T0.05.11
Potential CBPs						
Total residual Chlorine (TRC)	5.00	5.42	5.42	1.441	1.441	1.796
Bromoform	0.14	0.24	0.27	1.837	1.796	
Chloroform	0.24	0.18	0.25	Impact data equal or less than B/L	1.796	

Station 2

Parameters (mg/L)	Baseline Monitoring		Operation Monitoring		Statistical Analysis	
	Average (µg/L)	Stdev	Average (µg/L)	Stdev	T0	T0.05.11
Potential CBPs						
Total residual Chlorine (TRC)	5.00	5.83	3.13	1.277	1.796	
Bromoform	0.13	0.25	0.27	2.056	1.796	
Chloroform	0.33	0.18	0.25	Impact data equal or less than B/L	1.796	

Station 3

Parameters (mg/L)	Baseline Monitoring		Operation Monitoring		Statistical Analysis	
	Average (µg/L)	Stdev	Average (µg/L)	Stdev	T0	T0.05.11
Potential CBPs						
Total residual Chlorine (TRC)	5	5.83	3.13	1.277	1.796	
Bromoform	0.12	0.24	0.26	2.158	1.796	
Chloroform	0.34	0.18	0.25	Impact data equal or less than B/L	1.796	

Station 4

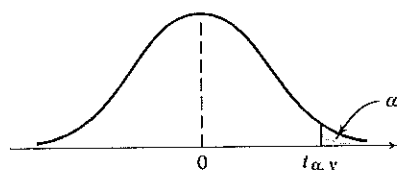
Parameters (mg/L)	Baseline Monitoring		Operation Monitoring		Statistical Analysis	
	Average (µg/L)	Stdev	Average (µg/L)	Stdev	T0	T0.05.11
Potential CBPs						
Total residual Chlorine (TRC)	5.00	5.83	3.13	1.277	1.796	
Bromoform	0.15	0.29	0.29	2.298	1.796	
Chloroform	0.24	0.18	0.25	Impact data equal or less than B/L	1.796	

Station SM6

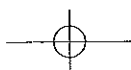
Parameters (mg/L)	Baseline Monitoring		Operation Monitoring		Statistical Analysis	
	Average (µg/L)	Stdev	Average (µg/L)	Stdev	T0	T0.05.11
Potential CBPs						
Total residual Chlorine (TRC)	5.00	5.42	1.39	1.441	1.796	
Bromoform	0.16	0.24	0.27	1.391	1.796	
Chloroform	0.36	0.18	0.25	Impact data equal or less than B/L	1.796	

Station SM12

Parameters (mg/L)	Baseline Monitoring		Operation Monitoring		Statistical Analysis	
	Average (µg/L)	Stdev	Average (µg/L)	Stdev	T0	T0.05.11
Potential CBPs						
Total residual Chlorine (TRC)	5.00	5.42	1.39	1.441	1.796	
Bromoform	0.12	0.21	0.26	1.640	1.796	
Chloroform	0.13	0.18	0.25	0.934	1.796	

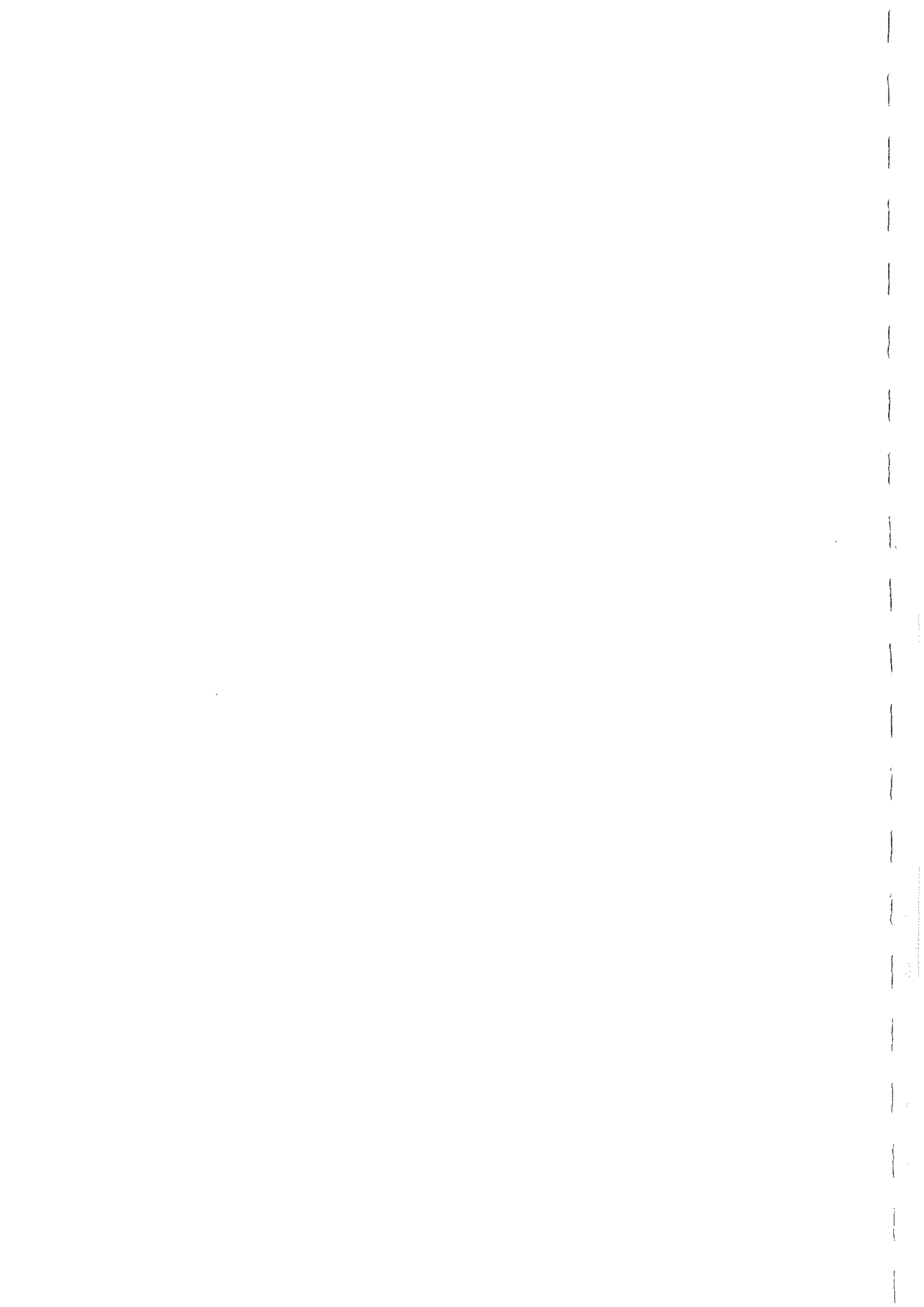
Table IV Percentage Points $t_{\alpha, \nu}$ of the t -Distribution

$\nu \backslash \alpha$	.40	.25	.10	.05	.025	.01	.005	.0025	.001	.0005
1	.325	1.000	3.078	6.314	12.706	31.821	63.657	127.32	318.31	636.62
2	.289	.816	1.886	2.920	4.303	6.965	9.925	14.089	23.326	31.598
3	.277	.765	1.638	2.353	3.182	4.541	5.841	7.453	10.213	12.924
4	.271	.741	1.533	2.132	2.776	3.747	4.604	5.598	7.173	8.610
5	.267	.727	1.476	2.015	2.571	3.365	4.032	4.773	5.893	6.869
6	.265	.718	1.440	1.943	2.447	3.143	3.707	4.317	5.208	5.959
7	.263	.711	1.415	1.895	2.365	2.998	3.499	4.029	4.785	5.408
8	.262	.706	1.397	1.860	2.306	2.896	3.355	3.833	4.501	5.041
9	.261	.703	1.383	1.833	2.262	2.821	3.250	3.690	4.297	4.781
10	.260	.700	1.372	1.812	2.228	2.764	3.169	3.581	4.144	4.587
11	.260	.697	1.363	1.796	2.201	2.718	3.106	3.497	4.025	4.437
12	.259	.695	1.356	1.782	2.179	2.681	3.055	3.428	3.930	4.318
13	.259	.694	1.350	1.771	2.160	2.650	3.012	3.372	3.852	4.221
14	.258	.692	1.345	1.761	2.145	2.624	2.977	3.326	3.787	4.140
15	.258	.691	1.341	1.753	2.131	2.602	2.947	3.286	3.733	4.073
16	.258	.690	1.337	1.746	2.120	2.583	2.921	3.252	3.686	4.015
17	.257	.689	1.333	1.740	2.110	2.567	2.898	3.222	3.646	3.965
18	.257	.688	1.330	1.734	2.101	2.552	2.878	3.197	3.610	3.922
19	.257	.688	1.328	1.729	2.093	2.539	2.861	3.174	3.579	3.883
20	.257	.687	1.325	1.725	2.086	2.528	2.845	3.153	3.552	3.850
21	.257	.686	1.323	1.721	2.080	2.518	2.831	3.135	3.527	3.819
22	.256	.686	1.321	1.717	2.074	2.508	2.819	3.119	3.505	3.792
23	.256	.685	1.319	1.714	2.069	2.500	2.807	3.104	3.485	3.767
24	.256	.685	1.318	1.711	2.064	2.492	2.797	3.091	3.467	3.745
25	.256	.684	1.316	1.708	2.060	2.485	2.787	3.078	3.450	3.725
26	.256	.684	1.315	1.706	2.056	2.479	2.779	3.067	3.435	3.707
27	.256	.684	1.314	1.703	2.052	2.473	2.771	3.057	3.421	3.690
28	.256	.683	1.313	1.701	2.048	2.467	2.763	3.047	3.408	3.674
29	.256	.683	1.311	1.699	2.045	2.462	2.756	3.038	3.396	3.659
30	.256	.683	1.310	1.697	2.042	2.457	2.750	3.030	3.385	3.646
40	.255	.681	1.303	1.684	2.021	2.423	2.704	2.971	3.307	3.551
60	.254	.679	1.296	1.671	2.000	2.390	2.660	2.915	3.232	3.460
120	.254	.677	1.289	1.658	1.980	2.358	2.617	2.860	3.160	3.373
∞	.253	.674	1.282	1.645	1.960	2.326	2.576	2.807	3.090	3.291

 ν = degrees of freedom.

APPENDIX D

Baseline and Operation Sediment Quality Monitoring Records



Appendix D - Baseline and First Year Operation Sediment Quality Monitoring Records

Station 1

Parameters (mg/kg or as stated)	Baseline Monitoring														Wet Season			
	Dry Season							Baseline Monitoring							Wet Season			
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H		
Bromofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20		
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Size Spectrum (>2000µm), %	1.4	0.8	1.6	0.9	1.2	1.9	1.4	0.7	18	16	17	16	19	18	19	16		
Size Spectrum (63-2000µm), %	23	15	18	19	22	26	23	18	29	32	30	29	26	27	29	28		
Size Spectrum (<63µm), %	76	84	80	80	77	72	76	81	54	52	53	55	55	55	52	56		
pH	8.6	8.5	8.2	8.4	8.3	8.2	8.3	8.2	8.7	8.9	8.5	8.8	8.6	8.4	8.7	8.6		
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total volatile solids, %	3	1	8	6	6	5	6	6	5.2	5.1	6.7	5.7	6	6.1	6.5	6.6		
Total organic carbon, %	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.48	0.48	0.52	0.54	0.5	0.56	0.56	0.52		

Station 1

First Year Operation Period

Station 2

Parameters (mg/kg or as stated)	Baseline Monitoring															
	Dry Season							Wet Season								
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	0.6	0.9	0.7	0.8	0.9	0.7	1.1	0.5	20	18	22	20	19	20	19	20
Size Spectrum (63-2000µm), %	13	11	9.6	8.6	11	8.6	12	13	44	46	48	46	46	41	44	43
Size Spectrum (<63µm), %	86	88	90	91	88	91	87	86	37	36	30	34	35	39	37	37
pH	8.3	8.3	8.3	8.2	8.4	8.5	8.3	8.4	8.6	8.7	8.5	8.6	8.9	8.7	7.8	8.6
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	4	3	9	5	14	8	8	9	4	4.6	6	6.5	4.7	5	7	5.3
Total organic carbon, %	0.3	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.41	0.28	0.41	0.44	0.29	0.37	0.31

Station 2

Parameters (mg/kg or as stated)	First Year Operation Period															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	1	2	<0.1
Size Spectrum (63-2000µm), %	14	15	14	15	14	15	15	15	13	13	13	13	13	13	12	14
Size Spectrum (<63µm), %	85	84	85	84	85	85	85	85	87	87	87	87	87	86	86	86
pH	8.9	8.9	8.8	9.3	8.8	8.4	8.2	8.8	8.6	8.4	8.4	8.9	8.4	8.7	8.4	8.6
Acid Volatile sulphides	960	850	880	880	870	900	910	900	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	4.2	4.1	4.1	4.1	3.9	4.2	4.2	4	8	7	8	7	8	7	7	7
Total organic carbon, %	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4

Station 3

Parameters (mg/kg or as stated)	Baseline Monitoring															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	0.3	0.6	0.4	0.6	0.8	0.6	0.4	0.8	33	30	35	30	31	30	30	30
Size Spectrum (63-2000µm), %	8.6	9.3	8.6	7.4	7.9	8.3	7.4	8.3	23	26	22	26	21	22	23	22
Size Spectrum (<63µm), %	91	90	91	92	91	91	92	91	45	44	43	44	48	48	47	48
pH	8.3	8.4	8.2	8.4	8.7	8.7	8.5	8.5	8.5	8.7	8.8	8.5	8.8	8.7	8.8	8.4
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	15	7	7	7	4	3	9	7	4.6	6.6	7.3	5	6.7	6.7	6.4	7
Total organic carbon, %	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.33	0.42	0.29	0.36	0.33	0.32	0.33	0.39

Appendix D - Baseline and First Year Operation Sediment Quality Monitoring Records

[illegible]

Station 4

Parameters (mg/kg or as stated)	Baseline Monitoring															
	Dry Season						Wet Season									
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	1.9	2.3	2.2	1.6	0.8	1.6	0.8	1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Size Spectrum (63-2000µm), %	12	13	11	10	8.7	9.6	10	9.8	3.5	4.9	6.3	5.1	3.2	4.9	4.4	5.6
Size Spectrum (<63µm), %	86	85	87	88	90	89	89	89	96	95	94	95	97	95	96	94
pH	8.8	8.7	8.2	8.4	7.9	8.3	8.5	8.4	8.7	8.7	8.9	9	8.7	8.8	9.1	9.3
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	7	6	7	7	8	7	6	7	6.6	6.1	6.7	6.5	6.3	6.5	7.2	6
Total organic carbon, %	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.26	0.28	0.28	0.42	0.41	0.32	0.31	0.33

Appendix D - Baseline and First Year Operation Sediment Quality Monitoring Records

Parameters (mg/kg or as stated)		First Year Operation Period															
		Dry Season								Wet Season							
		A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	3.2	3	3.1	2.9	3.1	2.9	2.9	3.1	2.9	3.1	2.9	3.1	2.9	3.1	2.9	3.1	2.9
Size Spectrum (>3-2000µm), %	13	13	13	13	13	14	13	13	13	13	14	13	13	13	14	13	13
Size Spectrum (<63µm), %	84	84	84	84	85	83	84	84	85	84	83	84	85	84	83	84	85
pH	9	9	9.2	9.3	9.2	8.8	8.9	9	8.3	8.7	8.7	8.8	8.8	8.8	8.8	8.4	8.5
Acid Volatile sulphides	200	220	220	200	210	220	210	210	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	4.1	3.7	4.1	3.9	3.9	3.7	3.7	4	6	7	7	5	5	5	7	5	6
Total organic carbon, %	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Station WS1

Parameters (mg/kg or as stated)	Baseline Monitoring															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	4.5	3.2	4.6	3	2.6	2.7	2.9	3.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Size Spectrum (63-2000µm), %	8.6	10	9.3	12	10	11	9.6	15	16	13	16	14	16	17	15	13
Size Spectrum (<63µm), %	87	87	86	85	87	86	88	81	84	87	83	86	84	84	85	87
pH	8.4	8.4	8.6	8.5	8.5	8.6	8.6	8.4	9.4	8.6	8.6	8.6	8.6	8.6	8.4	8.7
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	7	7	7	7	7	7	7	7	6.3	6.1	6.3	6.2	6.2	6.1	6.2	6.4
Total organic carbon, %	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.42	0.3	0.29	0.3	0.41	0.33	0.31	0.3

Appendix D - Baseline and First Year Operation Sediment Quality Monitoring Records

Station WS1

Parameters (mg/kg or as stated)	First Year Operation Period															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	0.9	0.9	0.9	1	1	1	0.9	1	<0.1	1	<0.1	<0.1	3	<0.1	3	<0.1
Size Spectrum (63-2000µm), %	12	12	12	12	12	12	13	12	31	32	32	31	31	32	30	30
Size Spectrum (<63µm), %	87	87	87	87	87	87	86	87	69	67	68	69	66	68	67	70
pH	8.4	9	9	9	9.1	9.1	8.9	8.9	8.7	8.8	8.8	8.9	8.4	8.4	8.6	8.6
Acid Volatile sulphides	820	800	780	820	810	820	810	810	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	4.8	5.2	5.1	5.3	4.6	5.2	5.1	5	5	5	6	5	5	6	5	5
Total organic carbon, %	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4

Appendix D - Baseline and First Year Operation Sediment Quality Monitoring Records

Station VS6

Parameters (mg/kg or as stated)	Baseline Monitoring															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	4.1	8.6	5.5	4.8	6.3	9.6	7.3	9.1	0.9	0.3	0.9	1.2	0.6	0.5	1.3	0.8
Size Spectrum (63-2000µm), %	33	35	25	48	28	33	25	49	23	21	20	23	24	24	20	19
Size Spectrum (<63µm), %	63	57	70	48	66	58	68	42	76	79	79	76	75	76	79	80
pH	8.6	8.5	8.6	8.5	8.2	8.6	8.6	8.3	8.8	8.7	8.7	8.9	8.9	8.8	8.9	8.9
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	7	6	7	5	9	7	5	7	7.4	7.4	7.7	6.7	6.8	8.1	7.6	6.5
Total organic carbon, %	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.28	0.39	0.33	0.31	0.32	0.38	0.29	0.37

Station VS6

Parameters (mg/kg or as stated)	First Year Operation Period															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	8.2	8.1	8.5	8.1	8.6	7.7	8	8.1	7	9	10	7	7	7	7	5
Size Spectrum (63-2000µm), %	13	13	13	13	12	13	14	13	36	36	36	36	35	37	36	37
Size Spectrum (<63µm), %	79	79	79	79	79	79	78	79	57	55	54	57	58	56	57	58
pH	8.7	9.3	9.5	8.2	8.9	9.3	8.5	8.9	8.3	8.4	8.3	8.1	8.1	8.4	8.7	8.7
Acid Volatile sulphides	270	260	250	250	260	240	250	260	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	5.8	5.7	6.1	6	5.7	5.9	6.2	5	5	6	7	7	7	5	6	6
Total organic carbon, %	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4

Station SS3

Parameters (mg/kg or as stated)	Baseline Monitoring															
	Dry Season							Wet Season								
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	4.1	2.6	3.4	4.8	2.3	1.6	4.3	2.2	3	2.7	3.5	2.6	2	3.5	2.6	3.3
Size Spectrum (63-2000µm), %	32	36	33	20	32	38	23	24	29	28	25	29	26	26	27	23
Size Spectrum (<63µm), %	64	62	63	76	68	62	72	74	68	69	72	68	72	70	70	74
pH	8.8	9	9	8.8	8.7	8.8	8.5	8.6	9.1	8.8	9.1	9.1	9.2	9.2	9.3	9.1
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	5	5	6	6	6	6	6	6	5.9	6.4	5.7	5.5	5.9	5.1	5.7	6.6
Total organic carbon, %	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.38	0.28	0.3	0.29	0.42	0.33	0.41	0.28

First Year Operation Period

Appendix D - Baseline and First Year Operation Sediment Quality Monitoring Records

Station SS4

Parameters (mg/kg or as stated)	Baseline Monitoring															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromoform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromodichloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	1.6	0.8	0.9	1.2	2	3.4	1.5	0.6	0.2	0.9	1.1	0.6	0.5	0.6	0.2	0.3
Size Spectrum (63-2000µm), %	25	14	17	20	24	27	13	10	8	6.9	7.3	9.8	8.6	7.5	6.9	8.3
Size Spectrum (<63µm), %	74	86	82	78	73	69	85	89	92	92	92	90	91	92	93	91
pH	8.7	8.5	8.6	8.2	8.6	8.6	8.8	8.4	9	9	9.1	9.5	8.9	8.9	8.4	8.6
Acid Volatile sulphides	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	5	6	6	8	6	7	7	6	6.7	6.4	6.4	5.7	5.8	7.1	6.6	5.5
Total organic carbon, %	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.28	0.3	0.41	0.29	0.31	0.4	0.33	0.29

Station SS4

Parameters (mg/kg or as stated)	First Year Operation Period															
	Dry Season								Wet Season							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
Bromofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorofom	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methylene chloride	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-chlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
p-chloro-m-cresol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy) methane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorocyclopentadiene	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Hexachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Beta-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Size Spectrum (>2000µm), %	0.9	1	1	1	0.9	1	0.9	1	<0.1	<0.1	<0.1	<0.1	<0.1	2	4	1
Size Spectrum (63-2000µm), %	14	13	13	12	13	12	13	13	17	17	17	17	17	17	18	17
Size Spectrum (<63µm), %	85	86	86	87	86	87	86	86	83	83	83	83	83	81	78	82
pH	9.5	9	9.5	9.1	9.4	8.9	8.9	9.1	8.5	8.2	8.3	8.1	8.6	8.1	8.2	8.5
Acid Volatile sulphides	880	920	860	910	830	890	840	870	<1	<1	<1	<1	<1	<1	<1	<1
Total volatile solids, %	3.9	4.2	4	4.1	3.9	3.7	4.2	4	5	5	4	5	4	5	5	5
Total organic carbon, %	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.5	0.4

APPENDIX E

Baseline and Operation Benthic Survey Monitoring Records

Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A	B	C	D	E	F	G	H					
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.					
Oct-08	1	Annelida	<i>Eunice indica</i>													
			<i>Glycera onomichiensis</i>	1	0.478	2	0.3762	1	0.186	3	0.0222	1	0.2261	3	0.1612	2
		Arthropoda	<i>Mediomastus californiensis</i>													
			<i>Alpheus</i> sp.													
			<i>Trypauchen vagina</i>													
		Chordata	<i>Caecella chinensis</i>													
			<i>Nassarius dorsatus</i>													
		Mollusca	<i>Nassarius festivus</i>													
			<i>Ruditapes philippinarum</i>	2	8.9542	8	16.463	2	6.935	9	19.644	30	90.756	29	110.52	2
			2	Mollusca	<i>Asaphis dichotoma</i>											
<i>Ruditapes philippinarum</i>	5				1.165											
Annelida	<i>Eunice indica</i>															
	<i>Glycera onomichiensis</i>															
Mollusca	<i>Mediomastus californiensis</i>															
	<i>Nassarius dorsatus</i>															
	<i>Ruditapes philippinarum</i>															
Arthropoda	<i>Alpheus</i> sp.															
	<i>Eucratea arenata</i>															
Chordata	<i>Bregmaceros nectabanus</i>															
	<i>Trypauchen taenia</i>															
	3	Mollusca	<i>Grafrarium</i> sp.													
			<i>Grafrarium</i> sp.	1	0.0415											
		Annelida	<i>Eunice indica</i>													
			<i>Glycera onomichiensis</i>													
		Mollusca	<i>Mediomastus californiensis</i>													
			<i>Nassarius dorsatus</i>													
			<i>Ruditapes philippinarum</i>													
		Arthropoda	<i>Alpheus</i> sp.													
			<i>Eucratea arenata</i>													
		Chordata	<i>Bregmaceros nectabanus</i>													
<i>Trypauchen taenia</i>																
	4	Annelida	<i>Eunice indica</i>													
			<i>Glycera onomichiensis</i>	1	0.0245	7	0.0327	1	0.1463	10	24.197					
		Mollusca	<i>Mediomastus californiensis</i>	2	0.0255	3	0.1299	1	0.1463							
			<i>Nassarius dorsatus</i>													
			<i>Ruditapes philippinarum</i>													
		Arthropoda	<i>Alpheus</i> sp.													
			<i>Eucratea arenata</i>													
		Chordata	<i>Bregmaceros nectabanus</i>													
			<i>Trypauchen taenia</i>													
			Mollusca	<i>Grafrarium</i> sp.												
<i>Grafrarium</i> sp.	1			0.0415												

Appendix E Baseline and Operation Benthic Survey Monitoring Record

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Appendix E Baseline and Operation Benthic Survey Monitoring Record

<u>Sampling time</u>	<u>Sampling station</u>	<u>Phylum</u>	<u>Scientific Name</u>	A <u>Ind.</u>	A <u>Wt.</u>	B <u>Ind.</u>	B <u>Wt.</u>	C <u>Ind.</u>	C <u>Wt.</u>	D <u>Ind.</u>	D <u>Wt.</u>	E <u>Ind.</u>	E <u>Wt.</u>	F <u>Ind.</u>	F <u>Wt.</u>	G <u>Ind.</u>	G <u>Wt.</u>	H <u>Ind.</u>	H <u>Wt.</u>
	SS4	Annelida	<i>Eunice indica</i>			2	0.0546	4	0.1425			1	0.018						
			<i>Glycera onomichiensis</i>	7	0.4787	1	0.2248	1	0.1063			1	0.0154	3	0.1914	4	0.2087	2	0.0985
			<i>Loimia medusa</i>													1	0.344		
			<i>Mediomastus californiensis</i>					1	0.0117									3	0.03
		Arthropoda	<i>Alpheus sp.</i>	1	0.2164														
			<i>Anomalifrons lightiana</i>					1	0.3415					1	0.1866			1	0.3351
			<i>Euclate crenata</i>					1	0.094	1	0.0561	2	0.0845						
			<i>Oratoquilla oratoria</i>									1	1.1697						
			<i>Typhlocarcinus villosa</i>															1	0.1329
		Cnidaria	<i>Ceriantharia spp.</i>	1	4.6766														
		Mollusca	<i>Donax spp.</i>									1	0.2263						
			<i>Nassarius dorsatus</i>															1	0.0419
			<i>Paphia undulata</i>									1	0.7794					2	9.2393
			<i>Solen sp.</i>	3	0.3154			4	0.6434	2	0.3734							2	0.3232
			<i>Soletebella diphos</i>																
		Nemertinea	<i>Cerebratulina sp.</i>			1	0.0561	1	0.0421					1	0.0806				

Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A Ind.	A Wt.	B Ind.	B Wt.	C Ind.	C Wt.	D Ind.	D Wt.	E Ind.	E Wt.	F Ind.	F Wt.	G Ind.	G Wt.	H Ind.	H Wt.
Jul-09	1	Annelida	<i>Aglaophamus inermis</i>	1	0.0032	1	0.008												
			<i>Chaetozone spp</i>											2	0.0059			1	0.0389
			<i>Eteone spp</i>																
			<i>Glycera onomichiensis</i>	5	0.2572	1	0.058							1	0.27				
			<i>Magelona spp</i>											1	0.0155				
			<i>Minuspio cirrifera</i>	1	0.0037									1	0.003				
			<i>Nereis spp.</i>	1	0.0021			1	0.0204										
			<i>Ophelina grandis</i>			1	0.0048											1	0.0149
			<i>Owenia fusiformes</i>									2	0.0147						
			<i>Perinereis spp</i>	1	0.0007			1	0.023									1	0.0011
		Arthropoda	<i>Phyllochactopterus spp</i>	4	0.0213														
			<i>Phyllodoce fristedi</i>	2	0.0097														
			<i>Polynoe spp</i>	1	0.0048														
			<i>Sternaspis scutata</i>			1	0.0136												
			<i>Therochaeta spp</i>	1	0.0036			1	0.0015										
		Chordata	<i>Alpheus spp.</i>	2	0.1892	1	0.1796	1	0.5391	1	0.0859							1	0.3635
			<i>Macrophthalmus spp</i>	3	0.5944									1	0.2111				
			<i>Scylla spp.</i>	2	0.0594	2	0.903	1	0.0644					1	0.0528			2	0.0901
			<i>Glossogobius giuris</i>													1	0.4577		
		Nemertea	<i>Lineus vegetus</i>	1	0.0023											3	0.206		
	2	Annelida	<i>Aglaophamus inermis</i>	1	0.0087														
			<i>Chaetozone spp</i>					2	0.023										
			<i>Cossurella spp</i>	1	0.0025			1	0.0019										
			<i>Glycera onomichiensis</i>			1	0.1801	1	0.0125					1	0.3429				
			<i>Goniada spp</i>					2	0.0136										
			<i>Loimia medusa</i>					1	0.1434										
			<i>Mediomastus californiensis</i>					1	0.0093										
			<i>Minuspio cirrifera</i>					1	0.004										
			<i>Naineris laevigata</i>					1	0.0113									1	0.0336
			<i>Nereis spp.</i>	1	0.0346														
		Arthropoda	<i>Paradoneis spp</i>	1	0.004														
			<i>Phyllochactopterus spp</i>					1	0.0004	2	0.0086							3	0.1448
			<i>Phyllodoce fristedi</i>																
			<i>Polynoe spp</i>					2	0.0018										
			<i>Sternaspis scutata</i>					1	0.001										
		Chordata	<i>Therochaeta spp</i>	1	0.0138			1	0.0101										
			<i>Alpheus spp.</i>	4	0.3058														
			<i>Macrophthalmus spp</i>					1	0.1418									1	0.1033
			<i>Raphidopus ciliatus</i>	1	0.0145														
		Mollusca	<i>Glossogobius giuris</i>			1	0.2612												
			<i>Ruditapes philippinarum</i>	6	24.081									1	5.8435			1	1.7991

Appendix E Baseline and Operation Benthic Survey Monitoring Record

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Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A Ind.	Wt.	B Ind.	Wt.	C Ind.	Wt.	D Ind.	Wt.	E Ind.	Wt.	F Ind.	Wt.	G Ind.	Wt.	H Ind.	Wt.
		Arthropoda	<i>Raphidopus ciliatus</i>	1	0.6442									1	0.0547			1	0.2806
			<i>Scylla</i> spp.																
		Chordata	<i>Thalassidroma</i>											1	1.2339				
			<i>Glossogobius giuris</i>													1	0.0681		
		Nemertea	<i>Trypauchen vagina</i>			1	0.0052												
			<i>Cerebratulina</i> spp					1	0.0011										
			<i>Lineus vegetus</i>													3	0.0465		
SS3		Annelida	<i>Aglaophamus inermis</i>	2	0.0069									1	0.133	2	0.032	1	0.0189
			<i>Amphisamytha</i> spp	1	0.0058											1	0.0076		
			<i>Chaetozone</i> spp	7	0.2613									1	0.0233				
			<i>Cossurella</i> spp	1	0.0088					2	0.0178	6	0.0007						
			<i>Diopatra</i> spp	1	0.0135	1	0.0028									3	0.043		
			<i>Dorvillea</i> spp											1	0.001				
			<i>Eleone</i> spp	1	0.0551									2	0.0711	1	0.0244	1	0.0801
			<i>Glycera onomichiensis</i>					2	0.0054			1	0.3083						
			<i>Goniada</i> spp															1	0.0088
			<i>Lagis</i> spp											2	0.0248				
			<i>Leanea japonica</i>													1	0.0061		
			<i>Lolima medusa</i>																
			<i>Lumbrineris</i> spp			3	0.01			1	0.0018			2	0.0128			1	0.0047
			<i>Mediomastus californiensis</i>	1	0.0052							1				1	0.0008	1	0.0015
			<i>Minuspio cirrifer</i>			5	0.0183	5	0.026					4	0.0285	2	0.0182		0.0067
			<i>Ophelia grandis</i>	2	0.0091			13	0.208			1	0.0482						
			<i>Paradoneis</i> spp					3	0.0134			3	0.0163	3	0.0182	2	0.0128		
			<i>Perinereis</i> spp							5	0.0248			2	0.0191				
			<i>Phyllochaetopterus</i> spp									1		1	0.0788			1	0.0024
			<i>Pilargidae</i> spp									1	0.0008		0.01				
			<i>Poecilochaetus</i> spp					1	0.0003					2	0.0014				
			<i>Polynoe</i> spp											1	0.0015	1	0.0001	1	0.0051
			<i>Praxillela</i> spp	5	0.0377	2	0.0027	2	0.0444					13	0.1361			8	0.0249
			<i>Sternaspis scutata</i>	2	0.0798	3	0.0515	2	0.0116			1	0.2778			1	0.0065	4	0.0369
			<i>Therochaeta</i> spp	3	0.0258	3	0.023	1	0.0063			4	0.0264	1	0.0067			3	0.0224
		Arthropoda	<i>Anomalifrons lightana</i>	1	0.0199													1	0.0078
			<i>Macrophthalmus</i> spp	1	0.0333														
			<i>Ocyrops</i> spp.					1	0.7112										
			<i>Scylla</i> spp.															1	0.0574
		Chordata	<i>Thalassidroma</i>	1	1.3856			1	0.0634										
		Nemertea	<i>Trypauchen vagina</i>	1	0.0018	1	0.0148	1	0.0094			1	0.0034					1	0.0056
			<i>Cerebratulina</i> spp	1	0.015									1	0.0125			1	0.0046
			<i>Lineus vegetus</i>																
		Sipuncula	<i>Sipunculus nudus</i>							1	0.0047	1	0.0039						

Appendix E Baseline and Operation Benthic Survey Monitoring Record

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Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A		B		C		D		E		F		G		H	
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.
Feb-10	1	Annelida	<i>Aglaophamus inermis</i>	2	0.031					2	0.0066								
			<i>Amphisamytha</i>									1	0.0125			1	0.0088	12	0.0032
			<i>Chaetozone spp.</i>	1	0.0296													2	0.037
			<i>Cossurella spp.</i>															1	0.0131
			<i>Diopatra spp.</i>			1	0.0039	1	0.0032					1	0.0887			1	0.005
			<i>Eteone spp.</i>															1	0.0219
			<i>Eunice indica</i>															1	0.0219
			<i>Glycera onomichiensis</i>					1	0.0047									2	0.0347
			<i>Goniada spp.</i>									1	0.0117						
			<i>Hydroides elegans</i>							1	0.001					1	0.0012		
			<i>Leanira japonica</i>	1	0.087														
			<i>Loimia medusa</i>					1	0.004										
			<i>Lumbrineris spp.</i>	3	0.08	2	0.0012											2	0.01
			<i>Mediomastus californiensis</i>									2	0.0066			1	0.004		
			<i>Naineris laevigata</i>	2	0.0325	4	0.0048	1	0.0001	1	0.0025	1	0.0041	1	0.0096	5	0.0298	3	0.0192
			<i>Nereis spp.</i>													1	0.0006		
			<i>Paradoneis spp.</i>			4	0.017	5	0.0269	1	0.003	1	0.0097						
			<i>Perinereis spp.</i>					1	0.0243										
			<i>Phyllodoce fristedti</i>																
			<i>Polynoe spp.</i>															3	0.0086
			<i>Praxillela spp.</i>															1	0.008
			<i>Tmethypocoelis ceratophora</i>	1	6.9825			7	0.0105			5	0.0189	1	0.001			14	0.195
			<i>Tapes virgineus</i>																
														1	5.417				
												1	0.0155	2	0.0186				
			<i>Aglaophamus inermis</i>			1	0.0003	1	0.0023										
			<i>Chaetozone spp.</i>	1	0.0025	1	0.0008	1	0.0014										
			<i>Cossurella spp.</i>							5	0.0258					1	0.011		
			<i>Diopatra spp.</i>	1	0.0194									3	0.011				
			<i>Dorvillea spp.</i>							10	0.0324			3	0.0051				
			<i>Eteone spp.</i>											8	0.0239				
			<i>Eunice indica</i>							2	0.009					2	0.0153		
			<i>Glycera onomichiensis</i>							2	0.478								
			<i>Glycera rouxii</i>											1	0.0022	2	0.1023		
			<i>Goniada spp.</i>											1	0.004				
			<i>Leanira japonica</i>											1	0.0061				

Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A		B		C		D		E		F		G		H	
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.
			<i>Mediomastus californiensis</i>	2	0.0033	5	0.0214	1	0.0047					7	0.011	3	0.0482		
			<i>Naineris laevigata</i>			3	0.0174												
			<i>Nephtys ciliata</i>																
			<i>Nereis</i> spp.			1	0.0009	1	0.001										
			<i>Opelina grandis</i>																
			<i>Paradoneis</i> spp.			1	0.0012			1	0.0018			12	0.0026	2	0.0102		
			<i>Perinereis</i> spp.					1	0.0573	2	0.0039								
			<i>Pilargidae</i> spp.			1	0.0022							1	0.0037				
			<i>Praxillela</i> spp.			7	0.02	1	0.0004	2	0.0077	2	0.0016			3	0.0024		
			<i>Scoloplos armiger</i>							4	0.0279			4	0.0161				
		Arthropoda	<i>Ocypode</i> spp.											3	0.9628				

Appendix E Baseline and Operation Benthic Survey Monitoring Record

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Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A		B		C		D		E		F		G		H	
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.
VS6	Annelida		<i>Aglaophamus inermis</i>									1	0.0065			3	0.0272		
			<i>Chaetozone</i> spp.											1	0.004				
			<i>Diopatra</i> spp.	1	0.0393							1	0.0039						
			<i>Dorvillea</i> spp.							2	0.0235							1	0.0089
			<i>Eteone</i> spp.			1	0.0452			2	0.049	1	0.0371	3	0.1053	5	0.1138	1	0.0057
			<i>Eunice indica</i>	1	0.0712			1	0.1895			1	0.0967					1	0.0324
			<i>Glycera onomichiensis</i>			1	0.0157			1	0.0109								
			<i>Glycera rouxii</i>											1	0.0105				
			<i>Hydroides elegans</i>			2	0.0078												
			<i>Mediomastus californiensis</i>			2	0.0596					2	0.019					2	0.0189
			<i>Naineris laevigata</i>			1	0.043			1	0.0137	7	0.1577						
			<i>Nephtys ciliata</i>															1	0.0084
			<i>Paradoneis</i> spp.	4	0.0669	3	0.0298	19	0.2929			5	0.1328			10	0.0762	5	0.0761
			<i>Perinereis</i> spp.			1	0.0369												
			<i>Pilargidae</i> spp.																
			<i>Polynoe</i> spp.																
			<i>Praxillela</i> spp.			2	0.075	1	0.0038					2	0.0113	1	0.005	6	0.0338
	Arthropoda		<i>Scoloplos armiger</i>	1	0.015									1	0.1419				
			<i>Ocyrops</i> spp.			3	1.9104							1	0.5745				
	Arthropoda		<i>Tmethypocoelis ceratophora</i>			1	1.4497												
			<i>Neosarmatium punctatum</i>					1	7.7043										
SS3	Annelida		<i>Aglaophamus inermis</i>	6	0.0516	11	0.0819					5	0.2015	2	0.0043	1	0.0211	2	0.0068
			<i>Chaetozone</i> spp.							1	0.0043					2	0.1754		
			<i>Chloela flava</i>													2	0.0147		
			<i>Cossurella</i> spp.			2	0.0328											1	0.0175
			<i>Diopatra</i> spp.			8	0.0282	5	0.1542			9	0.0558	11	0.0588	6	0.0336	1	0.0045
			<i>Eteone</i> spp.					1	0.0044			2	0.0105	2	0.0101				
			<i>Eunice indica</i>											1	0.07				
			<i>Goniada</i> spp.	1	0.0073			1	0.0895			2	0.0169			1	0.0241		
			<i>Hydroides elegans</i>	3	0.0364							1	0.004			1	0.0227		
			<i>Leanira japonica</i>			4	0.0327												
			<i>Loimia medusa</i>			1	0.0078												
			<i>Lumberineris</i> spp.			1	0.009												
			<i>Mediomastus californiensis</i>	1	0.0885	1	0.0098	2	0.164					6	0.0832	1	0.0508		
			<i>Naineris laevigata</i>									1	0.048	6	0.0143	1	0.0017		
			<i>Nephtys ciliata</i>			1	0.0009	1	0.0174			4	0.1065			1	0.0031		
			<i>Nereis</i> spp.			1	0.0093											1	0.0289
			<i>Ophelina grandis</i>																
			<i>Paradoneis</i> spp.	6	0.0232	8	0.0582	3	0.0168			4	0.0387	1	0.045			6	0.0198
			<i>Perinereis</i> spp.					1	0.005										
			<i>Polynoe</i> spp.			2	0.0129									3	0.0111		

Appendix E Baseline and Operation Benthic Survey Monitoring Record

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Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A Ind.	A Wt.	B Ind.	B Wt.	C Ind.	C Wt.	D Ind.	D Wt.	E Ind.	E Wt.	F Ind.	F Wt.	G Ind.	G Wt.	H Ind.	H Wt.	
WS1	4	Annelida	<i>Aglaophamus inermis</i>	2	0.0281					1	0.0192									
			<i>Goniada spp.</i>							2	0.0478	1	0.023							
			<i>Leanira japonica</i>							1	0.1186									
			<i>Lumbrineris spp.</i>	1	0.0644															
			<i>Mediomastus californiensis</i>									1	0.006						1	0.0025
			<i>Nephtys ciliata</i>									1	0.0267							
		Arthropoda	<i>Paradoneis spp.</i>									1	0.0067							
			<i>Perinereis spp.</i>	2	0.0862							1	0.0045							
			<i>Scoloplos armiger</i>									1	0.0198							
			<i>Alpheus brevicristatus</i>											1	0.3189					
			<i>Carcinoplax longimana</i>											1	0.3086					
			<i>Carcinoplax purpurea</i>									1	0.761							
		Echinodermata	<i>Ophiactis savignyi</i>	2	0.0924															
			<i>Mediomastus californiensis</i>	2	0.0666	1	0.0037					5	0.0066			1	0.0035	5	0.0287	1
VS6		Arthropoda	<i>Nephtys ciliata</i>																	
			<i>Praxillella spp.</i>																	
			<i>Ocyropsis spp.</i>									1	0.134							
			<i>Ophiactis savignyi</i>	1	0.0122															
			<i>Aglaophamus inermis</i>	1	0.0367															
			<i>Chaetozona spp.</i>					1	0.355										1	0.486
		Echinodermata	<i>Diopatra spp.</i>					1	0.0389											
			<i>Eunice indica</i>																	
			<i>Goniada spp.</i>			2	0.0406													
			<i>Mediomastus californiensis</i>											2	0.0167					
			<i>Minusplo cirrifera</i>	1	0.0003															
			<i>Nereis spp.</i>									1	0.0266							
		Arthropoda	<i>Perinereis spp.</i>																	
			<i>Praxillella spp.</i>																	
Gastropoda	<i>Carcinoplax purpurea</i>																			
	<i>Ocyropsis spp.</i>																			
Mollusca	<i>Bullia mauritiana</i>			1	3.6374															
	<i>Lioconcha castrensis</i>																			
SS3		Annelida	<i>Meretrix sp.</i>									1	10.278							
			<i>Aglaophamus inermis</i>					1	0.2511			1	0.0712							
		<i>Eunice indica</i>									1	0.0092								
		Gastropoda	<i>Glycera onomichiensis</i>											1	0.0846	2	0.0194			
			<i>Goniada spp.</i>			1	0.1935													
		Mollusca	<i>Lumbrineris spp.</i>																	
			<i>Mediomastus californiensis</i>																	
		Mollusca	<i>Perinereis spp.</i>											1	0.0113					
			<i>Praxillella spp.</i>																	
		Mollusca	<i>Perinereis spp.</i>																	
			<i>Praxillella spp.</i>																	
		Mollusca	<i>Perinereis spp.</i>																	
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	<i>Praxillella spp.</i>																			
Mollusca	<i>Perinereis spp.</i>																			

Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A		B		C		D		E		F		G		H		
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	
Jan-11	SS4	Arthropoda	<i>Carcinoplax purpurea</i>																	
			<i>Ocyrode</i> spp.									1	0.3268					1	0.2488	
	Echinodermata	<i>Ophiactis savignyi</i>									6	0.2124								
	Annelida	<i>Aglaophantus inermis</i>																		
		<i>Goniada</i> spp.														1	0.0887			
		<i>Lumbrineris</i> spp.																		
		<i>Mediomastus californiensis</i>	1	0.0783														1	0.0603	
	Arthropoda	<i>Praxillella</i> spp.																		
		<i>Ocyrode</i> spp.	1	1.248																
		<i>Squilloides laptoequilla</i>																		
	Echinodermata	<i>Ophiactis savignyi</i>	4	0.3536																
		<i>Macra veneriformis</i>	1	0.437																
		Mollusca	<i>Aglaophantus inermis</i>																	
			<i>Chaetozone</i> spp	1	0.006							1	0.0635							
			<i>Eteone</i> spp	1	0.0025							4	0.4338			3	0.1065			
			<i>Glycera oronichiensis</i>	2	0.1059							2	0.0264			1	0.0199			
			<i>Glycera rouxii</i>	2	0.0114															
			<i>Goniada</i> spp	1	0.0007															
			<i>Hydroides elegans</i>									1	0.0123							
			<i>Leocrates chinensis</i>																	
<i>Naineris laevigata</i>			1	0.0037																
<i>Nereis</i> spp.											4	0.0279								
<i>Nereis succinea</i>			2	0.061																
<i>Notomastus latericeus</i>																				
<i>Paradoneis</i> spp			8	0.0236							3	0.0161			3	0.0227			1	0.0017
<i>Praxillella</i> spp			2	0.012											2	0.0158				
<i>Scoloplos armiger</i>			1	0.0017							2	0.0109			5	0.017				
<i>Tylosrhynchus heterochaetus</i>											7	0.005								
<i>Paphia undulata</i>											1	0.0157			3	0.1149			1	0.0056

Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A	B	C	D	E	F	G	H				
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.				
2	Annelida		<i>Acoetes melanonota</i>			2	0.051								
			<i>Amphictene japonica</i>							1	0.0186				
			<i>Cossurella</i> spp	1	0.0695		1	0.0571		1	0.0339				
			<i>Diopatra chilensis</i>	2	0.0026										
			<i>Eteone</i> spp	1	0.0049		1	0.0166		1	0.0204				
			<i>Glycera onomichiensis</i>							1	0.0742				
			<i>Leocrates chinensis</i>							1	0.0089				
			<i>Naineris laevigata</i>							1	0.0045				
			<i>Notomastus latericeus</i>	1	0.0014										
			<i>Praxillela</i> spp	1	0.003	2	0.0471				3	0.0413			
			<i>Scoloplos armiger</i>	1	0.1106										
			<i>Tylorhynchus heterochaetus</i>						1	0.0401	1	0.2926			
			Arthropoda	<i>Tmethypocoelis ceratophora</i>					2	1.7065	2	0.0562			
		Arthropoda	<i>Penaeus monodon</i>					1	0.0584	1	0.0337				
		Mollusca	<i>Paphia undulata</i>	1	0.243						1	0.0121			
			Mollusca	<i>Ruditapes philippinarum</i>				1	0.2812						
				<i>Cyclina sinensis</i>	2	0.2182									
				<i>Leonates persica</i>			1	0.0396		1	0.0497		2	0.0066	
		3	Annelida		<i>Aglaophamus inermis</i>										
					<i>Amphictene japonica</i>	1	0.0383								
					<i>Chaetozone</i> spp			2	0.0187						
					<i>Diopatra</i> spp						1	0.2067			
					<i>Eteone</i> spp	6	0.3184	7	0.0808	2	0.0207	2	0.0044	1	0.0039
					<i>Glycera onomichiensis</i>	3	0.0113	3	0.0425					1	0.1627
					<i>Goniada</i> spp	1	0.0103				1	0.0171			
					<i>Hydroides elegans</i>			1	0.8856						
					<i>Leanira japonica</i>			2	0.0349						
					<i>Nereis</i> spp.	5	0.0281								
					<i>Paradoneis</i> spp	5	0.0428	1	0.2994	2	0.006	2	0.0163	3	0.0124
					<i>Praxillela</i> spp	2	0.015	1	0.018	3	0.0177	1	0.0083		
					<i>Scoloplos armiger</i>					2	0.0099				
				Arthropoda	<i>Tylorhynchus heterochaetus</i>			1	0.023	1	0.133	1	0.002		
					Arthropoda	<i>Mictyris longicarpus</i>			1	0.8698					
						<i>Tmethypocoelis ceratophora</i>	1	3.781	1	1.9247					
<i>Penaeus monodon</i>	1					0.0139	1	0.0163							
4	Annelida				<i>Aglaophamus inermis</i>								1	0.0268	
					<i>Cossurella</i> spp				3	0.0428				1	0.1478
					<i>Diopatra</i> spp										
					<i>Eunice indica</i>			2	0.011						
					<i>Glycera onomichiensis</i>				2	0.0717	1	0.003		1	0.0147
					<i>Hydroides elegans</i>				1	0.0122					
											1	0.0105			

Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A	B	C	D	E	F	G	H		
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.		
WS1		Arthropoda	<i>Leanira japonica</i>				1	0.0351					
			<i>Ophelina grandis</i>	3	0.0151								
			<i>Paradoneis</i> spp			2	0.0216	2	0.0072	4	0.0101	1	0.001
			<i>Praxillela</i> spp	2	0.0036					3	0.0112	1	0.0047
			<i>Scoloplos armiger</i>							2	0.0051		
			<i>Tylosrhynchus heterochaetus</i>							7	0.0462	1	0.0039
			<i>Mictyris longicarpus</i>										
			<i>Licooncha castrensis</i>	1	0.3085								
			<i>Cossurella</i> spp	1	0.0036								
			<i>Eteone</i> spp	2	0.057			2	0.007	1	0.123		
			<i>Glycera onomichiensis</i>							5	0.0195	2	0.8665
			<i>Goniada</i> spp										
			<i>Hydroides elegans</i>	1	0.0011	2	0.0265						
			<i>Leonnates persica</i>			3	0.0594						
			<i>Mediomastus californiensis</i>	2	0.0027								
VS6		Annelida	<i>Paradoneis</i> spp					4	0.0063				
			<i>Praxillela</i> spp			2	0.0027	4	0.0115	1	0.0372		
			<i>Tylosrhynchus heterochaetus</i>			1	0.0176	2	0.099	1	0.0696	1	0.1435
			<i>Chaetozone</i> spp			1	0.0095						
			<i>Eteone</i> spp					6	0.0966	1	0.0071	1	0.0061
			<i>Glycera onomichiensis</i>	1	0.3364	1	0.0013	1	0.0132	1	0.033	1	0.0059
			<i>Goniada</i> spp	1	0.2554					7	0.0305		
			<i>Mediomastus californiensis</i>										
			<i>Naineris laevigata</i>			2	0.099						
			<i>Ophelina grandis</i>										
			<i>Paradoneis</i> spp			2	0.0009			4	0.0177		
			<i>Praxillela</i> spp	2	0.0155	1	0.0012	1	0.0061	2	0.0027	1	0.012
			<i>Tylosrhynchus heterochaetus</i>			3	0.0038	3	0.0261	2	0.0211	1	0.0095
			<i>Licooncha castrensis</i>					2	0.0038				
			SS3		Annelida	<i>Leonnates persica</i>					1	0.163	
<i>Aglaophamus inermis</i>						2	0.0102			1	0.0126		
<i>Amphictene japonica</i>						1							
<i>Chaetozone</i> spp						1	0.0127						
<i>Diopatra</i> spp						1	0.0706						
<i>Eteone</i> spp													
<i>Glycera onomichiensis</i>						1	0.0198			1	0.4498	1	0.0227
<i>Goniada</i> spp	1	0.2332											
<i>Naineris laevigata</i>	2	0.0389											
<i>Nereis</i> spp.						1	0.1344						
<i>Paradoneis</i> spp	2	0.0126				2	0.0131						
<i>Perinereis</i> spp													

Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A Ind.	A Wt.	B Ind.	B Wt.	C Ind.	C Wt.	D Ind.	D Wt.	E Ind.	E Wt.	F Ind.	F Wt.	G Ind.	G Wt.	H Ind.	H Wt.
			<i>Polynoe</i> spp															2	0.1222
			<i>Praxillela</i> spp	2	0.0068													4	0.0048
		Arthropoda	<i>Tylorhynchus heterochaetus</i>	1	0.0353	1	0.0608	2	0.0783	1	0.1322								
			<i>Mictyris longicarpus</i>									1	0.7955						
		Mollusca	<i>Paphia undulata</i>							1	0.4165								
SS4		Animalia	<i>Leonnates persica</i>							1	0.0174								
		Annelida	<i>Eteone</i> spp					1	0.0244			1	0.0297			3	0.066		
			<i>Glycera onomichiensis</i>					2	0.001			1	0.1494	1	0.0014	1	0.2983		
			<i>Goniada</i> spp			1	0.0155												
			<i>Hydroides elegans</i>					1	0.0584							1	0.0153		
			<i>Paradoneis</i> spp													1	0.0134	1	0.0033
			<i>Praxillela</i> spp					2	0.0027			3	0.0228	1	0.0021				
			<i>Scoloplos armiger</i>							1	0.0043								
		Arthropoda	<i>Tylorhynchus heterochaetus</i>													3	0.1302		
			<i>Gaeke depressus</i>													1	0.7184		
			<i>Portunus granulatus</i>									1	5.779						
Sep-11	1	Annelida	<i>Chaetozone</i> spp.	1	0.006														
			<i>Glycera onomichiensis</i>	2	0.1059					3	0.0384								
			<i>Mediomastus californiensis</i>									1	0.0006						
			<i>Nereis succinea</i>					1	0.0046										
			<i>Paradoneis</i> spp.			4	0.0223					2	0.0016	6	0.0128				
			<i>Praxillela</i> spp.					1	0.0006										
			<i>Scoloplos armiger</i>							3	0.0092								
		Arthropoda	<i>Tylorhynchus heterochaetus</i>																
		Mollusca	<i>Nassarius siquijorensis</i>									3	0.1149					1	0.111
2		Annelida	<i>Eteone</i> spp.			3	0.0146												
			<i>Leocrates chirensis</i>													2	0.0056		
			<i>Praxillela</i> spp.					2	0.0471										
		Arthropoda	<i>Tylorhynchus heterochaetus</i>															3	0.0633
		Arthropoda	<i>Trnethypocoelis ceratophora</i>									2	1.7065	1	0.0401				
		Mollusca	<i>Penaeus monodon</i>					1	0.061							2	0.0462		
			<i>Nassarius siquijorensis</i>	1	0.2546														
			<i>Ruditapes philippinarum</i>	6	44.47	4	1.7425					116	84.259						
3		Annelida	<i>Aglaophamus inermis</i>															2	0.0066
			<i>Amphictene japonica</i>																
			<i>Diopatra</i> spp.							1	0.2067								
			<i>Glycera onomichiensis</i>													1	0.1627	2	0.0124
			<i>Paradoneis</i> spp.																
			<i>Scoloplos armiger</i>									2	0.008						
		Arthropoda	<i>Tylorhynchus heterochaetus</i>																
		Mollusca	<i>Nassarius siquijorensis</i>			2	0.023												
			<i>Portunus granulatus</i>							2	0.4226								

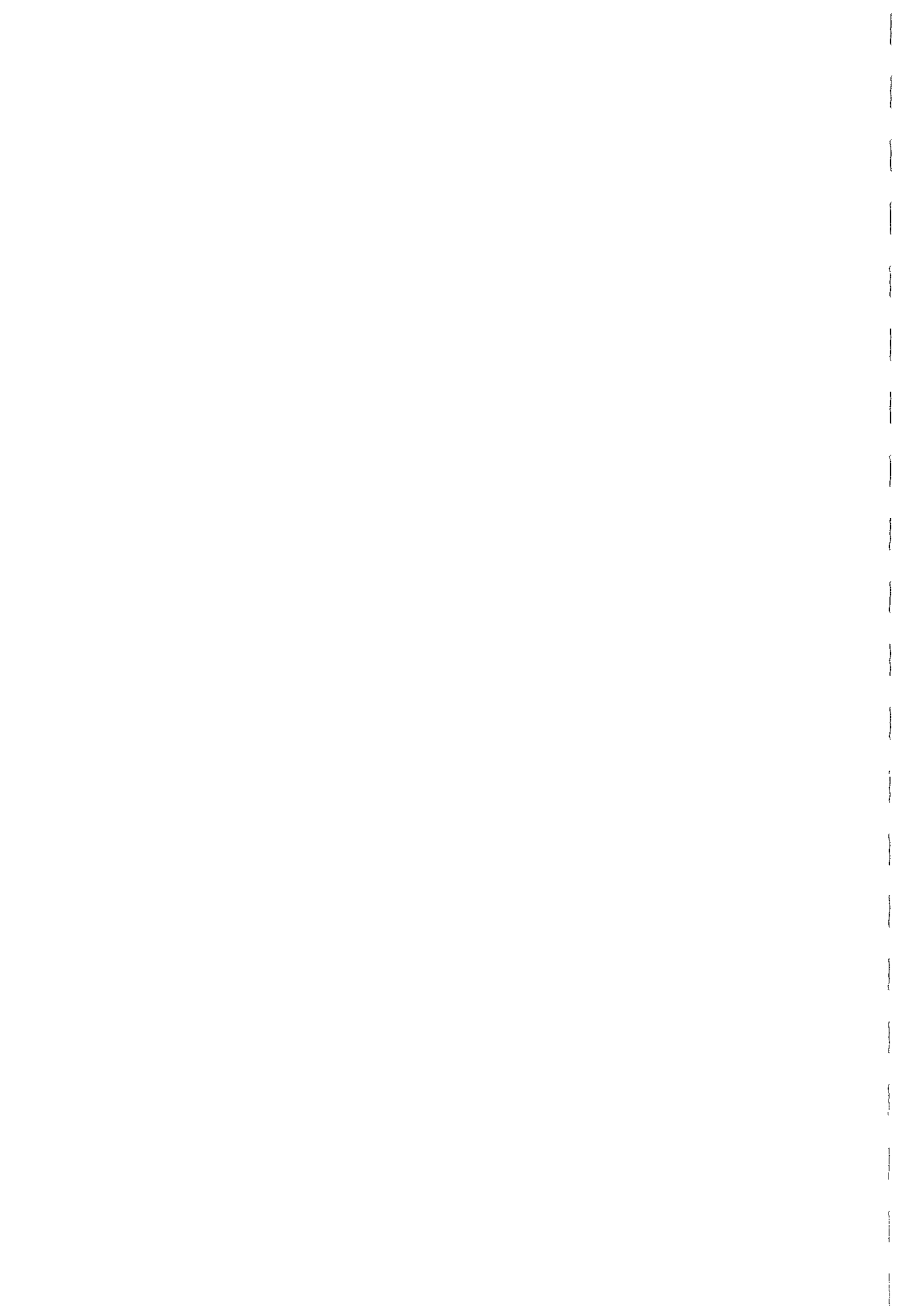
Appendix E Baseline and Operation Benthic Survey Monitoring Record

Sampling time	Sampling station	Phylum	Scientific Name	A		B		C		D		E		F		G		H	
				Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.	Ind.	Wt.
	4	Annelida	<i>Eteone</i> spp.												1	0.0003			
			<i>Mediomastus californiensis</i>							21	0.0069							3	0.0069
			<i>Paradoneis</i> spp.																
	WS1	Mollusca	<i>Nassarius siquijorensis</i>							1	0.0471								
		Annelida	<i>Chaetozone</i> spp.									1	0.0554						
			<i>Praxillela</i> spp.							1	0.0068			1	0.009	2	0.02		
		Mollusca	<i>Nassarius siquijorensis</i>									1	0.0031						
	VSE	Annelida	<i>Glycera onomichiensis</i>															1	0.0059
			<i>Mediomastus californiensis</i>															4	0.0998
			<i>Ophelia grandis</i>															1	0.0042
		Mollusca	<i>Nassarius festivus</i>	1	0.2098					4	0.5991								
			<i>Ruditapes philippinarum</i>			2	0.7859	2	1.147	7	4.8621	4	1.5478	5	1.6533			3	2.4703
	SS3	Annelida	<i>Aglaophamus inermis</i>					27	0.0995	19	0.1033					14	0.0494		
			<i>Amphictene japonica</i>							2	0.0044								
			<i>Eteone</i> spp.									7	0.025						
			<i>Eunice indica</i>													1	0.003	1	0.0007
			<i>Mediomastus californiensis</i>									1	0.0024			2	0.0181	1	0.0013
			<i>Naineris laevigata</i>					9	0.0438			5	0.0157						
			<i>Praxillela</i> spp.													1	0.0582		
		Mollusca	<i>Nassarius siquijorensis</i>															1	0.0681
			<i>Ruditapes philippinarum</i>					2	0.0263										
	SS4	Annelida	<i>Eteone</i> spp.			26	0.1213												
			<i>Eunice indica</i>					2	0.0274			1	0.0056	2	0.009			3	0.0138
			<i>Glycera onomichiensis</i>															1	0.0005
			<i>Hydroides elegans</i>	3	0.0897														
			<i>Lumbrineris</i> spp.			2	0.04												
			<i>Mediomastus californiensis</i>	1	0.0005														
			<i>Naineris laevigata</i>															1	0.0018
			<i>Owenia fusiformes</i>															1	0.0008
			<i>Paradoneis</i> spp.															1	0.0033
			<i>Perinereis</i> spp.	2	0.0017														
			<i>Praxillela</i> spp.																
		Echinodermata	<i>Ophiactis savignyi</i>									1	0.0065			2	0.0905		



APPENDIX F

Whole Effluent Toxicity Test Records



Appendix F - Whole Effluent Toxicity Test Records

Measured LC50 / NOEC for Test Species						
Month	Amphipod - <i>Melita longidactyla</i>	Fish - <i>Lutjanus malabaricus</i>	Barnacle larvae - <i>Balanus amphitrite</i>	Shrimp - <i>Metapenaeus ensis</i>	Diatom - <i>Skeletonema costatum</i>	Copepod - <i>Tigriopus japonicus</i> *
Mar-10	80.00%	-	52.20%	NT	2.5% (NOEC)	-
Apr-10	40.40%	82.20%	33.60%	NT	2.5% (NOEC)	-
May-10	36.90%	71.50%	33.60%	NT	2.5% (NOEC)	-
Jun-10	33.30%	49.40%	28.40%	39.10%	2.5% (NOEC)	-
Jul-10	34.50%	46.70%	29.40%	42.90%	2.5% (NOEC)	-
Aug-10	NT	-	44.40%	70.20%	2.5% (NOEC)	-
Sep-10	24.80%	43.20%	28.90%	34.30%	2.5% (NOEC)	69.70%
Oct-10	22.10%	51.70%	29.60%	37.40%	2.5% (NOEC)	-
Nov-10	22.60%	64.50%	23.20%	31.90%	2.5% (NOEC)	74.30%
Dec-10	26.80%	53.90%	32.40%	61.90%	2.5% (NOEC)	76.70%
Jan-11	23.90%	NT	24.10%	52.30%	2.5% (NOEC)	70.70%
Feb-11	26.30%	38.20%	26.00%	35.80%	2.5% (NOEC)	39.00%
Mar-11	35.20%	38.70%	23.40%	34.70%	2.5% (NOEC)	40.70%
Apr-11	35.70%	48.20%	28.60%	42.30%	2.5% (NOEC)	69.90%
Jun-11	NT	40.10%	23.90%	38.00%	2.5% (NOEC)	78.20%
Aug-11	NT	49.30%	33.60%	31.70%	2.5% (NOEC)	-
Oct-11	23.90%	59.90%	54.90%	40.60%	2.5% (NOEC)	68.80%
Dec-11	46.90%	70.30%	30.50%	50.60%	2.5% (NOEC)	81.40%
Feb-12	68.90%	72.20%	23.40%	45.30%	2.5% (NOEC)	79.10%
Apr-12	34.60%	69.10%	27.40%	44.20%	2.5% (NOEC)	73.70%
Jul-12	NT	67.70%	23.30%	41.40%	2.5% (NOEC)	76.40%
Oct-12	49.80%	67.70%	29.50%	NT	2.5% (NOEC)	77.10%
Jan-13	65.50%	80.50%	32.50%	65.90%	2.5% (NOEC)	84.60%
Apr-13	55.40%	72.30%	26.70%	64.70%	2.5% (NOEC)	75.40%

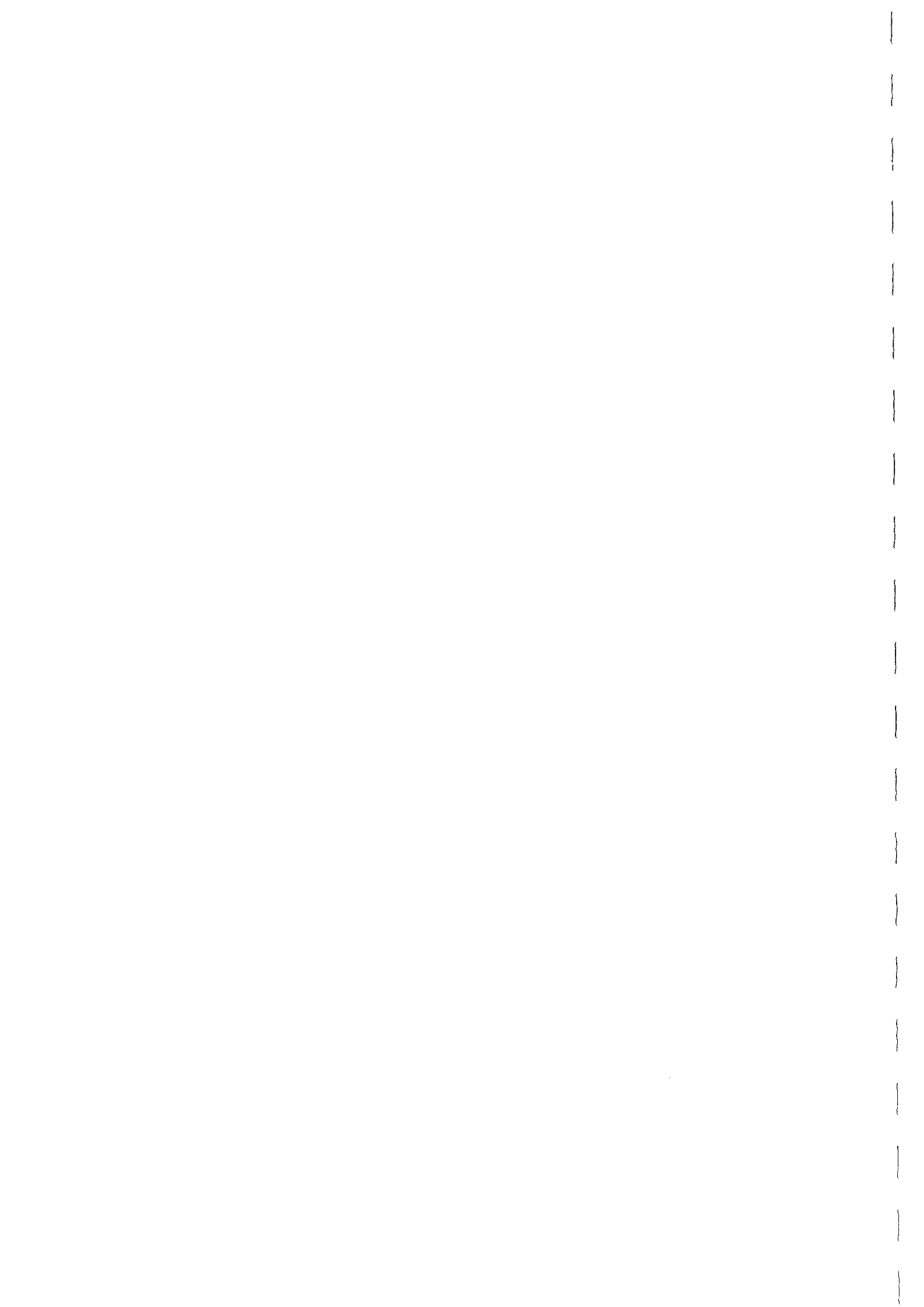
* The mortalities in all concentration groups were less than 50% of that in control group and thus LC50 can not be calculated.

WETT for Copepod was carried out since August 2010.

NT = Not Tested (due to unavailability of specie)

APPENDIX G

Baseline Marine Water Quality Monitoring Records for Emergency Discharge



Appendix G - Baseline Marine Water Quality Monitoring Records for Emergency Discharge During Wet Season (May 2010 to September 2010)

Location	Tide	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Gmean of Depth Average <i>E. coli</i> cfu/100mL
Sampling Date		18-May-10	22-Jun-10	20-Jul-10	17-Aug-10	28-Sep-10	
B7	Ebb	240	20	17	13	1,100	65
B8	Ebb	170	24	7	15	1,300	56
B9	Ebb	240	9	5	20	1,300	49
B10	Ebb	200	15	4	13	1,100	44
B11	Ebb	33	12	16	20	900	41
B12	Ebb	57	7	4	60	800	38
B13	Ebb	170	25	18	11	1,300	64
B14	Ebb	59	12	62	60	1,200	79
F5	Ebb	43	12	1	22	1,267	27
WM4	Ebb	34	21	27	27	1,400	59
WSD18	Ebb	163	1,433	233	46	1,057	305
WSD19	Ebb	3,000	1,500	720	45	1,030	684
WSD20	Ebb	32	108	160	52	1,007	124
VM7	Ebb	1,457	483	216	58	690	360
VM8	Ebb	497	210	129	31	1,100	215
SM6	Ebb	1	30	223	37	657	44
SM12	Ebb	1	42	537	34	136	42
B7	Flood	140	22	2	24	1	11
B8	Flood	150	13	4	42	230	38
B9	Flood	180	9	8	23	470	43
B10	Flood	160	15	4	21	1,100	47
B11	Flood	21	8	8	24	210	23
B12	Flood	26	13	3	24	300	24
B13	Flood	180	32	14	29	470	64
B14	Flood	20	19	72	31	450	52
F5	Flood	32	12	<1	32	513	50
WM4	Flood	64	18	17	23	453	46
WSD18	Flood	157	920	327	17	250	181
WSD19	Flood	3,433	406	1,125	42	253	440
WSD20	Flood	64	46	480	56	100	95
VM7	Flood	2,133	267	243	62	277	298
VM8	Flood	1,067	190	70	23	270	155
SM6	Flood	1	23	167	23	227	29
SM12	Flood	1	3	473	23	167	23

Appendix G - Baseline Marine Water Quality Monitoring Records for Emergency Discharge During Dry Season (April 2010, October 2010 to February 2011)

Location	Tide	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Depth Average <i>E. coli</i> cfu/100mL	Gmean of Depth Average <i>E. coli</i> cfu/100mL
Sampling Date								
B7	Ebb	330	280	44	76	11	74	79
B8	Ebb	270	540	48	120	7	94	91
B9	Ebb	170	64	49	18	18	89	86
B10	Ebb	140	430	58	43	19	96	81
B11	Ebb	200	460	55	79	9	78	81
B12	Ebb	240	130	63	270	8	100	87
B13	Ebb	360	410	22	580	13	120	120
B14	Ebb	320	500	39	74	21	81	96
F5	Ebb	270	207	50	256	3	105	79
VM4	Ebb	573	400	35	417	9	98	120
WSD18	Ebb	213	3,667	2,930	3,000	197	2,517	1226
WSD19	Ebb	267	2,400	3,700	2,633	148	5,367	1306
WSD20	Ebb	2,033	427	4,533	1,933	185	4,077	1338
VM7	Ebb	190	250	4,100	2,233	143	953	625
VM8	Ebb	75	170	3,333	1,270	120	15,667	682
SM5	Ebb	1	257	3,700	890	95	363	180
SM12	Ebb	2	443	4,567	990	144	88	196
B7	Flood	220	460	98	35	3	84	67
B8	Flood	220	520	40	200	18	63	101
B9	Flood	170	550	31	50	21	82	79
B10	Flood	150	790	1	31	9	37	37
B11	Flood	150	710	10	38	5	79	50
B12	Flood	210	570	14	28	30	78	69
B13	Flood	300	730	32	60	9	73	81
B14	Flood	440	600	54	33	7	35	70
F5	Flood	323	543	34	36	14	43	71
VM4	Flood	563	513	38	222	9	36	95
WSD18	Flood	157	3,967	2,693	460	116	6,967	925
WSD19	Flood	433	1,800	2,687	663	147	11,335	1151
WSD20	Flood	2,233	303	3,600	667	180	3,162	987
VM7	Flood	177	300	3,867	1,167	153	1,731	631
VM8	Flood	34	343	2,833	1,600	123	2,213	493
SM5	Flood	<1	320	4,533	2,267	106	1,474	875
SM12	Flood	2	323	2,567	1,210	161	2,667	299

APPENDIX H

E. coli Monitoring Records

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
01/03/2010	18000		
02/03/2010	5000		
03/03/2010	1800		
08/03/2010	2400		
09/03/2010	2400000		
12/03/2010	2100		
15/03/2010	12000		
16/03/2010	3600		
18/03/2010	6600		
22/03/2010	120000		
23/03/2010	140000		
26/03/2010	620		
29/03/2010	10000	G Mean	95 Precentile
30/03/2010	20000	11916	931000
01/04/2010	2500		
05/04/2010	8300		
06/04/2010	1900		
07/04/2010	2900		
12/04/2010	31000		
13/04/2010	3600		
15/04/2010	1900		
20/04/2010	620000		
22/04/2010	580000		
23/04/2010	720000		
26/04/2010	30000		
27/04/2010	1000	G Mean	95 Precentile
28/04/2010	4800	14141	660000
04/05/2010	2500		
05/05/2010	55000		
06/05/2010	11000		
11/05/2010	550000		
12/05/2010	73000		
13/05/2010	1200000		
17/05/2010	28000		
18/05/2010	4100		
20/05/2010	3000		
25/05/2010	2000		
26/05/2010	18000		
27/05/2010	100000	G Mean	95 Precentile
31/05/2010	55000	27427	810000

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	<i>E. coli</i> count (cfu/100mL)		
01/06/2010	88000		
03/06/2010	2100		
07/06/2010	2300		
08/06/2010	1600000		
10/06/2010	24000		
14/06/2010	58000		
15/06/2010	73000		
17/06/2010	470		
22/06/2010	49000		
23/06/2010	49000		
24/06/2010	8000		
28/06/2010	1500	G Mean	95 Percentile
29/06/2010	1200000	24462	1360000
02/07/2010	2100		
05/07/2010	16000		
06/07/2010	400000		
08/07/2010	2200		
12/07/2010	49000		
13/07/2010	14000		
15/07/2010	45000		
19/07/2010	65000		
20/07/2010	40		
22/07/2010	30000		
26/07/2010	2200		
27/07/2010	23000	G Mean	95 Percentile
28/07/2010	4100	10305	199000
02/08/2010	1700		
03/08/2010	2000		
05/08/2010	880		
09/08/2010	4200		
10/08/2010	50000		
12/08/2010	11000		
16/08/2010	6000		
17/08/2010	9900		
19/08/2010	3700		
23/08/2010	1600		
24/08/2010	39000		
26/08/2010	3800		
30/08/2010	34000	G Mean	95 Percentile
31/08/2010	28000	6667	42850

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
02/09/2010	2200		
06/09/2010	61000		
07/09/2010	14000		
09/09/2010	3300		
13/09/2010	430		
14/09/2010	120		
16/09/2010	180		
20/09/2010	21000		
21/09/2010	1600		
23/09/2010	18000		
27/09/2010	2100		
28/09/2010	1300	G Mean	95 Precentile
30/09/2010	75	1979	37000
04/10/2010	12000		
05/10/2010	1800		
07/10/2010	32000		
11/10/2010	4500		
12/10/2010	270		
14/10/2010	1100		
18/10/2010	3100		
19/10/2010	4300		
21/10/2010	3100		
25/10/2010	3700		
26/10/2010	660	G Mean	95 Precentile
28/10/2010	100	2142	21000
01/11/2010	190		
02/11/2010	570		
04/11/2010	5800		
08/11/2010	2400		
09/11/2010	280		
11/11/2010	450		
15/11/2010	31000		
16/11/2010	470000		
18/11/2010	11000		
22/11/2010	2100		
23/11/2010	33		
25/11/2010	320		
29/11/2010	580	G Mean	95 Precentile
30/11/2010	460	1449	184650

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
02/12/2010	1700		
06/12/2010	340		
07/12/2010	1400		
09/12/2010	110		
13/12/2010	340		
14/12/2010	2500		
16/12/2010	22		
20/12/2010	170		
21/12/2010	220		
24/12/2010	520		
27/12/2010	3400		
28/12/2010	580	G Mean	95 Percentile
30/12/2010	34	367	2860
03/01/2011	140		
04/01/2011	170		
06/01/2011	120		
10/01/2011	110		
11/01/2011	3400		
13/01/2011	19		
17/01/2011	110		
18/01/2011	2600		
20/01/2011	250		
25/01/2011	330		
26/01/2011	140		
27/01/2011	1900	G Mean	95 Percentile
31/01/2011	470	278	2920
01/02/2011	260		
04/02/2011	190		
07/02/2011	290		
08/02/2011	550		
10/02/2011	110		
14/02/2011	320		
15/02/2011	240		
16/02/2011	300		
21/02/2011	400		
22/02/2011	440	G Mean	95 Percentile
23/02/2011	260	282	495

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	<i>E. coli</i> count (cfu/100mL)		
02/03/2011	350		
03/03/2011	49		
04/03/2011	120		
07/03/2011	150		
08/03/2011	350		
10/03/2011	350		
14/03/2011	160		
15/03/2011	55		
17/03/2011	4200		
21/03/2011	2500		
22/03/2011	600		
24/03/2011	4000		
28/03/2011	240		
30/03/2011	290	G Mean	95 Percentile
31/03/2011	230	348	4060
04/04/2011	350		
05/04/2011	2500		
07/04/2011	600		
11/04/2011	550		
12/04/2011	200		
14/04/2011	330		
18/04/2011	600		
19/04/2011	20000		
21/04/2011	10000		
25/04/2011	28000		
26/04/2011	860	G Mean	95 Percentile
28/04/2011	2000	1480	23600
02/05/2011	150000		
03/05/2011	30		
05/05/2011	5000		
09/05/2011	17000		
10/05/2011	13000		
11/05/2011	4000		
16/05/2011	20000		
17/05/2011	540		
19/05/2011	760		
23/05/2011	4		
24/05/2011	17000		
26/05/2011	110		
30/05/2011	200	G Mean	95 Percentile
31/05/2011	4600	1652	65500

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
02/06/2011	1100		
06/06/2011	51000		
07/06/2011	110000		
09/06/2011	870000		
13/06/2011	50000		
14/06/2011	30000		
16/06/2011	300		
20/06/2011	700		
21/06/2011	1000		
23/06/2011	20		
27/06/2011	5100		
28/06/2011	40	G Mean	95 Percentile
30/06/2011	700	3267	414000
01/07/2011	700		
02/07/2011	160		
04/07/2011	700		
05/07/2011	160		
07/07/2011	100		
11/07/2011	4300		
12/07/2011	20		
14/07/2011	1000		
18/07/2011	150		
19/07/2011	200		
21/07/2011	70		
25/07/2011	1600		
26/07/2011	190	G Mean	95 Percentile
28/07/2011	5300	347	4650
01/08/2011	370000		
02/08/2011	2000		
04/08/2011	230		
08/08/2011	400		
09/08/2011	3500		
11/08/2011	3000		
15/08/2011	110000		
16/08/2011	4300		
18/08/2011	2100		
22/08/2011	11000		
23/08/2011	4000		
25/08/2011	1300		
29/08/2011	20000	G Mean	95 Percentile
30/08/2011	1000000	7091	590500

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
01/09/2011	40000		
05/09/2011	2200		
06/09/2011	100		
08/09/2011	200		
12/09/2011	230000		
13/09/2011	1100000		
15/09/2011	4000		
19/09/2011	800		
20/09/2011	500		
22/09/2011	200		
26/09/2011	400		
27/09/2011	100	G Mean	95 Percentile
30/09/2011	200		
03/10/2011	20000		
04/10/2011	1300		
06/10/2011	260		
10/10/2011	1300		
11/10/2011	4100		
13/10/2011	9		
17/10/2011	30000		
18/10/2011	70		
20/10/2011	50		
24/10/2011	2700000		
25/10/2011	3000	G Mean	95 Percentile
27/10/2011	220		
02/11/2011	2400000		
03/11/2011	1400		
04/11/2011	2200		
07/11/2011	2300000		
08/11/2011	2200		
10/11/2011	7800		
14/11/2011	3700		
15/11/2011	6000		
17/11/2011	700		
21/11/2011	40000		
22/11/2011	80000		
24/11/2011	1000	G Mean	95 Percentile
28/11/2011	7000		
29/11/2011	1900		

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	<i>E. coli</i> count (cfu/100mL)		
01/12/2011	200		
05/12/2011	700		
06/12/2011	26		
08/12/2011	1300		
12/12/2011	22		
13/12/2011	18		
15/12/2011	20		
19/12/2011	350		
20/12/2011	42		
22/12/2011	150		
26/12/2011	36		
27/12/2011	20	G Mean	95 Precentile
29/12/2011	20	71	940
02/01/2012	490		
03/01/2012	100		
05/01/2012	8		
09/01/2012	4		
10/01/2012	24		
12/01/2012	40		
16/01/2012	80		
17/01/2012	10		
19/01/2012	3100		
25/01/2012	290		
26/01/2012	18		
27/01/2012	160		
30/01/2012	350	G Mean	95 Precentile
31/01/2012	460	81	1404
01/02/2012	30		
05/02/2012	130		
06/02/2012	16		
08/02/2012	14		
12/02/2012	64		
13/02/2012	6		
15/02/2012	2		
20/02/2012	110		
21/02/2012	26		
23/02/2012	210		
27/02/2012	2	G Mean	95 Precentile
28/02/2012	6	20	166

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	<i>E. coli</i> count (cfu/100mL)		
01/03/2012	42		
05/03/2012	40		
06/03/2012	14		
08/03/2012	8		
12/03/2012	2		
13/03/2012	2		
15/03/2012	24		
19/03/2012	2000		
20/03/2012	70		
22/03/2012	1		
26/03/2012	16000		
27/03/2012	130	G Mean	95 Precentile
29/03/2012	8	32	7600
02/04/2012	60		
03/04/2012	300		
05/04/2012	600		
10/04/2012	10		
11/04/2012	74000		
12/04/2012	9700		
16/04/2012	450000		
17/04/2012	40000		
19/04/2012	180		
23/04/2012	230		
24/04/2012	150		
26/04/2012	590	G Mean	95 Precentile
30/04/2012	90	942	224400
01/05/2012	90000		
03/05/2012	12000		
07/05/2012	4000		
08/05/2012	1700		
10/05/2012	400		
14/05/2012	190000		
15/05/2012	90000		
17/05/2012	30000		
21/05/2012	20		
22/05/2012	300		
24/05/2012	300		
28/05/2012	37000		
29/05/2012	2000	G Mean	95 Precentile
31/05/2012	1000000	6417	473500

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
04/06/2012	600		
05/06/2012	500		
07/06/2012	560000		
11/06/2012	200000		
12/06/2012	1300000		
14/06/2012	80000		
18/06/2012	600		
19/06/2012	150000		
21/06/2012	3200		
25/06/2012	40000		
26/06/2012	26000	G Mean	95 Percentile
28/06/2012	60	14120	893000
03/07/2012	420		
04/07/2012	15		
05/07/2012	120000		
09/07/2012	7600		
10/07/2012	820000		
11/07/2012	350		
16/07/2012	700		
17/07/2012	300		
19/07/2012	700		
23/07/2012	43000		
25/07/2012	940		
26/07/2012	10	G Mean	95 Percentile
30/07/2012	960	1418	400000
02/08/2012	38		
06/08/2012	670		
07/08/2012	600		
09/08/2012	400		
13/08/2012	1900		
14/08/2012	110		
16/08/2012	16000		
20/08/2012	1800		
21/08/2012	4000		
23/08/2012	300		
27/08/2012	900		
28/08/2012	790	G Mean	95 Percentile
30/08/2012	730000	1272	301600

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
03/09/2012	5000		
04/09/2012	530000		
06/09/2012	560000		
10/09/2012	390000		
11/09/2012	2700		
14/09/2012	2500000		
17/09/2012	3100		
18/09/2012	8700		
20/09/2012	670		
24/09/2012	1700000		
25/09/2012	12	G Mean	95 Precentile
27/09/2012	910	18188	2060000
01/10/2012	520000		
02/10/2012	1000000		
04/10/2012	16000		
08/10/2012	790000		
09/10/2012	110000		
11/10/2012	2400		
15/10/2012	7400		
16/10/2012	2100		
18/10/2012	800		
22/10/2012	2000		
23/10/2012	140000		
25/10/2012	63000		
29/10/2012	2200	G Mean	95 Precentile
30/10/2012	1800	19881	863500
01/11/2012	500		
05/11/2012	1500		
06/11/2012	1700000		
08/11/2012	1800		
13/11/2012	1900000		
14/11/2012	49000		
15/11/2012	50000		
19/11/2012	1300000		
20/11/2012	2200000		
22/11/2012	73000		
26/11/2012	2100		
27/11/2012	280	G Mean	95 Precentile
29/11/2012	320	22678	2020000

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	E. coli count (cfu/100mL)		
03/12/2012	180		
04/12/2012	220		
06/12/2012	470		
10/12/2012	1100		
11/12/2012	170		
13/12/2012	42		
17/12/2012	920		
18/12/2012	610000		
20/12/2012	58		
24/12/2012	1200		
25/12/2012	2000000		
27/12/2012	1400000	G Mean	95 Percentile
31/12/2012	400	1962	1640000
01/01/2013	100		
03/01/2013	600		
07/01/2013	1000		
08/01/2013	230		
10/01/2013	120		
14/01/2013	320		
15/01/2013	1300		
17/01/2013	590		
21/01/2013	760		
22/01/2013	180		
24/01/2013	280		
28/01/2013	220		
29/01/2013	350	G Mean	95 Percentile
31/01/2013	400	354	1105
04/02/2013	1300		
05/02/2013	720		
07/02/2013	280		
12/02/2013	2000		
13/02/2013	4900		
14/02/2013	290		
18/02/2013	14000		
19/02/2013	2200		
21/02/2013	88		
25/02/2013	1400000		
27/02/2013	250	G Mean	95 Percentile
28/02/2013	720000	2989	1026000

Appendix H - E. coli Monitoring Records (Effluent)

Sampling date	<i>E. coli</i> count (cfu/100mL)		
04/03/2013	54		
05/03/2013	66		
07/03/2013	2900		
11/03/2013	50		
12/03/2013	1400		
14/03/2013	1000		
18/03/2013	210		
19/03/2013	780		
21/03/2013	8		
25/03/2013	32		
26/03/2013	30		
28/03/2013	50	G Mean	95 Percentile
31/03/2013	42		
01/04/2013	800	125	2000
02/04/2013	670		
04/04/2013	27		
08/04/2013	24		
09/04/2013	640		
11/04/2013	6		
15/04/2013	240		
16/04/2013	18		
18/04/2013	20		
22/04/2013	420		
23/04/2013	70		
25/04/2013	750		
29/04/2013	390	G Mean	95 Percentile
30/04/2013	3600		
		152	1780

Appendix H - E. coli Monitoring Records (EPD Stations)

Baseline Monitoring

Station	Sampling date	E. coli count (cfu/100mL)
VM7	10/9/2008	5700
VM7	11/20/2008	38000
VM7	12/6/2008	350
VM7	1/5/2009	49667
VM7	2/4/2009	1433
VM7	3/11/2009	4500
VM7	4/2/2009	5933
VM7	5/6/2009	757
VM7	6/4/2009	2703
VM7	7/16/2009	11500
VM7	8/7/2009	2067
VM7	9/10/2009	7033
	G Mean	4376
VM8	10/9/2008	22333
VM8	11/20/2008	6367
VM8	12/6/2008	21333
VM8	1/5/2009	10000
VM8	2/4/2009	3133
VM8	3/11/2009	3367
VM8	4/2/2009	820
VM8	5/6/2009	15333
VM8	6/4/2009	2637
VM8	7/16/2009	1790
VM8	8/7/2009	2300
VM8	9/10/2009	2633
	G Mean	4696
WM2	10/9/2008	877
WM2	11/20/2008	5667
WM2	12/6/2008	11967
WM2	1/5/2009	9433
WM2	2/4/2009	290
WM2	3/11/2009	1357
WM2	4/2/2009	390
WM2	5/6/2009	4267
WM2	6/4/2009	1637
WM2	7/16/2009	80
WM2	8/7/2009	1173
WM2	9/10/2009	1367
	G Mean	1436
WM3	10/9/2008	280
WM3	11/20/2008	1800
WM3	12/6/2008	3800
WM3	1/5/2009	40000
WM3	2/4/2009	24133
WM3	3/11/2009	2200
WM3	4/2/2009	6417
WM3	5/6/2009	640
WM3	6/4/2009	4883
WM3	7/16/2009	3410
WM3	8/7/2009	590
WM3	9/10/2009	4467
	G Mean	3081

First Year Operation Monitoring

Station	Sampling date	E. coli count (cfu/100mL)
VM7	3/8/2010	8867
VM7	4/7/2010	16667
VM7	5/5/2010	3267
VM7	6/4/2010	1853
VM7	7/5/2010	2387
VM7	8/19/2010	10800
VM7	9/20/2010	593
VM7	10/25/2010	4867
VM7	11/19/2010	1803
VM7	12/3/2010	857
VM7	1/21/2011	11800
VM7	2/23/2011	4433
	G Mean	3638
VM8	3/8/2010	3800
VM8	4/7/2010	690
VM8	5/5/2010	433
VM8	6/4/2010	8400
VM8	7/5/2010	3857
VM8	8/19/2010	2967
VM8	9/20/2010	5067
VM8	10/25/2010	3000
VM8	11/19/2010	3967
VM8	12/3/2010	207
VM8	1/21/2011	863
VM8	2/23/2011	733
	G Mean	1756
WM2	3/8/2010	27
WM2	4/7/2010	24
WM2	5/5/2010	43
WM2	6/4/2010	1802
WM2	7/5/2010	2567
WM2	8/19/2010	160
WM2	9/20/2010	880
WM2	10/25/2010	2567
WM2	11/19/2010	3600
WM2	12/3/2010	113
WM2	1/21/2011	48
WM2	2/23/2011	303
	G Mean	285
WM3	3/8/2010	1130
WM3	4/7/2010	4060
WM3	5/5/2010	1697
WM3	6/4/2010	1433
WM3	7/5/2010	813
WM3	8/19/2010	593
WM3	9/20/2010	1583
WM3	10/25/2010	1967
WM3	11/19/2010	2533
WM3	12/3/2010	233
WM3	1/21/2011	323
WM3	2/23/2011	122
	G Mean	925

Appendix H - E. coli Monitoring Records (EPD Stations)**Baseline Monitoring**

Station	Sampling date	<i>E. coli</i> count (cfu/100mL)
WM4	10/9/2008	197
WM4	11/20/2008	372
WM4	12/6/2008	470
WM4	1/5/2009	43
WM4	2/4/2009	4500
WM4	3/11/2009	1867
WM4	4/2/2009	1970
WM4	5/6/2009	663
WM4	6/4/2009	1180
WM4	7/16/2009	62
WM4	8/21/2009	753
WM4	9/10/2009	463
	G Mean	523

First Year Operation Monitoring

Station	Sampling date	<i>E. coli</i> count (cfu/100mL)
WM4	3/8/2010	987
WM4	4/7/2010	107
WM4	5/5/2010	407
WM4	6/4/2010	951
WM4	7/5/2010	260
WM4	8/19/2010	64
WM4	9/20/2010	65
WM4	10/25/2010	487
WM4	11/19/2010	920
WM4	12/3/2010	129
WM4	1/21/2011	72
WM4	2/23/2011	26
	G Mean	202

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Angler's	3/4/2010	956
	3/11/2010	33
	3/18/2010	42
	3/26/2010	7
	4/9/2010	148
	4/16/2010	129
	4/22/2010	245
	4/29/2010	33
	5/7/2010	39
	5/13/2010	44
	5/18/2010	160
	5/27/2010	210
	6/3/2010	320
	6/10/2010	1013
	6/17/2010	480
	6/24/2010	87
	7/8/2010	28
	7/15/2010	1990
	7/23/2010	185
	7/27/2010	495
	8/5/2010	43
	8/12/2010	1643
	8/21/2010	54
	8/27/2010	511
	9/2/2010	73
	9/10/2010	295
	9/17/2010	155
	9/24/2010	53
	9/29/2010	110
	10/10/2010	1196
	10/14/2010	144
	10/20/2010	50
	10/28/2010	8
	11/5/2010	849
	11/11/2010	34
	11/18/2010	11
	11/26/2010	67
	12/10/2010	24
	12/16/2010	399
	12/23/2010	600
	12/29/2010	10
	1/5/2011	53
	1/13/2011	8
	1/20/2011	97
	1/27/2011	8
	2/1/2011	5
	2/10/2011	15
	2/17/2011	23
	2/24/2011	27
	G Mean	89

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Approach	3/4/2010	26
	3/11/2010	27
	3/18/2010	48
	3/26/2010	247
	4/9/2010	153
	4/16/2010	640
	4/22/2010	64
	4/29/2010	175
	5/7/2010	565
	5/13/2010	99
	5/18/2010	100
	5/27/2010	105
	6/3/2010	137
	6/10/2010	315
	6/17/2010	1351
	6/24/2010	385
	7/8/2010	90
	7/15/2010	169
	7/23/2010	938
	7/27/2010	99
	8/5/2010	37
	8/12/2010	710
	8/21/2010	45
	8/27/2010	295
	9/2/2010	52
	9/10/2010	344
	9/17/2010	37
	9/24/2010	134
	9/29/2010	83
	10/10/2010	1020
	10/14/2010	6
	10/20/2010	40
	10/28/2010	11
	11/5/2010	210
	11/11/2010	45
	11/18/2010	81
	11/26/2010	19
	12/10/2010	16
	12/16/2010	837
	12/23/2010	101
	12/29/2010	10
	1/5/2011	97
	1/13/2011	70
	1/20/2011	28
	1/27/2011	54
	2/1/2011	30
	2/10/2011	31
	2/17/2011	30
	2/24/2011	17
	G Mean	91

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Casam	3/4/2010	28
	3/11/2010	3
	3/18/2010	16
	3/26/2010	43
	4/9/2010	12
	4/16/2010	39
	4/22/2010	2400
	4/29/2010	170
	5/7/2010	140
	5/13/2010	320
	5/18/2010	130
	5/27/2010	1400
	6/3/2010	110
	6/10/2010	2200
	6/17/2010	180
	6/24/2010	540
	7/8/2010	55
	7/15/2010	79
	7/23/2010	1700
	7/27/2010	300
	8/5/2010	40
	8/12/2010	2100
	8/21/2010	28
	8/27/2010	27
	9/2/2010	90
	9/10/2010	410
	9/17/2010	13
	9/24/2010	240
	9/29/2010	80
	10/10/2010	310
	10/14/2010	8
	10/20/2010	19
	10/28/2010	13
	11/5/2010	230
	11/11/2010	53
	11/18/2010	44
	11/26/2010	9
	12/10/2010	11
	12/16/2010	460
	12/23/2010	43
	12/29/2010	12
	1/5/2011	49
	1/13/2011	8
	1/20/2011	42
	1/27/2011	5
	2/1/2011	25
	2/10/2011	9
	2/17/2011	13
	2/24/2011	11
	G Mean	65

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

[illegible]

First Year Operation Monitoring

First Year Operation Monitoring		
Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Gemini	3/4/2010	730
	3/11/2010	24
	3/18/2010	41
	3/26/2010	16
	4/9/2010	270
	4/16/2010	130
	4/22/2010	610
	4/29/2010	53
	5/7/2010	240
	5/13/2010	48
	5/18/2010	80
	5/27/2010	170
	6/3/2010	450
	6/10/2010	210
	6/17/2010	1300
	6/24/2010	110
	7/8/2010	35
	7/15/2010	1500
	7/23/2010	310
	7/27/2010	370
	8/5/2010	44
	8/12/2010	2100
	8/21/2010	5
	8/27/2010	380
	9/2/2010	30
	9/10/2010	410
	9/17/2010	6
	9/24/2010	60
	9/29/2010	160
	10/10/2010	5000
	10/14/2010	110
	10/20/2010	210
	10/28/2010	13
	11/5/2010	1100
	11/11/2010	90
	11/18/2010	23
	11/26/2010	73
	12/10/2010	23
	12/16/2010	530
	12/23/2010	700
	12/29/2010	11
	1/5/2011	69
	1/13/2011	7
	1/20/2011	66
	1/27/2011	5
	2/1/2011	5
	2/10/2011	6
	2/17/2011	26
	2/24/2011	30
	G Mean	92

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Hoi Mei Wan	3/4/2010	720
	3/11/2010	21
	3/18/2010	32
	3/26/2010	16
	4/9/2010	8
	4/16/2010	140
	4/22/2010	630
	4/29/2010	45
	5/7/2010	170
	5/13/2010	57
	5/18/2010	180
	5/27/2010	260
	6/3/2010	19
	6/10/2010	3400
	6/17/2010	190
	6/24/2010	380
	7/8/2010	69
	7/15/2010	77
	7/23/2010	870
	7/27/2010	370
	8/5/2010	19
	8/12/2010	1700
	8/21/2010	14
	8/27/2010	45
	9/2/2010	17
	9/10/2010	450
	9/17/2010	9
	9/24/2010	54
	9/29/2010	120
	10/10/2010	380
	10/14/2010	93
	10/20/2010	6
	10/28/2010	6
	11/5/2010	1000
	11/11/2010	39
	11/18/2010	48
	11/26/2010	90
	12/10/2010	37
	12/16/2010	390
	12/23/2010	600
	12/29/2010	3
	1/5/2011	33
	1/13/2011	2
	1/20/2011	23
	1/27/2011	1
	2/1/2011	8
	2/10/2011	10
	2/17/2011	9
	2/24/2011	13
	G Mean	59

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

[illegible]

First Year Operation Monitoring

First Year Operational Monitoring		
Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Lido	3/4/2010	26
	3/11/2010	4
	3/18/2010	10
	3/26/2010	110
	4/9/2010	26
	4/16/2010	66
	4/22/2010	1700
	4/29/2010	190
	5/7/2010	75
	5/13/2010	190
	5/18/2010	76
	5/27/2010	610
	6/3/2010	78
	6/10/2010	260
	6/17/2010	110
	6/24/2010	410
	7/8/2010	76
	7/15/2010	90
	7/23/2010	1000
	7/27/2010	330
	8/5/2010	110
	8/12/2010	1600
	8/21/2010	39
	8/27/2010	56
	9/2/2010	46
	9/10/2010	180
	9/17/2010	18
	9/24/2010	220
	9/29/2010	67
	10/10/2010	150
	10/14/2010	7
	10/20/2010	55
	10/28/2010	2
	11/5/2010	280
	11/11/2010	42
	11/18/2010	33
	11/26/2010	34
	12/10/2010	6
	12/16/2010	320
	12/23/2010	64
	12/29/2010	13
	1/5/2011	49
	1/13/2011	5
	1/20/2011	55
	1/27/2011	3
	2/1/2011	42
	2/10/2011	4
	2/17/2011	14
	2/24/2011	4
	G Mean	56

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Ting Kau	3/4/2010	21
	3/11/2010	5
	3/18/2010	52
	3/26/2010	18
	4/9/2010	23
	4/16/2010	746
	4/22/2010	60
	4/29/2010	147
	5/7/2010	450
	5/13/2010	1073
	5/18/2010	74
	5/27/2010	266
	6/3/2010	171
	6/10/2010	3564
	6/17/2010	368
	6/24/2010	1404
	7/8/2010	63
	7/15/2010	556
	7/23/2010	896
	7/27/2010	152
	8/5/2010	94
	8/12/2010	5141
	8/21/2010	42
	8/27/2010	68
	9/2/2010	123
	9/10/2010	633
	9/17/2010	195
	9/24/2010	163
	9/29/2010	79
	10/10/2010	729
	10/14/2010	7
	10/20/2010	45
	10/28/2010	7
	11/5/2010	286
	11/11/2010	17
	11/18/2010	45
	11/26/2010	18
	12/10/2010	30
	12/16/2010	631
	12/23/2010	66
	12/29/2010	12
	1/5/2011	57
	1/13/2011	10
	1/20/2011	15
	1/27/2011	8
	2/1/2011	30
	2/10/2011	34
	2/17/2011	40
	2/24/2011	22
	G Mean	89

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast)

Baseline Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Ma Wan Tung	10/2/2008	3
	10/10/2008	1
	10/20/2008	3
	10/28/2008	8
	11/11/2008	3
	12/2/2008	27
	1/8/2009	160
	2/23/2009	16
	3/3/2009	520
	3/11/2009	150
	3/18/2009	720
	3/24/2009	840
	3/27/2009	110
	4/6/2009	82
	4/16/2009	23
	4/24/2009	29
	4/29/2009	3
	5/11/2009	4
	5/16/2009	120
	5/21/2009	27
	5/29/2009	410
	6/5/2009	110
	6/16/2009	210
	6/24/2009	760
	6/29/2009	450
	7/2/2009	10
	7/9/2009	39
	7/22/2009	20
	7/27/2009	780
	7/30/2009	8
	8/7/2009	90
	8/14/2009	80
	8/20/2009	120
	8/28/2009	3
	9/7/2009	8
	9/20/2009	97
	9/28/2009	35
	G Mean	43

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Ma Wan Tung	3/4/2010	4
	3/11/2010	1
	3/18/2010	4
	3/26/2010	1
	4/12/2010	38
	4/19/2010	37
	4/28/2010	8
	5/3/2010	16
	5/10/2010	550
	5/18/2010	4
	5/26/2010	29
	6/1/2010	40
	6/8/2010	1
	6/12/2010	110
	6/21/2010	25
	6/28/2010	320
	7/7/2010	15
	7/12/2010	4
	7/18/2010	140
	7/26/2010	8
	8/2/2010	68
	8/11/2010	10
	8/18/2010	8
	8/24/2010	200
	8/31/2010	16
	9/6/2010	6
	9/14/2010	110
	9/27/2010	120
	10/4/2010	18
	10/12/2010	4
	10/19/2010	12
	10/27/2010	10
	11/8/2010	12
	12/13/2010	10
	1/26/2011	1
	2/21/2011	31
	G Mean	16

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) During Bathing Season

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Angler's	3/4/2010	956
	3/11/2010	33
	3/18/2010	42
	3/26/2010	7
	4/9/2010	148
	4/16/2010	129
	4/22/2010	245
	4/29/2010	33
	5/7/2010	39
	5/13/2010	44
	5/18/2010	160
	5/27/2010	210
	6/3/2010	320
	6/10/2010	1013
	6/17/2010	480
	6/24/2010	87
	7/8/2010	28
	7/15/2010	1990
	7/23/2010	185
	7/27/2010	495
	8/5/2010	43
	8/12/2010	1643
	8/21/2010	54
	8/27/2010	511
	9/2/2010	73
	9/10/2010	295
	9/17/2010	155
	9/24/2010	53
	9/29/2010	110
	10/10/2010	1196
	10/14/2010	144
	10/20/2010	50
	10/28/2010	8
	G Mean	134

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Approach	3/4/2010	26
	3/11/2010	27
	3/18/2010	48
	3/26/2010	247
	4/9/2010	153
	4/16/2010	640
	4/22/2010	64
	4/29/2010	175
	5/7/2010	565
	5/13/2010	99
	5/18/2010	100
	5/27/2010	105
	6/3/2010	137
	6/10/2010	315
	6/17/2010	1351
	6/24/2010	385
	7/8/2010	90
	7/15/2010	169
	7/23/2010	938
	7/27/2010	99
	8/5/2010	37
	8/12/2010	710
	8/21/2010	45
	8/27/2010	295
	9/2/2010	52
	9/10/2010	344
	9/17/2010	37
	9/24/2010	134
	9/29/2010	83
	10/10/2010	1020
	10/14/2010	6
	10/20/2010	40
	10/28/2010	11
	G Mean	124

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) During Bathing Season

Baseline Monitoring

[illegible]

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Gemini	3/4/2010	730
	3/11/2010	24
	3/18/2010	41
	3/26/2010	16
	4/9/2010	270
	4/16/2010	130
	4/22/2010	610
	4/29/2010	53
	5/7/2010	240
	5/13/2010	48
	5/18/2010	80
	5/27/2010	170
	6/3/2010	450
	6/10/2010	210
	6/17/2010	1300
	6/24/2010	110
	7/8/2010	35
	7/15/2010	1500
	7/23/2010	310
	7/27/2010	370
	8/5/2010	44
	8/12/2010	2100
	8/21/2010	5
	8/27/2010	380
	9/2/2010	30
	9/10/2010	410
	9/17/2010	6
	9/24/2010	60
	9/29/2010	160
	10/10/2010	5000
	10/14/2010	110
	10/20/2010	210
	10/28/2010	13
	G Mean	137

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) During Bathing Season

Baseline Monitoring

Beach	Sampling date	E. coli count (cfu/100mL)
Hoi Mei Wan	10/10/2008	39
	10/22/2008	14
	10/29/2008	170
	3/6/2009	270
	3/11/2009	69
	3/18/2009	71
	3/24/2009	1600
	4/2/2009	270
	4/14/2009	190
	4/24/2009	110
	5/7/2009	90
	5/16/2009	2800
	5/25/2009	540
	6/5/2009	58
	6/18/2009	360
	6/29/2009	130
	7/9/2009	310
	7/21/2009	260
	7/27/2009	280
	8/7/2009	500
	8/20/2009	190
	8/28/2009	8
	9/10/2009	140
	9/20/2009	130
	9/24/2009	12
	G Mean	147

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Hoi Mei Wan	3/4/2010	720
	3/11/2010	21
	3/18/2010	32
	3/26/2010	16
	4/9/2010	8
	4/16/2010	140
	4/22/2010	630
	4/29/2010	45
	5/7/2010	170
	5/13/2010	57
	5/18/2010	180
	5/27/2010	260
	6/3/2010	19
	6/10/2010	3400
	6/17/2010	190
	6/24/2010	380
	7/8/2010	69
	7/15/2010	77
	7/23/2010	870
	7/27/2010	370
	8/5/2010	19
	8/12/2010	1700
	8/21/2010	14
	8/27/2010	45
	9/2/2010	17
	9/10/2010	450
	9/17/2010	9
	9/24/2010	54
	9/29/2010	120
	10/10/2010	380
	10/14/2010	93
	10/20/2010	6
	10/28/2010	6
	G Mean	87

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) During Bathing Season

Baseline Monitoring

Baseline monitoring		
Beach	Sampling date	E. coli count (cfu/100mL)
Lido	10/10/2008	85
	10/22/2008	7
	10/29/2008	29
	3/6/2009	420
	3/11/2009	65
	3/18/2009	590
	3/24/2009	250
	4/2/2009	670
	4/14/2009	150
	4/24/2009	900
	5/7/2009	240
	5/16/2009	400
	5/25/2009	2700
	6/5/2009	260
	6/18/2009	330
	6/29/2009	80
	7/9/2009	140
	7/21/2009	360
	7/27/2009	290
	8/7/2009	900
	8/20/2009	120
	8/28/2009	12
	9/10/2009	99
	9/20/2009	290
	9/24/2009	7
	G Mean	168

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Lido	3/4/2010	26
	3/11/2010	4
	3/18/2010	10
	3/26/2010	110
	4/9/2010	26
	4/16/2010	66
	4/22/2010	1700
	4/29/2010	190
	5/7/2010	75
	5/13/2010	190
	5/18/2010	76
	5/27/2010	610
	6/3/2010	78
	6/10/2010	260
	6/17/2010	110
	6/24/2010	410
	7/8/2010	76
	7/15/2010	90
	7/23/2010	1000
	7/27/2010	330
	8/5/2010	110
	8/12/2010	1600
	8/21/2010	39
	8/27/2010	56
	9/2/2010	46
	9/10/2010	180
	9/17/2010	18
	9/24/2010	220
	9/29/2010	67
	10/10/2010	150
	10/14/2010	7
	10/20/2010	55
	10/28/2010	2
	G Mean	87

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) During Bathing Season

Baseline Monitoring

Beach	Sampling date	E. coli count (cfu/100mL)
Ting Kau	10/10/2008	134
	10/22/2008	33
	10/29/2008	221
	3/6/2009	731
	3/11/2009	90
	3/18/2009	58
	3/24/2009	10849
	4/2/2009	936
	4/14/2009	87
	4/24/2009	845
	5/7/2009	47
	5/16/2009	1
	5/25/2009	3526
	6/5/2009	302
	6/18/2009	1126
	6/29/2009	148
	7/9/2009	1532
	7/21/2009	315
	7/27/2009	417
	8/7/2009	339
	8/20/2009	83
	8/28/2009	9
	9/10/2009	27
	9/20/2009	90
	9/24/2009	9
	G Mean	165

First Year Operation Monitoring

Beach	Sampling date	<i>E. coli</i> count (cfu/100mL)
Ting Kau	3/4/2010	21
	3/11/2010	5
	3/18/2010	52
	3/26/2010	18
	4/9/2010	23
	4/16/2010	746
	4/22/2010	60
	4/29/2010	147
	5/7/2010	450
	5/13/2010	1073
	5/18/2010	74
	5/27/2010	266
	6/3/2010	171
	6/10/2010	3564
	6/17/2010	368
	6/24/2010	1404
	7/8/2010	63
	7/15/2010	556
	7/23/2010	896
	7/27/2010	152
	8/5/2010	94
	8/12/2010	5141
	8/21/2010	42
	8/27/2010	68
	9/2/2010	123
	9/10/2010	633
	9/17/2010	195
	9/24/2010	163
	9/29/2010	79
	10/10/2010	729
	10/14/2010	7
	10/20/2010	45
	10/28/2010	7
	G Mean	141

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) During Bathing Season

Baseline Monitoring

Beach	Sampling date	E. coli count (cfu/100mL)
Ma Wan Tung	10/2/2008	3
	10/10/2008	1
	10/20/2008	3
	10/28/2008	8
	3/3/2009	520
	3/11/2009	150
	3/18/2009	720
	3/24/2009	840
	3/27/2009	110
	4/6/2009	82
	4/16/2009	23
	4/24/2009	29
	4/29/2009	3
	5/11/2009	4
	5/16/2009	120
	5/21/2009	27
	5/29/2009	410
	6/5/2009	110
	6/16/2009	210
	6/24/2009	760
	6/29/2009	450
	7/2/2009	10
	7/9/2009	39
	7/22/2009	20
	7/27/2009	780
	7/30/2009	8
	8/7/2009	90
	8/14/2009	80
	8/20/2009	120
	8/28/2009	3
	9/7/2009	8
	9/20/2009	97
	9/28/2009	35
	G Mean	46

First Year Operation Monitoring

Beach	Sampling date	E. coli count (cfu/100mL)
Ma Wan Tung	3/4/2010	4
	3/11/2010	1
	3/18/2010	4
	3/26/2010	1
	4/12/2010	38
	4/19/2010	37
	4/28/2010	8
	5/3/2010	16
	5/10/2010	550
	5/18/2010	4
	5/26/2010	29
	6/1/2010	40
	6/8/2010	1
	6/12/2010	110
	6/21/2010	25
	6/28/2010	320
	7/7/2010	15
	7/12/2010	4
	7/18/2010	140
	7/26/2010	8
	8/2/2010	68
	8/11/2010	10
	8/18/2010	8
	8/24/2010	200
	8/31/2010	16
	9/6/2010	6
	9/14/2010	110
	9/27/2010	120
	10/4/2010	18
	10/12/2010	4
	10/19/2010	12
	10/27/2010	10
	G Mean	17

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) Conducted by DSD

First Year Operation Monitoring

Sampling date	Beach						
	Anglers*	Approach	Casam	Gemini	Hoi Mei Wan	Lido	Ting Kau
	E. coli count (cfu/100mL)						
2-Mar-10	180	210	220	250	240	200	192
4-Mar-10	22	21	18	24	27	15	17
6-Mar-10	255	214	190	190	190	170	266
8-Mar-10	1300	839	300	220	290	290	725
10-Mar-10	112	41	23	14	14	15	33
12-Mar-10	12	45	17	15	12	15	50
14-Mar-10	91	51	52	54	58	55	53
16-Mar-10	1049	74	79	1000	890	78	73
18-Mar-10	60	58	43	18	74	35	37
20-Mar-10	13	13	12	15	20	8	13
22-Mar-10	223	176	140	110	240	109	121
25-Mar-10	330	10	25	390	203	26	6
26-Mar-10	47	20	54	55	23	81	28
28-Mar-10	6	56	79	6	13	59	76
30-Mar-10	57	57	57	46	44	59	52
13-Apr-10	160	133	150	160	130	130	130
16-Apr-10	84	1100	72	110	150	71	1011
19-Apr-10	46	59	140	66	67	140	52
22-Apr-10	839	764	730	850	850	780	720
25-Apr-10	43	300	300	51	47	260	290
28-Apr-10	115	110	110	83	96	110	117
4-May-10	640	7	610	990	6	99	16
7-May-10	594	235	360	580	550	320	269
10-May-10	2324	1697	2300	1800	2300	2000	287
13-May-10	76	73	70	64	65	90	80
17-May-10	880	120	800	850	400	680	141
19-May-10	1	849	110	150	19	19	219
22-May-10	507	40	590	550	460	400	69
25-May-10	1	1	1	1	1	1	1
27-May-10	2	45	71	46	29	23	22
30-May-10	69	71	55	43	100	89	64
3-Jun-10	71	40	320	76	360	240	43
6-Jun-10	5	6	36	49	31	65	16
9-Jun-10	383	263	3100	680	270	530	1217
12-Jun-10	26	459	87	30	22	92	552
15-Jun-10	97	235	180	250	110	960	325
18-Jun-10	447	271	420	410	470	400	288
21-Jun-10	130	31	53	7	45	37	17
24-Jun-10	89	86	86	85	140	82	61
27-Jun-10	543	1017	1300	1400	1400	850	577
30-Jun-10	115	489	260	1100	360	210	96
3-Jul-10	64	47	140	35	56	41	50
6-Jul-10	65	67	66	60	55	57	65
9-Jul-10	13	13	19	20	11	14	30
13-Jul-10	50	54	18	82	35	27	124
15-Jul-10	96	2569	62	120	71	85	2016
18-Jul-10	53	15	14	52	73	15	30
21-Jul-10	99	135	110	150	95	140	90
24-Jul-10	68	34	23	66	64	10	19
27-Jul-10	254	155	310	300	250	200	157
30-Jul-10	1	1	1	1	1	1	1

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) Conducted by DSD

First Year Operation Monitoring

Sampling date	Beach						
	Anglers'	Approach	Casam	Gemini	Hoi Mei Wan	Lido	Ting Kau
	<i>E. coli</i> count (cfu/100mL)						
2-Aug-10	239	35	190	150	110	220	114
5-Aug-10	8	10	4	14	12	15	7
8-Aug-10	149	745	46	116	119	32	628
10-Aug-10	54	40	34	25	25	25	24
14-Aug-10	137	8	23	160	130	320	6
17-Aug-10	20	77	10	46	15	10	23
20-Aug-10	26	18	21	32	30	33	21
23-Aug-10	286	51	130	120	140	230	106
26-Aug-10	79	49	48	63	80	52	45
29-Aug-10	129	138	120	170	120	100	113
1-Sep-10	105	94	110	120	100	89	123
4-Sep-10	106	94	98	100	98	130	125
7-Sep-10	43	43	660	110	75	42	104
10-Sep-10	146	122	250	120	110	150	124
13-Sep-10	170	75	100	100	340	90	104
16-Sep-10	44	42	48	43	32	42	36
19-Sep-10	18	33	46	16	12	24	16
22-Sep-10	6	14	17	75	59	51	15
25-Sep-10	219	151	480	250	220	260	2
28-Sep-10	89	86	180	160	100	140	115
1-Oct-10	388	139	180	530	150	16	28
4-Oct-10	90	90	82	97	77	88	86
7-Oct-10	560	24	590	370	490	31	25
10-Oct-10	318	439	360	560	550	560	509
13-Oct-10	138	127	137	125	113	134	132
16-Oct-10	5	1	1	5	10	1	2
19-Oct-10	24	25	31	40	19	115	20
22-Oct-10	418	504	480	520	310	650	582
25-Oct-10	11	18	14	11	12	19	9
28-Oct-10	54	39	46	41	54	31	40
31-Oct-10	30	33	33	18	17	19	32
3-Nov-10	40	38	39	50	37	36	38
9-Nov-10	726	695	520	600	550	630	710
15-Nov-10	3	1	1	2	2	6	2
21-Nov-10	289	42	43	41	49	48	293
27-Nov-10	110	115	22	12	21	14	132
3-Dec-10	12	9	8	15	23	13	13
9-Dec-10	105	19	31	130	85	82	17
15-Dec-10	55	44	38	30	40	48	45
21-Dec-10	295	467	350	310	420	310	538
27-Dec-10	59	78	68	61	75	74	80
2-Jan-11	263	296	240	100	110	230	236
8-Jan-11	11	16	8	13	9	7	8
20-Jan-11	16	29	15	9	8	7	20
22-Jan-11	50	61	17	30	57	46	43
26-Jan-11	108	7	24	4	1	2	4
1-Feb-11	2	40	4	1	1	1	28
7-Feb-11	1	1	4	3	2	2	1
13-Feb-11	115	85	130	120	120	130	104
19-Feb-11	72	105	72	87	131	172	103
25-Feb-11	5	86	3	1	5	7	44
G Mean	67	62	66	67	60	58	57

Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) Conducted by DSD During Bathing Season

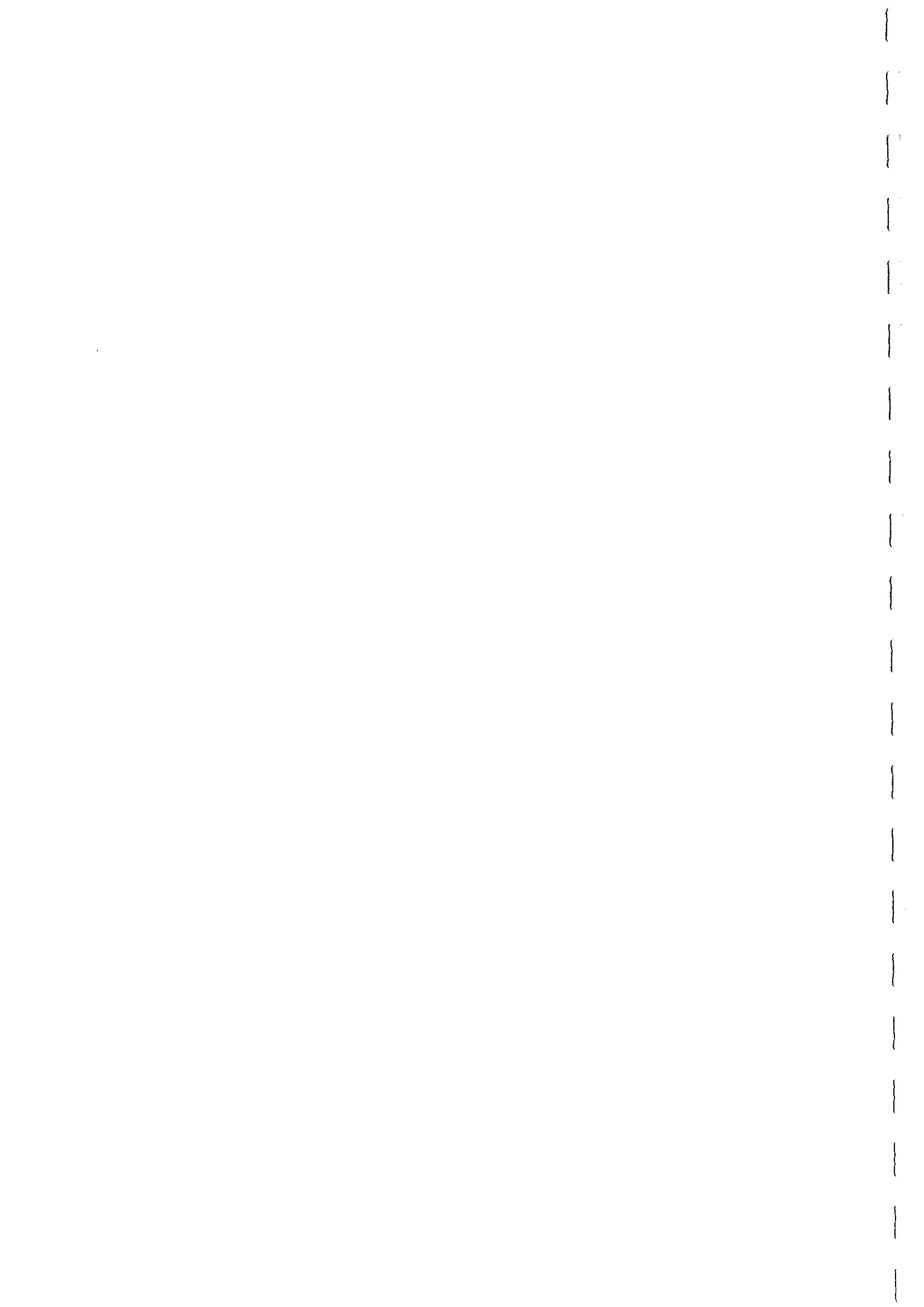
First Year Operation Monitoring

Sampling date	Beach						
	Anglers'	Approach	Casam	Gemini	Hoi Mei Wan	Lido	Ting Kau
	E. coli count (cfu/100mL)						
2-Mar-10	180	210	220	250	240	200	192
4-Mar-10	22	21	18	24	27	15	17
6-Mar-10	255	214	190	190	190	170	266
8-Mar-10	1300	839	300	220	290	290	725
10-Mar-10	112	41	23	14	14	15	33
12-Mar-10	12	45	17	15	12	15	50
14-Mar-10	91	51	52	54	58	55	53
16-Mar-10	1049	74	79	1000	890	78	73
18-Mar-10	60	58	43	18	74	35	37
20-Mar-10	13	13	12	15	20	8	13
22-Mar-10	223	176	140	110	240	109	121
25-Mar-10	330	10	25	390	203	26	6
26-Mar-10	47	20	54	55	23	81	28
28-Mar-10	6	56	79	6	13	59	76
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13-May-10	76	73	70	64	65	90	80
17-May-10	880	120	800	850	400	680	141
19-May-10	1	849	110	150	19	19	219
22-May-10	507	40	590	550	460	400	69
25-May-10	1	1	1	1	1	1	1
27-May-10	2	45	71	46	29	23	22
30-May-10	69	71	55	43	100	89	64
3-Jun-10	71	40	320	76	360	240	43
6-Jun-10	5	6	36	49	31	65	16
9-Jun-10	383	263	3100	680	270	530	1217
12-Jun-10	26	459	87	30	22	92	552
15-Jun-10	97	235	180	250	110	960	325
18-Jun-10	447	271	420	410	470	400	288
21-Jun-10	130	31	53	7	45	37	17
24-Jun-10	89	86	86	85	140	82	61
27-Jun-10	543	1017	1300	1400	1400	850	577
30-Jun-10	115	489	260	1100	360	210	96
3-Jul-10	64	47	140	35	56	41	50
6-Jul-10	65	67	66	60	55	57	65
9-Jul-10	13	13	19	20	11	14	30
13-Jul-10	50	54	18	82	35	27	124
15-Jul-10	96	2569	62	120	71	85	2016
18-Jul-10	53	15	14	52	73	15	30
21-Jul-10	99	135	110	150	95	140	90
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Appendix H - E. coli Monitoring Records (Beaches along Tsuen Wan Coast) Conducted by DSD During Bathing Season

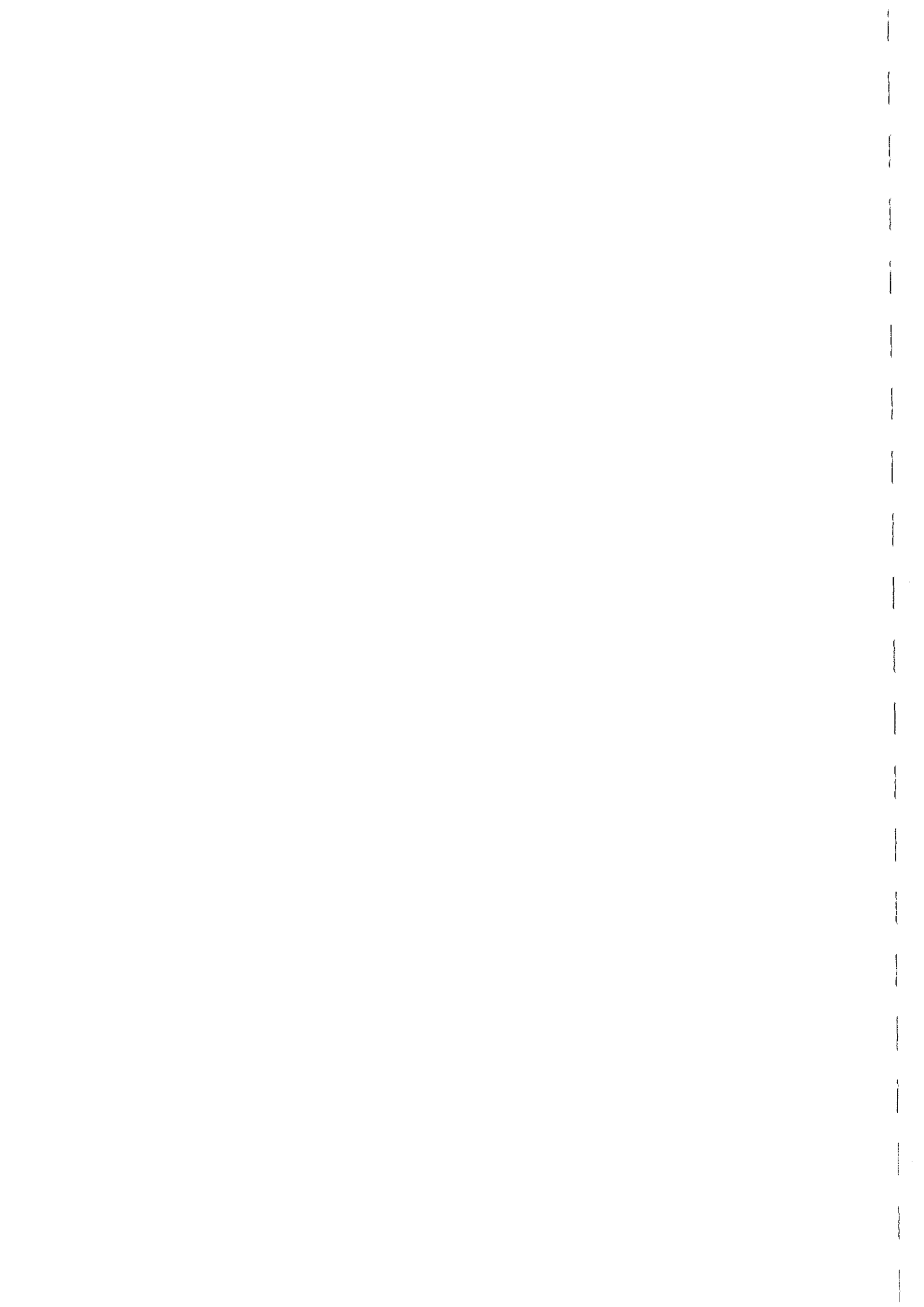
First Year Operation Monitoring

Sampling date	Beach						
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	<i>E. coli</i> count (cfu/100mL)						
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8-Aug-10	149	745	46	116	119	32	628
10-Aug-10	54	40	34	25	25	25	24
14-Aug-10	137	8	23	160	130	320	6
17-Aug-10	20	77	10	46	15	10	23
20-Aug-10	26	18	21	32	30	33	21
23-Aug-10	286	51	130	120	140	230	106
26-Aug-10	79	49	48	63	80	52	45
29-Aug-10	129	138	120	170	120	100	113
1-Sep-10	105	94	110	120	100	89	123
4-Sep-10	106	94	98	100	98	130	125
7-Sep-10	43	43	660	110	75	42	104
10-Sep-10	146	122	250	120	110	150	124
13-Sep-10	170	75	100	100	340	90	104
16-Sep-10	44	42	48	43	32	42	36
19-Sep-10	18	33	46	16	12	24	16
22-Sep-10	6	14	17	75	59	51	15
25-Sep-10	219	151	480	250	220	260	2
28-Sep-10	89	86	180	160	100	140	115
1-Oct-10	388	139	180	530	150	16	28
4-Oct-10	90	90	82	97	77	88	86
7-Oct-10	560	24	590	370	490	31	25
10-Oct-10	318	439	360	560	550	560	509
13-Oct-10	138	127	137	125	113	134	132
16-Oct-10	5	1	1	5	10	1	2
19-Oct-10	24	25	31	40	19	115	20
22-Oct-10	418	504	480	520	310	650	582
25-Oct-10	11	18	14	11	12	19	9
28-Oct-10	54	39	46	41	54	31	40
31-Oct-10	30	33	33	18	17	19	32
G Mean	76	69	82	86	75	70	63



APPENDIX I

Benthic Survey Summary and Analysis of Changes of Benthic Community



Appendix I Benthic Survey Summary and Analysis of Changes of Benthic

Community

1 BACKGROUND INFORMATION

- 1.1 The total abundance and total biomass (wet weight) of each faunal group, the relative abundance of each faunal group in each sampling time (in percentage) are summarized in Annex A – Table 1.
- 1.2 The relative abundance of faunal groups at every sampling station in each sampling time is given in Annex A – Table 2.
- 1.3 Species density, abundance per m², wet weight per m², Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every sampling station in each sampling time were presented in Table 3 of Annex A.
- 1.4 Graphical plot for the number of species in density, abundance in density, wet weight in density, H' and J values at each sample station in each sampling time are shown in Figure 1A, Figure 1B, Figure 1C, Figure 1D, Figure 1E of Annex A respectively.
- 1.5 Graphical plot of the Mean values of Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) of each station group, are shown in Figure 2A and Figure 2B of Annex A respectively. Non-metric Multi-Dimensional Scaling (MDS) plot of benthic communities of all station groups are displayed in Figure 3 of Annex A.

2 SPATIAL ANALYSIS OF BENTHIC COMMUNITIES

- 2.1 Figure 2 in Annex A shows the mean H' (Figure 2A) and J (Figure 2B) of each station group (near field, mid field, far field) across all sampling times. Statistic analysis by ANOVA indicated that the mean H' (ANOVA, p > 0.05) and J (ANOVA, p > 0.05) did not show significant differences among the three station groups.
- 2.2 Figure 3 in Annex A shows the non-metric MDS plot of benthic communities of three station groups (near field, mid field, far field) in all sampling times. By looking at the data points on MDS plot, six groups of benthic community (difference time period) corresponding with the three station groups (NF = near field, MF = mid field, FF = far field) were generally mixed up and did not shown distinct separation. This data point distribution pattern suggested that the benthic communities did not show distinct spatial differences.
- 2.3 Figure 4 in Annex A shows six MDS plots of benthic communities of the three station groups in individual sampling time. In the MDS plots of October 2008 and July 2009, the Bray-Curtis

Similarity (BC Similarity) Index of the three stations groups followed its spatial distance. It is suggested the benthic communities shows certain spatial differences. The benthic communities at near field stations were somewhat distinct from those of other stations. However, there was no such pattern in February 2010, July 2010, January 2011 and September 2012.

- 2.4 In the MDS plot of February 2010, two of the near field data points (station 3 & 4) and one of the fair field points (station SS4) was distant from the others, it was because the total benthic fauna abundance at station 3, 4 & SS4 was lesser than those of others, moreover, there are only one species *Donax sp.* (2 nos) was recorded at sampling station 4.
- 2.5 In the MDS plot of January 2011, one of the near field data points was distant from the others (overlapping). By reviewing the benthic community data, one single species *Paradoneis spp.* presented by a relatively large number of individuals (23 nos) at one of the near field station, which (data "noise") was likely contributed to the unique spatial pattern of the time. It may not indicate that the benthic community at one of the near field station was significantly different from the others.
- 2.6 In the MDS plot of Sep 2011, one of the near field data points (NF) and one of the mid field data point (MF) was close each other and distant from the others. It was likely contributed by unusual high abundance of *Ruditapes philippinarum* (126 nos) and *Aglaophamus inermis* (60 nos) has been recorded at NF and MF in Sep 2011 respectively.

3 TEMPORAL ANALYSIS OF BENTHIC COMMUNITIES

- 3.1 Graphic presentation of values of H' and J from time serious sampling (Oct 08, Jul 09, Feb10, Jul 10, Jan 11, Sep 11) are give in Figure 5 in Annex A. The H' in July 2009 (mean 2.61) was higher than the rest of the sampling times at mid and far field sites. Results of statistic analysis showed significant temporal changes for diversity of the benthic communities as detected by ANOVA, $p < 0.05$.
- 3.2 The species evenness (J values) in October 2008 (mean 0.60) was the lowest record, and high J values recorded in July 2009 (mean 0.84), July 2010 (mean 0.90) and January 2011 (mean 0.89) respectively. Temporal variation in species evenness was significant as tested by ANOVA analysis, $p < 0.05$.
- 3.3 Figure 6 in Annex A shows MDS plots of individual station group across all sampling times. Temporal changes of benthic communities were noticed in each station group, regardless the time before or after ADF operation in Stonecutter Island.

4 ANALYSIS OF IMPACT FROM ADF OPERATION ON BENTHIC FAUNA

- 4.1 According to the statistical results of present analysis, there was no significant spatial difference of benthic communities among near field, mid field and far field stations. The mean species diversity (H') and species evenness (J) of each station group across all sampling times were not significantly different (ANOVA, $p > 0.05$).
- 4.2 There were temporal changes of benthic community pattern among the sampling times, regardless of sampling stations. The biodiversity index (mean H' : 1.28) and species evenness (mean J : 0.60) were low in October 2008 (dry season). Both increased significantly (mean H' : 2.61, J : 0.84) in July 2009 (wet season), then remained similar in February 2010 (mean H' : 2.10, J : 0.74), July 2010 (mean H' : 1.91, J : 0.9), January 2011 (mean H' : 2.36, J : 0.89). Both return to low level (mean H' : 1.22, J : 0.65) in September 2011 (wet season). The mean H' and J among the sampling times were show significant different (ANOVA, $p < 0.05$). The apparent change in species biodiversity was appeared before operation of ADF.
- 4.3 At the near field stations (station 1, 2, 3, 4), there are high abundance of bivalve *Ruditapes philippinarum* in October 2008 while this species was reported a typical inhabitant in nutrient-rich waters. It reflected that a eutrophic environment should be present at the near field stations. Since July 2009, it was dominated by 2 to 3 species of polychaetes but no species characterized the benthic community.
- 4.4 Similar to near field stations, the mid field stations (station WS1, VS6), was also dominated by eutropic-like bivalve *Ruditapes philippinarum* in October 2008 that nutrient-rich environment might be present. Since July 2009, the dominant species was replaced by 2-3 species of polychaetes.
- 4.5 At the far field stations (station SS3, SS4), it was mainly dominated by polychaete *Glycera onomichiensis* and crab *Eucreta crenata*. But the no. of species was rapid increased in July 2009, which leaded to higher H' and J . In July 2010, both number of species and abundance declined. In January 2011, polychaetes *Praxillela spp* and *Glycera onomichiensis* became dominant. Among these dominant species, polychaetes *Glycera spp.* and *Lumbrineris spp.* were less selective carnivores that presented in low density without variation with time. Polychaete *Aglaophamus inermis* was sensitive specialist carnivore that presented under unpolluted condition. It indicated unpolluted condition at far field stations.
- 4.6 By analyzing benthic data collected from before and after ADF operation, the impact of ADF operation on benthic fauna was assessed.

- 4.7 Statistic analysis by ANOVA indicated that the benthic biodiversity (mean H'; ANOVA, $p > 0.05$) and evenness (mean J; ANOVA, $p > 0.05$) of six sampling time (before and after operation of ADF) did not show significant differences.
- 4.8 MDS plots of data from Near Field sampling stations showed no distinct separation between samples collected before and after operation of ADF, only one out of four Near Field stations (stations 1 - 4) for October 2008 and February 2010 showed separation from the rest of sampling stations (Figure 6A in Annex A).
- 4.9 MDS plots of data from Mid Field sampling stations showed partial separation of benthic fauna patterns, i.e., plots of October 2008 and September 2011 were apparently separated from those of sampling time. While, plots of July 2009 (before operation of ADF) and those of January 2011 (after operation of ADF) were close each other. Similarly pattern showed for plots of February 2010 and July 2010.
- 4.10 MDS plots of data from Far Field sampling stations only showed partial separation of benthic fauna patterns, i.e., plots of October 2008 were apparently separated from all other plots plots of 2009 (before operation of ADF) and those of July 2010, 2011 (after operation of ADF) were not separated in two dimensional graphical display.
- 4.11 We would have a few expectations of the induced changes due to the discharge of chlorinated effluent, such as decline of biodiversity and evenness of benthic community, or change of species composition to more stressed pattern. According to the results, no difference was found between station groups (near, mid, far). The change of species composition does not indicate increased stress level (e.g. more tolerant species). We found no adverse change of benthic communities in the survey area after ADF operation. There is no apparent evidence showing that the change of benthic community is related to ADF operation. Those changes of benthic communities were not in phase with the ADF operation while seasonal effect would be a more suitable explanation.
- 4.12 Although there was significant change of benthic communities at near field, mid field and far field stations, temporal changes of benthic communities were noticed in each station group regardless the time before or after ADF operation in Stonecutter Island, it was believed a natural, seasonal succession of benthic communities. Based on ANOVA test and Non-metric Multi-Dimensional Scaling analysis of data, the benthic faunal assemblages did not show distinct difference before and after operation of ADF. It can be assessed that the operation of ADF since February 2010 did not induce significant impact on benthic community structures. No sign of pollution was noticed that the health status of benthic community was normal under no threatening stress. Hence impact of ADF operation was not noticeable.

5 CONCLUSION

- 5.1 The statistic data analysis showed that there was no significant spatial difference of benthic communities among near field, mid field and far field stations.
- 5.2 Although there was significant change of benthic communities at near field, mid field and far field stations, temporal changes of benthic communities were noticed in each station group regardless the time before or after ADF operation in Stonecutter Island, it was believed a natural, seasonal succession of benthic communities. Based on ANOVA test and Non-metric Multi-Dimensional Scaling analysis of data, the benthic faunal assemblages did not show distinct difference before and after operation of ADF. It can be assessed that the operation of ADF since February 2010 did not induce significant impact on benthic community structures. No sign of pollution was noticed that the health status of benthic community was normal under no threatening stress. Hence impact of ADF operation was not noticeable.

Annex A -- Benthic Survey Summary and Graphical Presentation of Analysis Results of Changes of Benthic Community

Table 1: Total abundance and total wet weight of each faunal group in each sampling time

	<u>phylum</u>	<u>Abundance (ind.)</u>	<u>%</u>	<u>Wet Weight (g)</u>	<u>%</u>
<u>Oct-08</u>	Annelida	166	40	8.2272	2
	Arthropoda	61	15	21.7544	5
	Chordata	5	1	14.526	3
	Cnidaria	1	0	4.6766	1
	Mollusca	182	43	383.569	89
	Nemertinea	5	1	0.1431	0
	Subtotal	420		432.8963	
<u>Jul-09</u>	Annelida	581	77	12.6085	5
	Arthropoda	61	8	13.3572	6
	Chordata	9	1	2.2805	1
	Cnidaria	3	0	53.9516	23
	Echinodermata	1	0	0.0942	0
	Mollusca	58	8	153.181	65
	Nemertea	38	5	0.4976	0
	Sipuncula	8	1	0.2501	0
	Subtotal	759		236.2207	
<u>Feb-10</u>	Annelida	675	95	9.0754	11
	Arthropoda	15	2	22.6704	26
	Echinodermata	11	2	4.6432	5
	Mollusca	7	1	50.0154	58
	Subtotal	708		86.4044	
<u>Jul-10</u>	Annelida	140	79	6.6024	13
	Arthropoda	16	9	10.8651	21
	Echinodermata	13	7	0.6706	1
	Gastropoda	1	0	3.6874	7
	Mollusca	8	5	29.6611	58
	Subtotal	178		51.4866	
<u>Jan-11</u>	Annelida	382	93	10.8673	38
	Animalia	4	1	0.2697	1
	Arthropoda	14	4	16.1603	56

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	Mollusca	10	3	1.4824	5
	Subtotal	410		28.7797	
Sep-11	Annelida	223	57	1.9055	1
	Arthropoda	5	1	1.8137	1
	Echinodermata	2	0	0.0905	0
	Mollusca	163	42	144.47913	98
	Subtotal	393		148.28883	
	Total	2868		984.07653	

0 %: total individual / biomass of the faunal group is less than 1% of that of all specimens

Table 2: The relative abundance of faunal groups at every sampling station in each sampling time

	<u>1 (NF)</u>	<u>2 (NF)</u>	<u>3 (NF)</u>	<u>4 (NF)</u>	<u>WS1 (MF)</u>	<u>VS6 (MF)</u>	<u>SS3 (FF)</u>	<u>SS4 (FF)</u>
<u>Oct 08 (dry)</u>								
Annelida	20		6	68	22	6	13	31
Arthropoda	1			8	13	2	27	10
Chordata	1			2	1		1	
Cnidaria								1
Mollusca	86	17	16	1	10	34	1	17
Nemertinea					2	1		2
<u>Ju 109 (wet)</u>								
Annelida	34	28	43	30	53	38	175	180
Arthropoda	18	7		6	6	4	6	14
Chordata	1	1	1		1	2	1	2
Cnidaria				3				
Echinodermata								1
Mollusca		8		50				
Nemertea	4			1	12	4	9	8
Sipuncula					1		2	5
<u>Feb 10 (dry)</u>								
Annelida	107	121	25		118	112	180	12
Arthropoda	1	3	1			6	4	
Echinodermata					7		4	
Mollusca	1		3	2			1	
<u>Jul 10 (wet)</u>								
Annelida	35		6	16	24	18	19	22
Arthropoda	4	1		3	1	3	2	2
Echinodermata				2	1		6	4
Gastropoda						1		
Mollusca		2				3		3
<u>Jan 11 (dry)</u>								
Annelida	77	28	72	52	38	53	37	25
Animalia			2				1	1
Arthropoda		5	5	1			1	2
Mollusca	2	4		1		2	1	

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Sep 11 (wet)

Annelida	27	11	12	25	5	6	90	47
Arthropoda		5						
Echinodermata								2
Mollusca	1	127	2	1	1	28	3	

0 %: Relative abundance of the faunal group is less than 1% of all specimens at the sampling station

Table 3: Species density, abundance per m², wet weight per m², Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every sampling station in each sampling time.

	<u>Sampling site</u>	<u>Oct08 (dry)</u>	<u>Jul09 (wet)</u>	<u>Feb10 (dry)</u>	<u>Jul10 (wet)</u>	<u>Jan11 (dry)</u>	<u>Sep11 (wet)</u>
Number of Species (spp. / 0.8 m ²)	1 (NF)	9	20	23	17	17	9
	2 (NF)	2	21	22	2	17	8
	3 (NF)	5	11	16	6	18	8
	4 (NF)	9	15	1	13	14	4
	WS1 (MF)	10	23	18	5	10	3
	VS6 (MF)	9	22	21	15	11	5
	SS3 (FF)	9	34	27	11	17	9
	SS4 (FF)	16	40	7	9	11	12
Abundance (ind. / m ²)	1 (NF)	135	71	136	49	99	35
	2 (NF)	21	55	155	4	46	179
	3 (NF)	28	55	36	8	99	18
	4 (NF)	99	113	3	26	68	33
	WS1 (MF)	60	91	156	33	48	8
	VS6 (MF)	54	60	148	31	69	43
	SS3 (FF)	53	241	236	34	50	117
	SS4 (FF)	76	263	15	39	35	31
Wet weight (g / m ²)	1 (NF)	339.5	6	16.67	7.06	1.59	0.53
	2 (NF)	4.55	41.95	2.59	6.76	4.49	165.89
	3 (NF)	40.95	0.32	21.33	2.72	11.60	1.10
	4 (NF)	2.68	224.98	25.44	2.42	1.67	0.08
	WS1 (MF)	56.69	6	6.74	0.29	2.26	0.12
	VS6 (MF)	49.32	3.66	17.35	26.53	1.45	16.48
	SS3 (FF)	20.76	7.32	17.47	1.92	3.71	0.65
	SS4 (FF)	26.67	5.05	0.41	16.66	9.19	0.52
Shannon-Weaver Diversity Index H'	1 (NF)	0.96	2.77	2.47	2.56	2.35	1.74
	2 (NF)	0.22	2.83	2.79	0.64	2.65	0.59
	3 (NF)	1.06	1.63	2.6	1.79	2.50	2
	4 (NF)	1.26	1.8	0	2.44	2.22	0.67
	WS1 (MF)	1.85	2.93	2.36	1.08	2.18	0.87
	VS6 (MF)	1.07	2.88	2.26	2.64	2.21	1
	SS3 (FF)	1.6	3.05	2.6	2.20	2.60	1.24
	SS4 (FF)	2.22	3.01	1.75	1.89	2.16	1.67

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Pielou's Species	1 (NF)	0.44	0.92	0.79	0.90	0.83	0.79
Evenness J	2 (NF)	0.32	0.93	0.9	0.92	0.93	0.28
	3 (NF)	0.66	0.68	0.94	1.00	0.86	0.98
	4 (NF)	0.57	0.66	0	0.95	0.84	0.49
	WS1 (MF)	0.8	0.94	0.82	0.67	0.95	0.79
	VS6 (MF)	0.49	0.93	0.74	0.98	0.92	0.62
	SS3 (FF)	0.73	0.86	0.79	0.92	0.92	0.57
	SS4 (FF)	0.8	0.82	0.9	0.86	0.90	0.67

NF: Near Field; MF: Mid Field; FF: Far Field

dry: dry season; wet: wet season

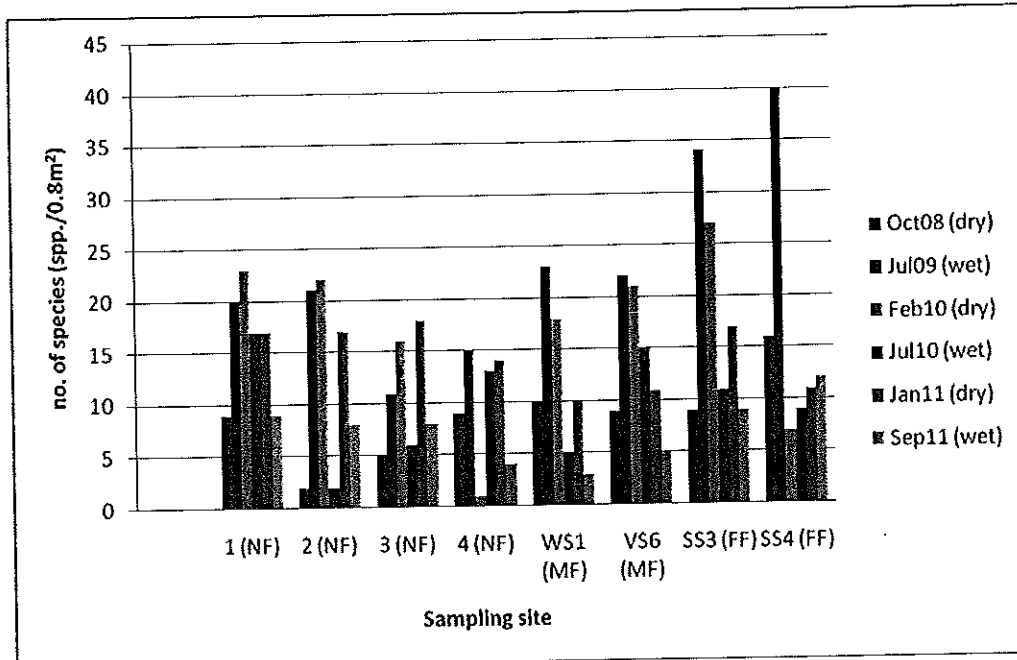


Figure 1A

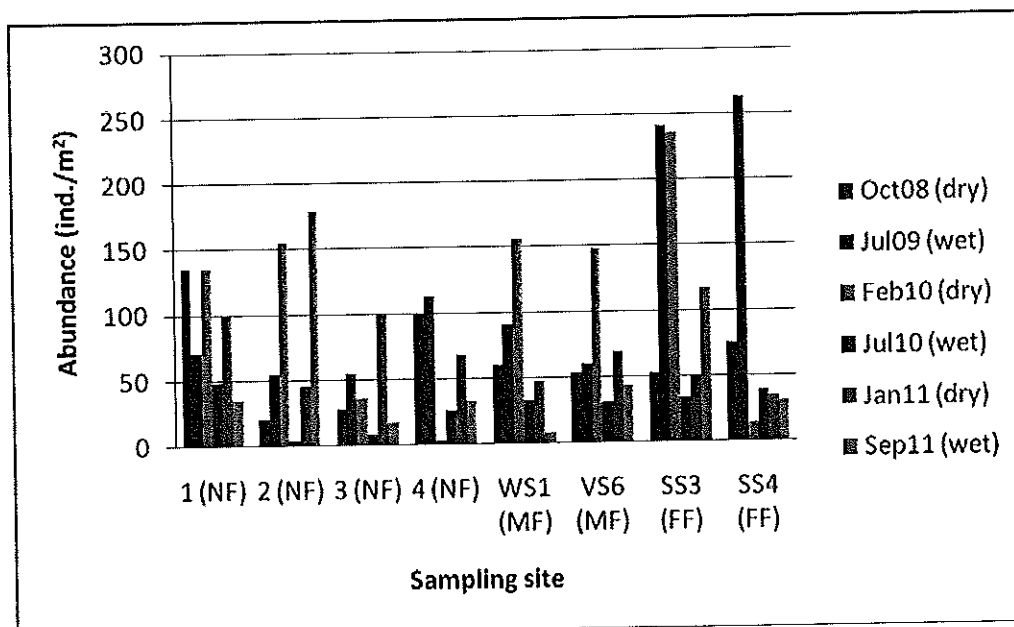


Figure 1B

Figure 1: Number of species (Figure 1A), abundance (Figure 1B), wet weight (Figure 1C), Shannon-Weaver Diversity Index (H') (Figure 1D) and Pielou's Species Evenness (J) (Figure 1E) at every sampling station in each sampling time.
(NF : Near Field; MF : Mid Field ; FF: Far Field, dry: dry season; wet: wet season)

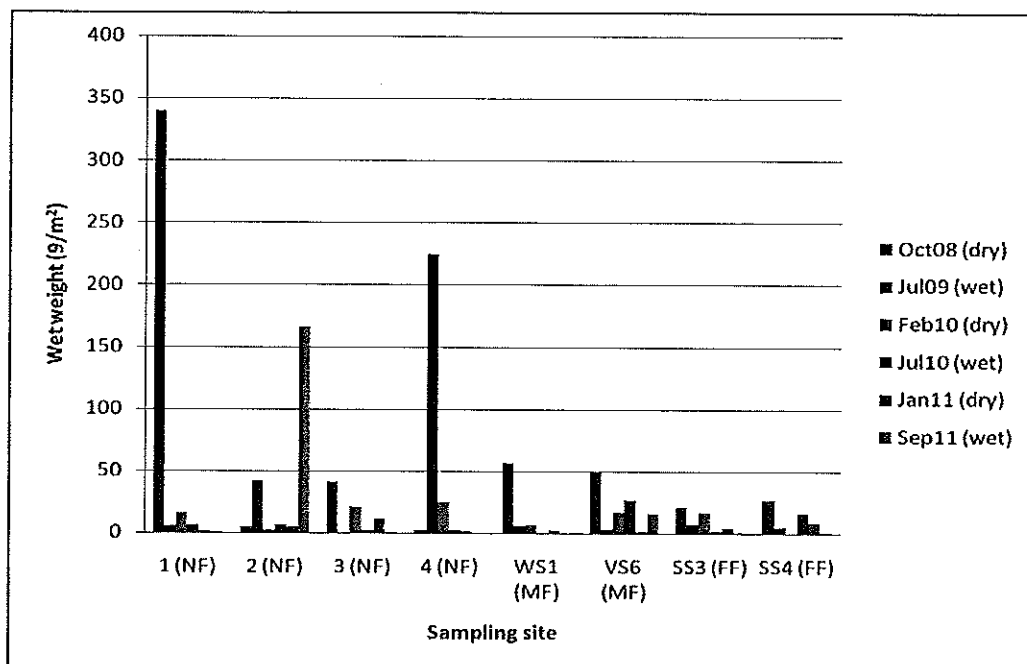


Figure 1C

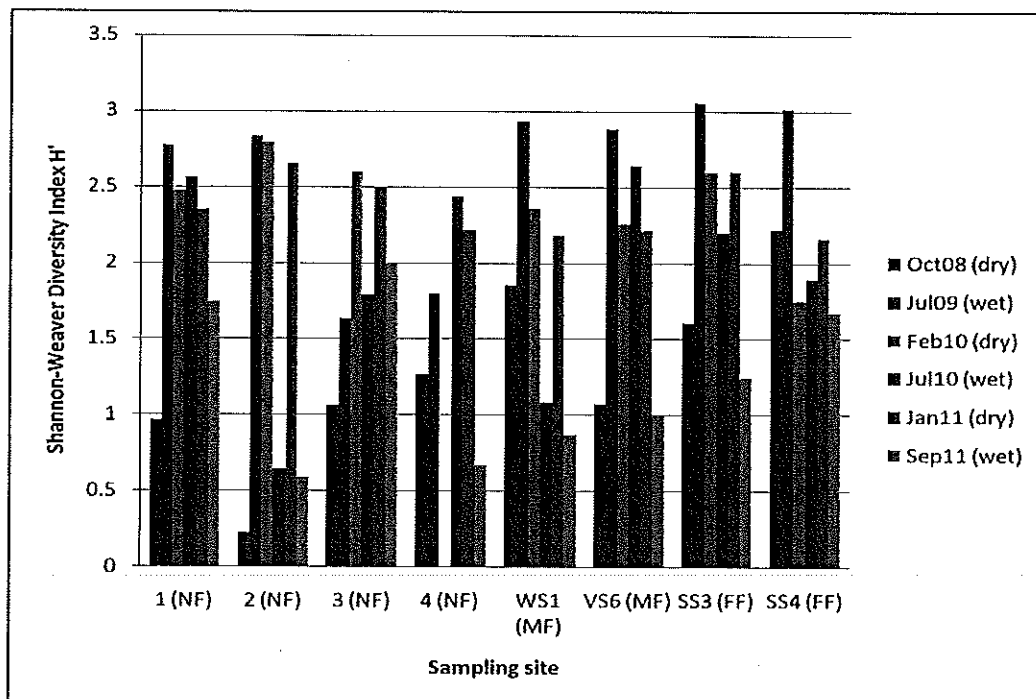


Figure 1D

Figure 1 (cont'd): Number of species(Figure 1A), abundance (Figure 1B), wet weight (Figure 1C), Shannon-Weaver Diversity Index (H') (Figure 1D) and Pielou's Species Evenness (J) (Figure 1E) at every sampling station in each sampling time.

(NF : Near Field; MF : Mid Field ; FF: Far Field, dry: dry season; wet: wet season)

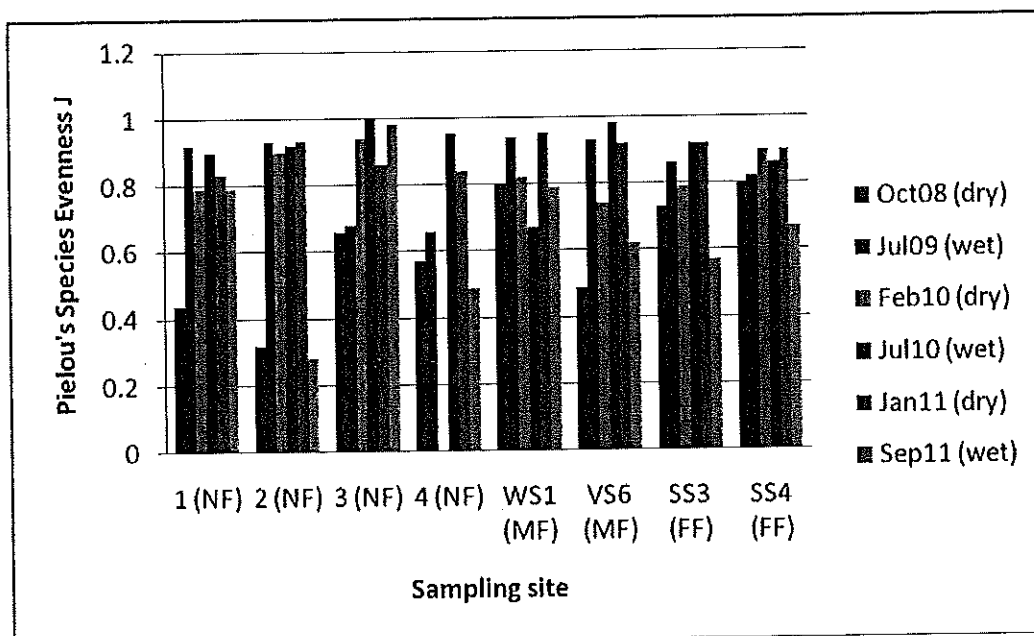


Figure 1E

Figure 1 (cont'd): Number of species(Figure 1A), abundance (Figure 1B), wet weight (Figure 1C), Shannon-Weaver Diversity Index (H') (Figure 1D) and Pielou's Species Evenness (J) (Figure 1E) at every sampling station in each sampling time.
(NF : Near Field; MF : Mid Field ; FF: Far Field, dry: dry season; wet: wet season)

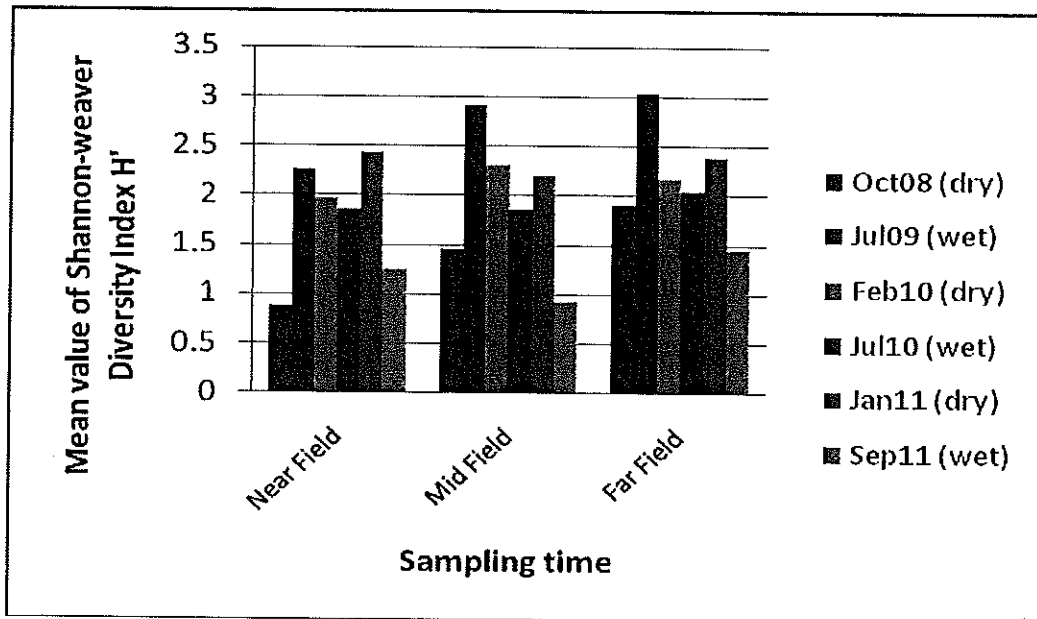


Figure 2A

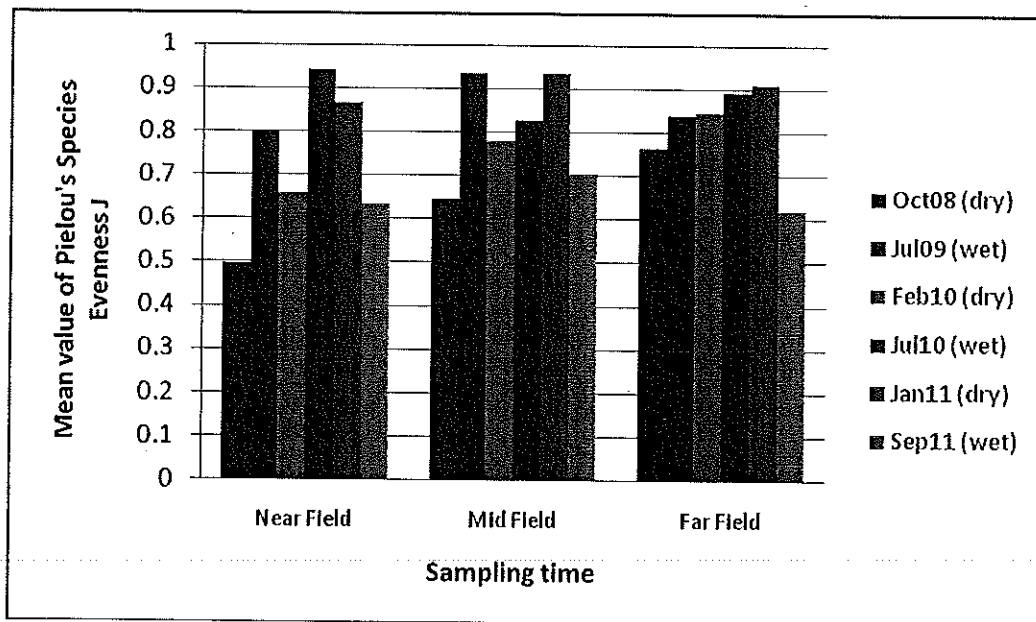


Figure 2B

Figure 2: Mean values of Shannon-Weaver Diversity Index (H') (Figure 2A) and Pielou's Species Evenness (J) (Figure 2B) at each station group (near field, mid field, far field) across all sampling times (dry: dry season; wet: wet season).

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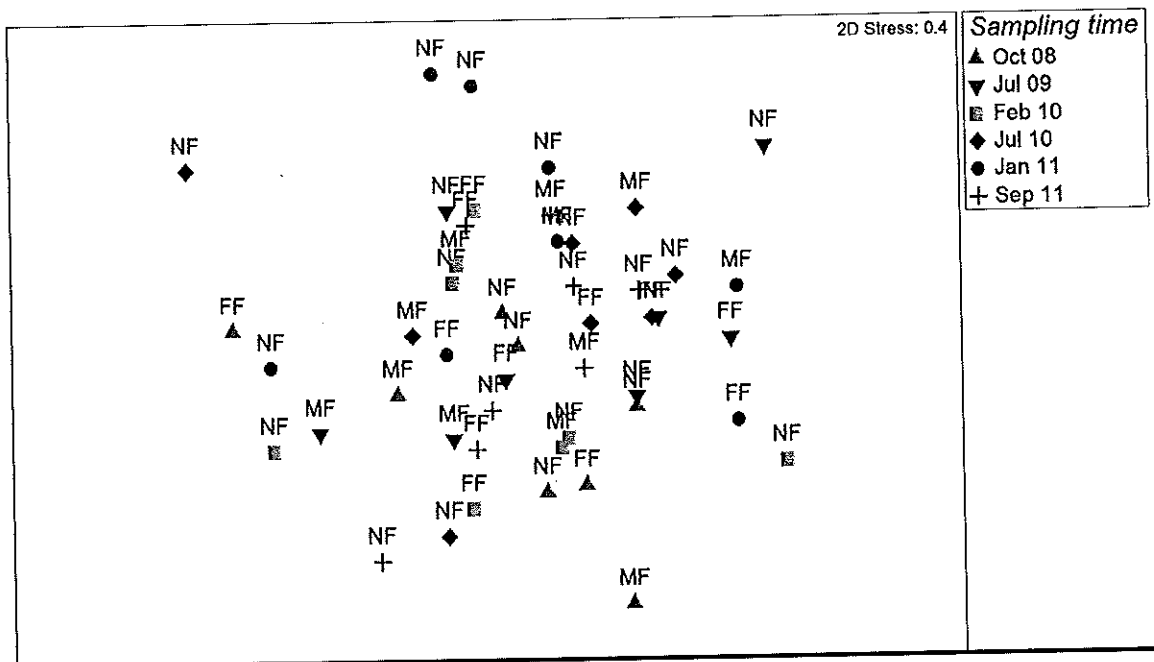
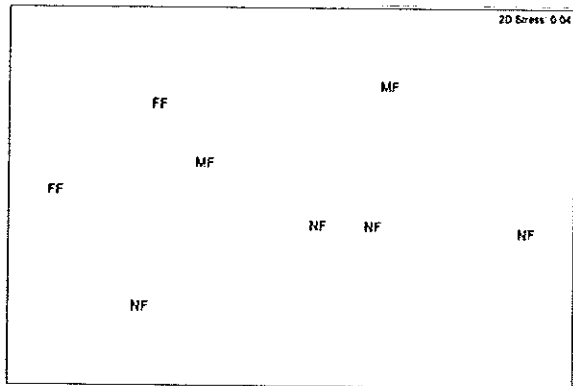


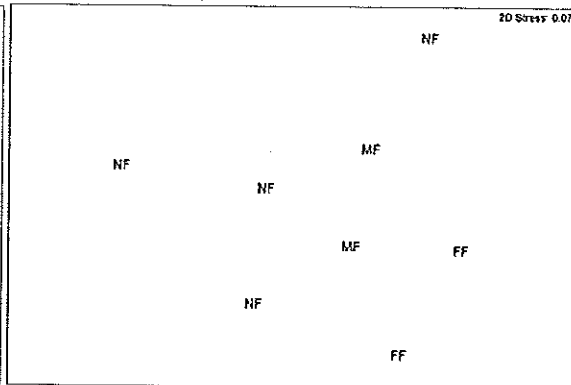
Figure 3: Non-metric Multi-Dimensional Scaling (MDS) plot of benthic communities of all station groups (NF: near field, MF: mid field, FF: far field) in all sampling times (Oct08, Jul09, Feb10, Jul10, Jan11, Sep11).

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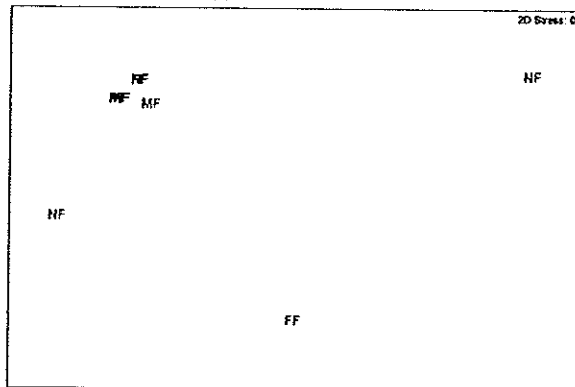
October 2008 (dry)



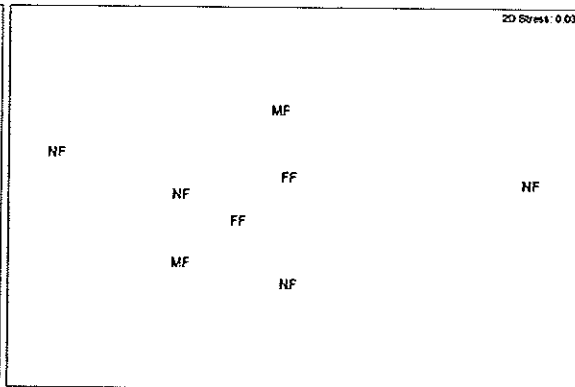
July 2009 (wet)



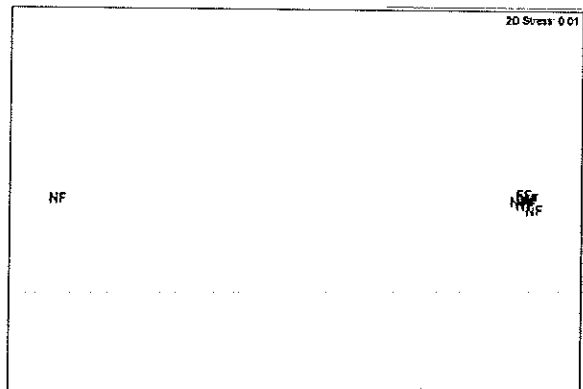
February 2010 (dry)



July 2010 (wet)



January 2011 (dry)



September 2011 (wet)

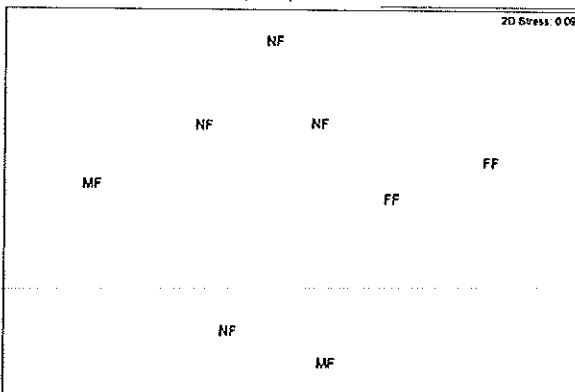


Figure 4: Non-metric Multi-Dimensional Scaling (MDS) plots of benthic communities of every station group (NF: near field, MF: mid field, FF: far field) in individual sampling time.

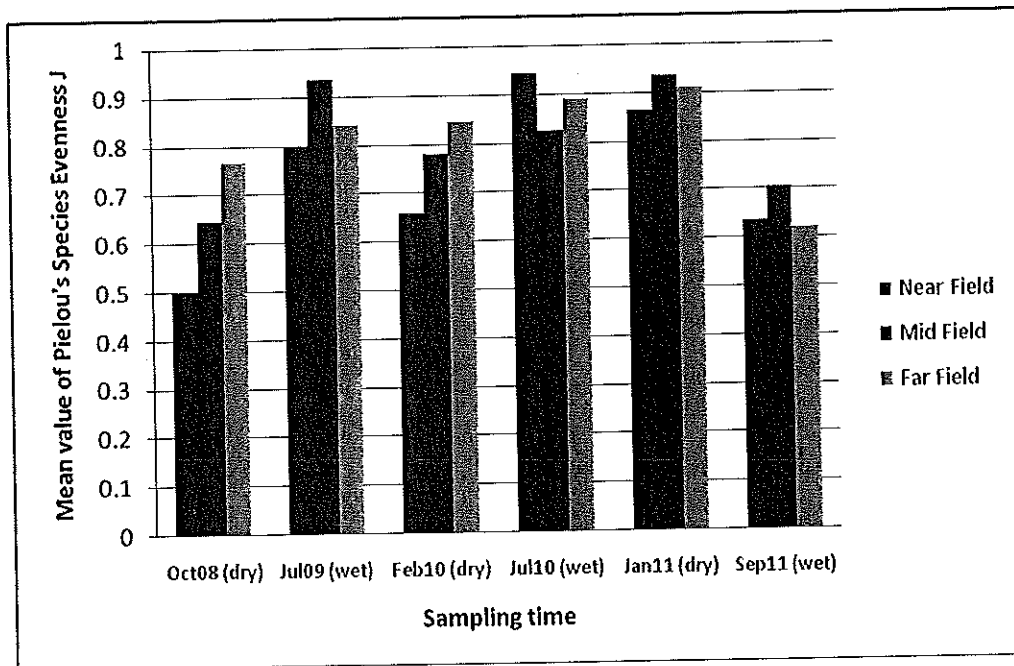
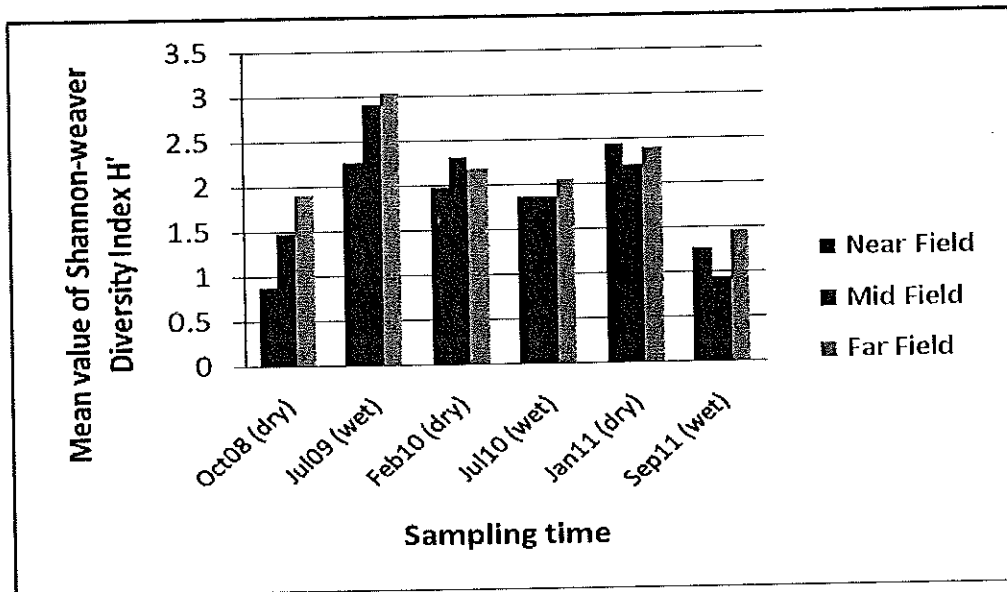


Figure 5: Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) in each sampling time (Oct 08, Jul 09, Jul 10, Jan 11) among three station groups (near field, mid field, far field). Sampling times with same letters (a, b) are not significantly different ($p > 0.05$) in ANOVA and pairwise comparison Tukey Test.

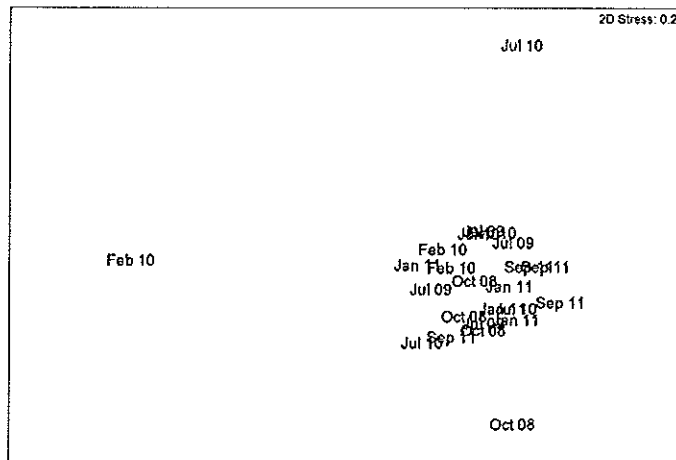


Figure 6A. MDS plot of Near Field stations.

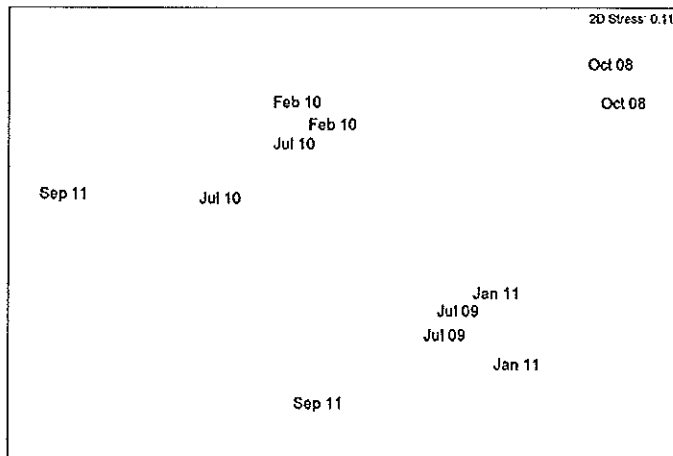


Figure 6B. MDS plot of Mid Field stations.

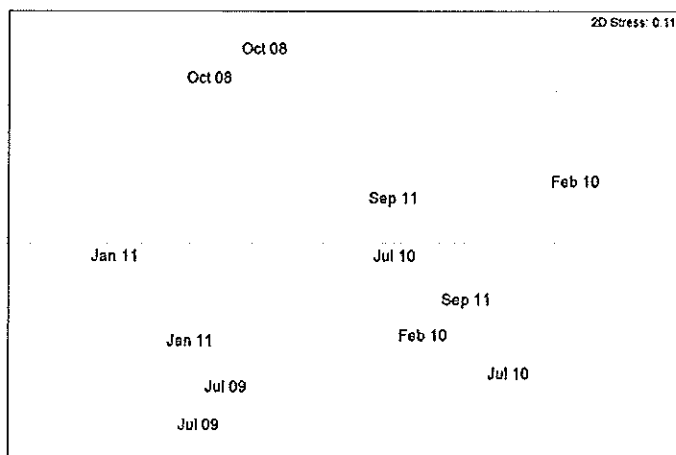


Figure 6C. MDS plot of Far Field stations.

Figure 6 A-C: Non-metric Multi-Dimensional Scaling (MDS) plots of benthic communities in three sampling station groups. Data derived from six sampling time from 2008 to 2011.

