



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up
X_W196	28-Jan-11	Mid-ebb	WSD15	DO (mg/L)	6.59	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Silt screen was in proper condition during monitoring. In the view of no exceedance recorded at the monitoring Stations near the marine works area of Contract no.HY/2009/11, it is considered not related to the Project.
				Turbidity	3.79	8.04	9.49	
				Suspended Solid	16.50	13.00	14.43	
X_W198	11-Feb-11 11:00a.m.	Mid-flood	WSD21	DO (mg/L)	7.09	3.66	3.28	Possible reason: Local buckling of western sheetpile temporary seawall at WCR1 (In front of the intakes) recorded at 9:26 on 11 Feb 2011. Action taken / to be taken: Contractor immediately installed the silt curtain along the buckling sheetpile seawall to limit further dispersion of muddy water on 11 Feb afternoon. Remarks / Other Obs: The exceedances was confirmed related to contractor causing the local buckling of western sheetpile seawall at WCR1. No further turbidity exceedance was recorded in the next consecutive monitoring (Turbidity:4.89NTU on 11 Feb 2011 at mid-ebb tide). ET further checked and confirmed the mitigation measures on 17 Feb 2011. Close monitoring on contractor mitigation and the variation of water quality results was then maintained.
				Turbidity	8.27	8.04	9.49	
				Suspended Solid	5.00	13.00	14.43	
X_W199	11-Feb-11	Mid-ebb	WSD15	DO (mg/L)	7.37	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Silt screen was in proper condition during monitoring. In the view of no exceedance recorded at the monitoring Stations near the marine works area of Contract no.HY/2009/11, it is considered not related to the Project.
				Turbidity	7.94	8.04	9.49	
				Suspended Solid	28.00	13.00	14.43	
X_W200	16-Feb-11	Mid-flood	WSD21	DO (mg/L)	7.47	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Checked and confirmed that the dredging rate at Submarine Sewage Pipeline was complied with EP condition; Remarks / Other Obs: Silt screen was in proper condition during the monitoring; Comparing with the monitoring station next to WSD21, no exceedance was recorded in C5e and C5w which are closer to the site works. It is concluded as not related Project.
				Turbidity	6.05	8.04	9.49	
				Suspended Solid	13.50	13.00	14.43	



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C199	31-Jan-11	Mid-ebb	C8	DO (mg/L)	6.62	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the Contractor works and no dredging work was undertaken after 23:00. Remarks / Other Obs: Silt curtain was in proper condition during the monitoring. It is concluded as not related Project.
				Turbidity (NTU)	9.89	9.1	10.25	
				SS (mg/L)	6.50	15.00	22.13	
X_10C200	31-Jan-11	Mid-flood	C6	DO (mg/L)	6.64	3.36	2.73	Possible reason: Accumulation of particles from outfalls near the monitoring station Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results; The silt screen and silt curtain were observed in proper condition during the water monitoring. No exceedance was recorded in the next consecutive monitoring. Remarks / Other Obs: It is considered that exceedance was not related to the project work due to the particles from outfalls near monitoring station.
				Turbidity (NTU)	10.38	9.1	10.25	
				SS (mg/L)	14.50	15.00	22.13	
X_10C202	7-Feb-11 10:56 a.m.	Mid-flood	C6	DO (mg/L)	5.89	3.36	2.73	Possible reason: Crack on silt screen structure lead to ingress of unscreened polluted water directly to the intake created by frequent vessel movement on shallow water (3m depth recorded during monitoring) in Causeway Bay Typhoon Shelter Action taken / to be taken: Based on contractor's site record received on 15 Feb 2011, daily dredging rate (2200m3) was complied with the FEP condition and barge was towed to the TCBR1W before the water monitoring (during the time period between 08:00 and 10:30). Further investigation on 9 Feb 2011 revealed the crack on the silt screen at C6. Contractor was reminded to liaise with the party responsible for proper silt screen maintenance and minimize the towing work on shallow water area/period. Relevant party responsible to the silt screen maintenance had rectified the silt screen defect on 15 Feb 2011. No further exceedance was recorded since then. Remarks / Other Obs: Turbidity and SS values exceeded the tolerance of baseline range. The exceedances was confirmed due to the silt screen defect.
				Turbidity (NTU)	22.40	9.1	10.25	
				SS (mg/L)	31.50	15.00	22.13	
X_10C203	7-Feb-11 11:00 a.m.	Mid-flood	C7	DO (mg/L)	6.65	3.36	2.73	Possible reason: Localized variation or change near the water monitoring station Action taken / to be taken: Checked and confirmed that the daily dredging rate at TCBR (2200m3) was complied with EP condition; Silt screen and silt curtain were in proper condition; No traceable source was identified near the intake during the water quality monitoring Remarks / Other Obs: No further exceedance was recorded in the next consecutive monitoring (Turbidity:4.47NTU, SS:4.5mg/L on 11 Feb 2011 at mid-ebb tide). It is considered causing by localized variation and not related to Project work.
				Turbidity (NTU)	9.27	9.1	10.25	
				SS (mg/L)	11.50	15.00	22.13	



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C204	7-Feb-11 15:38 p.m.	Mid-ebb	C6	DO (mg/L)	5.88	3.36	2.73	Possible reason: Crack on silt screen structure lead to ingress of unscreened polluted water directly to the intake created by frequent vessel movement on shallow water (3m depth recorded during monitoring) in Causeway Bay Typhoon Shelter
				Turbidity (NTU)	15.63	9.1	10.25	Action taken / to be taken: Based on contractor's site record received on 15 Feb 2011, daily dredging rate (2200m3) was complied with the FEP condition and Type III dredging at TS4 was conducted during the water monitoring. Further investigation on 9 Feb 2011 revealed the crack on the silt screen at C6. Contractor was reminded to liaise with the party responsible for proper silt screen maintenance and minimize the towing work on shallow water area/period. Relevant party responsible to the silt screen maintenance had rectified the silt screen defect on 15 Feb 2011. No further exceedance was recorded since then.
				SS (mg/L)	21.00	15.00	22.13	Remarks / Other Obs: Turbidity and SS values exceeded the tolerance of baseline range. The exceedances was confirmed due to the silt screen defect.
X_10C205	11-Feb-11 12:45	Mid-flood	C8	DO (mg/L)	6.92	3.36	2.73	Possible reason: Accumulation of particles from outfalls near the monitoring station
				Turbidity (NTU)	12.18	9.1	10.25	Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results; According to the Contractor's site record and reporting, no dredging was undertaken between 11:40 and 15:00 on that day. Double layer of silt curtain deployed at site were observed in proper condition during the water monitoring. No exceedance was recorded in the next consecutive monitoring.
				SS (mg/L)	7.50	15.00	22.13	Remarks / Other Obs: It is considered that exceedance was not related to the project work due to the discharge from outfalls near monitoring station.
X_10C206	11-Feb-11 11:10a.m.	Mid-flood	C5e	DO (mg/L)	7.14	3.36	2.73	Possible reason: Local buckling of western sheetpile temporary seawall at WCR1 (In front of the intakes) recorded at 9:26 on 11 Feb 2011.
				Turbidity (NTU)	15.95	9.1	10.25	Action taken / to be taken: Contractor immediately installed the silt curtain along the buckling sheetpile seawall to limit further dispersion of muddy water on 11 Feb afternoon.
				SS (mg/L)	5.00	15.00	22.13	Remarks / Other Obs: The exceedances was confirmed related to contractor causing the local buckling of western sheetpile seawall at WCR1. No further turbidity exceedance was recorded in the next consecutive monitoring (Turbidity:5.85NTU on 11 Feb 2011 at mid-ebb tide). ET further checked and confirmed the mitigation measures on 17 Feb 2011. Close monitoring on contractor mitigation and the variation of water quality results was then maintained.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C207	11-Feb-11 11:15a.m.	Mid-flood	C5w	DO (mg/L)	6.85	3.36	2.73	Possible reason: Local buckling of western sheetpile temporary seawall at WCR1 (In front of the intakes) recorded at 9:26 on 11 Feb 2011. Action taken / to be taken: Contractor immediately installed the silt curtain along the buckling sheetpile seawall to limit further dispersion of muddy water on 11 Feb afternoon. Remarks / Other Obs: The exceedances was confirmed related to contractor causing the local buckling of western sheetpile seawall at WCR1. No further turbidity exceedance was recorded in the next consecutive monitoring (Turbidity:8.35NTU on 11 Feb 2011 at mid-ebb tide). ET further checked the mitigation measures on 17 Feb 2011. Close monitoring on contractor mitigation and the variation of water quality results was then maintained.
				Turbidity (NTU)	13.78	9.1	10.25	
				SS (mg/L)	8.50	15.00	22.13	
X_10C208	11-Feb-11 18:55p.m.	Mid-ebb	C5w	DO (mg/L)	6.50	3.36	2.73	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Buckling sheetpile seawall has been protected with the additional silt curtain. Silt screen was in proper condition during monitoring. Comparing with the monitoring station next to C5w, no SS exceedance was recorded in C5e and WSD21. It is concluded as not related Project.
				Turbidity (NTU)	8.35	9.1	10.25	
				SS (mg/L)	16.00	15.00	22.13	
X_10C209	11-Feb-11 12:10	Mid-flood	C6	DO (mg/L)	5.67	3.36	2.73	Possible reason: Accumulation of particles from outfalls near the monitoring station Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results; Additional hanging type silt screen has been installed surround the C6 on 11 Feb 2011. The silt screen and silt curtain were observed in proper condition during the water monitoring. No exceedance was recorded in the next consecutive monitoring. Remarks / Other Obs: It is considered that exceedance was not related to the project work due to the particles from outfalls near monitoring station.
				Turbidity (NTU)	4.71	9.1	10.25	
				SS (mg/L)	27.50	15.00	22.13	
X_10C210	14-Feb-11 12:15	Mid-flood	C8	DO (mg/L)	7.41	3.36	2.73	Possible reason: Accumulation of particles and floating grease from outfalls near the monitoring station Action taken / to be taken: The silt curtain deployed in the vicinity of C8 was observed in proper condition during the water monitoring. According to the information provided from the Contractor, no dredging work was starting from 11:30 on that day. Remarks / Other Obs: SS value is within the tolerance of baseline range at C8. It is considered the exceedance was caused by the particles and floating grease from outlet at C8 and concluded not related to Project works.
				Turbidity (NTU)	4.31	9.1	10.25	
				SS (mg/L)	19.00	15.00	22.13	



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C211	14-Feb-11 23:45	Mid-ebb	C8	DO (mg/L)	5.64	3.36	2.73	Possible reason: Accumulation of particles and floating grease from outfalls near the monitoring station
				Turbidity (NTU)	13.73	9.1	10.25	Action taken / to be taken: The silt curtain deployed in the vicinity of C8 was observed in proper condition during the water monitoring. According to the information provided from the Contractor, no dredging work was conducted after 19:00 on that day..
				SS (mg/L)	23.00	15.00	22.13	Remarks / Other Obs: In view of no dredging works conducted after 19:00 on that day, it is considered that exceedances were not related to the project work.
X_10C212	14-Feb-11	Mid-flood	C5e	DO (mg/L)	7.11	3.36	2.73	Possible reason: Fine particles and debris in the vicinity of the monitoring station
				Turbidity (NTU)	2.51	9.1	10.25	Action taken / to be taken: Investigation found that the fine particles and debris were in the vicinity of station and behind the silt screen. Contractor was reminded to clear the debris daily and more frequently when much debris was found.
				SS (mg/L)	21.00	15.00	22.13	Remarks / Other Obs: It is considered that exceedance was causing by the particles and debris near the station and not related to the project work.
X_10C213	14-Feb-11	Mid-flood	C5w	DO (mg/L)	6.87	3.36	2.73	Possible reason: Fine particles and debris in the vicinity of the monitoring station
				Turbidity (NTU)	2.75	9.1	10.25	Action taken / to be taken: Investigation found that the fine particles and debris were in the vicinity of station and behind the silt screen. Contractor was reminded to clear the debris daily and more frequently when much debris was found.
				SS (mg/L)	19.00	15.00	22.13	Remarks / Other Obs: It is considered that exceedance was causing by the particles and debris near the station and not related to the project work.
X_10C214	16-Feb-11	Mid-ebb	C5e	DO (mg/L)	6.96	3.36	2.73	Possible reason: Accumulation of particles and debris in the vicinity of the monitoring station
				Turbidity (NTU)	7.78	9.1	10.25	Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations
				SS (mg/L)	25.00	15.00	22.13	Remarks / Other Obs: Silt screen at intake and silt curtain for the rock-filling were observed in proper condition during the monitoring; The dredging rate for the submarine sewerage outfall pipe line trench was complied with the FEP requirement . It is concluded as not related Project.
X_10C215	16-Feb-11	Mid-ebb	C5w	DO (mg/L)	7.14	3.36	2.73	Possible reason: Accumulation of particles and debris in the vicinity of the monitoring station
				Turbidity (NTU)	7.50	9.1	10.25	Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations
				SS (mg/L)	20.00	15.00	22.13	Remarks / Other Obs: Silt screen at intake and silt curtain for the rock-filling were observed in proper condition during the monitoring; The dredging rate for the submarine sewerage outfall pipe line trench was complied with the FEP requirement . It is concluded as not related Project.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C216	18-Feb-11	Mid-ebb	C9	DO (mg/L)	7.57	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the observation during the monitoring and the trend of monitoring results Remarks / Other Obs: Silt screen was in proper condition during the monitoring; Comparing with the monitoring station C9, no exceedance was recorded in C8 which is the closest monitoring station to the site works. It is concluded as not related Project.
				Turbidity (NTU)	6.13	9.1	10.25	
				SS (mg/L)	17.00	15.00	22.13	
X_10C217	21-Feb-11	Mid-flood	C5w	DO (mg/L)	7.00	3.36	2.73	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Silt screen was observed in proper condition during the monitoring; Comparing with the monitoring station next to C5w, no turbidity exceedance was recorded in C5e and WSD21 which are closer to the site works. It is concluded as not related Project.
				Turbidity (NTU)	9.88	9.1	10.25	
				SS (mg/L)	10.00	15.00	22.13	
X_10C218	21-Feb-11	Mid-flood	C5e	DO (mg/L)	6.89	3.36	2.73	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: SS values is within the tolerance of baseline range at C5. Silt screen was observed in proper condition during the monitoring; Comparing with the monitoring station next to C5e, no SS exceedance was recorded in C5w and WSD21 which are closer to the site works. It is concluded as not related Project.
				Turbidity (NTU)	7.03	9.1	10.25	
				SS (mg/L)	15.50	15.00	22.13	
X_10C219	21-Feb-11	Mid-flood	C3	DO (mg/L)	7.47	3.36	2.73	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Silt screen and silt curtain were observed in proper condition during the monitoring; The hourly and daily dredging rate were complied with the FEP requirements; It is concluded as not related Project.
				Turbidity (NTU)	6.40	9.1	10.25	
				SS (mg/L)	17.50	15.00	22.13	
X_10C220	25-Feb-11	Mid-flood	C9	DO (mg/L)	6.60	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the observation during the monitoring and the trend of monitoring results Remarks / Other Obs: Silt screen was in proper condition during the monitoring; Comparing with the monitoring station C9, no exceedance was recorded in C8 which is the closest monitoring station to the site works. It is concluded as not related Project.
				Turbidity (NTU)	8.95	9.1	10.25	
				SS (mg/L)	16.00	15.00	22.13	