



Ref no.	Date	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_18RIW2_013	20-May-19	F	Turbidity (NTU)	78.0	24.4	32.7	<p>Possible reason: Natural variation in water quality in the vicinity of the water quality monitoring station or suspected contribution from other construction site activities at Fei Ha Road.</p> <p>Action taken/ to be taken: A repeated in-situ measurement (Turbidity = 77.90) had been conducted immediately to confirm the exceedances. Checking with contractor for the construction activities conducted on 20 May 2019. Increased the monitoring frequency to daily on 21 May 2019, no exceedance was recorded (Turbidity = 5.2). For suspended solid, exceedance was recorded on 22 May 2019 (suspended solid = 110.5 mg/L). Data sheet are attached for reference.</p> <p>Remarks/ Other Observations: Slightly milky water was observed at monitoring station F during water quality monitoring, meanwhile, milky water was observed at upstream and other existing construction site at the upper of Fei Ngo Shan Road was observed at upstream. Site clearance, chain link fence and survey checking were commenced at RIW2 construction site area under Contract No. NE/2017/03 on the monitoring date, however, no surface runoff and no effluent discharge from construction works area into the concerned waterbody was observed during monitoring and afterward daily monitoring. In view of the above, it is considered that there were no evidence to suggest the exceedances were related to Project works at RIW2. Daily programme, site condition photos and the abstract of weather information from HKO are attached for reference.</p>
			pH	7.3	6.6-8.4	6.5-8.5	
			SS (mg/L)	61.1	17.0	23.8	
			DO(mg/l)	7.2	5.8	5.5	
X_18RIW2_014	22-May-19	F	Turbidity (NTU)	129.4	24.4	32.7	<p>Possible reason: Natural variation in water quality due to raining in the vicinity of the water quality monitoring station or suspected contribution from other construction site activities at the upper of Fei Ngo Shan Road.</p> <p>Action taken/ to be taken: A repeated in-situ measurement (Turbidity = 127.90) had been conducted immediately to confirm the exceedances. Checking with contractor for the construction activities conducted on 22 May 2019. Increased the monitoring frequency to daily on 23 May 2019, exceedance was recorded (Turbidity = 67.3). For suspended solid, exceedance was recorded on 24 May 2019 (suspended solid = 499.0 mg/L). Data sheet are attached for reference.</p> <p>Remarks/ Other Observations: Amber rainstorm warning signal was enforced on 20 and 21 May 2019 and it was also rainy on 23 May 2019. Silty water was observed at monitoring station F during water quality monitoring, meanwhile, other existing construction site at Fei Ha Road was observed at upstream and silty water was also observed at upper stream of station F. Site clearance and survey checking were commenced at RIW2 construction site area under Contract No. NE/2017/03 on 22 May 2019 and Site clearance, chain link fence and survey checking were commenced at RIW2 on 23 May 2019, however, no surface runoff and no effluent discharge from construction works area into the concerned waterbody was observed during monitoring and afterward daily monitoring. In view of the above, it is considered that there were no evidence to suggest the exceedances were related to Project works at RIW2. Daily programme, site condition photos and the abstract of weather information from HKO are attached for reference.</p>
			pH	8.4	6.6-8.4	6.5-8.5	
			SS (mg/L)	110.5	17.0	23.8	
			DO(mg/l)	8.2	5.8	5.5	



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X_18RIW2_015	24-May-19	F	Turbidity (NTU)	681.2	24.4	32.7	Possible reason: Runoff from site was observed entering the nearby gullies and may cause possible contribution to the exceedance, hence, the exceedance was project related. Natural variation in water quality due to raining in the vicinity of the water quality monitoring station and suspected contribution from other construction site activities at the upper of Fei Ha Road were also possibly causing the limit level of exceedance.
			pH	7.4	6.6-8.4	6.5-8.5	
			SS (mg/L)	499.0	17.0	23.8	Action taken/ to be taken: A repeated in-situ measurement (Turbidity = 681.2 NTU) had been conducted immediately to confirm the exceedances. Checking with contractor for the construction activities conducted on 24 May 2019. Inspecting the surrounding of site, drainages condition, water flow at those drainages and the water flow, to find out possible causes to the abnormally high level of exceedance. Increased the monitoring frequency to daily on 25 May 2019 and 26 May 2019, exceedance was recorded on 25 May 2019 (Turbidity = 139.6 NTU) but no exceedance was found on 26 May 2019. For suspended solid, exceedance was recorded on 27 May 2019 (Suspended solid = 124.3). Data sheet are attached for reference.
			DO(mg/l)	7.6	5.8	5.5	Remarks/ Other Observations: The weather condition was rainy from 23 to 27 May 2019. Silty water was observed at monitoring station F during water quality monitoring on 24 May 2019 and milky water was observed on 25 May 2019, meanwhile, other existing construction site at Fei Ha Road was observed at upstream. Site clearance, chain link fence and survey checking were commenced at RIW2 construction site area under Contract No. NE/2017/03 on 24 and 25 May 2019, and silty water was observed entering the nearby gullies due to the washing of slit that was brought outside the site by the dumping truck leaving from the site entrance on 24 May 2019. However, no surface runoff and no effluent discharge from construction works area into the concerned waterbody was observed on 25 and 26 May 2019. In view of the above, it is considered that the slit that entering the nearby gullies may have contribution to the exceedance on 24 May 2019 although heavy rain and contribution from other construction site may also be the possible causes of the exceedance in the cumulative effect. Therefore, the exceedance was related to Project works at RIW2. Daily programme, site condition photos and the abstract of weather information from HKO are attached for reference.



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X_18RIW2_016	27-May-19	F	Turbidity (NTU)	70.6	24.4	32.7	<p>Possible reason: Natural variation in water quality due to raining in the vicinity of the water quality monitoring station.</p> <p>Action taken/ to be taken: A repeated in-situ measurement (Turbidity = 71.72 NTU) had been conducted immediately to confirm the exceedances. Checking with contractor for the construction activities conducted on 27 May 2019. Increased the monitoring frequency to daily on 28 May 2019, exceedance was recorded (Turbidity = 50.2 NTU). The follow-up monitoring was carried out until 30 May 2019 and no exceedances were recorded on 29 and 30 May 2019. For suspended solid, no exceedance was recorded on 29 May 2019. Data sheet are attached for reference.</p> <p>Remarks/ Other Observations: Amber rainstorm warning signal was enforced on 26, 27 and 28 May 2019. The weather condition was rainy from 26 to 28 May 2019. Milky water was observed at monitoring station I during water quality monitoring. No major works were observed on 27 May 2019 at the construction site at Fei Ha Road during water monitoring period but drilling was observed conducting on 28 May 2019. Site clearance and survey checking were commenced at RIW2 construction site area under Contract No. NE/2017/03 on the 27 May 2019 and Site clearance, soil nail and survey checking were commenced at RIW2 on 28 May 2019, however, no surface runoff and no effluent discharge from construction works area into the concerned waterbody was observed during monitoring and afterward daily monitoring. In view of the above, it is considered that there were no evidence to suggest the exceedances were related to Project works at RIW2. Daily programme, site condition photos and the abstract of weather information from HKO are attached for reference.</p>
			pH	8.2	6.6-8.4	6.5-8.5	
			SS (mg/L)	124.3	17.0	23.8	
			DO(mg/l)	8.1	5.8	5.5	