

Investigation Report for Exceedances of Limit Level of Water Quality Monitoring on 1 June 2023

Investigation was carried out in response to exceedances of limit level during the water quality monitoring on 1 June 2023. The following table summarizes details of the exceedances.

Enviro	Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure							
Date	Station	Station Parameter (Unit)	Depth- averagedActionMeasuredLevelValue	Limit	Exceedance		Project Related	
				Level	Level	AL	LL	(Y/N)
	TKW1	Turbidity (NTU) Suspended Solids (SS)	202.5	27.9	29.2		~	Ν
	TKW		190.0	24.2	24.6		~	Ν
01/06	SW		33.8	21.4	22.9		✓	Ν
01700	TKW1		46.0	16.0	18.4		✓	Ν
	TKW		36.5	19.8	21.6		✓	Ν
	SW	(mg/L)	15.0	9.7	9.9		~	Ν

Construction activities carried out at and adjacent to Road D1 during the investigation period:	 According to the information provided by the engineer representative (RE), the construction works carried out within the site area of Road D1 (Designated Project (DP)) on 1 June 2023 include: <u>Site 3-8 (Road D1) at Portion B7</u> Dewatering; Erection of formwork for manhole; and Rectification works of the cut slope. The construction works carried out at adjoining non-DP works area on 1 June 2023 include: <u>Site 3-6 and Site 3-7 at Portion B2</u> Preparation work for installation of chain link fence; Installation of chain link fence; Soil transported to Site 3-6 for temporary storage; and Erection of formwork for u-channel. <u>Site 3-6 (near Chun Tsuen) (Temporary Stockpile Area) at Portion B1</u> Trim formation level +23.0mPD; and Breaking of existing concrete near gate B.
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Investigation Report (1 Julie 2023)	
	Site 3-6 (Wing Hong) at Portion B2
	• Preparation work for installation of air pipe of Biopile.
	Site 3-7 (near Bee Bee Garden) at Portion A2
	• No activity.
	Site 3-7 (near gate B) at Portion A2
	• General electric work; and
	• Set up oscillator for BP02.
	Site 3-8 (Kai Pak Ling Road) at Portion B6
	• No activity.
	Site 3-8 (Hung Wan) at Portion B7
	• No activity.
	According to the records of the Hong Kong Observatory, about 30 to 50 mm rainfall was recorded over Hung Shui Kiu on 1 June 2023, which led to river runoff with high turbidity/SS levels due to surface runoff from the catchment. For instance, high levels of SS (about 14 mg/L) and turbidity (about 29.7 NTU) were recorded at station U1 upstream of station SW. The high levels of SS and turbidity upstream of SW were considered key factors of SS and turbidity Limit Level exceedances at SW, respectively. Other factors that may be related to the exceedances include surface runoff and effluent discharges from workshops, open storages, warehouse, and/ or private toilet(s) along the catchment downstream of the site.
Possible reason for Action or Limit Level Non-compliance:	As observed during the site inspections on 30 May 2023 and 1 June 2023, the Contractor had implemented on site measures to control site runoff from Site 3-8 and Road D1, including sump, WetSep and portable pumps for temporary storage and treatment of surface water and site effluent. As no effluent discharge licence was applied for Site 3-6 and Site 3-7, no direct discharge from the sites was allowed. Effluent and surface runoff at Site 3-6 and Site 3-7 were collected and diverted to retention ponds on-site for ground infiltration.
	No evidence was found to indicate that the exceedances on 1 June 2023 were affected by the site activities. The non-compliances at TKW1 and TKW may be related to surface runoff and effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.
	No further exceedances of action or limit levels of SS and turbidity at TKW1, TKW and SW, were detected during the water quality monitoring on 2 and 3 June 2023.
	In conclusion, the exceedances recorded on 1 June 2023 were considered non-project related.
Action taken / to be taken:	1. Repeated in-situ measurement was carried out to confirm the turbidity level measured at TKW, TKW1 and SW. Repeated in-



situ measurement was not applicable for laboratory measurement of SS level.
2. The source of impact may be related to rainfall at Hung Shui Kiu recorded on 1 June 2023 and also surface runoff and effluent
discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.
3. A notification of exceedances has been issued to the IEC, the Contractor, and the EPD.
4. Duplicate water samples were collected on site, and in-situ measurement was repeated. The monitoring data were checked and confirmed. All plant, equipment and the Contractor's working methods were checked during the site inspection. No non-compliance was observed.
5. As no evidence was found to indicate that the exceedance on 1 June 2023 was affected by the site activities, no additional mitigation measure was discussed with the IEC, the RE and the Contractor.
6. During the site inspections, the Contractor had implemented on- site measures to control site runoff. The Contractor was reminded to implement/ maintain the following mitigation measures:
Site 3-8 and Road D1 a. The WetSep and other accessories shall be maintained
regularly to minimise malfunction.b. Surface run-off from construction sites shall be discharged at the designated discharge point as indicated in the effluent discharge licence for Site 3-8 via adequately designed sand/ silt removal facilities.
 c. The Contractor will provide sump(s) near the WetSep at Site 3-8 to temporary store site runoff prior to treatment. d. Channels/ earth bunds/ sandbag barriers will be properly
 provided on site to direct stormwater to the sump(s). e. Water (either upstream river water or site runoff) detained behind the box culvert will be treated by the WetSep at Site 3- 8 prior to discharge
8 prior to discharge. Site 3-6, Site 3-7, and Contaminated Soil Treatment Area
f. As no effluent discharge licence is applied for Site 3-6 and Site 3-7, no direct discharge of surface runoff or construction
effluent is allowed from the sites. g. Impervious canvases are deployed to cover the stockpiles at
the contaminated soil treatment area to minimise contaminated surface runoff (Figure 3).
 h. Perimeter channels, sump pits and leachate collection tanks are installed at the contaminated soil treatment area to collect and store leachate from the stockpiles of excavated materials
to eliminate untreated leachate escaped from the treatment area.



SW		3.1	21.1	4.4	3.2			
TKW		6.4	16.9	3.3	9.9			
TKW	1	5.1	27.3	6.9	11.2			
Station	ParametersSSTurbiditySSTurStations(mg/L)(NTU)(mg/L)(N							
Date		2 Ju	ne 2023	3 Ju	ne 2023			
impler contin mainte site ins 7. The fr TKW1 level e was re therefo summa	 SW. The RE had also issued a reminder to the Contractor to implement the measure on 17 June 2023. The measure has been implemented since late June 2023. The RE and the ET will continue to audit the Contractor's progress in implementation and maintenance of this and other measures during the regular weekly site inspection. 7. The frequency of monitoring was increased to daily at SW, TKW1 and TKW from 2 June 2023. No further action or limit level exceedances of SS and turbidity at TKW, TKW1 and SW was recorded on 2 and 3 June 2023. The following table summarizes the monitoring results of SS and turbidity at TKW, TKW1 and SW on 2 and 3 June 2023. 							
soil coll Follow that wa water t throug impler investi SW.	treatment ar lect effluent at ving the site is ater diversion from the site r the box cu- nented to faci- igation for the The RE had	rea for the nd surface nspection measure runoff and ulvert at litate the e water q also issue	e discharge e runoff (Fig on 25 May (which separ l effluent dis Site 3-8 (P source identi uality monit ed a reminde	chamber ure 3). 2023, the ates the up charge) be ortion B7 fication ir oring stat or to the C	Workfront to IEC advised pstream river efore passing V) should be n exceedance ions U1 and Contractor to			
effl 3).	retention pond uent and surfa	ace runof	f from Site 3.	-6 and Site	e 3-7 (Figure			



Photo Records of Site Inspection held by the ET on 30 May 2023

Site 3-8 and Road D1





(P1)

(P2)

Stockpile of dusty materials was covered properly to avoid generation of muddy runoff. No muddy surface runoff was observed during the site inspection.

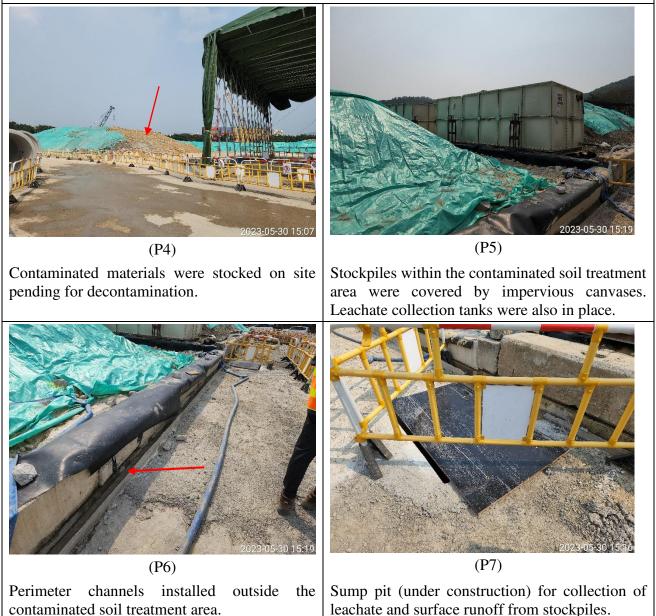
Surface runoff and site effluent were collected and diverted to the WetSep for temporary storage and treatment before the water was used for fugitive dust suppression on site.



Surface runoff was directed to the sump for temporary storage. No muddy surface runoff and no direct discharge of construction effluent was observed.



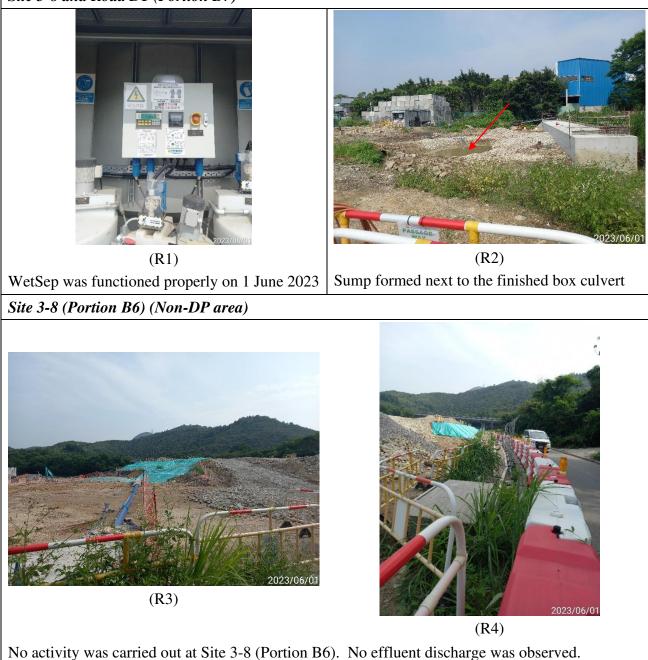
Contaminated Soil Treatment Area (Portion B2) (Non-DP area)





Site Photos on 1 June 2023 provided by the Engineer

Site 3-8 and Road D1 (Portion B7)







No effluent discharge from the site was observed.



Site 3-7 (Portion A2)



Site Observation Photos around Water Quality Monitoring Stations taken by the ET on 1 June 2023



Water Quality Monitoring Station: TKW

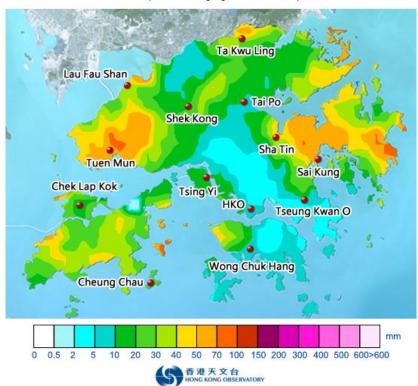
(W2) Water Quality Monitoring Station: TKW1

Service Contract No. WD/02/2021 Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure Investigation Report (1 June 2023)





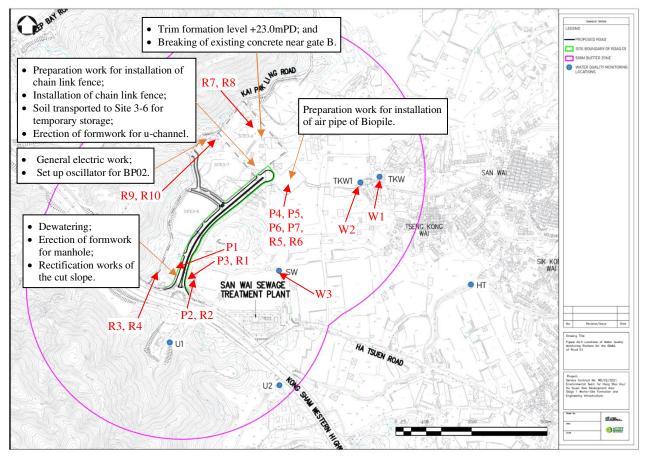
Figure 1 Rainfall Record from the Hong Kong Observatory



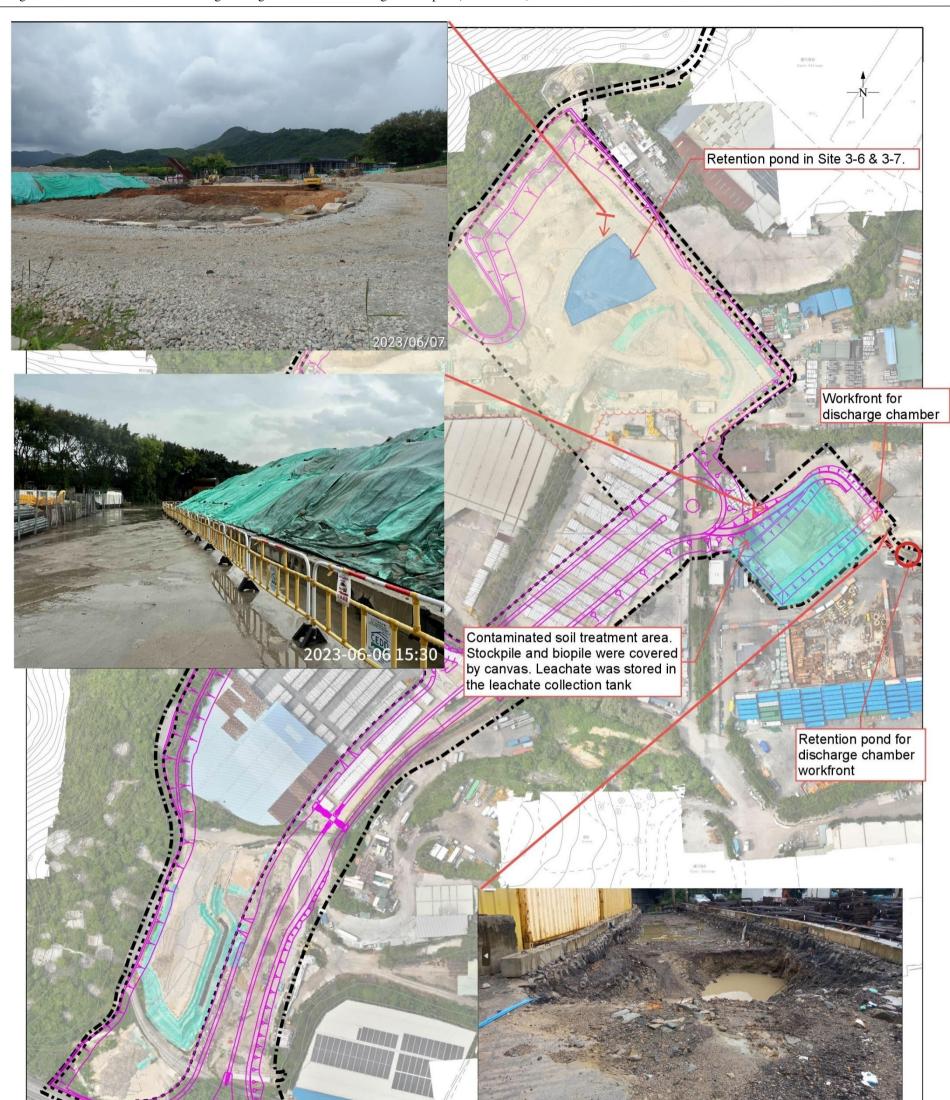
Total rainfall on 1-Jun-2023 (based on raingauges and radar data)

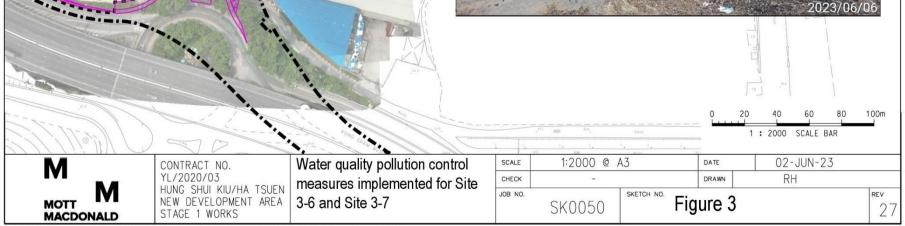


Figure 2 Location Plan of Impact Water Quality Monitoring Stations (Site activities held on 1 June 2023 were reported in text boxes)









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Prepared by:	Howard Chan	Certified by:	F. C. Tsang		
Designation:	Environmental Team Member	Designation:	Environmental Team Leader		
Signature:	Howard	Signature:	Toang Fandbearg		
Date:	18 July 2023	Date:	18 July 2023		



Investigation Report for Exceedances of Limit Level of Water Quality Monitoring on 5 June 2023

Investigation was carried out in response to exceedances of limit level during the water quality monitoring on 5 June 2023. The following table summarizes details of the exceedances.

Enviro	Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure									
Date	Station	Station	Station	Parameter	Depth- averaged	Action	Limit	Exceedance		Project Related
		(Unit)	Measured Value	Level	Level	AL	LL	(Y/N)		
05/06	TKW1	Suspended	22.5	16.0	18.4		~	Ν		
03/00	TKW	Solids (SS) (mg/L)	28.5	19.8	21.6		~	N		

	According to the information provided by the engineer representative (RE), the construction works carried out on 5 June 2023 include:				
	Site 3-8 (Road D1) at Portion B7				
	• Dewatering;				
	• Erection of formwork for manhole; and				
	• Erection of metal scaffolding for manhole.				
Construction activities	The construction works carried out at adjoining non-DP works area on 5 June 2023 include:				
carried out at and adjacent to	Site 3-6 and Site 3-7 at Portion B2				
Road D1 during the	 No major construction works reported. 				
investigation period:	Site 3-6 (near Chun Tsuen) (Temporary Stockpile Area) at Portion B1				
	• Trim formation level +23.0mPD; and				
	• Breaking of existing concrete near gate B.				
	Site 3-7 (near gate B) at Portion A2				
	• General electric work;				
	• Splice casing for BP02;				
	• First airlifting and water sampling for BP15; and				
	• Installation of steel cages for BP15.				
Possible reason for Action or	According to the records of the Hong Kong Observatory, about 5 to 20 mm rainfall was recorded over Hung Shui Kiu on 5 June 2023, which led to river runoff with high suspended solids levels due to surface runoff from the catchment. Other factors that may be related				
Limit Level Non-compliance:	to the exceedances include surface runoff and effluent discharges				
r	from workshops, open storages, warehouse, and/ or private toilet(s) along the catchment downstream of the site.				



	ГП
	As observed during the site inspections on 5 June 2023 and 8 June 2023, the Contractor had implemented on site measures to control site runoff from Site 3-8 and Road D1, including sump, WetSep and portable pumps for temporary storage and treatment of surface water and site effluent. As no effluent discharge licence was applied for Site 3-6 and Site 3-7, no direct discharge from the sites was allowed. Effluent and surface runoff at Site 3-6 and Site 3-7 were collected and diverted to retention ponds on-site for ground infiltration.
	No evidence was found to indicate that the exceedances on 5 June 2023 were affected by the site activities. The non-compliances at TKW1 and TKW may be related to surface runoff and effluent discharges from workshops, open storages, warehouse, private toilet(s), and/ or residential dwellings along the catchment downstream of the site.
	No further exceedance of action or limit levels of SS at TKW and TKW1 was detected during the water quality monitoring on 7 and 9 June 2023.
	In conclusion, the exceedances recorded on 5 June 2023 were considered non-project related.
	1. Repeated in-situ measurement was not applicable for laboratory measurement of SS level.
	2. The source of impact may be related to rainfall at Hung Shui Kiu recorded on 5 June 2023 and also surface runoff and effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.
	3. A notification of exceedances has been issued to the IEC, the Contractor, and the EPD.
	4. Duplicate water samples were collected on site, and the monitoring data were checked and confirmed. All plant, equipment and the Contractor's working methods were checked during the site inspection. No non-compliance was observed.
Action taken / to be taken:	5. As no evidence was found to indicate that the exceedance on 5 June 2023 was affected by the site activities, no additional mitigation measure was discussed with the IEC, the RE and the Contractor.
	 6. During the site inspections, the Contractor had implemented on site measures to control site runoff. The Contractor was reminded to implement/ maintain the following mitigation measures: <u>Site 3-8 and Road D1</u>
	 a. The WetSep and other accessories shall be maintained regularly to minimise malfunction. b. Surface run-off from construction sites shall be discharged at the designated discharge point as indicated in the effluent discharge license via adequately designed sand/ silt removal facilities.



 3-8 to temp 3-8 to temp d. Channels/ provided or e. Water (eith behind the l 8 prior to di Site 3-6, Site 3 f. As no efflue 3-7, no dir effluent is a g. Impervious contaminate surface runce h. Perimeter cl installed at store leach eliminate un i. A retention effluent and 3). j. Another rete treatment and effluent and Following the that water dive water from the timplemented tinvestigation for SW. The RE 	orary store site re earth bunds/ sa a site to direct store box culvert will b ischarge. <u>3-7, and Contami</u> ent discharge lice rect discharge o illowed from the canvases are dep ed soil treatmen off (Figure 3). hannels, sump pi the contaminated ate from the store intreated leachate pond is set up d surface runoff f ention pond is als rea for the dischar d surface runoff (site inspection of ersion measure (we e site runoff and box culvert at S to facilitate the set for the water que c had also issued	unoff prior to trea ndbag barriers ormwater to the s er water or site be treated by the <u>nated Soil Treatr</u> ince is applied for f surface runoff sites. loyed to cover th t area to minim ts and leachate co l soil treatment a ckpiles of excav escaped from the at Site 3-6 (Por from Site 3-6 and to set up near the arge chamber wo Figure 3). on 25 May 2023, which separates t effluent discharg Site 3-8 (Portion purce identificati ality monitoring l a reminder to	will be properly ump(s). runoff) detained WetSep at Site 3-		
 eliminate un A retention effluent and 3). j. Another retention treatment and effluent and Following the that water diver water from the through the b implemented t investigation in SW. The RE implement the 	ntreated leachate pond is set up I surface runoff f ention pond is als rea for the discha I surface runoff (site inspection of ersion measure (we e site runoff and box culvert at S to facilitate the set for the water qu had also issued measure on 17 J	escaped from the at Site 3-6 (Por from Site 3-6 and o set up near the arge chamber wo Figure 3). on 25 May 2023, which separates t effluent discharg Site 3-8 (Portion burce identification ality monitoring a reminder to une 2023. The	e treatment area. tion B1) to store d Site 3-7 (Figure contaminated soil orkfront to collect , the IEC advised he upstream river ge) before passing n B7) should be on in exceedance g stations U1 and the Contractor to measure has been		
implemented since late June 2023. The RE and the ET will continue to audit the Contractor's progress in implementation and maintenance of this and other measures during the regular weekly site inspection.					
frequency of 1 TKW from 14 exceedance of 15 June 2023. June 2023.	monitoring was 4 June 2023. N SS at TKW1 and 5 Daily monitori	increased to dai No further action TKW was recorn ng was therefore able summarized	3 June 2023, the ly at TKW1 and n and limit level ded on 13, 14 and e ceased after 15 s the monitoring 15 June 2023.		
Date	13 June 2023	14 June 2023	15 June 2023		
Parameters	SS (mg/L)	SS (mg/L)	SS (mg/L)		
TKW1	8.3	5.4	6.2		
TKW	7.4	8.6	5.5		

Photo Records of Site Inspection held by the ET on 8 June 2023



Site 3-8 (Road D1)





(P2)

(P1)

Stockpile of dusty materials was covered properly to avoid generation of muddy runoff. No muddy surface runoff was observed during the site inspection. Surface runoff and site effluent were collected and diverted to the WetSep for temporary storage and treatment before the water was used for fugitive dust suppression on site.



(P3)

Surface runoff was directed to the sump for temporary storage. No muddy surface runoff and no direct discharge of construction effluent was observed. Service Contract No. WD/02/2021 Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure Investigation Report (5 June 2023)



Contaminated Soil Treatment Area (Portion B2)





(P5)

Sloping surfaces of stockpiles at the contaminated soil treatment area were covered by impervious canvases to minimize contaminated runoff during rainfall.

Leachate collection tanks were in place at the contaminated soil treatment area.



No effluent or surface runoff was observed to discharge from the site.



Site Photos on 5 June 2023 provided by the Engineer

Site 3-8 (Road D1)





No muddy surface runoff was observed on 5 June

The WetSep was functioned properly on 5 June 2023.

Contaminated Soil Treatment Area (Portion B2)



2023.

(R3)

(R4)

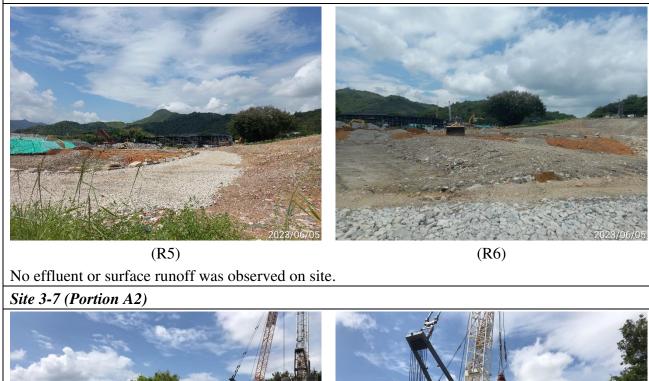
Sloping surfaces of stockpiles at the contaminated soil treatment area were coverd by impervious canvases to minimise contaminated runoff during rainfall. No surface runoff or effluent was leaked from the contaminated soil treatment area during the site inspection.

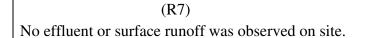


05/06/20:

(R8)

Site 3-6 (Portion B1)







Site Observation Photos around Water Quality Monitoring Stations taken by the ET on 5 June 2023

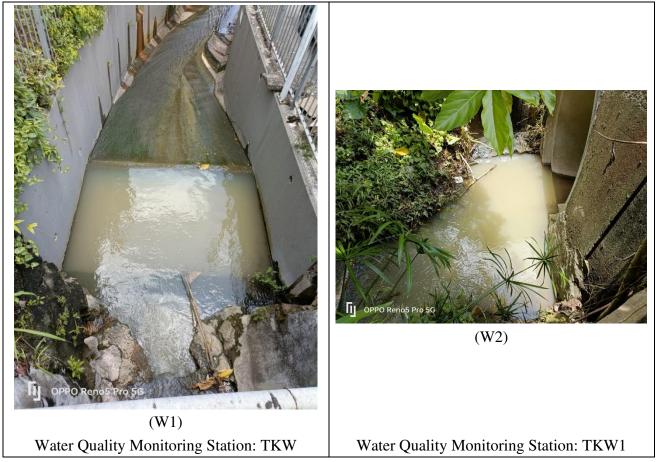


Figure 1 Rainfall Record from the Hong Kong Observatory

Total rainfall on 5-Jun-2023 (based on raingauges and radar data)

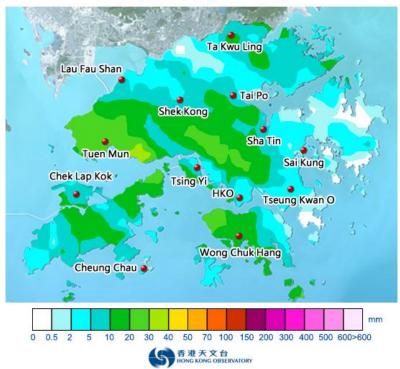
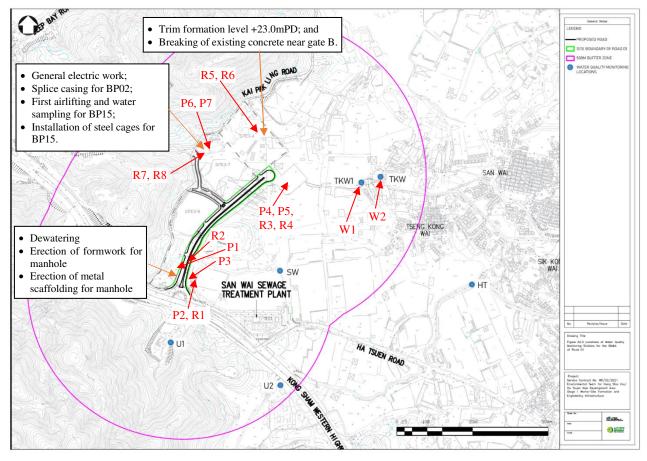
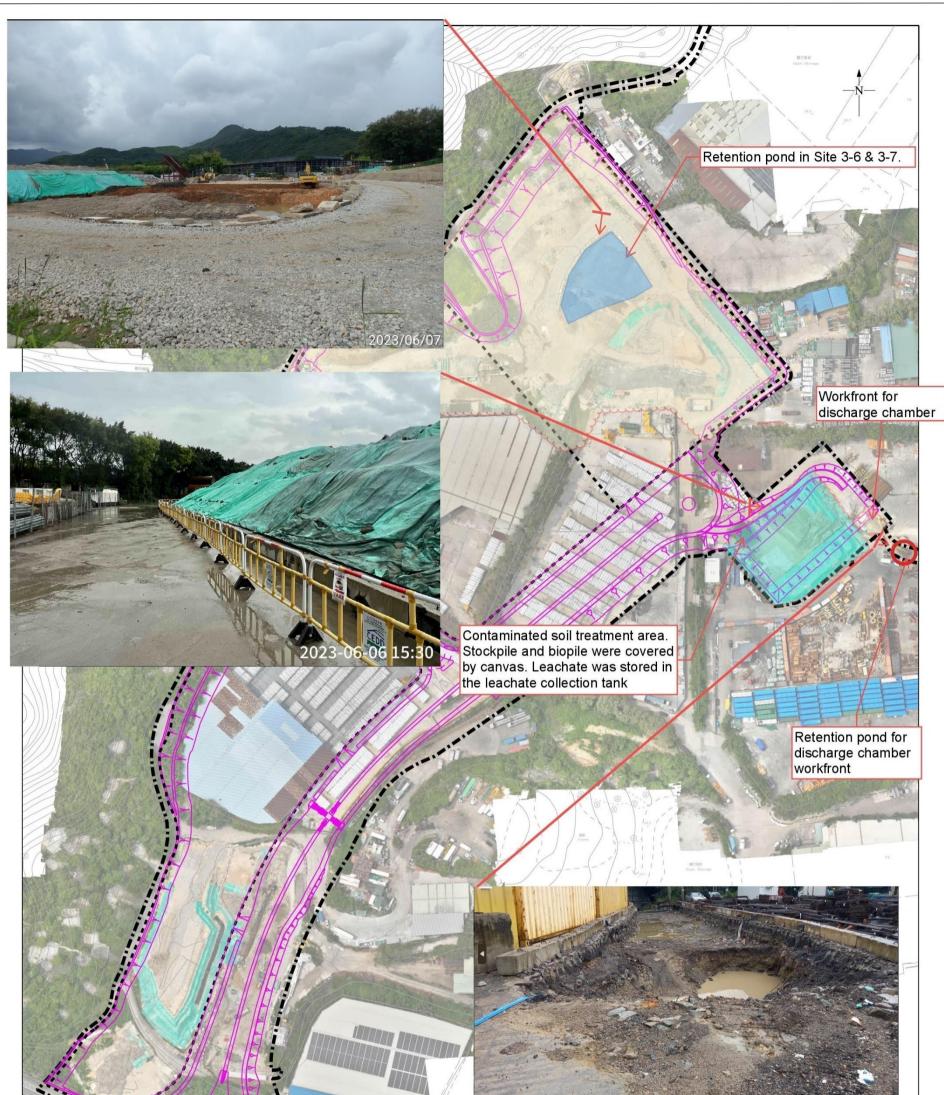




Figure 2 Location Plan of Impact Water Quality Monitoring Stations (Site activities held on 5 June 2023 were reported in text boxes)









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Prepared by:	Howard Chan	Certified by:	F. C. Tsang		
Designation:	Environmental Team Member	Designation:	Environmental Team Leader		
Signature:	Howard	Signature:	Toang Fandbearg		
Date:	18 July 2023	Date:	18 July 2023		



Investigation Report for Exceedance of Limit Level of Water Quality Monitoring on 9 June 2023

Investigation was carried out in response to an exceedance of limit level during the water quality monitoring on 9 June 2023. The following table summarizes details of the exceedance.

Enviro	Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure							
Date	Station	Parameter	Depth- averaged	Action	Limit	Excee		Project Related
		(Unit)	Measured Value	Level	Level	AL	LL	(Y/N)
09/06	SW	Suspended Solids (SS) (mg/L)	21.5	9.7	9.9		~	N

Construction activities carried out at and adjacent to Road D1 during the investigation period:	 According to the information provided by the engineer representative (RE), the construction works carried out on 9 June 2023 include: <u>Site 3-8 (Road D1) at Portion B7</u> Dewatering; Stripped off external formwork for manhole; Erection of formwork for manhole; and Rectification works of the cut slope. The construction works carried out at adjoining non-DP works area on 9 June 2023 include: <u>Site 3-6 and Site 3-7 at Portion B2</u> No major construction works reported. <u>Site 3-7 (near gate B) at Portion A2</u> Final airlifting and dipping record of founding level for BP07; Concreting for BP07; and Excavation by reverse circulation drill for BP17. <u>Site 3-8 (Box Culvert) at Portion B7</u> Drilling for dowel bar; and Digging existing concrete.
Possible reason for Action or Limit Level Non- compliance:	According to the records of the Hong Kong Observatory, about 10 to 30 mm rainfall was recorded over Hung Shui Kiu on 9 June 2023, which led to river runoff with high suspended solids levels due to surface runoff from the catchment. Other factors that may be related to the exceedance include surface runoff and effluent discharges from workshops, open storages, warehouse and/ or private toilet(s) along the catchment downstream of the site. As observed during the site inspections on 8 June 2023 and 9 June 2023, the Contractor had implemented on site measures to control site runoff from Site 3-8 and Road D1, including sump, WetSep and portable pumps for temporary storage and treatment of surface water



	and site effluent. As no effluent discharge licence was applied for Site 3-6 and Site 3-7, no direct discharge from the sites was allowed. Effluent and surface runoff at Site 3-6 and Site 3-7 were collected and diverted to retention ponds on-site for ground infiltration.
	No evidence was found to indicate that the exceedance on 9 June 2023 was affected by the site activities. The non-compliance at SW may be related to surface runoff and effluent discharges from workshops, open storages, warehouse and/ or private toilet(s) along the catchment downstream of the site.
	No further exceedance of action level or limit level of SS at SW was detected during the water quality monitoring on 13, 14 and 15 June 2023.
	In conclusion, the exceedance recorded on 9 June 2023 was considered non-project related.
	1. Repeated in-situ measurement was not applicable for laboratory measurement of SS level.
	 2. The source of impact may be related to rainfall at Hung Shui Kiu recorded on 9 June 2023 and also surface runoff and effluent discharges from workshops, open storages, warehouse, and/ or private toilet(s) along the catchment downstream of the site. 3. A notification of exceedance has been issued to the IEC, the Contractor, and the EPD. 4. Duplicate water samples were collected on site, and the monitoring data were checked and confirmed. All plant, equipment and the Contractor's working methods were checked during the site inspection. No non-compliance was observed.
Action taken / to be taken:	 As no evidence was found to indicate that the exceedance on 9 June 2023 was affected by the site activities, no additional mitigation measure was discussed with the IEC, the RE and the Contractor.
	 During the site inspection, the Contractor had implemented on site measures to control site runoff. The Contractor was reminded to implement/ maintain the following mitigation measures: <u>Site 3-8 and Road D1</u>
	 a. The WetSep and other accessories shall be maintained regularly to minimise malfunction. b. Surface run-off from construction sites shall be discharged at the designated discharge point as indicated in the effluent discharge license via adequately designed sand/ silt removal facilities. c. The Contractor will provide sump(s) near the WetSep at Site 3-8 to temporary store site runoff prior to treatment. d. Channels/ earth bunds/ sandbag barriers will be properly
	provided on site to direct stormwater to the sump(s).



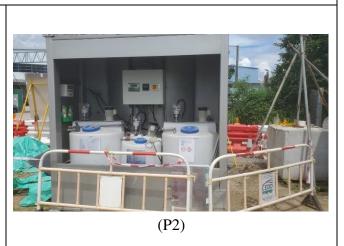
 e. Water (either upbehind the box of 8 prior to dischate Site 3-6, Site 3-7, and f. As no effluent definition of the state of the states of the state of	culvert will be t arge. and Contaminat ischarge licence discharge licence discharge of so red from the site vases are deploy oil treatment a Figure 3). The set of the stock from the stoc	e d Soil Treatme e is applied for S surface runoff es. ved to cover the rea to minimis and leachate coll oil treatment are oiles of excavat caped from the t Site 3-6 (Portion m Site 3-6 and S et up near the co e chamber work gure 3). 25 May 2023, t ich separates the luent discharge) e 3-8 (Portion receidentification ty monitoring s reminder to th e 2023. The m 23. The RE a progress in impli- sures during the received on 13 reased to daily or limit level ex 5 June 2023. D ine 2023. The	VetSep at Site 3- Ant Area Site 3-6 and Site or construction stockpiles at the e contaminated ection tanks are ea to collect and reatment area. on B1) to store Site 3-7 (Figure ontaminated soil cfront to collect he IEC advised e upstream river before passing B7) should be n in exceedance stations U1 and e Contractor to easure has been nd the ET will lementation and e regular weekly June 2023, the at SW from 14 sceedance of SS aily monitoring following table
Date	13 June 2023	14 June 2023	15 June 2023
Parameters			
Stations	SS (mg/L)	SS (mg/L)	SS (mg/L)
SW	4.0	4.8	8.6



Photo Records of Site Inspection held by the ET on 8 June 2023

Site 3-8 (Road D1)





(P1)

Stockpile of dusty materials was covered properly to avoid generation of muddy runoff. No muddy surface runoff was observed during the site inspection. Surface runoff and site effluent were collected and diverted to the WetSep for temporary storage and treatment before the water was used for fugitive dust suppression on site.



Surface runoff was directed to the sump for temporary storage. No muddy surface runoff and no direct discharge of construction effluent was observed. Service Contract No. WD/02/2021 Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure Investigation Report (9 June 2023)



Contaminated Soil Treatment Area (Portion B2)





(P5)

Sloping surfaces of stockpiles at the contaminated soil treatment area were covered by the impervious canvases to minimize contaminated runoff during rainfall.

Leachate collection tanks were in place at the contaminated soil treatment area.



No effluent or surface runoff was observed to discharge from the site.



Site Photos on 9 June 2023 provided by the Engineer

Site 3-8 (Road D1)



(R2)

The WetSep was functioned properly on 9 June 2023.

Rain water deposited around the manhole was diverted to the sump for temporary storage prior to treatment by the WetSep on site.

Contaminated Soil Treatment Area (Portion B2)



Sloping surfaces of stockpiles at the contaminated soil treatment area were coverd by impervious canvases to minimise contaminated runoff during rainfall. No surface runoff or effluent was leaked from the contaminated soil treatment area during the site inspection.



Site 3-7 (Portion A2)



discharge from the site.

Site Observation Photo around Water Quality Monitoring Station taken by the ET on 9 June 2023

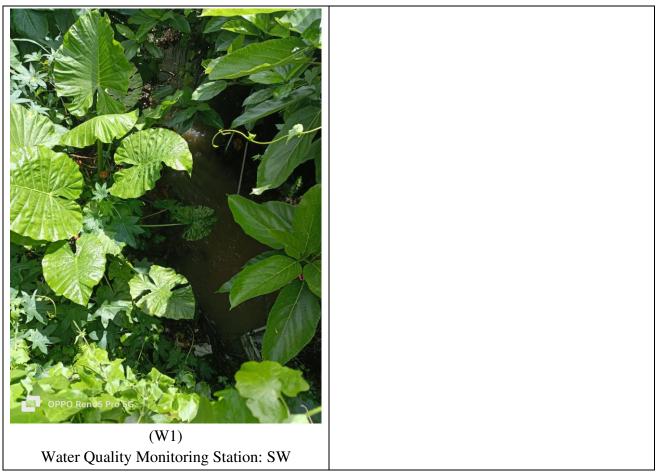




Figure 1Rainfall Record from the Hong Kong Observatory

Total rainfall on 9-Jun-2023 (based on raingauges and radar data)

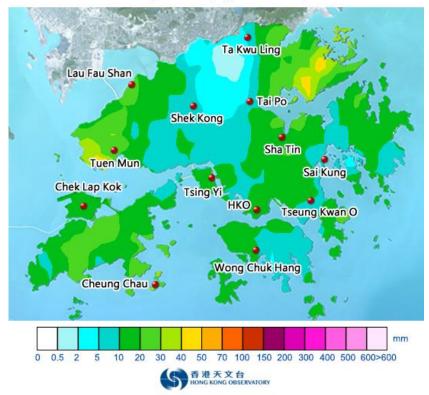
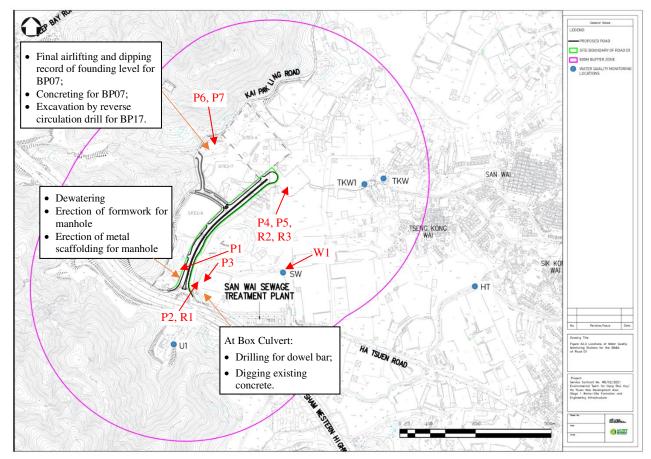
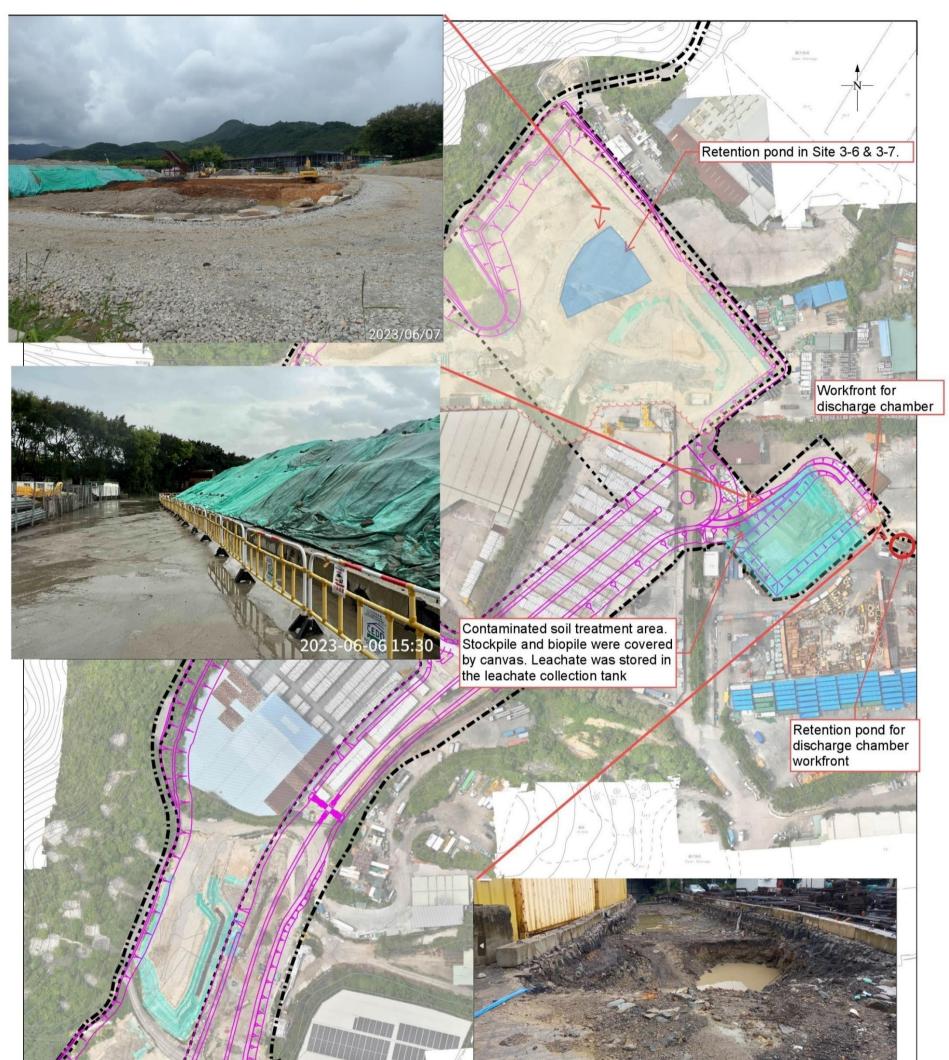


Figure 2 Location Plan of Impact Water Quality Monitoring Stations (Site activities held on 9 June 2023 were reported in text boxes)







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M MOTT MACDONALD	CONTRACT NO. YL/2020/03 HUNG SHUI KIU/HA TSUEN NEW DEVELOPMENT AREA STAGE 1 WORKS	Water quality pollution control measures implemented at Site 3-6 and Site 3-7	SCALE CHECK JOB NO.	1:2000 @ / - SK0050	SVETCH NO	drawn URAWN URE 3	02-JUN-23 RH	REV 27

Default \\Yl202003-srv1\share\Public\YL202003\Land Survey\Site Sketch\0050 Aerial photo\380288-CV-SK-0050 - rev.27.dgn 19/6/2023



Prepared by:	Howard Chan	Certified by:	F. C. Tsang
Designation:	Environmental Team Member	Designation:	Environmental Team Leader
Signature:	Howard	Signature:	Toang Fandbearg
Date:	18 July 2023	Date:	18 July 2023