

**Investigation Report for Exceedances of Limit Levels of Water Quality Monitoring on 13 January 2024**

Investigation was carried out in response to exceedances of limit levels during the water quality monitoring on 13 January 2024. The following table summarizes details of the exceedances.

<b>Environmental Team for Hung Shui Kiu/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure</b>								
Date	Station	Parameter (Unit)	Depth-averaged Measured Value	Action Level	Limit Level	Exceedance		Project Related (Y/N)
						AL	LL	
13/01	TKW	Suspended Solids (SS) (mg/L)	13.0	7.0	7.1		✓	N
	SW		36.5	8.8	10.5		✓	N

<p>Construction activities carried out at and adjacent to Road D1 during the investigation period:</p>	<p>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 13 January 2024 include:</p> <p><u>Site 3-8 (Road D1) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• Dewatering.</li> <li>• Housekeeping.</li> <li>• Prepare work for sand replacement test.</li> <li>• Sorting for soil.</li> <li>• Repair parts of band drain machine.</li> </ul> <p>The construction works carried out at adjoining non-DP works area on 13 January 2024 include:</p> <p><u>Site 3-6 and Site 3-7 (Miss Chan) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• Expose CLP cable for diversion at Kai Pak Ling Road by CLP.</li> <li>• Dismantle formwork for berm concrete cube starting to CP-3.7-05A CH0-10, 21-30.</li> </ul> <p><u>Site 3-6 (near Chun Tsuen) (Temporary Stockpile Area) at Portion B1</u></p> <ul style="list-style-type: none"> <li>• Diversion of CLP cable by CLP contractor for construction of u channel from Starting to CP-KP-02.</li> </ul> <p><u>Site 3-6 (Wing Hong) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• General electric work for blower of biopile.</li> <li>• Cement solidification of heavy metal contaminated soil.</li> <li>• Dismantle chain link fence for concreting temporary road.</li> <li>• Concreting temporary road for preparation SMH-DP-01.</li> </ul> <p><u>Site 3-7 (near gate B) at Portion A2</u></p> <ul style="list-style-type: none"> <li>• Fixing steel re-bar for capping beam construction from BP01</li> </ul>
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	<p>to BP11.</p> <ul style="list-style-type: none"> <li>• Bending of steel re-bar for Road L51 capping beam construction.</li> <li>• Relocation of Gate B.</li> </ul> <p><u>Site 3-7 and Site 3-8 at Portion B6</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-7 and Site 3-8 (Kai Pak Ling Road) at Portion B6</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-8 (Box Culvert) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-8 (Hung Wan) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul>
<p>Possible reason for Action or Limit Level Non-compliance:</p>	<p>As observed during the site inspections on 11 and 13 January 2024, the Contractor had implemented on-site measures to control site runoff from Site 3-8, Road D1 and Contaminated Soil Treatment Area, including sump, WetSep and portable pumps for temporary storage and treatment of surface water and site effluent. During dry season, construction effluent from Site 3-6 and Site 3-7 was collected and diverted to the WetSep on site. Treated effluent was stored and reused on site for fugitive dust control. No direct effluent discharge from these sites was recorded.</p> <p>No evidence was found to indicate that the exceedances on 13 January 2024 were affected by the site activities. The non-compliances at TKW and SW was considered related to surface runoff from the catchment, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</p> <p>No further exceedance of action or limit levels of SS level at TKW and SW was detected during the water quality monitoring on 22 and 23 January 2024.</p> <p>In conclusion, the exceedances recorded on 13 January 2024 were considered non-project related.</p>
<p>Action taken / to be taken:</p>	<ol style="list-style-type: none"> <li>1. Repeated in-situ measurement was not applicable for laboratory measurement of SS level at TKW and SW.</li> <li>2. The source of impact may be related to surface runoff, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</li> <li>3. Notifications of exceedances have been issued to the IEC, the Contractor, and the EPD on 19 January 2024.</li> </ol>

4. Duplicate water samples were collected on site. 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 exceedances on 13 January 2024 were affected by the site activities, no additional mitigation measure was discussed with the IEC, the RE and the Contractor.
6. 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:  
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/ detention pond 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. Any site runoff detained behind the box culvert will be treated by the WetSep at Site 3-8 prior to discharge.Site 3-6, Site 3-7, and Contaminated Soil Treatment Area
  - f. During dry season, construction effluent will be collected and diverted to the Wetsep for treatment and storage. Treated effluent will be reused on site for water spraying and fugitive dust control. No direct discharge of surface runoff or construction effluent is anticipated.
  - g. Impervious canvases are deployed to cover the stockpiles at the contaminated soil treatment area to minimise contaminated surface runoff.
  - 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 escaping from the treatment area.
7. The frequency of monitoring was increased at TKW and SW from 22 January 2024. No further action or limit level exceedances of SS level at TKW and SW were recorded on 22 and 23 January 2024. Daily monitoring was therefore ceased after 23 January 2024. The following table summarizes the monitoring results of SS level at TKW and SW on 22 and 23 January 2024.

Date	22 January 2024	23 January 2024
Parameters	SS (mg/L)	SS (mg/L)
Stations		
TKW	1.4	5.5
SW	1.0	1.2

**Photo Records of Site Inspection held by the ET on 11 January 2024**

**Site 3-8 and 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.



(P2)

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 or discharged at designated location under the requirement of effluent discharge licence.

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



(P3)

Contaminated materials were stocked on site.



(P4)

Stockpiles within the contaminated soil treatment area were covered by impervious canvases. Leachate collection tanks were also in place.



(P5)

Perimeter channels were installed outside the contaminated soil treatment area.



(P6)

A WetSep was provided on site to treat and store construction effluent from Site 3-6, Site 3-7, and Contaminated Soil Treatment Area. No off-site effluent discharge was recorded in January 2024.

**Site Photos on 13 January 2024 provided by the RE**

***Site 3-8 and Road D1 (Portion B7)***



(R1)

The road roller was provided to avoid generation of muddy runoff.

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



(R2)

The contaminated soil treatment area were covered by impervious canvas. No surface runoff or effluent was leaked from the contaminated soil treatment area during the site inspection.

**Site 3-6 (Portion A2) (Non-DP area)**

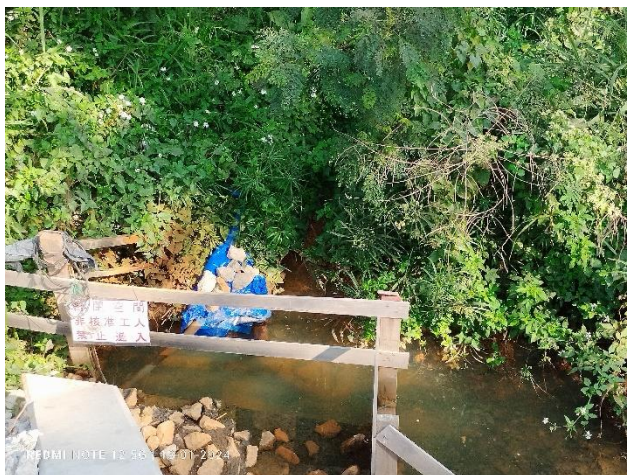


(R3)

No effluent discharge from the site was observed.

**Discharge Point**

**Site 3-8 and Road D1 (Portion B7)**



(R4)

No off-site effluent discharge was recorded in January 2024.

**Contaminated Soil Treatment Area (Portion B2)**



(R5)

No off-site effluent discharge was recorded in January 2024.

**Site Observation Photos around Water Quality Monitoring Stations taken by the ET on 13 January 2024**



(W1)

Water Quality Monitoring Station: TKW

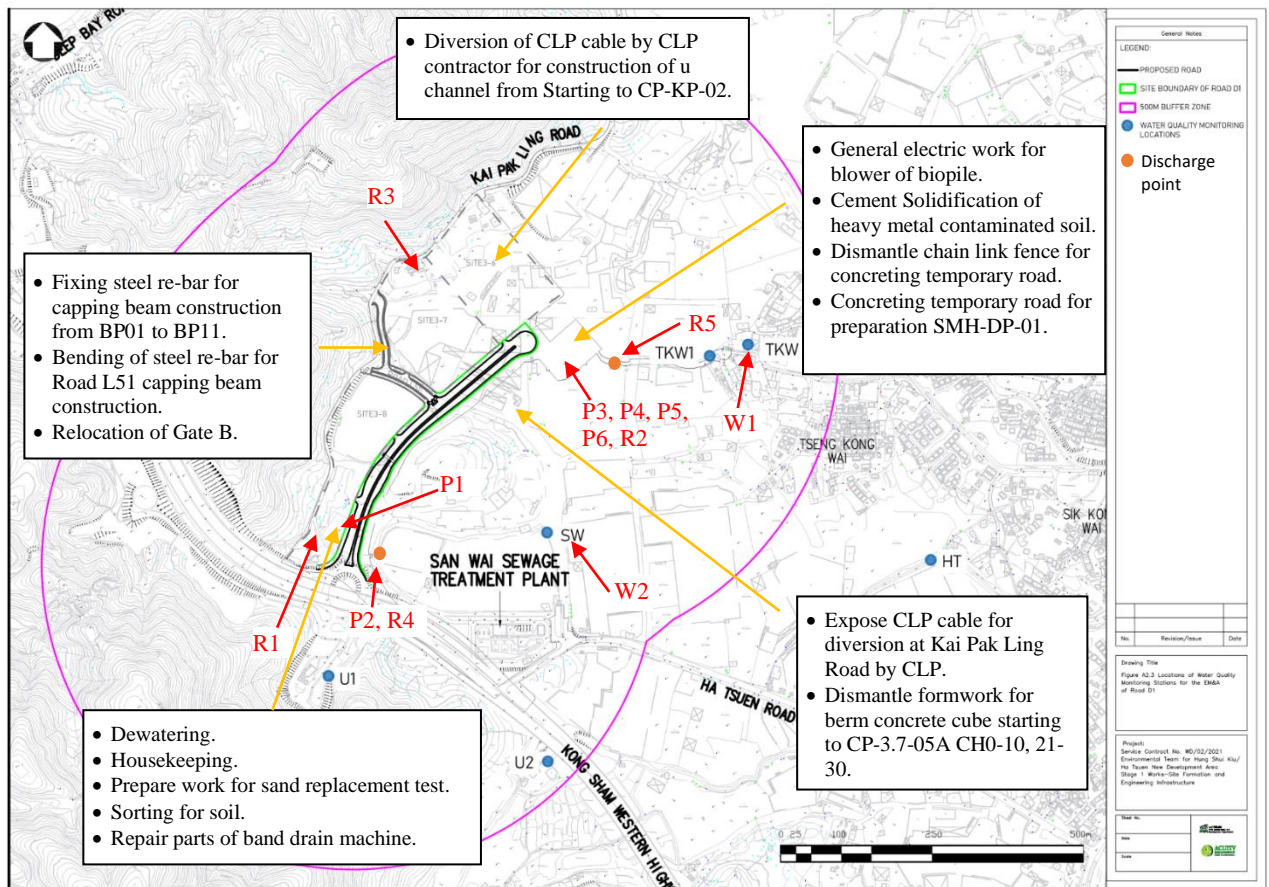



(W2)

Water Quality Monitoring Station: SW



**Figure 1 Location Plan of Impact Water Quality Monitoring Stations (Site activities held on 13 January 2024 were reported in text boxes)**



Prepared by:	Angel Lee	Certified by:	F. C. Tsang
Designation:	Environmental Team Member	Designation:	Environmental Team Leader
Signature:		Signature:	
Date:	8 February 2024	Date:	8 February 2024

## Investigation Report for Exceedances of Limit Levels of Water Quality Monitoring on 16 January 2024

Investigation was carried out in response to exceedances of limit levels during the water quality monitoring on 16 January 2024. The following table summarizes details of the exceedances.

Environmental Team for Hung Shui Kiu/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure								
Date	Station	Parameter (Unit)	Depth-averaged Measured Value	Action Level	Limit Level	Exceedance		Project Related (Y/N)
						AL	LL	
16/01	TKW	Suspended Solids (SS) (mg/L)	12.5	7.0	7.1		✓	N
	SW		32.5	8.8	10.5		✓	N

<p>Construction activities carried out at and adjacent to Road D1 during the investigation period:</p>	<p>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 16 January 2024 include:</p> <p><u>Site 3-8 (Road D1) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• Dewatering.</li> <li>• Housekeeping.</li> <li>• Sand replacement test for area S5 CH20-CH45</li> <li>• Sorting for soil.</li> <li>• Repair parts of band drain machine.</li> <li>• Installation of vertical band drain.</li> </ul> <p>The construction works carried out at adjoining non-DP works area on 16 January 2024 include:</p> <p><u>Site 3-6 and Site 3-7 (Miss Chan) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• Expose CLP cable for diversion at Kai Pak Ling Road by CLP.</li> <li>• Breaking artificial hard material.</li> <li>• Concreting for berm concrete curb starting to CP-3.7-05A CH11-20.</li> </ul> <p><u>Site 3-6 (near Chun Tsuen) (Temporary Stockpile Area) at Portion B1</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-6 (Wing Hong) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• General electric work for blower of biopile.</li> <li>• Cement solidification of heavy metal contaminated Soil.</li> </ul> <p><u>Site 3-7 (near Bee Bee Garden) at Portion A2</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-7 (near gate B) at Portion A2</u></p>
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	<ul style="list-style-type: none"> <li>• No construction activity. <u>Site 3-7 and Site 3-8 at Portion B6</u></li> <li>• No construction activity. <u>Site 3-8 (Kai Pak Ling Road) at Portion B6</u></li> <li>• No construction activity. <u>Site 3-8 (Box Culvert) at Portion B7</u></li> <li>• No construction activity. <u>Site 3-8 (Hung Wan) at Portion B7</u></li> <li>• No construction activity.</li> </ul>
<p>Possible reason for Action or Limit Level Non-compliance:</p>	<p>As observed during the site inspections on 16 and 18 January 2024, the Contractor had implemented on-site measures to control site runoff from Site 3-8, Road D1 and Contaminated Soil Treatment Area, including sump, WetSep and portable pumps for temporary storage and treatment of surface water and site effluent. During dry season, construction effluent from Site 3-6 and Site 3-7 was collected and diverted to the WetSep on site. Treated effluent was stored and reused on site for fugitive dust control. No direct effluent discharge from these sites was recorded.</p> <p>No evidence was found to indicate that the exceedances on 16 January 2024 were affected by the site activities. The non-compliances at TKW and SW was considered related to surface runoff from the catchment, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</p> <p>No further exceedance of action or limit levels of SS level at TKW and SW was detected during the water quality monitoring on 22 and 23 January 2024.</p> <p>In conclusion, the exceedances recorded on 16 January 2024 were considered non-project related.</p>
<p>Action taken / to be taken:</p>	<ol style="list-style-type: none"> <li>1. Repeated in-situ measurement was not applicable for laboratory measurement of SS level at TKW and SW.</li> <li>2. The source of impact may be related to surface runoff, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</li> <li>3. Notifications of exceedances have been issued to the IEC, the Contractor, and the EPD on 19 January 2024.</li> <li>4. Duplicate water samples were collected on site. 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.</li> </ol>

5. As no evidence was found to indicate that the exceedances on 16 January 2024 were affected by the site activities, no additional mitigation measure was discussed with the IEC, the RE and the Contractor.
6. 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:  
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/ detention pond 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. Any site runoff detained behind the box culvert will be treated by the WetSep at Site 3-8 prior to discharge.Site 3-6, Site 3-7, and Contaminated Soil Treatment Area
  - f. During dry season, construction effluent will be collected and diverted to the Wetsep for treatment and storage. Treated effluent will be reused on site for water sparging and fugitive dust control. No direct discharge of surface runoff or construction effluent is anticipated.
  - g. Impervious canvases are deployed to cover the stockpiles at the contaminated soil treatment area to minimise contaminated surface runoff.
  - 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 escaping from the treatment area.
7. The frequency of monitoring was increased at TKW and SW from 22 January 2024. No further action or limit level exceedances of SS level at TKW and SW were recorded on 22 and 23 January 2024. Daily monitoring was therefore ceased after 23 January 2024. The following table summarizes the monitoring results of SS level at TKW and SW on 22 and 23 January 2024.

Date	22 January 2024	23 January 2024
Parameters	SS	SS
Stations	(mg/L)	(mg/L)
TKW	1.4	5.5
SW	1.0	1.2

**Photo Records of Site Inspection held by the ET on 18 January 2024**

*Site 3-8 and 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.



(P2)

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 or discharged at designated location under the requirement of effluent discharge licence.

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



(P3)

Contaminated materials were stocked on site.



(P4)

Stockpiles within the contaminated soil treatment area were covered by impervious canvases. Leachate collection tanks were also in place.



(P5)

Perimeter channels were installed outside the contaminated soil treatment area.



(P6)

A WetSep was provided on site to treat and store construction effluent from Site 3-6, Site 3-7, and Contaminated Soil Treatment Area. No off-site effluent discharge was recorded in January 2024.

**Site Photos on 16 January 2024 provided by the RE**

***Site 3-8 and Road D1 (Portion B7)***



(R1)

No effluent discharge from the site was observed.

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



(R2)

The contaminated soil treatment area were covered by impervious canvas. No surface runoff or effluent was leaked from the contaminated soil treatment area during the site inspection.



**Site 3-6 (Portion A2) (Non-DP area)**



(R3)

No effluent discharge from the site was observed.

**Discharge Point**

**Site 3-8 and Road D1 (Portion B7)**



(R4)

No off-site effluent discharge was recorded in January 2024.

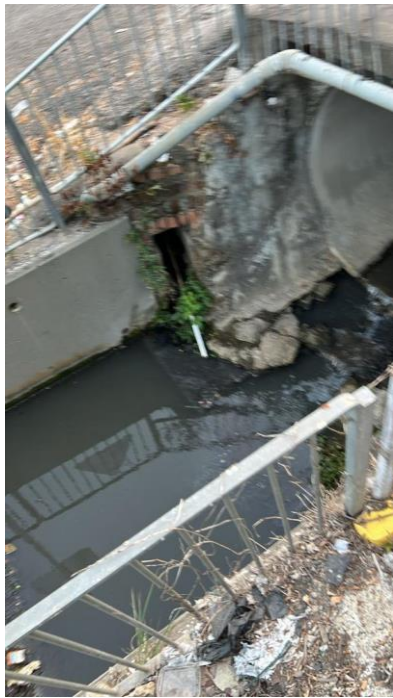
**Contaminated Soil Treatment Area (Portion B2)**



(R5)

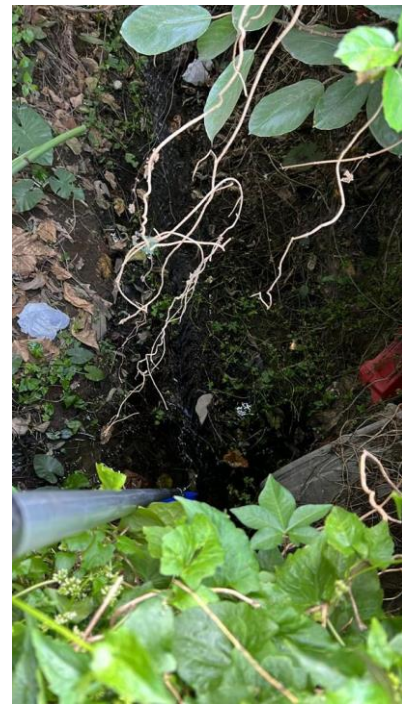
No off-site effluent discharge was recorded in January 2024.

**Site Observation Photos around Water Quality Monitoring Stations taken by the ET on 16 January 2024**



(W1)

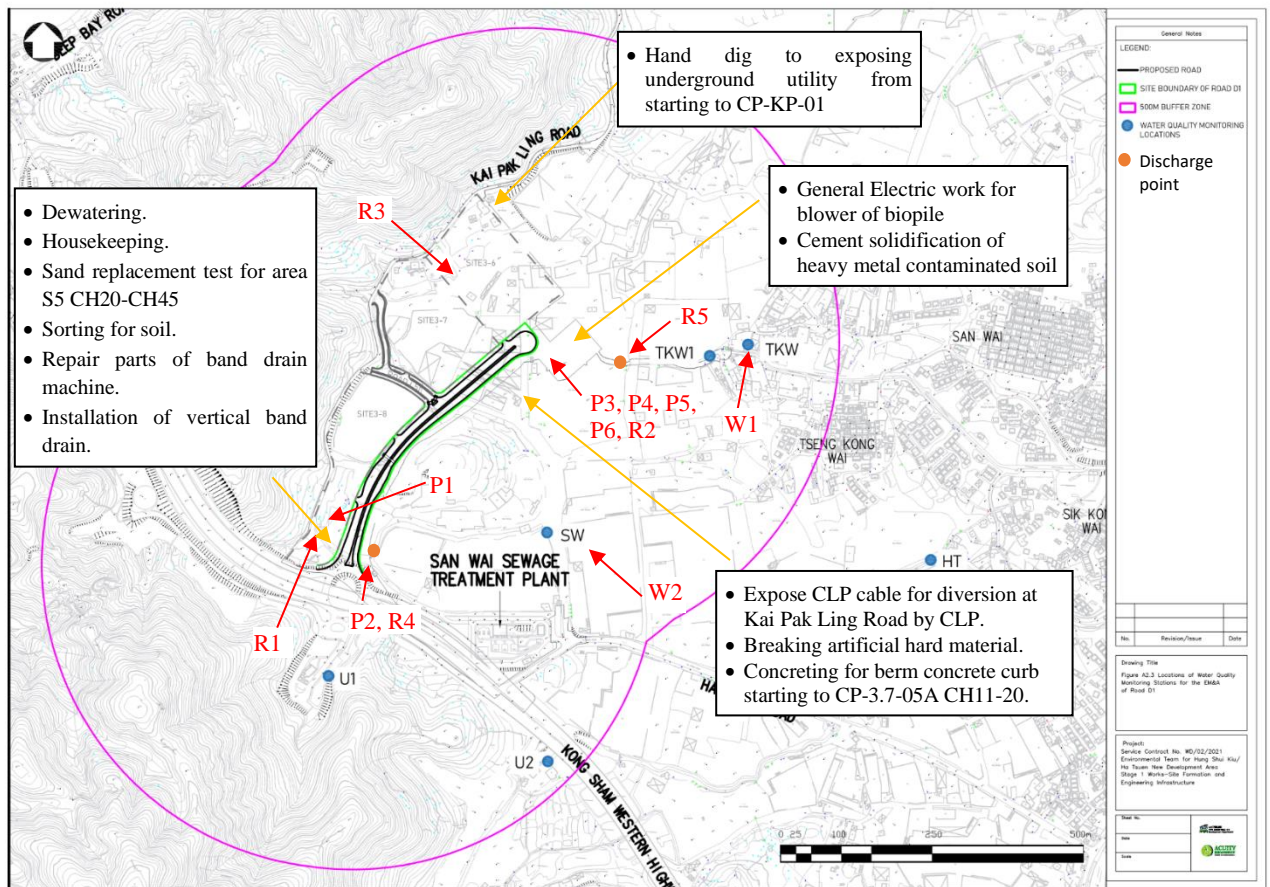
Water Quality Monitoring Station: TKW




(W2)

Water Quality Monitoring Station: SW

**Figure 1 Location Plan of Impact Water Quality Monitoring Stations (Site activities held on 16 January 2024 were reported in text boxes)**



Prepared by:	Angel Lee	Certified by:	F. C. Tsang
Designation:	Environmental Team Member	Designation:	Environmental Team Leader
Signature:		Signature:	
Date:	8 February 2024	Date:	8 February 2024

**Investigation Report for Exceedances of Limit Levels of Water Quality Monitoring on 18 January 2024**

Investigation was carried out in response to exceedances of limit levels during the water quality monitoring on 18 January 2024. The following table summarizes details of the exceedances.

<b>Environmental Team for Hung Shui Kiu/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure</b>								
Date	Station	Parameter (Unit)	Depth-averaged Measured Value	Action Level	Limit Level	Exceedance		Project Related (Y/N)
						AL	LL	
18/01	TKW1	Suspended Solids (SS) (mg/L)	18.0	7.1	7.8		✓	N
	TKW		14.5	7.0	7.1		✓	N

<p>Construction activities carried out at and adjacent to Road D1 during the investigation period:</p>	<p>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 18 January 2024 include:</p> <p><u>Site 3-8 (Road D1) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• Dewatering.</li> <li>• Housekeeping.</li> <li>• Sand replacement test for area S1 CH105-CH108.</li> <li>• Backfilling fine fill material for area S5.</li> <li>• Sorting for soil.</li> <li>• Repair parts of band drain machine.</li> <li>• Installation of vertical band drain.</li> </ul> <p>The construction works carried out at adjoining non-DP works area on 18 January 2024 include:</p> <p><u>Site 3-6 and Site 3-7 (Miss Chan) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• Expose CLP cable for diversion at Kai Pak Ling Road by CLP.</li> <li>• Transport soil to site 3-6 for temporary storage.</li> </ul> <p><u>Site 3-6 (near Chun Tsuen) (Temporary Stockpile Area) at Portion B1</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-6 (Wing Hong) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• General Electric work for blower of biopile.</li> <li>• Cement solidification of Heavy Metal Contaminated Soil.</li> </ul> <p><u>Site 3-7 (near gate B) at Portion A2</u></p> <ul style="list-style-type: none"> <li>• General site works.</li> </ul> <p><u>Road L51 at Portion A2</u></p> <ul style="list-style-type: none"> <li>• Trimming concrete for capping beam construction between</li> </ul>
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	<p>BP16 and BP18.</p> <ul style="list-style-type: none"> <li>Erect formwork for capping beam construction between BP10 and BP11.</li> </ul> <p><u>Site 3-7 and Site 3-8 at Portion B6</u></p> <ul style="list-style-type: none"> <li>No construction activity.</li> </ul> <p><u>Site 3-8 (Kai Pak Ling Road) at Portion B6</u></p> <ul style="list-style-type: none"> <li>No construction activity.</li> </ul> <p><u>Site 3-8 (Box Culvert) at Portion B7</u></p> <ul style="list-style-type: none"> <li>No construction activity.</li> </ul> <p><u>Site 3-8 (Hung Wan) at Portion B7</u></p> <ul style="list-style-type: none"> <li>No construction activity.</li> </ul>
<p>Possible reason for Action or Limit Level Non-compliance:</p>	<p>As observed during the site inspections on 18 January 2024, the Contractor had implemented on-site measures to control site runoff from Site 3-8, Road D1 and Contaminated Soil Treatment Area, including sump, WetSep and portable pumps for temporary storage and treatment of surface water and site effluent. During dry season, construction effluent from Site 3-6 and Site 3-7 was collected and diverted to the WetSep on site. Treated effluent was stored and reused on site for fugitive dust control. No direct effluent discharge from these sites was recorded.</p> <p>No evidence was found to indicate that the exceedances on 18 January 2024 were affected by the site activities. The non-compliances at TKW1 and TKW was considered related to surface runoff from the catchment, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</p> <p>No further exceedance of action or limit levels of SS level at TKW1 and TKW was detected during the water quality monitoring on 22 and 23 January 2024.</p> <p>In conclusion, the exceedances recorded on 18 January 2024 were considered non-project related.</p>
<p>Action taken / to be taken:</p>	<ol style="list-style-type: none"> <li>Repeated in-situ measurement was not applicable for laboratory measurement of SS level at TKW1 and TKW.</li> <li>The source of impact may be related to surface runoff, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</li> <li>Notifications of exceedances have been issued to the IEC, the Contractor, and the EPD on 24 January 2024.</li> <li>Duplicate water samples were collected on site. The monitoring data were checked and confirmed. All plant,</li> </ol>

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 exceedances on 18 January 2024 were affected by the site activities, no additional mitigation measure was discussed with the IEC, the RE and the Contractor.

6. 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:

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/ detention pond 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. Any site runoff detained behind the box culvert will be treated by the WetSep at Site 3-8 prior to discharge.

Site 3-6, Site 3-7, and Contaminated Soil Treatment Area

- f. During dry season, construction effluent will be collected and diverted to the Wetsep for treatment and storage. Treated effluent will be reused on site for water spraying and fugitive dust control. No direct discharge of surface runoff or construction effluent is anticipated.
- g. Impervious canvases are deployed to cover the stockpiles at the contaminated soil treatment area to minimise contaminated surface runoff.
- 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 escaping from the treatment area.

7. The frequency of monitoring was increased at TKW1 and TKW from 22 January 2024. No further action or limit level exceedances of SS level at TKW1 and TKW were recorded on 22 and 23 January 2024. Daily monitoring was therefore ceased after 23 January 2024. The following table summarizes the monitoring results of SS level at TKW1 and TKW on 22 and 23 January 2024.

	Date	22 January 2024	23 January 2024
	Parameters	SS (mg/L)	SS (mg/L)
Stations			
TKW1		1.6	2.9
TKW		1.4	5.5

**Photo Records of Site Inspection held by the ET on 18 January 2024**

*Site 3-8 and 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.



(P2)

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 or discharged at designated location under the requirement of effluent discharge licence.



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



(P3)

Contaminated materials were stocked on site.



(P4)

Stockpiles within the contaminated soil treatment area were covered by impervious canvases. Leachate collection tanks were also in place.



(P5)

Perimeter channels were installed outside the contaminated soil treatment area.



(P6)

A WetSep was provided on site to treat and store construction effluent from Site 3-6, Site 3-7, and Contaminated Soil Treatment Area. No off-site effluent discharge was recorded in January 2024.

**Site Photos on 18 January 2024 provided by the RE**

***Site 3-8 and Road D1 (Portion B7)***



(R1)

No effluent discharge from the site was observed.

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



(R2)

The contaminated soil treatment area were covered by impervious canvas. No surface runoff or effluent was leaked from the contaminated soil treatment area during the site inspection.

**Site 3-6 (Portion A2) (Non-DP area)**



(R3)

No effluent discharge from the site was observed.

**Discharge Point**

**Site 3-8 and Road D1 (Portion B7)**



(R4)

No off-site effluent discharge was recorded in January 2024.

**Contaminated Soil Treatment Area (Portion B2)**



(R5)

No off-site effluent discharge was recorded in January 2024.

**Site Observation Photos around Water Quality Monitoring Stations taken by the ET on 18 January 2024**



(W1)

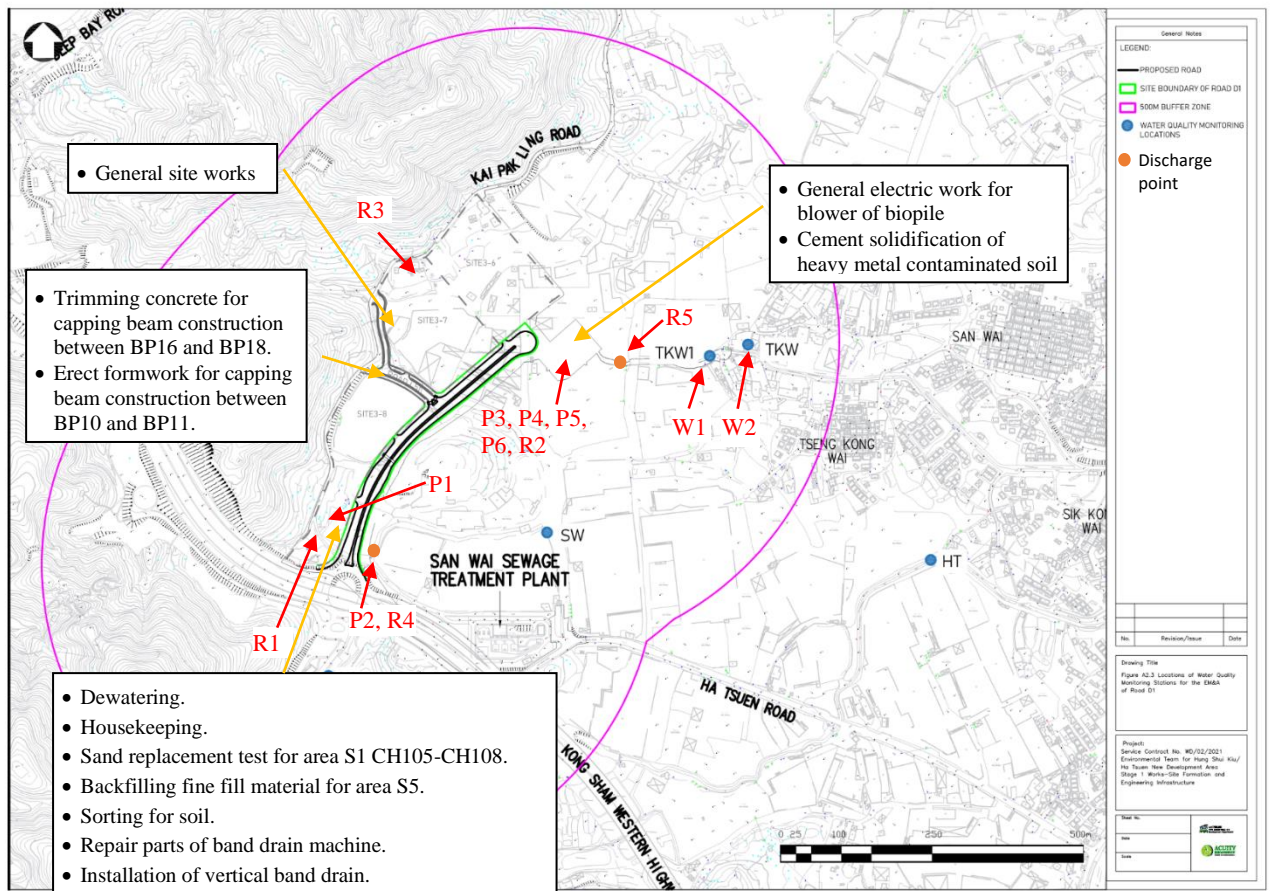
Water Quality Monitoring Station: TKW1




(W2)

Water Quality Monitoring Station: TKW

**Figure 1 Location Plan of Impact Water Quality Monitoring Stations (Site activities held on 18 January 2024 were reported in text boxes)**



Prepared by:	Angel Lee	Certified by:	F. C. Tsang
Designation:	Environmental Team Member	Designation:	Environmental Team Leader
Signature:		Signature:	
Date:	8 February 2024	Date:	8 February 2024

**Investigation Report for Exceedances of Limit Levels of Water Quality Monitoring on 20 January 2024**

Investigation was carried out in response to exceedances of limit levels during the water quality monitoring on 20 January 2024. The following table summarizes details of the exceedances.

<b>Environmental Team for Hung Shui Kiu/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure</b>								
Date	Station	Parameter (Unit)	Depth-averaged Measured Value	Action Level	Limit Level	Exceedance		Project Related (Y/N)
						AL	LL	
20/01	TKW1	Suspended Solids (SS) (mg/L)	17.5	7.1	7.8		✓	N
	TKW		16.5	7.0	7.1		✓	N
	SW		14.5	8.8	10.5		✓	N

<p>Construction activities carried out at and adjacent to Road D1 during the investigation period:</p>	<p>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 20 January 2024 include:</p> <p><u>Site 3-8 (Road D1) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• Dewatering.</li> <li>• Housekeeping.</li> <li>• Sand replacement test for Site 3-8 Road D1 Slope S/B (CH20- CH45) area S5.</li> <li>• Sorting for soil.</li> <li>• Repair parts of band drain machine.</li> <li>• Installation of vertical band drain.</li> </ul> <p>The construction works carried out at adjoining non-DP works area on 20 January 2024 include:</p> <p><u>Site 3-6 and Site 3-7 (Miss Chan) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• Expose CLP cable for diversion at Kai Pak Ling Road by CLP.</li> <li>• Transport soil to site 3-6 for temporary storage.</li> <li>• Welding hand railing along access at berm from starting to CP-3.7-05A.</li> </ul> <p><u>Site 3-6 (near Chun Tsuen) (Temporary Stockpile Area) at Portion B1</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-6 (Wing Hong) at Portion B2</u></p> <ul style="list-style-type: none"> <li>• General electric work for blower of biopile.</li> <li>• Cement solidification of heavy metal contaminated soil.</li> </ul>
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	<p><u>Site 3-7 (near gate B) at Portion A2</u></p> <ul style="list-style-type: none"> <li>• General site works.</li> </ul> <p><u>Road L51 at Portion A2</u></p> <ul style="list-style-type: none"> <li>• General site works.</li> <li>• Erect formwork for vertical blinding between BP16 and BP18.</li> </ul> <p><u>Site 3-7 and Site 3-8 at Portion B6</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-7 and Site 3-8 (Kai Pak Ling Road) at Portion B6</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-8 (Box Culvert) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul> <p><u>Site 3-8 (Hung Wan) at Portion B7</u></p> <ul style="list-style-type: none"> <li>• No construction activity.</li> </ul>
<p>Possible reason for Action or Limit Level Non-compliance:</p>	<p>As observed during the site inspections on 18 and 20 January 2024, the Contractor had implemented on-site measures to control site runoff from Site 3-8, Road D1 and Contaminated Soil Treatment Area, including sump, WetSep and portable pumps for temporary storage and treatment of surface water and site effluent. During dry season, construction effluent from Site 3-6 and Site 3-7 was collected and diverted to the WetSep on site. Treated effluent was stored and reused on site for fugitive dust control. No direct effluent discharge from these sites was recorded.</p> <p>No evidence was found to indicate that the exceedances on 20 January 2024 were affected by the site activities. The non-compliances at TKW1, TKW and SW was considered related to surface runoff from the catchment, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</p> <p>No further exceedance of action or limit levels of SS level at TKW1, TKW and SW was detected during the water quality monitoring on 22 and 23 January 2024.</p> <p>In conclusion, the exceedances recorded on 20 January 2024 were considered non-project related.</p>
<p>Action taken / to be taken:</p>	<ol style="list-style-type: none"> <li>1. Repeated in-situ measurement was not applicable for laboratory measurement of SS level at TKW1, TKW and SW.</li> <li>2. The source of impact may be related to surface runoff, effluent discharges from workshops, open storages, warehouse, private toilet(s) and/ or residential dwellings along the catchment downstream of the site.</li> <li>3. Notifications of exceedances have been issued to the IEC, the</li> </ol>



	<p>Contractor, and the EPD on 31 January 2024.</p> <p>4. Duplicate water samples were collected on site. 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.</p> <p>5. As no evidence was found to indicate that the exceedances on 20 January 2024 were affected by the site activities, no additional mitigation measure was discussed with the IEC, the RE and the Contractor.</p> <p>6. 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:</p> <p><u>Site 3-8 and Road D1</u></p> <p>a. The WetSep and other accessories shall be maintained regularly to minimise malfunction.</p> <p>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.</p> <p>c. The Contractor will provide sump/ detention pond at Site 3-8 to temporary store site runoff prior to treatment.</p> <p>d. Channels/ earth bunds/ sandbag barriers will be properly provided on site to direct stormwater to the sump(s).</p> <p>e. Any site runoff detained behind the box culvert will be treated by the WetSep at Site 3-8 prior to discharge.</p> <p><u>Site 3-6, Site 3-7, and Contaminated Soil Treatment Area</u></p> <p>f. During dry season, construction effluent will be collected and diverted to the Wetsep for treatment and storage. Treated effluent will be reused on site for water spraying and fugitive dust control. No direct discharge of surface runoff or construction effluent is anticipated.</p> <p>g. Impervious canvases are deployed to cover the stockpiles at the contaminated soil treatment area to minimise contaminated surface runoff.</p> <p>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 escaping from the treatment area.</p> <p>7. The frequency of monitoring was increased at TKW1, TKW and SW from 22 January 2024. No further action or limit level exceedances of SS level at TKW1, TKW and SW were recorded on 22 and 23 January 2024. Daily monitoring was therefore ceased after 23 January 2024. The following table</p>
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summarizes the monitoring results of SS level at TKW1, TKW and SW on 22 and 23 January 2024.

Date	22 January 2024	23 January 2024
<b>Parameters</b>	<b>SS (mg/L)</b>	<b>SS (mg/L)</b>
<b>Stations</b>		
TKW1	1.6	2.9
TKW	1.4	5.5
SW	1.0	1.2

**Photo Records of Site Inspection held by the ET on 18 January 2024**

*Site 3-8 and 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.



(P2)

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 or discharged at designated location under the requirement of effluent discharge licence.

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



(P3)

Contaminated materials were stocked on site.



(P4)

Stockpiles within the contaminated soil treatment area were covered by impervious canvases. Leachate collection tanks were also in place.



(P5)

Perimeter channels were installed outside the contaminated soil treatment area.



(P6)

A WetSep was provided on site to treat and store construction effluent from Site 3-6, Site 3-7, and Contaminated Soil Treatment Area. No off-site effluent discharge was recorded in January 2024.

**Site Photos on 20 January 2024 provided by the RE**

***Site 3-8 and Road D1 (Portion B7)***



(R1)

No effluent discharge from the site was observed.

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



(R2)

The contaminated soil treatment area were covered by impervious canvas. No surface runoff or effluent was leaked from the contaminated soil treatment area during the site inspection.

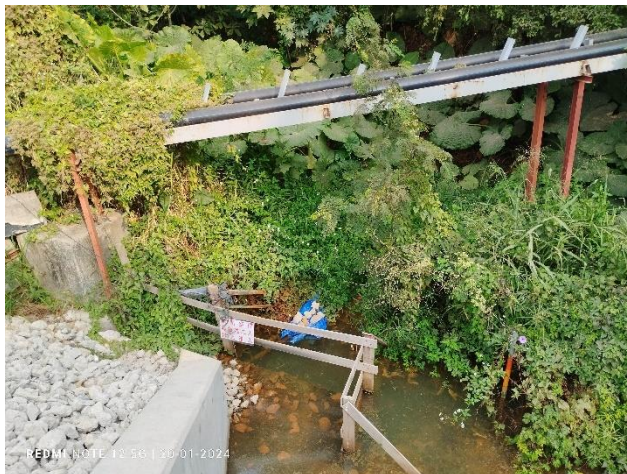
**Site 3-6 (Portion A2) (Non-DP area)**



(R3)

No effluent discharge from the site was observed.

**Site 3-8 and Road D1 (Portion B7)**



(R4)

No off-site effluent discharge was recorded in January 2024.

**Contaminated Soil Treatment Area (Portion B2)**



(R5)

No off-site effluent discharge was recorded in January 2024.

**Site Observation Photos around Water Quality Monitoring Stations taken by the ET on 20 January 2024**



(W1)

Water Quality Monitoring Station: TKW1



(W2)

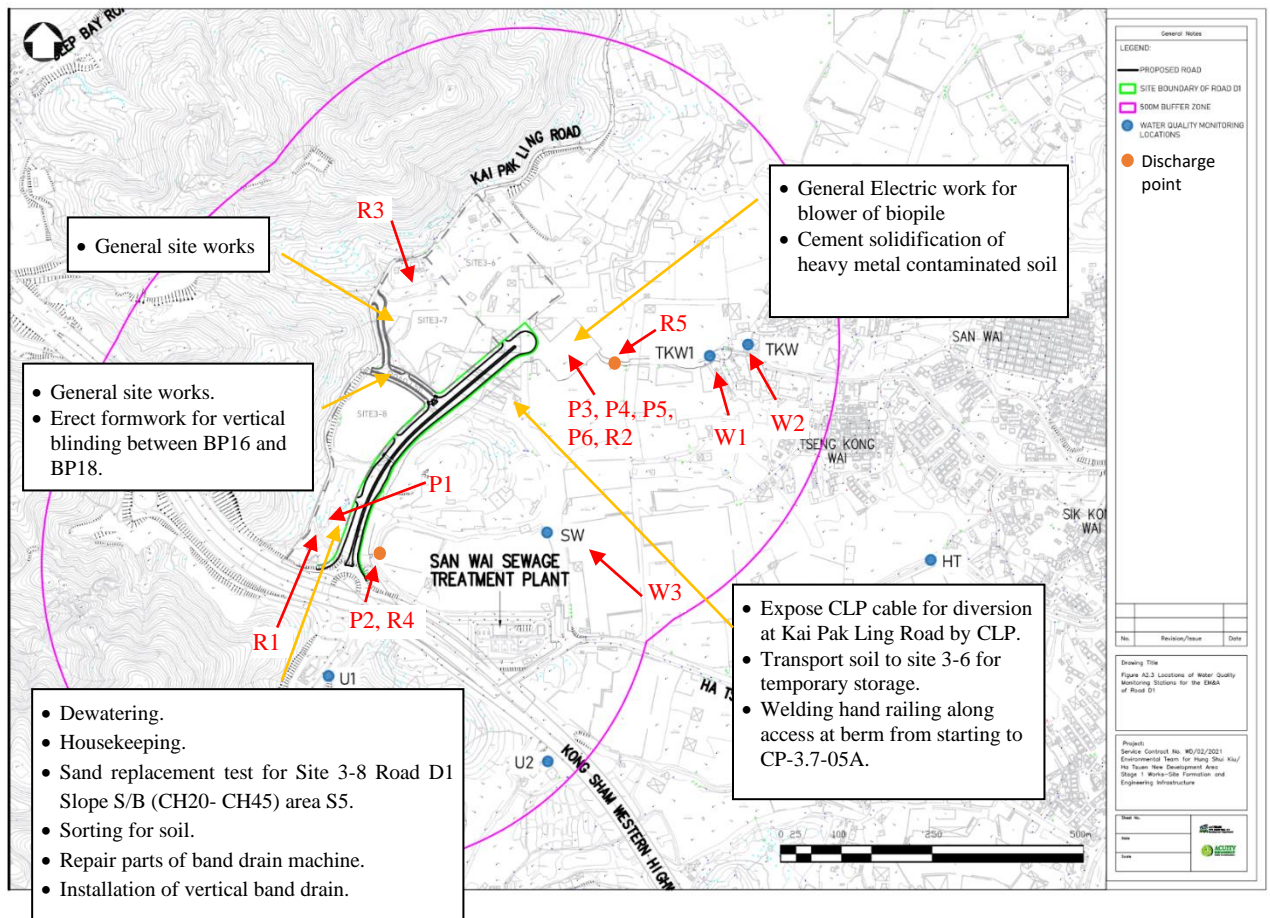
Water Quality Monitoring Station: TKW




(W3)

Water Quality Monitoring Station: SW

**Figure 1 Location Plan of Impact Water Quality Monitoring Stations (Site activities held on 20 January 2024 were reported in text boxes)**



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