



CONTRACT NO. SPW 12/2021

SHEK WU HUI EFFLUENT POLISHING PLANT – MAIN WORK

**UNDER FURTHER ENVIRONMENTAL PERMIT NO. FEP-
02/474/2013**

**QUARTERLY ENVIRONMENTAL MONITORING & AUDIT
REPORT**

- APRIL TO JUNE 2024 -

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Contract No. SPW 13/2021

Shek Wu Hui Effluent Polishing Plant – Main Work

Quarterly Environmental Monitoring & Audit Report

April to June 2024

(September 2024)

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EXECUTIVE SUMMARY

- i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – [April to June 2024](#) of Shek Wu Hui Effluent Polishing Plant – Main Work under Further Environmental Permit no. FEP-02/474/2013 (Hereafter as “the Project”). This is the [12th](#) EM&A quarterly report prepared by Environmental Team under Contract No. SPW 12/2021, presenting the environmental monitoring findings and information recorded during the period of [1 April 2024 to 30 June 2024](#).

Construction Activities for the Reporting Quarter

- ii. During this reporting period, the principal work activities of individual contracts are summed up in **Table I**.

Table I *Summary table of principal work activities in the reporting period*

Contract No.	Contract Title	Month / Year	Principal work activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	April to June 2024	<ul style="list-style-type: none"> • RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	April to June 2024	<ul style="list-style-type: none"> • RC works • ABWF works • Pipe laying
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	April to June 2024	<ul style="list-style-type: none"> • Civil Works at Portion B-1 (Sidestream) • Pump & Pipework installation at Portion B-1 (Sidestream) • Installation of E&M Plant Equipment (Sidestream) • Installation of EOT & Monorail at Portion B-1 (Sidestream) • Electrical Installation at Workshop No.2 • MVAC Installation at Workshop No.2

			<ul style="list-style-type: none"> • LV switchboard installation at Workshop No.2 • Electrical Installation at SDB • Plumbing System Installation at SDB • MVAC System Installation at SDB • FS System Installation at SDB • Delivery & Jointing of FRP Tanks at SDB • Installation of CHP Acoustic Enclosure at CHP • Installation of Lifting Appliances at CHP • Steam Boiler System Installation at CHP • FS Systems Installation at CHP • Delivery for Ferric Chloride Storage Tanks Installation • THP System Installation at THP • Bio-gas Holding Tank Installation at BGHT • Sludge Cooler Delivery & Installation at SDT • Installation of FRP Walkway and Platform at SDT • Installation of H2S Removal System at SDT • SAT of Penstock and Stoplogs at SPS • Installation of pipework at SAS Pumping Station
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DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	April to June 2024	<ul style="list-style-type: none"> E&M works for Leachate Pre-treatment Plant at existing compressor house E&M works at Portion B-5, MFB2. E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System E&M works at Portion B-2, Inlet Works E&M works at Portion B-3, PST No. 1-4
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iii. Implementation of the key mitigation measures during the reporting quarter

Table II Summary table of key mitigation measures implemented in the reporting period according to the contract no.

Contract No. DC/2018/06		
April 2024	Water Quality	Water mitigation has been implemented for the exposed slope.
		The accumulation of untreated water has been removed or collected in eco tank for proper treatment
		The broken sandbags have been removed
	Air Quality	Dust suppression measures should be enhanced.
	Waste Management	The waste has been removed between the workshop and SD.
	Ecology	Green fence has been properly maintained.
May 2024	Water Quality	Notified from the Contractor that the channel has been blocked and no direct discharge to Ng Tung River. The Contractor has been reminded to regularly inspect the channel condition to avoid overflow during rainy season.
		Adequate water has been refilled in wheeling washing pool. (Gate 1).
		Water pipe (not connected) laying toward the vehicle exit point has been relocated. The Contractor has been reminded that all water generated from site should be directed to the Wetsep for treatment before discharge
		The mud track on public road and the wheel washing facilities at site exit has been cleared and enhanced, respectively.
		The muddy water on public road has been cleared.
		Checked and confirmed with the Contractor that water has

		been treated by Wetsep before discharge to the drainage system.
	Waste Management	Waste has been disposed.
	Landscape & visual	Water-filled barriers along the site boundary have been properly maintained.
June 2024	Water Quality	The stagnant water has been collected and directed to Wetsep for treatment.
		Soil material near Outfall has been cleared.
		The accumulated soil material in channel has been removed with enhanced sandbag barriers to avoid discharge of untreated site water. Stagnant water has been pumped to Wetsep for treatment.
		Geotextile covering the storm drain has been replaced.
	Waste Management	Chemical containers have been removed.
Contract No. DC/2018/07		
April 2024	Waste Management	Soil material in drip tray has been cleared.
		The chemical container inside the Inlet has been removed.
		Accumulated construction waste have been disposed
		Stagnant water in drip tray has been removed.
	Air Quality	The NRMM label has been affixed to the generator.
		Water spraying has been provided on the haul road next to main control room.
		Water spraying has been provided on haul road near PST and Inlet.
		Water spraying has been implemented for the dusty surface area.
	Water Quality	The pipe not connected to the Wetsep has been removed.
May 2024	Air Quality	Dust suppression measure has been provided for the dusty site surface area.
	Water Quality	Sandbag barrier has been provided to the discharge point to prevent muddy water on road entering the drainage system
		Accumulated water has been removed.
		The water pipes have been removed. The Contractor was reminded to check and ensure that all water generated from site should be directed to the appropriate wastewater treatment facilities.
June 2024	Water Quality	The discharge point has been covered with sandbag barrier provided around to avoid untreated site surface runoff entering the public drainage system. The Contractor was reminded to regularly inspect and maintain the water mitigation measures implemented and remove construction material nearby.

		The stagnant water has been removed. The Contractor was reminded to regularly inspect on-site condition and prevent leakage of untreated site surface run-off.
		The water pump has been removed. The Contractor was reminded that all water generated from site shall be treated by Wetsep before discharge
	Waste Management	Waste has been disposed (Inlet).
Contract No. DC/2018/03		
April 2024	Waste Management	Waste has been disposed regularly
	Ecology	Green visual barrier has been properly maintained
May 2024	Air	Confirmed by the Contractor that the working platform operates using electricity and thus no NRMM Label is required to be affixed.
	Waste Management	Waste has been disposed/ properly stored in containers.
June 2024	-	-
Contract No. DC/2018/04		
April 2024	-	-
May 2024	-	-
June 2024	-	-

Summary of Exceedances, Investigation and Follow-up

Noise Monitoring

- iv. Noise monitoring were conducted at noise monitoring stations namely, NM1 – G/F, Wai Loi Tsuen, NM2 – G/F, Fu Tei Au, and NM3 – G/F, Man Kok Village on a weekly basis in the reporting period.
- v. No action or limit level exceedance was recorded in this reporting quarter.

Air Quality Monitoring

- vi. 1-hour Total Suspended Particulates (TSP) monitoring was conducted at air quality monitoring stations namely, AM1 – Wai Loi Tsuen and AM2 – Fu Tei Au; 24-hour TSP monitoring was conducted at air quality monitoring stations namely, AM1a* – Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW and AM2a – Site Boundary of the Shek Wu Hui STW (North). 24-hour TSP shall be sampled at least once in

every 6 days, while sampling for 1-hour TSP shall be at least 3 times in every 6 day in the reporting month.

- vii. 24-hr TSP monitoring at AM2a* scheduled on 9th April 2024 was suspended due to power supply failure and has been resumed on 15th April 2024.
- viii. No action or limit level exceedance was recorded in this reporting quarter.

Ecological Monitoring

- ix. Ecological monitoring conducted on a weekly basis at both high and low tides (it is considered high tide when tidal levels are above 1.5m and low tide when tidal level are below 1.5m at Tsim Bei Tsui Station). The magnitude of how much above or below 1.5m was subject to tidal conditions of that week as it varied throughout different times of the year. Nonetheless, the high and low tide relative to that week's tidal condition were taken into consideration.
- x. No action or limit level exceedance was recorded in April and June 2024.
- xi. The t-test concluded that the abundance for Great Egret was significantly lower than the baseline monitoring result for May and summer at 95% and 99% confidence level, 1 limit level was triggered for ecological monitoring in May 2024.
- xii. Despite a drop in Great Egret abundance, the average number of all waterbirds and abundance of other representative Waterbirds was no significant change in May 2024 compared to baseline data. It is unlikely that project activity (e.g. noise, waste water) will affect one species only. As the decline of the Great Egret was considered non-project related, no remedial measure for the project is proposed. However, it is recommended that the construction site should continue keeping the good site practice to minimize disturbance caused to surrounding area.

Table III Summary table of non-compliance (exceedances) in the reporting period

Parameter	No. of Exceedance		Investigation result
	Action Level	Limit Level	
April 2024			
Air Quality (1-hour TSP)	0	0	-
Air Quality (24-hour TSP)	0	0	-
Noise	0	0	-
Ecology	0	0	-
May 2024			
Air Quality (1-hour TSP)	0	0	-
Air Quality (24-hour TSP)	0	0	-

Noise	0	0	-
Ecology	0	1	The decline of the Great Egret was considered non-project related
June 2024			
Air Quality (1-hour TSP)	0	0	-
Air Quality (24-hour TSP)	0	0	-
Noise	0	0	-
Ecology	0	0	-

Complaints, Notifications of Summons and Successful Prosecutions

- i. No environmental complaints, notification of summons and successful prosecution regarding the construction works was recorded in the reporting quarter.

Table IV Summary table of complaints, summons and successful prosecutions in the reporting period

Events	Number	Brief description	Follow up and remedial actions	Status and remarks
Complaint	0	-	-	-
Notification of Summons and Successful Prosecution	0	-	-	-

Reporting Changes

- ii. There are no particular reporting changes in the reporting period.

Future Key Issues

- iii. In the next reporting period, the principal work activities of individual contracts are anticipated as follows.

Table V Summary table of anticipated work activities in the next reporting period

Contract No. DC/2018/06
<ul style="list-style-type: none"> • RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS
Contract No. DC/2018/07
<ul style="list-style-type: none"> • RC works • Pipe laying
Contract No. DE/2018/03
<ul style="list-style-type: none"> • Pump & Pipework installation at Portion B-1 (Sidestream) • Installation of E&M Plant Equipment (Sidestream) • Installation of EOT & Monorail at Portion B-1 (Sidestream) • Electrical Installation at Workshop No.2 • MVAC Installation at Workshop No.2 • LV Switch Board Installation at Workshop No.2 • Installation of lift at Workshop No.2 & SDB • MVAC Installation at SDB • Plumbing System Installation at SDB • FS System Installation at SDB • Electrical Installation at SDB • Delivery & Jointing of FRP Tanks at SDB • Bio-gas Holding Tank Installation • THP System Installation at THP • Steam Boiler System Installation at CHP • Installation of CHP Acoustic Enclosure at CHP • Installation of Pipework and Pumps at SAS Pumping Station • Sludge Cooler Delivery & Installation at SDT • Installation of FRP Walkway and Platform at SDT • Installation of H2S Removal System at SDT • Penstock and Stoplogs installation at SPS

Contract No. DE/2018/04

- E&M for Leachate Pre-treatment Plant at existing compressor house, BR No 3&4 and MFB1
- E&M works at Portion B-5, MFB2.
- E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System.
- E&M works at Portion B-4, BR 2A & 2B.
- E&M works at Portion B-2, Inlet Works.
- E&M works at Portion B-3, PST No. 1-4.

1 Introduction

1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) No. FEP-02/474/2013 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for North East New Territories New Development Areas (Register No.: AEIAR-175/2013).

1.2 Structure of the Report

- Section 1** ***Introduction*** – details the scope and structure of the report.
- Section 2** ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3** ***Environmental Monitoring and Audit Requirements*** – summarizes all monitoring parameters and methodology, no. of exceedances, influencing factors on the monitoring results.
- Section 4** ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 5** ***Complaints, Notification of Summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution.
- Section 6** ***Comments, Conclusion and Recommendations*** – summarizes monitoring methodology, the effectiveness of EM&A Programme and mitigation measures, and recommendations based on findings during site audits.

2 Project Background

2.1 Background

2.1.1. The existing Shek Wu Hui Sewage Treatment Works (SWHSTW) has been operating and maintaining for 30 years by the Drainage Services Department (DSD). It provides secondary level treatment to sewage collected from Sheung Shui, Fanling and adjacent areas. SWHSTW was completed in two stages and expanded progressively in the past years. In 1984, Stage I of SWHSTW was commissioned with design capacity of 60,000 cubic meters per day (m^3 /day) at Average Dry Weather Flow (ADWF). In 2001, Stage II of SWHSTW was completed with design capacity enhanced to 80,000 m^3 /day at ADWF. In 2009, the expansion of SWHSTW was completed and its design capacity was increased to 93,000 m^3 /day at ADWF.

2.1.2. Further expansion of SWHSTW has been planned to be carried out in order to cope with the forecast increase in flow from Fanling North and Kwu Tong North New Development Area (NDA) and other NDAs and developments in three phases, namely Phase 1A, 1B and 2, which are later revised to Main Works Stage 1, Stage 2 and Stage 3 respectively. The EIA study report (Register No.: AEIAR-175/2013) for the NENT NDAs Study covered the assessment for the Further Expansion of SWHSTW, which is a designated project under item F.1 and F.2 of Part 1, Schedule 2 of the EIA Ordinance. The location of the project site is shown in [Figure 2.1](#).

A Further EP was applied on 18 January 2018 to assume the responsibility for constructing and operating the SWHEPP Project up to a capacity of 190,000 m^3 /day. The Further EP No. FEP-02/474/2013 was issued to DSD as permit holder on 15 February 2018. Due to overlapping of scope with the Further EP currently in force, the Further EP No. FEP-01/474/2013 was subsequently surrendered on 15 August 2018.

2.2 Project Organization and Contact Personnel

2.2.1. Drainage Service Department (DSD) is the overall project controllers for the Project. For the construction phase of the Project, Engineer's Representative, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.2.2. The project organization and lines of communication with respect to environmental protection works are shown in [Figure 2.2](#). Key personnel and contact particulars are summarized in **Table 2.1**.

Table 2.1 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.
Drainage Services Department (DSD)	Permit Holder	Engineer	Ms. Li Lin	2594 7463
AECOM	Supervisor Representative	Resident Engineer	Ms. Ada Chan	3907 1134
Kwan Lee - Chun Wo Joint Venture	Contractor (DC/2018/06)	Environmental Manager	Mr. Clarence Yeung	3758 8551
		Assistance Environmental Engineer	Mr. Timothy To	6203 7133
	Contractor (DC/2018/07)	Environmental Engineer	Ms. Barbara Yiu	9758 2034
JEC	Contractor (DE/2018/03)	Environmental Officer	Ms. Juliet Ting	6826 7319
			Mr. Chris Cheng	6389 2975
Bestwise	Contractor (DE/2018/04)	Environmental Officer	Mr. Albus Cheung	9731 0831
Meinhardt Infrastructure and Environment Ltd.	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Claudine Lee	9612 9229
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939

2.3 Principal Work and Activities

2.3.1. In the reporting month, the principal work activities conducted of individual contracts are as follow. [Appendix 1.1](#) lists the construction programmes of individual activities. The layout plans showing the locations of reported construction activities and key PME used for the works contracts in the reporting quarter are provided in [Appendix 2.1](#)

Table 2.2 Summary table of principal work activities in the reporting period

Contract No.	Contract Title	Month / Year	Principal work activities
DC/2018/06	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation	April to June 2024	<ul style="list-style-type: none"> • RC works • Pipe jacking • Sewage, utility and pipe works • Road works • ABWF works • ELS
DC/2018/07	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sewage Treatment Facilities	April to June 2024	<ul style="list-style-type: none"> • RC works • ABWF works • Pipe laying
DE/2018/03	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities	April to June 2024	<ul style="list-style-type: none"> • Civil Works at Portion B-1 (Sidestream) • Pump & Pipework installation at Portion B-1 (Sidestream) • Installation of E&M Plant Equipment (Sidestream) • Installation of EOT & Monorail at Portion B-1 (Sidestream) • Electrical Installation at Workshop No.2 • MVAC Installation at Workshop No.2 • LV switchboard installation at Workshop No.2 • Electrical Installation at SDB • Plumbing System Installation at SDB • MVAC System Installation at SDB • FS System Installation at SDB • Delivery & Jointing of FRP Tanks at SDB • Installation of CHP Acoustic Enclosure at CHP • Installation of Lifting Appliances at CHP

			<ul style="list-style-type: none"> • Steam Boiler System Installation at CHP • FS Systems Installation at CHP • Delivery for Ferric Chloride Storage Tanks Installation • THP System Installation at THP • Bio-gas Holding Tank Installation at BGHT • Sludge Cooler Delivery & Installation at SDT • Installation of FRP Walkway and Platform at SDT • Installation of H2S Removal System at SDT • SAT of Penstock and Stoplogs at SPS • Installation of pipework at SAS Pumping Station
DE/2018/04	Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities	April to June 2024	<ul style="list-style-type: none"> • E&M works for Leachate Pre-treatment Plant at existing compressor house • E&M works at Portion B-5, MFB2. • E&M works at Portion B-7, including DOU No.3A, Emergency Generator House and FS & Sprinkler Pumping Room, Chemical System No.1, Street Fire Hydrant & Booster Pump Room and Temporary Chemical System • E&M works at Portion B-2, Inlet Works • E&M works at Portion B-3, PST No. 1-4

3 Environmental Monitoring and Audit Requirements

- 3.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed projects. Overall layout showing work areas and monitoring stations is shown in [Figure 2.1](#) and [Figure 4.1 – 4.3](#) respectively. [Appendix 3.1](#) gives the details of the environmental monitoring requirements
- 3.0.2. The Action and Limit Levels for construction air quality, noise and ecological monitoring works are shown in [Appendix 3.2](#).
- 3.0.3. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. The environmental mitigation implementation schedule is shown in [Appendix 3.3](#).

3.1 Weather conditions

- 3.1.1. The weather conditions were generally sunny, cloudy and with occasional rainstorms during the monitoring sessions of the reporting quarter. The details of weather conditions for each individual monitoring session were presented in the corresponding Monthly EM&A Reports within the reporting period.

3.2 Noise Monitoring Results

- 3.2.1. Noise monitoring results measured in this reporting period are reviewed and summarized. Graphical presentation of noise monitoring can be referred in [Appendix 3.4](#).
- 3.2.2. [No action or limit level exceedance was recorded in this reporting quarter.](#)

3.3 Air Monitoring Results

- 3.3.1. Both 1-hour and 24-hour TSP were all conducted as scheduled in the reporting period. Air quality monitoring results measured in this reporting period are reviewed and summarized. Graphical presentation of air quality monitoring can be referred in [Appendix 3.5](#).
- 3.3.2. [24-hr TSP monitoring at AM2a* scheduled on 9th April 2024 was suspended due to power supply failure and has been resumed on 15th April 2024.](#)
- 3.3.3. [No action or limit level exceedance was recorded in this reporting quarter.](#)

3.4 Ecology Monitoring Results

- 3.4.1. Ecological monitoring was conducted as scheduled in the reporting period. Details of ecological monitoring results in the reporting period are provided in [Appendix 3.6](#).

- 3.4.2. No action or limit level exceedance was recorded in April and June 2024.
- 3.4.3. The t-test concluded that the abundance for Great Egret was significantly lower than the baseline monitoring result for May and summer at 95% and 99% confidence level, 1 limit level was triggered for ecological monitoring in May 2024.
- 3.4.4. Despite a drop in Great Egret abundance, the average number of all waterbirds and abundance of other representative Waterbirds was no significant change in May 2024 compared to baseline data. It is unlikely that project activity (e.g. noise, waste water) will affect one species only. As the decline of the Great Egret was considered non-project related, no remedial measure for the project is proposed. However, it is recommended that the construction site should continue keeping the good site practice to minimize disturbance caused to surrounding area.

3.5 Waste Management

- 3.5.1. The Summary Waste Flow Table is shown in [Appendix 3.7](#). Whenever possible, materials were reused on-site as far as practicable.

3.6 Landscape and Visual

- 3.6.1. Site audits were conducted on a bi-weekly basis and the landscape and visual mitigation measures of this project were monitored from time to time.
- 3.6.2. No non-compliance of the landscape and visual mitigation measures was recorded in the reporting quarter.

3.7 Influencing Factors on the Monitoring Results

- 3.7.1. In this reporting quarter, major noise and dust sources were recorded at designated monitoring stations and are shown below.

Table 3.1 Major noise sources during monitoring sessions in the reporting period

Monitoring Stations	Major Noise Source
NM1 - Wai Loi Tsuen	N/A
NM2 - Fu Tei Au	Construction noise from other construction projects
NM3 - Man Kok Village	Road traffic at Po Wan Road

Table 3.2 Major dust sources during monitoring sessions in the reporting period

Monitoring Stations	Major Dust Source
---------------------	-------------------

AM1 - Wai Loi Tsuen	Road Traffic at Sheung Shui Tung Hing Road
AM2 - Fu Tei Au	Construction activities from other construction projects
AM1a ⁽¹⁾ - Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW	Operating machines and vehicle movement within SWHSTW
AM2a - Site Boundary of the Shek Wu Hui STW (North)	N/A

1. Remark: Due to close proximity to construction works and heavy machines, presence of physical barrier and safety concerns, find adjustment for the location of AM1a was proposed in accordance to Section 2.2.4.6 of the EM&A Manual. It was adjusted from the ground level near the control room of SWHSTW to the roof floor of that control room. The proposal has sought approval from ER and IEC, and agreement from EPD in May 2022.

3.7.2. Major observations were also recorded at designated monitoring locations and are shown below

Table 3.3 Major observations during ecological monitoring in the reporting period

Monitoring locations	Observations	
	Project related	Non-project related
T1 (PC1, PC2)	N/A	Human Activities such as Cycling, Grazing, Fishing and playing of Moto-boat Construction activities such as excavation, and breaking works
T2 (PC3, PC4)	Construction activities such as generator & welding works, Scaffolding, sedimentation tank, Excavation and crane	Human Activities such as Fishing, Cycling, Grazing, Grass Cutting and Landscape Planting Construction activities such as Sheet-piling, generator & welding works, Scaffolding, sedimentation tank, Excavation, crane and breaking works
PC5	Construction activities such as Excavation and crane	Construction activities such as Excavation, Sheet-piling, generator and breaking works
T3 (PC6, PC7)	Construction activities such as Sheet-piling	Human Activities such as Cycling, Grazing, Fishing and Grass Cutting Construction activities such as excavation, sheet-piling, generator & welding works, scaffolding, lifting works

4 Compliance Audit

- 4.0.1. Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. The summary of exceedance of Action/Limit Level for environmental monitoring is presented in [Appendix 4.1](#).
- 4.0.2. The observations and recommendations made for each contract were shown in [Appendix 4.2](#).

4.1 Noise Monitoring

- 4.1.1. [No action or limit level exceedance was recorded in this reporting quarter.](#)

4.2 Air Quality Monitoring

- 4.2.1. [No action or limit level exceedance was recorded in this reporting quarter.](#)

4.3 Ecological Monitoring

- 4.3.1 [No action or limit level exceedance was recorded in April and June 2024.](#)
- 4.3.2 [The t-test concluded that the abundance for Great Egret was significantly lower than the baseline monitoring result for May and summer at 95% and 99% confidence level, 1 limit level was triggered for ecological monitoring in May 2024.](#)
- 4.3.3 [Despite a drop in Great Egret abundance, the average number of all waterbirds and abundance of other representative Waterbirds was no significant change in May 2024 compared to baseline data. It is unlikely that project activity \(e.g. noise, waste water\) will affect one species only. As the decline of the Great Egret was considered non-project related, no remedial measure for the project is proposed. However, it is recommended that the construction site should continue keeping the good site practice to minimize disturbance caused to surrounding area.](#)

4.4 Landscape and visual impact

- 4.4.1 [No non-conformity for landscape and visual impact was recorded in the reporting quarter.](#)

4.5 Review of the Reasons for and the Implications of Non-compliance

- 4.5.1. [No environmental non-compliance was recorded in the reporting quarter.](#)

4.6 Summary of action taken in the event of and follow-up on non-compliance

- 4.6.1. [There was no particular action taken since no non-compliance was recorded in the reporting quarter.](#)

5 Complaints, Notification of Summons and Prosecution

- 5.0.1 No environmental complaints, notification of summons and successful prosecution regarding construction works was recorded in the reporting quarter.
- 5.0.2 No notification of summons and successful prosecution regarding construction works was recorded in the reporting quarter.
- 5.0.3 The details environmental complaints, notification of summons and successful prosecution for the Project are summarized by complaint log in [Appendix 5.1](#).
- 5.0.4 Cumulative statistics on complaints and successful prosecutions are summarized in **Table 5.1** and **Table 5.2** respectively.

Table 5.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works to Mar 2024	5
April 2024	0
May 2024	0
June 2024	0
Project-to-Date	5

Table 5.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative no. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0

6 Comment, Conclusions and Recommendations

6.1 Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme

6.1.1. In terms of project construction phase monitoring, with the implementation of mitigation measures as recommended, no project related exceedance was recorded. In general, no adverse construction air and noise impacts were recorded within the project area with the mitigation measures in place. It could be concluded that no adverse environmental impact was caused to the surrounding environment and the sensitive receivers. The overall environmental impact control of the Project is considered to be effective and efficient.

6.2 Review on Effectiveness of Mitigation Measures

6.2.1. The mitigation measures according to the Environmental Mitigation Implementation Schedule (EMIS) and the EIA are considered effective in minimizing environmental impacts as no exceedances related to the Project works was recorded throughout the monitoring period. Hence, the EM&A programme was considered effective and shall be maintained.

6.2.2. The Contractor has implemented the recommended mitigation measures except for those mitigation measures not applicable at this stage. [No site audit non-compliance was recorded during the reporting quarter.](#)

6.2.3. Environmental monitoring works were carried out in the reporting quarter and all monitoring results were checked and reviewed.

6.3. Recommendations

6.3.1. In regards to the results and findings during the weekly environmental inspections in the reporting period, recommendations were made as follow.

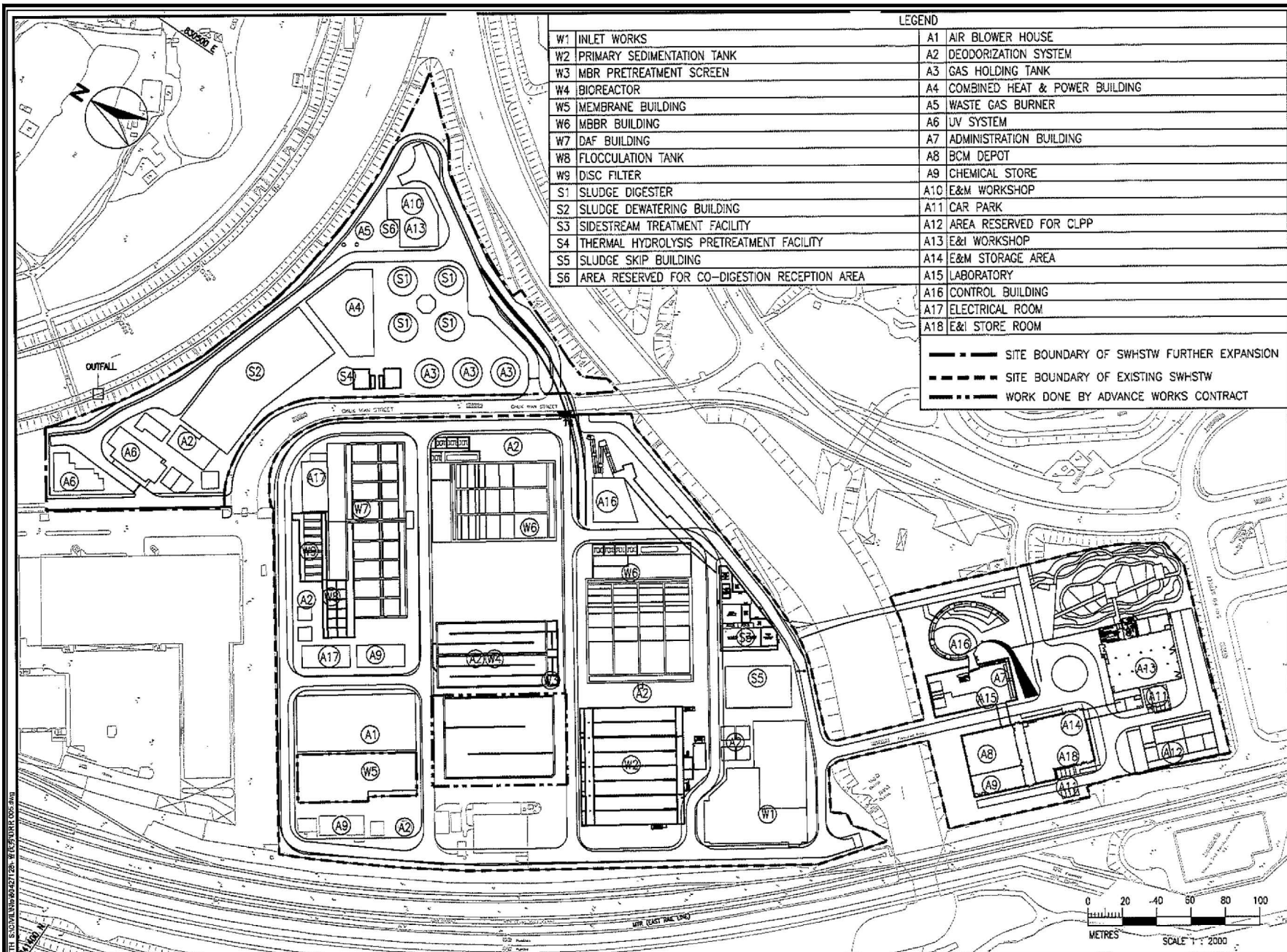
Table 6.1 Summary table of recommendations in terms of environmental parameters

Parameters	Recommendations
Air Quality	Dust suppression measures like water spraying or using tarpaulin should be enhanced for exposed stockpiles and other construction activities.
	To ensure all regulated machines in operation are displayed with valid NRMM labels.
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in an area sheltered on the top and the 3 sides.

	The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials
Noise	Acoustic materials or other noise minimization measures should be adopted or enhanced especially for drilling and piling activities.
Water Quality	To maintain the proper function of the on-site drainage system and ensure the construction site runoff was properly treated.
	Vehicle wheel washing facilities at construction sites' exit points should be properly maintained
Ecology	2m solid dull green barrier fences should be erected and maintained properly along the project boundaries of all active work sites under EP condition 2.7.
Waste Management	Oil/chemical containers should be stored properly.
	To maintain proper function of drip trays
	To maintain good housekeeping and remove the waste regularly.
	Good waste segregation practice should be maintained.
Landscape and Visual	Screen hoarding shall be erected along areas of the construction works site boundary.
	Existing trees to be retained within the Project Site should be carefully protected during construction.

Figure 2.1

Project Layout



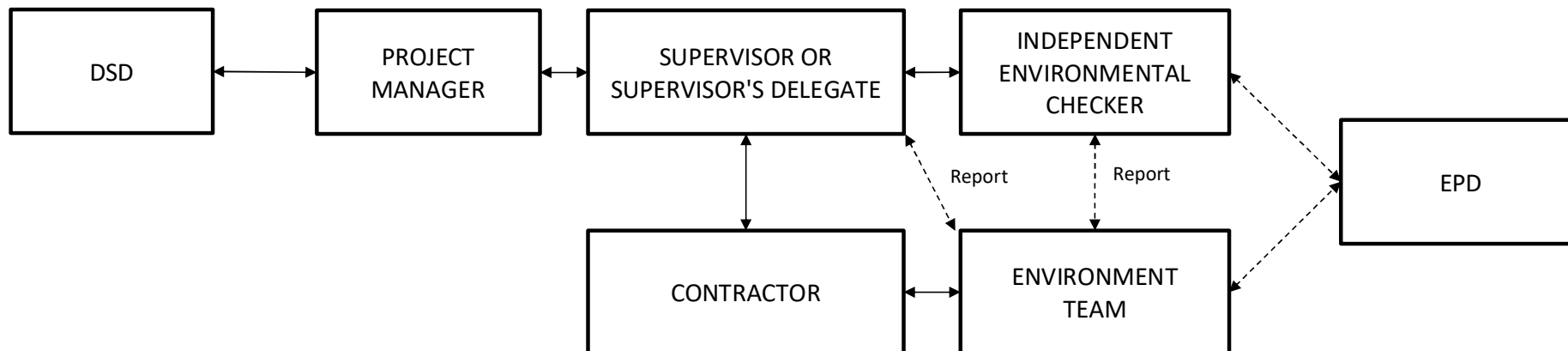
Shek Wu Hui Effluent Polishing Plant

General Site Layout Of SWHEPP

SCALE	As Shown	DATE	SEP 2019
CHECK	JM	DRAWN	SY
JOB No.		FIGURE NO.	1.1
		REV	-

Figure 2.2

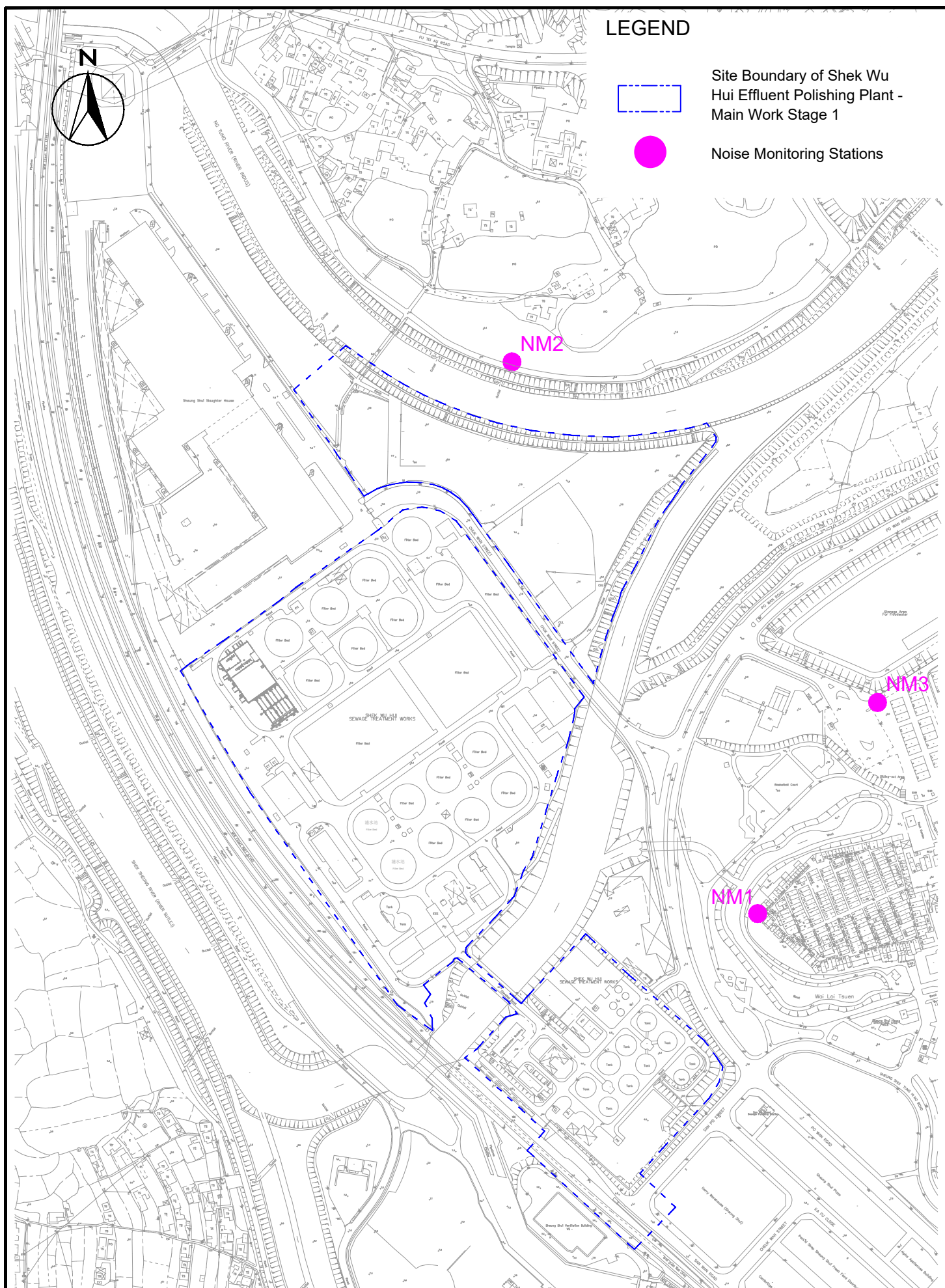
Project Organization Chart



	Shek Wu Hui Effluent Polishing Plant - Project Organisation For Environmental Monitoring and Audit	SCALE	N.T.S.	DATE	Sep 2019
		CHECK	JW	DRAWN	SY
		JOB NO.		FIGURE NO.	1.2

Figure 4.1

Locations of Noise Monitoring Stations



Shek Wu Hui Effluent Polishing Plant

Location of Noise Monitoring Stations

Figure 4.2

Locations of Air Quality Monitoring Stations

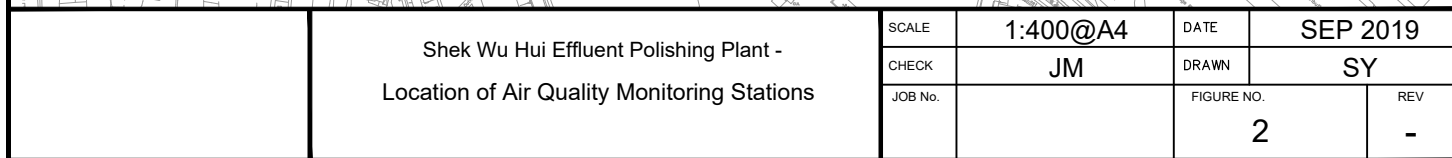
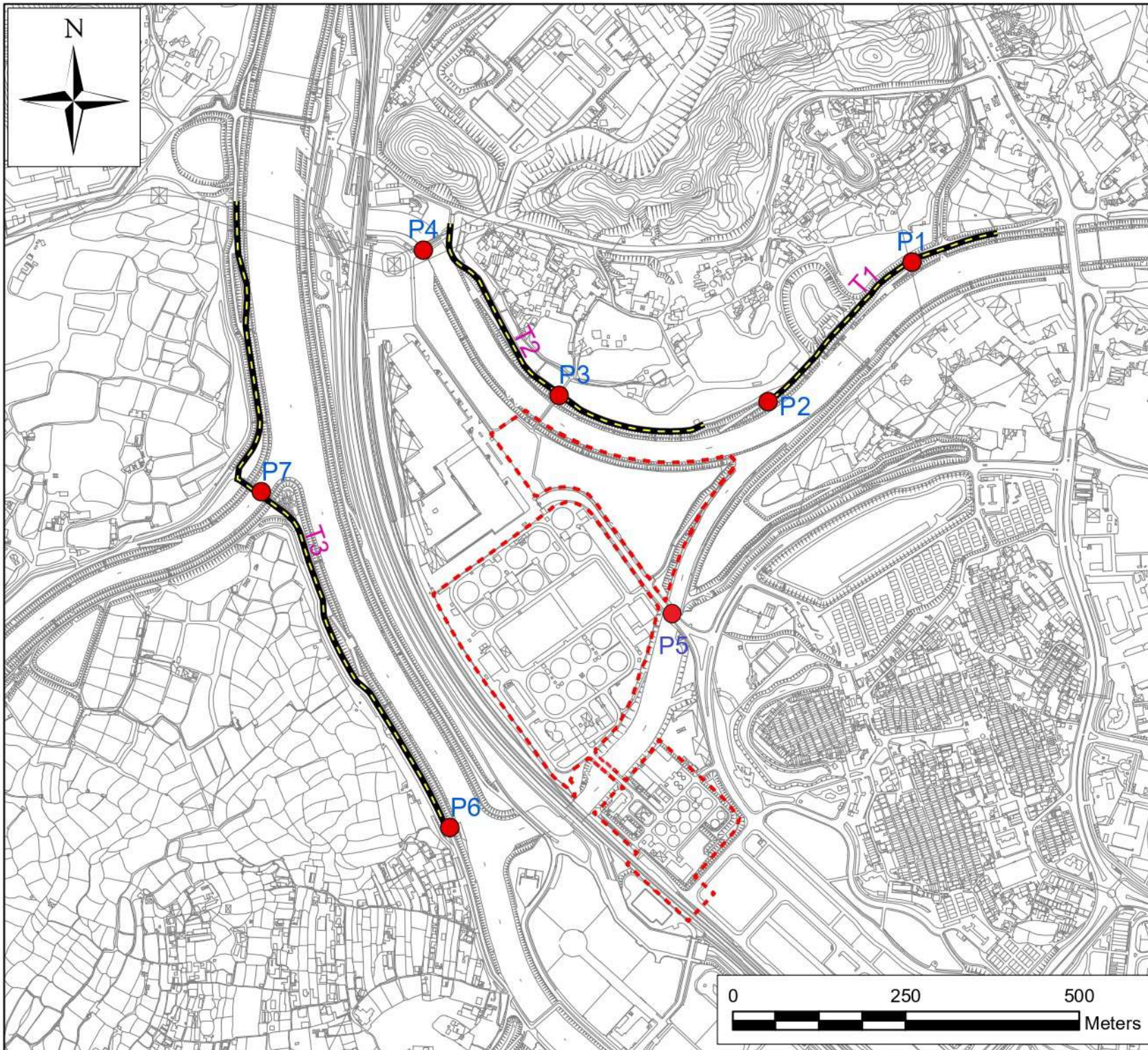


Figure 4.3

Locations of Ecological Monitoring Stations



Legend

- Project Site Boundary
- Walk Transects
- Point Count Locations

PREPARED BY

Lam Environmental Services Limited

19/F Remex Centre
42 Wong Chuk Hang Road,
Hong Kong

Telephone: (852) 2882-3939
Facsimile: (852) 2882-3331
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Website: <http://www.lamenviro.com>

CONTRACT NO.

SPW 12/2021

PROJECT TITLE

**Shek Wu Hui Effluent Polishing
Plant - Main Works
Survey Location for Ecological
Monitoring**

SCALE

1:7500@A4

DATE

Sept 2021

DRAWN BY

AL

CHECK BY

MC

FIGURE NO.

1

REVISION NO.

-



Appendix 1.1

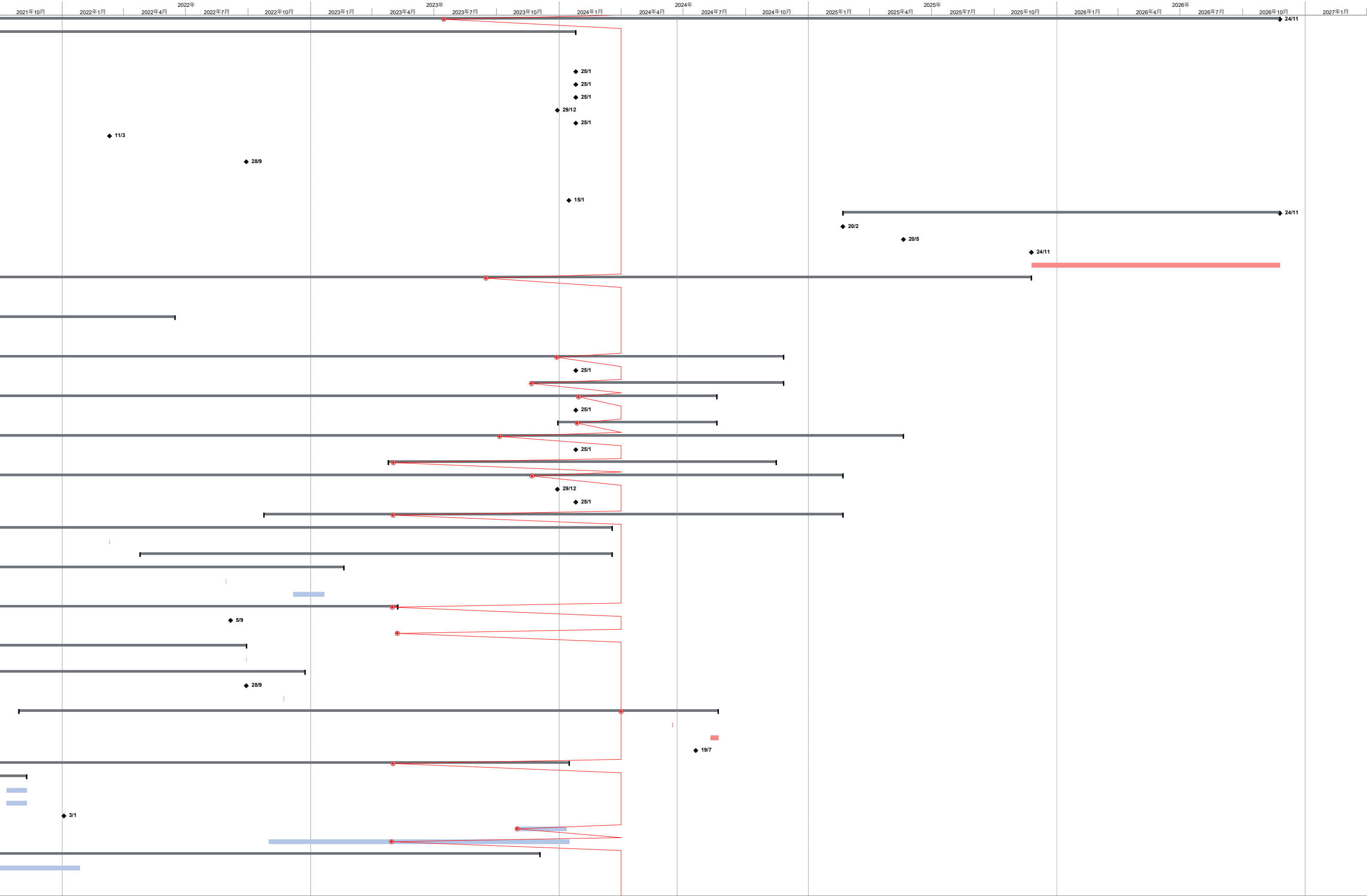
Construction Programme of Individual Contracts

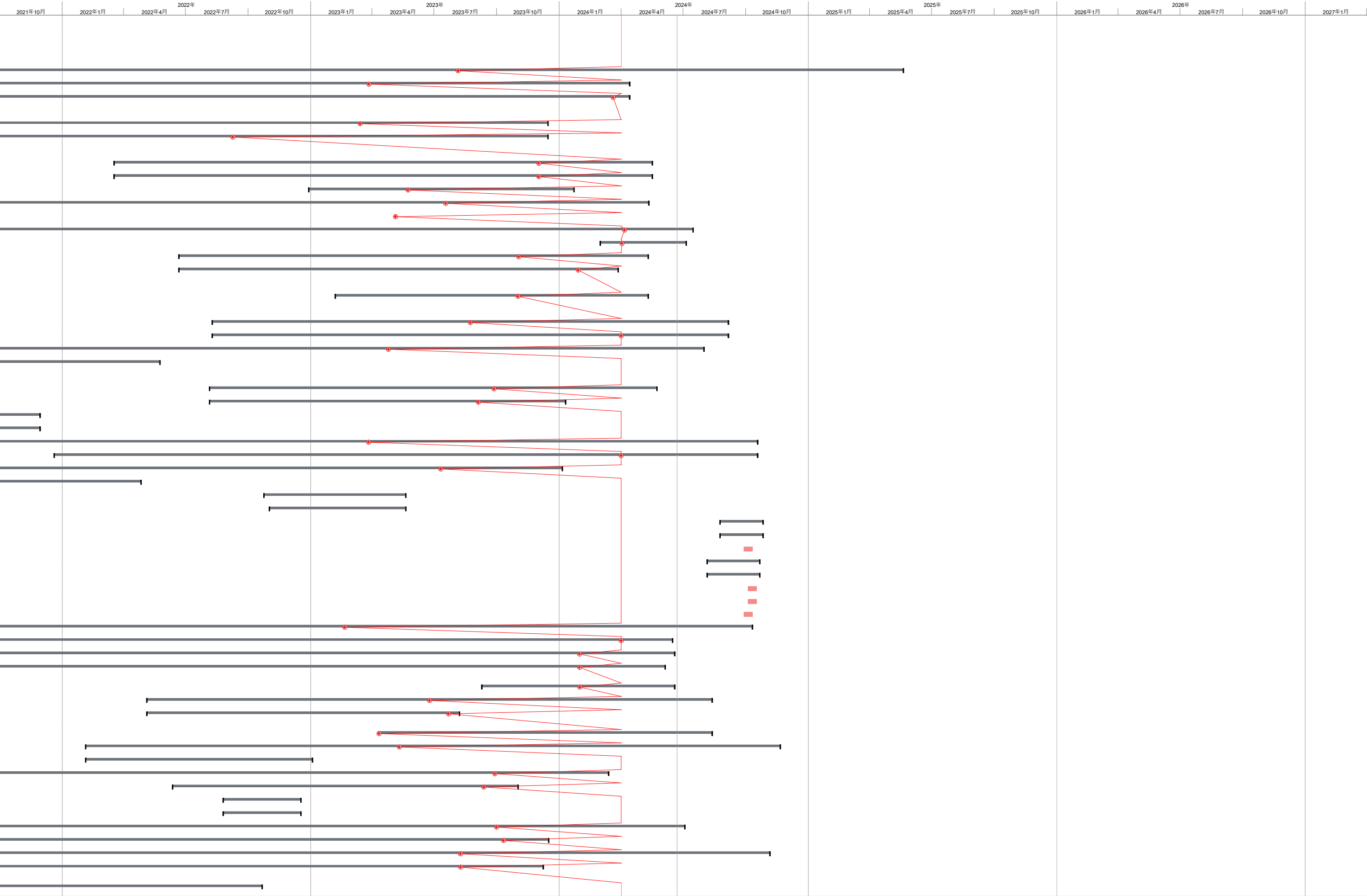
ID	Activity ID	KD	Task Name	Inclment Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors	% Complete	Time Risk Allowa		H1	2020	H1	H1	2022	H1	H1	2024	H1	H1	2026	H1
1	CD-00000		Contract Dates			1842.8 day	Mon 16 Sep '19	Sat 22 Nov '25	Mon 16 Sep '19	NA			0%			16/9										22/11	
2	CD-01000		Starting Date			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19		4,5FS+181 days,6,7,8,9,11,12	100%			16/9											
3	CAD-00000		Access Date (cal. day)			147 days	Mon 16 Sep '19	Sat 14 Mar '20	Mon 16 Sep '19	Sat 14 Mar '20			100%			16/9											
4	CAD-01000		Portion A-1			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
5	CAD-02000		Portion A-2			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19		19 2FS+181 days	100%			16/9											
6	CAD-03000		Portion C-1A			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
7	CAD-04000		Portion C-1B			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
8	CAD-05000		Portion C-2A			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
9	CAD-06000		Portion C-2B			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
10	CAD-07000		Portion C-2C			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
11	CAD-08000		Portion C-2D			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
12	CAD-09000		Portion C-3			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
13	CAD-10000		Portion C-4			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
14	CAD-11000		Portion C-5			0 days	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
15	CAD-12000		Portion C-6			0 days	Sat 14 Mar '20	Sat 14 Mar '20	Sat 14 Mar '20	Sat 14 Mar '20		581	100%			16/9											
16	CAD-13000		Works Area WA1			1 day	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
17	CAD-14000		Works Area WA2-A			1 day	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19	Mon 16 Sep '19			100%			16/9											
18	CKD-00000		Key Date (cal. day)			332 days	Sat 22 May '2	Tue 5 Jul '22	Sat 22 May '21	NA			0%			16/9											
19	CKD-01000		KD1A (613.5days after starting date)			0 days	Sat 22 May '21	Sat 22 May '21	Sat 22 May '21	Sat 22 May '21		2FS+614.5 days,36FF	53	100%													
20	CKD-02000		KD2A (820 days after starting date)			0 days	Tue 14 Dec '2	Tue 14 Dec '21	Tue 14 Dec '21	Tue 14 Dec '21		2FS+821 days,37FF	61	100%													
21	CKD-03000		KD3A (921 days after starting date)			0 days	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22		2FS+922 days,38FF	69	100%													
22	CKD-04000		KD3B (906 days after starting date)			0 days	Thu 10 Mar '22	Thu 10 Mar '22	Thu 10 Mar '22	Thu 10 Mar '22		2FS+907 days,39FF	78	100%													
23	CKD-05000		KD3C (898 days after starting date)			0 days	Wed 2 Mar '22	Wed 2 Mar '22	Wed 2 Mar '22	Wed 2 Mar '22		2FS+899 days,40FF	86	100%													
24	CKD-06000		KD3D (785 days after starting date)			0 days	Tue 9 Nov '21	Tue 9 Nov '21	Tue 9 Nov '21	Tue 9 Nov '21		2FS+786 days,41FF	94	100%													
25	CKD-07000		KD3E (1022.5days after starting date)			0 days	Tue 5 Jul '22	Tue 5 Jul '22	NA	NA		2FS+1023.5 days,42FF	101	0%													
26	CCD-00000		Completion Date (cal. day)			1163.8 day	Thu 30 Dec '2	Sat 22 Nov '25	Thu 30 Dec '21	NA			0%			16/9											
27	CCD-01000		Section 1 of Works (836 days after starting date)			1 day	Thu 30 Dec '21	Thu 30 Dec '21	Thu 30 Dec '21	Thu 30 Dec '21		2FS+837 days,44FF	109	100%													
28	CCD-02000		Section 2 of Works (1,467 days after starting date)			0 days	Fri 6 Sep '24	Fri 6 Sep '24	NA	NA		2FS+1468 days,45FF	118	0%													
29	CCD-03000		Section 3 of Works (1,358.5 days after starting date)			0 days	Tue 6 Jun '23	Tue 6 Jun '23	NA	NA		2FS+1359.5 days,46FF	127	0%													
30	CCD-04000		Section 4 of Works (1,138.5 days after starting date)			0 days	Sat 29 Oct '22	Sat 29 Oct '22	NA	NA		2FS+1139.5 days,47FF	136	0%													
31	CCD-05000		Section 5 of Works (1,827.5 days after starting date)			0 days	Tue 17 Sep '24	Tue 17 Sep '24	NA	NA		2FS+1828.5 days,48FF	32,33,145	0%													
32	CCD-06000		Defect Liability Period			365 days	Thu 19 Sep '24	Sat 22 Nov '25	NA	NA		31	0%														
33	CCD-07000		Soft Landscape Establishment Works			365 days	Thu 19 Sep '24	Sat 22 Nov '25	NA	NA		31	0%														
34	PD-00000	*	Planned Completion - Key Date (cal. day)			1791.8 day	Fri 1 Nov '19	Fri 7 Nov '25	Fri 1 Nov '19	NA			26%			1/11											
35	PKD-00000	*	Planned Completion - Key Dates			618.8 days	Wed 12 May '2	Mon 12 Jun '23	Wed 12 May '21	NA			0%			1/11											
36	PKD-01000	KD1A	KD1A			0 days	Wed 12 May '21	Wed 12 May '21	Wed 12 May '21	Wed 12 May '21		306FF	19FF	100%													
37	PKD-02000	KD2A	KD2A			0 days	Mon 3 Jan '22	Mon 3 Jan '22	Mon 3 Jan '22	Mon 3 Jan '22		686FF	20FF	100%													
38	PKD-03000	KD3A	KD3A			0 days	Fri 2 Sep '22	Fri 2 Sep '22	Fri 2 Sep '22	Fri 2 Sep '22		338FF	21FF	100%													
39	PKD-04000	KD3B	KD3B			0 days	Tue 7 Jun '22	Tue 7 Jun '22	Tue 7 Jun '22	Tue 7 Jun '22		376FF	22FF	100%													
40	PKD-05000	KD3C	KD3C			0 days	Wed 26 Oct '21	Wed 26 Oct '22	Wed 26 Oct '22	Wed 26 Oct '22		401FF	23FF	100%													
41	PKD-06000	KD3D	KD3D			0 days	Sat 20 Nov '21	Sat 20 Nov '21	Sat 20 Nov '21	Sat 20 Nov '21		434FF	24FF	100%													
42	PKD-07000	KD3E	KD3E			0 days	Mon 12 Jun '23	Mon 12 Jun '23	NA	NA		450FF,460FF,470FF,480FF,5,25FF	0%														
43	PCD-00000	*	Planned Completion - Section of the Works (cal. day)			1081.8 day	Fri 25 Mar '22	Fri 7 Nov '25	Fri 25 Mar '22	NA			0%														
44	PCD-01000	SW1	Section 1 of Works			0 days	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22	Fri 25 Mar '22		578FF,609FF,610FF,611FF,6,27FF		100%													
45	PCD-02000	SW2	Section 2 of Works			0 days	Fri 8 Dec '23	Fri 8 Dec '23	NA	NA		715FF,727FF,699FF,28FF		0%													
46	PCD-03000	SW3	Section 3 of Works			0 days	Tue 16 Jan '24	Tue 16 Jan '24	NA	NA		205FF,403FF,418FF,436FF,4648,29FF		0%													
47	PCD-04000	SW4	Section 4 of Works			0 days	Thu 21 Sep '23	Thu 21 Sep '23	NA	NA		579FF,355FF,381FF,405FF,4,30FF		0%													
48	PCD-05000	SW5	Section 5 of Works			0 days	Mon 2 Sep '24	Mon 2 Sep '24	NA	NA		313FF,356FF,382FF,406FF,4,49,50,31FF		0%													
49	PCD-06000	DLP	Defect Liability Period			365 days	Tue 3 Sep '24	Fri 7 Nov '25	NA	NA		48,649FF		0%													
50	PCD-07000		Soft Landscape Establishment Works			365 days	Tue 3 Sep '24	Fri 7 Nov '25	NA	NA		48,641,642,643		0%													
51	DE-00000		Delaying Events Other than Change of Works Information to be considered			1532.8 day	Fri 1 Nov '19	Thu 9 Jan '25	Fri 1 Nov '19	NA			43%			1/11											
153	SUB-00000		Submissions (cal. day)			1590 days	Mon 16 Sep '19	Sat 1 Feb '25	Mon 16 Sep '19	NA			93%			16/9											
264	CPW-00000		Site Preliminary Works			300 days	Mon 16 Sep '19	Thu 17 Sep '20	Mon 16 Sep '19	Thu 17 Sep '20			100%			16/9											
270	CWPC-00000	*	Construction Works of Portion C of the Site			1772.8 day	Mon 16 Sep '19	Tue 2 Sep '25	Mon 16 Sep '19	NA			57%			16/9											
271	CUV1-00000	*	UV System No. 1 & Effluent Pumping Station No. 1 (1)			971 days?	Mon 16 Sep '19	Thu 22 Dec '22	Mon 16 Sep '19	Thu 22 Dec '22			100%			16/9											
314	CSDC-00000	*	Sludge Digesters and Distribution Chamber (4)			1395.8 day	Sat 7 Dec '19	Mon 2 Sep '24	Sat 7 Dec '19	NA			67%			7/12											
357	CSDB-00000	*	Sludge Dewatering Building (2)			875.8 days	Tue 26 Nov '1	Wed 9 Nov '22	Tue 26 Nov '19	NA			65%			10/12											
383	CHPB-00000	*	Combined Heat Power Building (3)			1393.8 day	Tue 10 Dec '1	Mon 2 Sep '24	Tue 10 Dec '19	NA			51%			15/11											
407	CSPS-00000	*	Sewage Pumping Station (9)			1414.8 day	Fri 15 Nov '19	Mon 2 Sep '24	Fri 15 Nov '19	NA			79%			24/12											
421	CWS2-00000	*	Workshop No. 2 (5)			1381.8 day	Tue 24 Dec '1	Mon 2 Sep '24	Tue 24 Dec '19	NA			74%			19/12											
440	CTHP-00000	*	Thermal Hydrolysis Pretreatment (6)			1385.8 day	Thu 19 Dec '1	Mon 2 Sep '24	Thu 19 Dec '19	NA			35%														
454	CFCD-00000	*	Ferric Chloride Dosing Facilities (10)			949.8 days	Tue 15 Jun '2	Mon 2 Sep '24	Tue 15 Jun '21	NA			42%														
464	CFHB-00000	*	Fire Hydrant and Booster Pump Room (16)			923.8 days	Fri 16 Jul '21	Mon 2 Sep '24	Fri 16 Jul '21	NA			28%														
475	CTFS-00000	*	Transformer and Switchroom (15)			923.8 days	Fri 16 Jul '21	Mon 2 Sep '24	Fri 16 Jul '21	NA			43%														
484	CUC-00000	*	Utility Corridor (13)		204	539 days	Mon 31 Oct '2	Mon 2 Sep '24	Mon 31 Oct '22	NA			13														

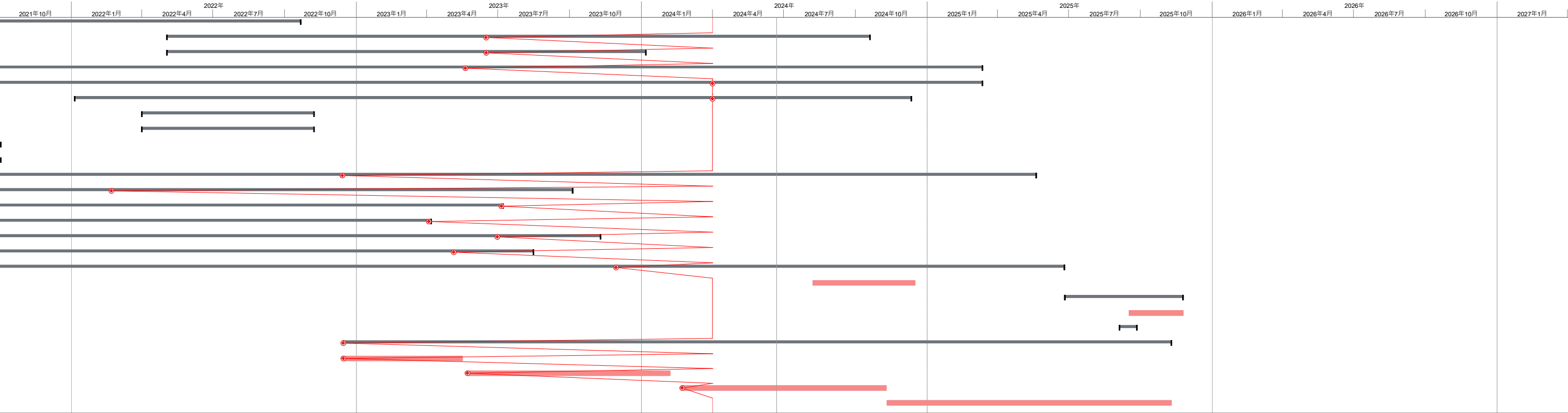
Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Civil Works for Sewage Treatment Facilities										Revised Master Programme (Status Date: 31/03/2024)										<div><div></div><div></div><div></div></div> 群利 – 俊和聯營體 KL – CW JV									
識別碼	Activity ID	Key Date	NCE/(EW/PMI)/(CE)	Task Name	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk Allow	完成百分比	9年	2019年7月	2019年10月	2020年1月	2020年4月	2020年7月	2020年10月	2021年1月	2021年4月	2021年7月	2021年10月				
40	PD-1000	*		Planned Completion	2493 days	2020年1月28日	2026年11月24日	年1月28日星期二2020	NA			0 days		49%															
41	PCD-1000	*		Planned Completion - Key Dates (cal. day)	1211 days	2020年9月30日	2024年1月25日	年9月30日星期三2020	年1月25日星期四2024			0 days		100%															
42	PKD-1010	KD1A		KD1A completion of AR3 in Portion B-1	0 days	2020年9月30日	2020年9月30日	年9月30日星期三2020	年9月30日星期三2020	21FF,56FF	21FF,56FF	0 days		100%															
43	PCD-1020	KD1B		KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2	0 days	2021年1月22日	2021年1月22日	年1月22日星期五2021	年1月22日星期五2021	373FF,355FF	22FF,56FF,2404	0 days		100%															
44	PCD-1030	KD1C		KD1C completion of civil and structural works of Inlet Works No.1 in Portion B-2	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	480FF,1131FF,1155FF	23FF,56FF	0 days		100%															
45	PCD-1040	KD1D		KD1D completion of civil and structural works of Primary Sedimentation Tanks in Portion B-3	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	591FF	24FF,56FF	0 days		100%															
46	PCD-1050	KD1E		KD1E completion of civil and structural works of Bioreactor in Portion B-4	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	708FF	25FF,56FF	0 days		100%															
47	PCD-1060	KD1F		KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5	0 days	2023年12月29日	2023年12月29日	年12月29日星期五2023	年12月29日星期五2023	909FF	26FF,56FF	0 days		100%															
48	PCD-1070	KD1G		KD1G completion of civil and structural works of MFB in Portion B-5	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	910FF	27FF,56FF	0 days		100%															
49	PCD-1080	KD1H		KD1H completion of civil and structural works of SAS Pumping Station in Portion B-6	0 days	2022年3月11日	2022年3月11日	年3月11日星期五2022	年3月11日星期五2022	956FF,953FF	28FF,56FF	0 days		100%															
50	PCD-1090	KD1I		KD1I completion alternation works for existing Power House in Portion B-7A	0 days	2021年1月29日	2021年1月29日	年1月29日星期五2021	年1月29日星期五2021	1164FF	29FF,56FF	0 days		100%															
51	PCD-1100	KD1J		KD1J completion of auxiliary facilities in Portion B-7	0 days	2022年9月28日	2022年9月28日	年9月28日星期三2022	年9月28日星期三2022	1089FF,1113FF,1096FF	30FF,56FF	0 days		100%															
52	PCD-1110	KD2A		KD2A completion of effluent pipes to UV system and connection to its downstream in Portion B-9	0 days	2021年7月20日	2021年7月20日	年7月20日星期二2021	年7月20日星期二2021	1170FF,1168FF	31FF,57FF	0 days		100%															
53	PCD-1120	KD2B		KD2B completion of air supply main alternation to existing air blower house No.2 in Portion B-8A	0 days	2021年3月26日	2021年3月26日	年3月26日星期五2021	年3月26日星期五2021	1157FF,1161FF,1162FF	32FF,57FF	0 days		100%															
54	PCD-1130	KD3A		KD3A completion of all utilities and road works in Portion B-9A	0 days	2024年1月15日	2024年1月15日	年1月15日星期一2024	年1月15日星期一2024	1166FF,1165FF	33FF	0 days		100%															
55	PCD-1000	*		Planned Completion Date (cal. Day)	642 days	2025年2月20日	2026年11月24日	NA	NA			-804 days		0%															
56	PCD-1010	SW1		Section 1 of the Works	0 days	2025年2月20日	2025年2月20日	NA	NA	1155FF,959FF,1075FF,35FF		-218 days		0%															
57	PCD-1020	SW2		Section 2 of the Works	0 days	2025年5月20日	2025年5月20日	NA	NA	703FF,704FF,705FF,7036FF		-893 days		0%															
58	PCD-1030	SW3		Section 3 of the Works	0 days	2025年11月24日	2025年11月24日	NA	NA	2431FF,2432FF,1166FF37FF,59		-380 days		0%															
59	PCD-1040	DLP		Defects Liability Period	365 days	2025年11月25日	2026年11月24日	NA	NA	58	38FF	-380 days		0%															
275	C-1000	*		Construction Works (Working day)	2199 days?	2019年11月18日	2026年11月24日	年11月18日星期一2019	NA			365 days?		71%															
281	CAR-0000	*		Access Road (AR3), B-1	238 days	2019年12月12日	2020年9月30日	年12月12日星期四2019	年9月30日星期三2020	4,230	1257SS	0 days		100%															
290	CAR-3000	KD1A		Roadworks	133 days	2020年4月24日	2020年9月30日	年4月24日星期五2020	年9月30日星期三2020	200,289,288	42FF	0 days		100%															
291	CIW-0000	*		Inlet Works No.1, B-2	754 days	2019年11月26日	2022年6月15日	年11月26日星期二2019	年6月15日星期三2022			0 days		100%															
332	CIW-1510	KD1B		Diversion of Tank Drain MHD9.5 (approx. 70m CHES1 & CHES2)	405 days	2018年11月26日	2021年4月10日	年11月26日星期二2019	年4月10日星期六2021	360	393	0 days		100%															
391	CIW-2500	KD1B		Conditions to be met for KD1B	0 days	2021年1月22日	2021年1月22日	年1月22日星期二2021	年1月22日星期二2021	389	390	0 days		100%															
392	CIW-3000	*		Inlet Works No.1 Building (1)	1244 days	2020年9月15日	2024年11月25日	年9月15日星期二2020	NA	6		623 days		65%															
480	CIW-3700	KD1C		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	445,462,476,446	44FF	0 days		100%															
494	CIW-4000	SW1		ABWF Works	301 days	2023年11月21日	2024年11月25日	年11月21日星期二2023	NA	265,215	56FF	0 days		0%															
502	CPS-0000	*		Primary Sedimentation Tanks, B-3 (2)	1408 days	2019年11月18日	2024年8月19日	年11月18日星期一2019	NA	8		704 days		84%															
591	CPS-9000	KD1D		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	536FS+27 days	45FF	0 days		100%															
605	CPS-10000	SW1		ABWF works + BS works	188 days	2023年12月30日	2024年8月19日	年12月30日星期四2023	NA	265,215	56FF	-28 days		9%															
613	CBR-0000	*		Bioreactors No.2A & 2B, B-4 (3)	1386 days	2020年9月23日	2025年5月20日	年9月23日星期三2020	NA	9		474 days		65%															
708	CBR-18000	KD1E		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	676FS+45 days	46FF	0 days		100%															
722	CBR-21000	SW1		ABWF Works + BS Works	465 days	2023年4月25日	2024年11月14日	年4月25日星期二2023	NA	265,215	56FF	-100 days		1%															
728	CMF-0000	*		Membrane Facilities Building No.2 , B-5 (4)	1523 days	2020年1月6日	2025年2月20日	年1月6日星期一2020	NA	2		550 days		69%															
909	CMF-0003	KD1F		Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from B1 to 1/F)	0 days	2023年12月29日	2023年12月29日	年12月29日星期五2023	年12月29日星期五2023	880,851,871	47FF	0 days		100%															
910	CMF-0004	KD1G		Allow access to Contractor DE/2018/04 for E&M installation and T&C works (from 1/F to Roof)	0 days	2024年1月25日	2024年1月25日	年1月25日星期四2024	年1月25日星期四2024	809FS+18 days	48FF	0 days		100%															
911	CMF-5000	SW1		ABWF works + BS works	694 days	2022年10月24日	2025年2月20日	年10月24日星期二2022	NA	265,215	56FF	-182 days		2%															
929	CSA-0000	*		SAS Pumping Station, B-6 (12)	1168 days	2020年4月9日	2024年3月18日	年4月9日星期四2020	年3月18日星期一2024	11		0 days		100%															
956	CSA-8000	KD1H		Allow access to Contractor DE/2018/03 for E&M installation and T&C works	1 day	2022年3月11日	2022年3月11日	年3月11日星期五2022	年3月11日星期五2022	955	49FF,957SS-1 day	0 days		100%															
959	CSA-9000	SW1		ABWF works + BS works	565 days	2022年4月25日	2024年3月18日	年4月25日星期二2022	年3月18日星期一2024	958	56FF	0 days		100%															
970	CFS-1000	*	301	Fire Services Sprinkler Pumping Room & Emergency Generator House (9)*(10)*	534 days	2021年5月4日	2023年2月18日	年5月4日星期二2021	年2月18日星期六2023			0 days		100%															
1013	CFS-5000	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	1 day	2022年8月29日	2022年8月29日	年8月29日星期一2022	年8月29日星期一2022	988	51FF,1014SS-1 day	0 days		100%															
1027	CFS-6100	SW1		Inspection and Handover	37 days	2022年12月6日	2023年1月20日	年12月6日星期二2022	年1月20日星期五2023	1025,1026	56FF	0 days		100%															
1028	CCS-1000	*	295,297	Chemical System No.1 (8)*	539 days	2021年7月13日	2023年5月8日	年7月13日星期二2021	NA			354 days		99%															
1063	CCS-1900	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2022年9月5日	2022年9月5日	年9月5日星期一2022	年9月5日星期一2022	1065	51FF,1070,1069	0 days		100%															
1075	CCS-2050	SW1		Inspection and Handover	1 day	2023年5月8日	2023年5月8日	NA	NA	1074	56FF	354 days		0%															
1076	CDS-0000	*		Deodorization System No.3A (7)*	387 days	2021年6月11日	2022年9月28日	年6月11日星期五2021	年9月28日星期三2022			0 days		100%															
1089	CDS-7000	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	1 day	2022年9月28日	2022年9月28日	年9月28日星期三2022	年9月28日星期三2022	1088	51FF,1093	0 days		100%															
1090	CTC-0000	*		Temporary Chemical Dosing System (5)	466 days	2021年6月3日	2022年12月23日	年6月3日星期四2021	年12月23日星期五2022			0 days		100%															
1113	CTC-11000	KD1J		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2022年9月28日	2022年9月28日	年9月28日星期三2022	年9月28日星期三2022	1111FS+1 day	51FF,1115	0 days		100%															
1118	CTC-13000	SW1		Inspection and Handover	1 day	2022年11月22日	2022年11月22日	年11月22日星期二2022	年11月22日星期二2022	1117	56FF	0 days		100%															
1119	CFB-0000	*		Fire Hydrant and Booster Pump Room (13)*	833 days	2021年10月29日	2024年8月21日	年10月29日星期五2021	NA			-30 days		9%															
1131	CFB-4000	KD1C		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	1 day	2024年6月15日	2024年6月15日	NA	NA	1130FF	1132SF,44FF	-30 days		0%															
1138	CFB-5100	SW1		Inspection and Handover	10 days	2024年8月10日	2024年8月21日	NA	NA	1134,1135,1136,1137	56FF	-30 days		0%															
1155	CDS1-4000	KD1C		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	2024年7月19日	2024年7月19日	NA	NA	1154	56FF,44FF	-2 days		0%															
1156	CAA-0000	*		Additional and Alternation Works for Existing Facilities (B-7A, B-8, B-8A)	961 days	2020年10月19日	2024年1月15日	年10月19日星期一2020	NA			243 days		79%															
1157	CAA-1000	KD2B		B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)	315 days	2020年10月19日	2021年11月9日	年10月19日星期一2020	年11月9日星期二2021	15,216,260	53FF	0 days		100%															
1162	CAA-1500	KD2B	0																										

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Civil Works for Sewage Treatment Facilities										Revised Master Programme (Status Date: 31/03/2024)										<div><div></div><div></div><div>群利 – 俊和聯營體</div><div>KL – CW JV</div></div>									
識別碼	Activity ID	Key Date	NCE/(EW/PMI/(CE)	Task Name	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限時間	Risk Allow	完成百分比	9年	2019年7月	2019年10月	2020年1月	2020年4月	2020年7月	2020年10月	2021年1月	2021年4月	2021年7月	2021年10月				
1170	C2AUU-1000b	KD2A		255	Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.)	60 days	2020年12月21日	2021年3月6日	星期日	年12月21日星期一—2020	年3月6日星期六2021		52FF	0 days	100%														
1171	C2AUU-1001	KD2A		033	Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area	43 days	2019年11月18日	2020年1月9日	星期日	年11月18日星期一—2019	年1月9日星期四2020			0 days	100%														
1172	C2AUU-1002	KD2A		222	Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area	16.83 days	2019年11月18日	2019年12月6日	星期日	年11月18日星期一—2019	年12月6日星期五2019			0 days	100%														
1173	C2AUU-1004	KD2A		(076)	Delay Delivery of DI pipes due to COVID-19	75 days	2019年11月18日	2020年2月19日	星期日	年11月18日星期一—2019	年2月19日星期三2020			0 days	100%														
1174	CS2-0000	SW2			External Underground Service, Utilities, Road/Drain (Section 2)	1587 days	2020年1月20日	2025年5月20日	星期一	年1月20日星期一—2020	NA	57FF	-245 days	68%															
1202	CS2-1000	SW2			Sewerage and utilities in Workfront A2	826 days	2021年6月30日	2024年4月13日	星期三	年6月30日星期三—2021	NA		-18 days	95%															
1220	CS2-1100	SW2			Workfront A2b: Construction of 2 nos. of DN250 DI sludge pipe (CHPS1,CHPS2 CH157-190), 2 nos. of DN350 DI sewage pipe (CHT CH62-91, CHY CH62-91) and 3 nos. of DN150 DI pipe (CHW, CHX, CHZ CH62-91)	826 days	2021年6月30日	2024年4月13日	星期三	年6月30日星期三—2021	NA	1203	-18 days	85%															
1230	CS2-2000	SW2			Sewerage and utilities in Workfront A3	756 days	2021年6月2日	2023年12月15日	星期一	年6月2日星期三—2021	NA		-211 days	61%															
1247	CS2-2100	SW2			Workfront A3b: Construction of 2 nos. of DN250 DI sludge pipe (CHPS1, CHPS2 CH133-146), 2 nos. of DN350 DI sewage pipe (CHT CH100-114, CHY CH100-114) and 3 nos. of DN150 DI pipe (CHW CH100-114, CHX&CHZ CH100-114); Watermains	756 days	2021年6月2日	2023年12月15日	星期一	年6月2日星期三—2021	NA 2097		-301 days	64%															
1258	CS2-3000a	SW2			Sewerage and utilities in Workfront A5a	638 days	2022年3月18日	2024年5月16日	星期五	年3月18日星期五—2022	NA		-33 days	80%															
1260	CS2-3100a	SW2			Construction of DN825 concrete pipe (CHU CH9.81-67.72) and manhole MHS01-MHS03	638 days	2022年3月18日	2024年5月16日	星期五	年3月18日星期五—2022	NA		-33 days	79%															
1289	CS2-3000b	SW2			Sewerage and utilities in Workfront A5b	316 days	2022年12月29日	2024年1月22日	星期四	年12月29日星期四—2022	NA	2156,2149	-103 days	17%															
1300	CS2-3300	SW2			Sewerage and utilities in Workfront A6	947 days	2021年3月1日	2024年5月11日	星期一	年3月1日星期一—2021	NA		-14 days	60%															
1302	CS2-3310	SW2			Construction of CHPS1 CH274.233 - 355.037 ; CHPSW1 CH0-7	171 days	2022年10月6日	2023年5月5日	星期四	年10月6日星期四—2022	NA		112 days	76%															
1352	CS2-4000	SW2			Sewerage and utilities in Workfront B1	872 days	2021年8月4日	2024年7月16日	星期一	年8月4日星期三—2021	NA		-33 days	53%															
1365	CS2-4100	SW2			Workfront B1b: DN600 concrete pipe (CHU CH0-9.81)	101 days	2024年3月1日	2024年7月5日	星期一	年3月1日星期五—2024	NA		-77 days	21%															
1380	CS2-5000	SW2			Sewerage and utilities in Workfront C1	560 days	2022年6月21日	2024年5月10日	星期二	年6月21日星期二—2022	NA	2186	-33 days	89%															
1381	CS2-5100	SW2			Workfront C1a: Construction of 2 nos. of DN250 DI sludge pipe (CHPS1,CHPS2 CH50-133), 2 nos. of DN350 DI sewage pipe (CHT&CHY CH114-189) and 3 nos. of DN150 DI pipe (CHW CH114-140, CHX&CHZ CH114-140), MHFB64B-MHFB64C	527 days	2022年6月21日	2024年3月27日	星期二	年6月21日星期二—2022	NA		0 days	98%															
1413	CS2-5100	SW2			Workfront C1b: Construction of 2 nos. of DN250 DI sludge pipe (CHPS1,CHPS2 CH50-133), 2 nos. of DN350 DI sewage pipe (CHT&CHY CH114-189) and 3 nos. of DN150 DI pipe (CHW CH114-140, CHX&CHZ CH114-140), MHFB64B-MHFB64C, CHPSW-5	373 days	2023年2月6日	2024年5月10日	星期一	年2月6日星期一—2023	NA	1436	-74 days	74%															
1435	CS2-6000	SW2			Sewerage and utilities in Workfront C2	617 days	2022年8月9日	2024年9月5日	星期一	年8月9日星期二—2022	NA	2196,1557	-616 days	1%															
1436	CS2-6100	SW2			Construction of 2 nos. of DN250 DI sludge pipe(CHPS1, CHPS2 CH25-50), CH PSW-7	617 days	2022年8月9日	2024年9月5日	星期一	年8月9日星期二—2022	NA 1413		-616 days	1%															
1453	CS2-7000	SW2			Sewerage and utilities in Workfront C3	1002 days	2021年3月13日	2024年7月31日	星期一	年3月13日星期六2021	NA	2204	-425 days	55%															
1454	CS2-7100	SW2			Construction of DN1000 HDPE odour pipe (CHDO2), DN250 DI sludge pipe (CHPS1, CHPS2; CH0-25), DN250 DI pipe (CHPSW-6), DN300 DI pipe(CHTFT2), manhole MHD5A and its associated backdrop manhole	353 days	2021年3月13日	2022年5月24日	星期六	年3月13日星期六2021	年5月24日星期二—2022 1577		0 days	100%															
1504	CS2-8000	SW2			Sewerage and utilities in Workfront D1	532 days	2022年8月5日	2024年5月23日	星期一	年8月5日星期五—2022	NA		-17 days	33%															
1505	CS2-8100	SW2			Construction of DN250 DI pipe (CHTFTT-2), DN800 MS pipe (CHTA) and watermains	426 days	2022年8月5日	2024年1月10日	星期五	年8月5日星期五—2022	NA 1396,1422		-93 days	51%															
1544	CS2-9000	SW2			Sewerage and utilities in Workfront D2	100 days	2021年8月2日	2021年11月29日	星期一	年8月2日星期一—2021	年11月29日星期一—2021		0 days	100%															
1545	CS2-9100	SW2			Construction of DN350 DI temporary flow diversion pipe (CHTE(A), CHTE(B))	100 days	2021年8月2日	2021年11月29日	星期一	年8月2日星期一—2021	年11月29日星期一—2021		0 days	100%															
1555	CS2-10000	SW2			Sewerage and utilities in Workfront D3	928 days	2021年8月31日	2024年10月18日	星期一	年8月31日星期二—2021	NA		-548 days	84%															
1557	CS2-10100	SW2			Construction of DN100 DI pretreatment screen pipe (CHPT2)	836 days	2021年12月20日	2024年10月18日	星期一	年12月20日星期一—2021	NA 1435		-548 days	66%															
1571	CS2-11000	SW2			Sewerage and utilities in Portion D4	695 days	2021年9月1日	2024年1月5日	星期一	年9月1日星期一—2021	NA		-70 days	81%															
1572	CS2-11100	SW2			Construction of DN350 DI pipe (CHPSW-1)	191 days	2021年9月1日	2022年4月26日	星期一	年9月1日星期三—2021	年4月26日星期二—2022		0 days	100%															
1602	CS2-12000	SW2			Sewerage and utilities in Portion E1	169 days	2022年10月24日	2023年5月20日	星期一	年10月24日星期一—2022	年5月20日星期六2023		0 days	100%															
1603	CS2-12100	SW2			Construction of watermains	162 days	2022年11月1日	2023年5月20日	星期一	年11月1日星期二—2022	年5月20日星期六2023		0 days	100%															
1618	CS2-13000	SW2			Sewerage and utilities in Portion E2	52 days	2024年8月24日	2024年10月26日	星期一	NA	NA	2259	-555 days	0%															
1619	CS2-13100	SW2			Construction of DN1600 DI sewage pipe (CHI CH75-95)	52 days	2024年8月24日	2024年10月26日	星期一	NA	NA		-555 days	0%															
1634	CS2-NCE-438	438			Additional Concrete Surround and Steel Plate	10 days	2024年9月28日	2024年10月10日	星期一	NA	NA 1633SS+2 days		-542 days	0%															
1636	CS2-14000	SW2			Sewerage and utilities in Portion E3	64 days	2024年8月5日	2024年10月21日	星期一	NA	NA	2267	-550 days	0%															
1637	CS2-14100	SW2			Construction of DN1600 DI sewage pipe (CHI CH35-75)	64 days	2024年8月5日	2024年10月21日	星期一	NA	NA		-550 days	0%															
1653	CS2-NCE-438	438			Additional Concrete Surround and Steel Plate	10 days	2024年10月4日	2024年10月16日	星期一	NA	NA 1652SS+2 days		-546 days	0%															
1656	CS2-NCE-438	438			Additional Concrete Surround and Steel Plate	10 days	2024年10月4日	2024年10月16日	星期一	NA	NA 1655SS+2 days		-546 days	0%															
1659	CS2-NCE-438	438			Additional Concrete Surround and Steel Plate	10 days	2024年9月28日	2024年10月10日	星期一	NA	NA 1658SS+2 days		-542 days	0%															
1661	CS2-15000	SW2			Sewerage and utilities in Portion E4	975 days	2021年6月29日	2024年10月10日	星期一	年6月29日星期二—2021	NA		-542 days	62%															
1664	CS2-15100	SW2			Construction of DN1600 DI sewage pipe CHH	878 days	2021年6月29日	2024年6月16日	星期一	年6月29日星期二—2021	NA		-445 days	1%															
1683	CS2-16000	SW2			Sewerage and utilities in Workfront E5	816 days	2021年9月13日	2024年6月18日	星期一	年9月13日星期一—2021	NA	2281	-66 days	41%															
1684	CS2-16100a	SW2			Workfront E5a: Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHJ chainage 0-40, CHPSW-4, CHPT1, CHPT2 diversion pipe, manhole MHS4A4, MHS4A8	805 days	2021年9月13日	2024年6月4日	星期一	年9月13日星期一—2021	NA 1912		-55 days	42%															
1702	CS2-16100b	SW2			Workfront E5b: Process Pipe CHI chainage 0-35	227 days	2023年9月9日	2024年6月18日	星期一	年9月9日星期六2023	NA		-66 days	40%															
1748	CS2-17000	SW2			Sewerage and utilities in Workfront F1	675 days	2022年5月5日	2024年8月12日	星期一	年5月5日星期四2022	NA		-9 days	42%															
1749	CS2-17100a	SW2			Workfront F1a: Process Pipe CHPSW-1 CH100-108 , DN150 DI SAS pipe CHZB, Bioreactor Tank Drain CHTD1, watermains of CHPSW-1 and chemical trench	374 days	2022年5月5日	2023年8月7日	星期四	年5月5日星期四2022	NA		-2 days	90%															
1766	CS2-17100b	SW2			Workfront F1b: Bioreactor Tank Drain CHTD1, cable ducts laying	399 days	2023年4月11日	2024年8月12日	星期一	年4月11日星期二—2023	NA		-9 days	0%															
1776	CS2-18000	SW2			Sewerage and utilities in Workfront F2	830 days	2022年2月4日	2024年11月20日	星期一	年2月4日星期五2022	NA		-450 days	84%															
1777	CS2-18100	SW2			Workfront F2a: Construction of Process Pipe CHPSW-4	272 days	2022年2月4日	2023年1月3日	星期一	年2月4日星期五2022	年1月3日星期二—2023		0 days	100%															
1803	CS2-19000	SW2			Sewerage and utilities in Workfront F3	945 days	2021年1月5日	2024年3月13日	星期一	年1月5日星期二—2021	NA		-108 days	83%															
1822	CS2-19300	SW2			Construction of DN350 DI process pipe CHPSW-1	414 days	2022年6月12日	2023年11月1日	星期一	年6月12日星期日2022	NA		0 days	80%															
1848	CS2-20000	SW2			Sewerage and utilities in Workfront G1	96 days	2022年8月25日	2022年12月17日	星期一	年8月25日星期四2022	年12月17日星期六2022		0 days	100%															
1849	CS2-20100	SW2			Process Pipe DN900 DI RAS pipe (CHP) and 2 nos. of DN250 DI sludge pipe (CHSS1 CH140-183, CHSS2 CH140-182)	96 days	2022年8月25日	2022年12月17日	星期一	年8月25日星期四2022	年12月17日星期六2022 2031		0 days	100%															
1863	CS2-21000	SW2			Sewerage and utilities in Workfront G2	1028 days	2021年1月11日	2024年7月3日	星期一	年1月11日星期一—2021	NA		-232 days	81%															
1865	CS2-21100	SW2			Process Pipe DN1400 DI sewage pipe (CHK CH0-6), 2 nos. of DN250 DI sludge pipe (CHSS1, CHSS2 CH100-140)	871 days	2021年1月11日	2023年12月16日	星期一	年1月11日星期一—2021	NA		-75 days	79%															
1895	CS2-22000	SW2			Sewerage and utilities in Workfront G3	1000 days	2021年6月24日																						

Contract No. DC/2018/07 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Civil Works for Sewage Treatment Facilities															Revised Master Programme (Status Date: 31/03/2024)															<div><div></div><div></div><div>群利 – 俊和聯營體</div><div>KL – CW JV</div></div>														
識別碼	Activity ID	Key Date	NCE/(EV)/PMI/(CE)		Task Name	工期	開始時間	完成時間	實際開始時間	實際完成時間	前置任務	後續任務	總寬限期時間	Risk Allowance	完成百分比	9年	2019年7月	2019年10月	2020年1月	2020年4月	2020年7月	2020年10月	2021年1月	2021年4月	2021年7月	2021年10月																		
1938	CS2-23100	SW2			DN700 CHER CH0-38	390 days	2021年6月30日	2022年10月21日	年6月30日 星期三 2021	年10月21日 星期五 2022			0 days		100%																													
1950	CS2-24000	SW2			Sewerage and utilities in Workfront G5	733 days	2022年5月3日	2024年10月19日	年5月3日 星期二 2022	NA		2021SS+21 days	-400 days		44%																													
1951	CS2-24100	SW2	310	489	Process Pipe CHM, CHN, CHO, CHP, CHQ, CHV	501 days	2022年5月3日	2024年1月6日	年5月3日 星期二 2022	NA			-168 days		61%																													
1992	CS2-25000	SW2			Sewerage and utilities in Workfront G6	1080 days	2021年7月27日	2025年3月12日	年7月27日 星期二 2021	NA		2331	-596 days		32%																													
1994	CS2-25100a	SW2			Workfront G6a: Process Pipe CHN, CHPSW-1, CHSS1, CHSS2	1080 days	2021年7月27日	2025年3月12日	年7月27日 星期二 2021	NA 2016		2056	-729 days		5%																													
2005	CS2-25100b	SW2			Workfront G6b: Process Pipe CHN, CHPSW-1, CHSS1, CHSS2	871 days	2022年1月5日	2024年12月11日	年1月5日 星期三 2022	NA 1875SS+36 days			-520 days		40%																													
2020	CS2-26000	SW2			Sewerage and utilities in Workfront H1	178 days	2022年4月1日	2022年11月7日	年4月1日 星期五 2022	年11月7日 星期一 2022			0 days		100%																													
2021	CS2-26100	SW2			Process Pipe CHSS1, CHSS2 CH181-254	178 days	2022年4月1日	2022年11月7日	年4月1日 星期五 2022	年11月7日 星期一 2022	1950SS+21 days		0 days		100%																													
2032	CS2-27000	SW2			Sewerage and utilities in Workfront I1	370 days	2020年7月8日	2021年10月2日	年7月8日 星期三 2020	年10月2日 星期六 2021			0 days		100%																													
2033	CS2-27100	SW2			Process Pipe CHS CH0-72 , CHR CH 57-132	370 days	2020年7月8日	2021年10月2日	年7月8日 星期三 2020	年10月2日 星期六 2021			0 days		100%																													
2044	CS2-28000	SW2			Sewerage and utilities in Workfront I2	1452 days	2020年7月8日	2025年5月20日	年7月8日 星期三 2020	NA			-729 days		40%																													
2045	CS2-28100	SW2			Process Pipe CHR CH0-26	963 days	2020年7月8日	2023年10月4日	年7月8日 星期三 2020	NA			-240 days		55%																													
2061	CS2-29000	SW2			Sewerage and utilities in Workfront I3	581 days	2021年7月21日	2023年7月7日	年7月21日 星期三 2021	年7月7日 星期五 2023			0 days		100%																													
2062	CS2-29100	SW2	294,286,2		Construction of manhole MHFB51A, MHFB51, MHFB52, PSW3	509 days	2021年7月21日	2023年4月6日	年7月21日 星期三 2021	年4月6日 星期四 2023			0 days		100%																													
2097	CS2-30000	SW2			Sewerage and utilities in Workfront I4	722 days	2021年6月5日	2023年11月9日	年6月5日 星期六 2021	NA		1247,2403,2404	0 days		72%																													
2100	CS2-30100	SW2	230,238,2		Construction of Process Pipes CHPSW3; CHDO1, chemical trench	651 days	2021年6月5日	2023年8月15日	年6月5日 星期六 2021	NA			-3 days		61%																													
2136	CS3-0000	*			Remaining drainage and utilities (Section 3)	1428 days?	2020年9月10日	2026年6月25日	年9月10日 星期四 2020	NA		2415,58FF	-323 days?		46%																													
2413	CS3CK-PMI-496g	SW3			ABWF works + BS works	90 days	2024年8月7日	2024年12月16日	NA	NA 2412,2411		58FF	-24.4 days		0%																													
2414	CRW-0000	*			Road Works (Section 3)	130 days	2025年6月26日	2025年11月24日	NA	NA		58FF	-323 days		0%																													
2425	CRW-2000	SW3			Footpath Road Pavement	60 days	2025年9月16日	2025年11月24日	NA	NA 2424SS+5 days		58FF	-323 days		0%																													
2426	CRW-2100	SW3			Signages	20 days	2025年9月4日	2025年9月26日	NA	NA 2423SS		58FF	-273 days		0%																													
2429	CLW-0000	*			Landscaping Works (Section 3)	873 days	2022年12月15日	2026年11月9日	年12月15日 星期四 2022	NA 16			0 days		0%																													
2430	CLW-1000	SW3			Irrigation System	120 days	2022年12月15日	2023年5月16日	年12月15日 星期四 2022	NA		2431,58FF	0 days		0%																													
2431	CLW-2000	SW3			Hard Landscaping Works	214 days	2023年5月23日	2024年2月6日	NA	NA 2430		58FF,2432FS+10 days	0 days	5	0%																													
2432	CLW-3000	SW3			Soft Landscaping Works	214 days	2024年2月22日	2024年11月9日	NA	NA 2431FS+10 days		2433,58FF	0 days	5	0%																													
2433	CLW-4000	DLP			Establishment Works (365 days)	365 days	2024年11月10日	2025年11月9日	NA	NA 2432,217		60FF	0 days	5	0%																													







Activity ID	Activity Name	Remaining Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Time Risk Allowance	2020												2021												2022												2023												2024												2025											
											J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D																		
SWH - Main Works Stage 1 Sidestream Treatment Facilities & Effluent Pumping Station		553	11-Oct-19 A	24-Sep-25	31-Oct-21	24-Sep-25	0																																																																											
Contract Data		553	11-Oct-19 A	24-Sep-25	24-May-22	24-Sep-25	0																																																																											
Starting Date & Completion Date		553	11-Oct-19 A	24-Sep-25	24-May-22	24-Sep-25	0																																																																											
CD1000	Contract Date (LOA)	0	11-Oct-19 A		24-May-22				CD1010, S1P1000,																																																																									
CD1010	Starting Date	0	23-Oct-19 A		24-May-22			CD1000	S1D1040, AD1050,																																																																									
CD1020	Whole Contract Period (1626 days from starting date)	15	23-Oct-19 A	04-Apr-24	21-Mar-24	04-Apr-24	0	CD1010	CD1040, CD1030																																																																									
CD1030	Extension of Time Granted (Total 152days)	152	05-Apr-24	03-Sep-24*	05-Apr-24	03-Sep-24	0	CD1020	CD1040																																																																									
CD1040	Completion Date for the whole of the Works	0		24-Sep-25		24-Sep-25	0	CD1020, CD1010,																																																																										
Access Date		1	23-Oct-19 A	21-Mar-24	24-May-22	24-Sep-25	552																																																																											
AD1000	Portion C-1A (within 480 to 550 days from starting date)	0	23-Oct-19 A	24-Apr-21 A	18-Apr-23	18-Apr-23		CD1010	AD1010																																																																									
AD1010	Planned Access Date for Portion C-1A (Partial Access)	0	24-Apr-21 A	24-Apr-21 A	18-Apr-23	18-Apr-23		CD1010, AD1000	PL1470, S4C1010																																																																									
AD1020	Planned Access Date for Portion C-1A (Access for Remaining Area)	0	12-May-21 A	12-May-21 A	18-Apr-23	18-Apr-23			S4C1010																																																																									
AD1030	Portion C-2A (within 705 to 795 days from starting date) (SS by NCE-NCE-288, within 705 to 831 days from starting date)	0	23-Oct-19 A	30-Jan-22 A	24-Sep-25	24-Sep-25		CD1010	AD1040																																																																									
AD1040	Planned Access Date for Portion C-2A	0	09-Sep-22 A	09-Sep-22 A	24-Sep-25	24-Sep-25		CD1010, AD1030																																																																										
AD1050	Portion C-2B (within 765 to 855 days from starting date) (SS by NCE-NCE-286, within 765 to 880 days from starting date)	0	23-Oct-19 A	20-Mar-22 A	11-Mar-23	11-Mar-23		CD1010	AD1060																																																																									
AD1060	Planned Access Date for Portion C-2B	0	07-Dec-22 A	07-Dec-22 A	11-Mar-23	11-Mar-23		CD1010, AD1050	S5CHPC1020																																																																									
AD1070	Portion C-2C (within 715 to 805 days from starting date) (SS by NCE-NCE-287, within 715 to 934 days from starting date)	0	23-Oct-19 A	13-May-22 A	10-Feb-23	10-Feb-23		CD1010	AD1080																																																																									
AD1080	Planned Access Date for Portion C2-C	0	20-Jul-23 A	20-Jul-23 A	10-Feb-23	10-Feb-23		CD1010, AD1070	S5DIGC1040, S5DIGC1210																																																																									
AD1090	Portion C-2D (within 825 to 945 days from starting date)	0	23-Oct-19 A	24-May-22 A	24-May-22	24-May-22		CD1010	AD1100																																																																									
AD1100	Planned Access Date for Portion C-2D	1	21-Mar-24	21-Mar-24*	24-May-22	24-May-22	-667	AD1090	S5BIOC1020, S5BIOC1030,																																																																									
AD1110	Portion C-3 (within 615 to 705 days from starting date) (SS by NCE-NCE-273, within 615 to 815 days from starting date)	0	23-Oct-19 A	31-Dec-21 A	24-Jun-23	24-Jun-23		CD1010	AD1120																																																																									
AD1120	Planned Access Date for Portion C-3 (SS by NCE-NCE-273)	0	31-Dec-21 A	31-Dec-21 A	24-Jun-23	24-Jun-23		AD1110, S2D1110	KD1060, S5WS2C1000,																																																																									
AD1130	Portion B-1 (within 285 to 345 days from starting date)	0	23-Oct-19 A	30-Sep-20 A	13-Nov-23	13-Nov-23		CD1010	AD1140																																																																									
AD1140	Planned Access Date for Portion B-1	0	30-Sep-20 A	30-Sep-20 A	13-Nov-23	13-Nov-23		AD1130	KD1030, S3C1020,																																																																									
AD1150	Portion B-2a (within 615 to 705 days from starting date) (SS by NCE-NCE-219, within 771 to 891 days from starting date)	0	23-Oct-19 A	23-Mar-22 A	11-Mar-23	11-Mar-23		CD1010	AD1160																																																																									
AD1160	Planned Access Date for Portion B-2a (SS by NCE-NCE-219)	0	23-Mar-22 A	23-Mar-22 A	11-Mar-23	11-Mar-23		AD1150	S5SASC1010, S5SASC1000																																																																									
AD1170	Portion B-2b (within 615 to 705 days from starting date) (SS by NCE-NCE-219)	0	23-Oct-19 A	24-Sep-21 A	24-Sep-25	24-Sep-25																																																																												
AD1180	Planned Access Date for Portion B-2b (SS by NCE-NCE-219)	0	24-Sep-21 A	24-Sep-21 A	24-Sep-25	24-Sep-25																																																																												
AD1190	Works Area WA1-B (starting date)	0	23-Oct-19 A	23-Oct-19 A	14-Feb-23	14-Feb-23		CD1010																																																																										

	File Name: DE/2018/03 RP R44 Layout: DE1803 RP (Mar 2024) - WBS Page 1 of 60	 Remaining Work  Critical Activity  Milestone  Actual Progress	<div> <div>Contract No. DE/2018/03</div> <div> Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities Revised Programme - as at 20 March 2024 </div> </div>	<table border="1"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr> <td>30-Nov-23</td> <td>Rev.40</td> <td>IM/LT</td> <td>KM</td> </tr> <tr> <td>31-Dec-23</td> <td>Rev.41</td> <td>IM/LT</td> <td>KM</td> </tr> <tr> <td>31-Jan-24</td> <td>Rev.42</td> <td>IM/LT</td> <td>KM</td> </tr> <tr> <td>29-Feb-24</td> <td>Rev.43</td> <td>IM/LT</td> <td>KM</td> </tr> <tr> <td>31-Mar-24</td> <td>Rev.44</td> <td>IM/LT</td> <td>KM</td> </tr> </tbody> </table>	Date	Revision	Checked	Approved	30-Nov-23	Rev.40	IM/LT	KM	31-Dec-23	Rev.41	IM/LT	KM	31-Jan-24	Rev.42	IM/LT	KM	29-Feb-24	Rev.43	IM/LT	KM	31-Mar-24	Rev.44	IM/LT	KM
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 Remaining Work

 Critical Activity

 Milestone

 Actual Progress

Contract No. DE/2018/03

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities

Revised Programme - as at 20 March 2024

Date	Revision	Checked	Approved
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 Remaining Work
 Critical Activity
 Milestone
 Actual Progress

Contract No. DE/2018/03

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities

Revised Programme - as at 20 March 2024

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31-Mar-24	Rev.44	IM/LT	KM

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Activity ID	Activity Name	Remaining Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Time Risk Allowance	2019202020212022202320242025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Activity ID	Activity Name	Remaining Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Time Risk Allowance
CE0272	NCE-PMI-0272 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		08-Oct-21 A		24-Sep-25				
CE0272-1	NCE-PMI-0272-1 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		28-Mar-22 A		24-Sep-25				
CE0272-2	NCE-PMI-0272-2 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		14-Apr-23 A		24-Sep-25				
CE0273	NCE-NCE-0273 - Change of Site Access Date to Workshop No. 2 Forming Part of Portion C-3 of the Site	0		24-Sep-21 A		24-Sep-25				
CE0273a	NCE-NCE-0273 - Portion C-3 (within 615 to 815 days from starting date)	0	23-Oct-19 A	31-Dec-21 A	24-Sep-25	24-Sep-25			CE0273b	
CE0273b	NCE-NCE-0273 - Revised Access Date for Portion C-3	0	31-Dec-21 A	31-Dec-21 A	24-Sep-25	24-Sep-25		CE0273a		
CE0275	NCE-PMI-0275 - Additional Lighting Fittings for UV System No.1 & Effluent Pumping Station No.1	0		29-Sep-21 A		24-Sep-25				
CE0277	NCE-PMI-0277 - Provision of Access Platform for the EOT Crane (LA-01-03) in Sludge Dewatering Building	0		27-Sep-21 A		24-Sep-25				
CE0279	NCE-PPMI-0279 - Implementation of Digital Twin Pilot Project in Advance Works Area of Shek Wu Hui Sewage Treatment Works	0		11-Aug-22 A		24-Sep-25				
CE0280	NCE-PMI-0280 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		21-Oct-21 A		24-Sep-25				
CE0280a	PMI-PMI-0280 - Employment of Temporary Staff under Job Creation Scheme 2.0 (JCS 2.0) under Anti-Epidemiv Fund (AEF)	0		16-Jun-23 A		24-Sep-25				
CE0283	NCE-PMI-0283 - Provision of Metal Base Plate,Stopper&Guide Rail for Loading&Unloading of Sludge Skip at Skip Rm of SDB	0		11-Nov-21 A		24-Sep-25				
CE0284	NCE-PMI-0284 - Revised Road Lighting System for Zone C	0		03-Dec-21 A		24-Sep-25				
CE0286	NCE-NCE-0286 - Change of Site Access Date to Combined Heat and Power Building Forming Part of Portion C-2B of the Site	0		21-Jan-22 A		24-Sep-25				
CE0286a	NCE-NCE-0286 - Portion C-2B (within 765 to 880 days from starting date)	0	23-Oct-19 A	20-Mar-22 A	24-Sep-25	24-Sep-25			CE0286b	
CE0286b	NCE-NCE-0286 - Revised Access Date for Portion C2-B	0	07-Dec-22 A	07-Dec-22 A	24-Sep-25	24-Sep-25		CE0286a		
CE0287	NCE-NCE-0287 - Change of Site Access Date to Sludge Digester & Distribution Chamber Forming Part of Portion C- 2C	0		24-Dec-21 A		24-Sep-25				
CE0287a	NCE-NCE-0287 - Portion C-2C (within 715 to 934 days from starting date)	0	23-Oct-19 A	13-May-22 A	24-Sep-25	24-Sep-25			CE0287b	
CE0287b	NCE-NCE-0287 - Revised Access Date for Portion C2-C	0	20-Jul-23 A	20-Jul-23 A	24-Sep-25	24-Sep-25		CE0287a		
CE0288	NCE-NCE-0288 - Change of Site Access Date to Sludge Dewatering Building Forming Part of the Portion C- 2A of the site	0		18-Dec-21 A		24-Sep-25				
CE0288a	NCE-NCE-0288 - Portion C-2A (within 705 to 831 days from starting date)	0	23-Oct-19 A	30-Jan-22 A	24-Sep-25	24-Sep-25			CE0288b	
CE0288b	NCE-NCE-0288 - Revised Access Date for Portion C-2A	0	09-Sep-22 A	09-Sep-22 A	24-Sep-25	24-Sep-25		CE0288a		
CE0292	RCNE-CNE-0292 - Inclement Weather - August 2021 (Time Implication)	0		02-Nov-21 A		24-Sep-25				
CE0293	RCNE-CNE-0293 - Inclement Weather - September 2021 (Time Implication)	0		02-Nov-21 A		24-Sep-25				
CE0294	NCE-PMI-0294 - IIB for FAT for THP System	0		30-Nov-21 A		24-Sep-25				
CE0296	NCE-PMI-0296 - Provision of emMIC Adoption of FRP Walkway and Platform for Sludge Digesters	0		03-Dec-21 A		24-Sep-25				
CE0297	NCE-PMI-0297-Provision of Addit. Module BIM Collaboration Pro to existing CDE&Omission of Procurement Maintenance of CDE	0		03-Dec-21 A		24-Sep-25				
CE0298	NCE-PMI-0298 - Additional Light Fittings at Roof Floor of UV System No.1 & Effluent Pumping Station No.1	0		30-Nov-21 A		24-Sep-25				
CE0299	NCE-PMI-0299 - Revised Plumbing Layout for UV System No.1 & Effluent Pumping Station No.1	0		14-Dec-21 A		24-Sep-25				
CE0300	NCE-PMI-0300 - Revised Plumbing Layout for CHP, DOU 12 and SD&DC	0		10-Mar-22 A		24-Sep-25				
CE0301	NCE-PMI-0301 - Revised Plumbing Layout for SDB & FeCl3 Dosing System	0		24-Feb-22 A		24-Sep-25				
CE0302	NCE-PMI-0302 - Revised Lighting Layout Plan for Workshop No.2	0		17-Dec-21 A		24-Sep-25				
CE0303	NCE-CNE-0303 - Revise Fire Services Provision for Server Room of Workshop No.2	0		19-Jan-22 A		24-Sep-25				
CE0304	NCE-PMI-0304 - Provision of Digital Displaying Screen and Softwarewithin Portion B Area	0		29-Dec-21 A		24-Sep-25				
CE0305	NCE-PMI-0305 - Process Review for Advance Works	0		12-Jan-22 A		24-Sep-25				
CE0306	NCE-CNE-0306 - Additional Trial Pits & the Associated Modification Works for Uncharted Utilities at STF	0		01-Mar-22 A		24-Sep-25				

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Activity ID	Activity Name	Remaining Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Time Risk Allowance	Gantt Chart																																																											
											2020					2021					2022					2023					2024					2025																																		
											J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D						
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PL1180	Provision of Site Management Plan for Trip Ticket System	167	20-Nov-19 A	03-Sep-24	11-Apr-25	24-Sep-25	386	CD1010, PL1010	CD1040																																																													
PL1190	Provision of As-constructed Drawings for Section 3	121	30-Aug-24	28-Dec-24	23-Apr-24	21-Aug-24	-129	CD1010, S3C1150	CD1040, SC31120																																																													
PL1200	Provision of As-constructed Drawings for Section 4	0	13-Oct-22 A	30-Dec-23 A	24-Sep-25	24-Sep-25		CD1010, S4C1160,	CD1040, SC41110																																																													
PL1210	Provision of As-constructed Drawings for Section 5	151	12-Oct-24	11-Mar-25	04-Mar-24	02-Aug-24	-222	CD1010, S5DIGC1040,	CD1040, SC51120																																																													
PL1220	Provision of Systematic Risk Management	166	20-Nov-19 A	02-Sep-24	12-Apr-25	24-Sep-25	387	CD1010, PL1010	CD1040																																																													
PL1230	Provision of Site Liaison Group & Community Liaison Group	166	20-Nov-19 A	02-Sep-24	12-Apr-25	24-Sep-25	387	CD1010, PL1010	CD1040																																																													
PL1240	Provision of 24-Hour Telephone Line	166	20-Nov-19 A	02-Sep-24	12-Apr-25	24-Sep-25	387	CD1010, PL1010	CD1040																																																													
PL1260	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 3	90	28-Jan-25	27-Apr-25	26-Dec-23	24-Mar-24	-399		PL1270																																																													
PL1270	Provision of Training for Employer's Staff for Section 3	60	27-Jul-25	24-Sep-25	23-Jun-24	21-Aug-24	-399	CD1010, PL1260	CD1040, SC31120																																																													
PL1280	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 4	27	21-Mar-24	16-Apr-24	17-Aug-25	12-Sep-25	514		PL1290																																																													
PL1290	Provision of Training for Employer's Staff for Section 4	12	17-Apr-24	28-Apr-24	13-Sep-25	24-Sep-25	514	CD1010, S4T1020, PL1280	CD1040, SC41110																																																													
PL1300	Submission & Acceptance of Training Programme, Training Manual & Syllabus for Section 5	90	08-Feb-25	08-May-25	05-Jan-24	04-Apr-24	-400		PL1310																																																													
PL1310	Provision of Training for Employer's Staff for Section 5	30	07-Aug-25	05-Sep-25	03-Jul-24	02-Aug-24	-400	CD1010, S5T1180, S5DIGC1040, PL1300	CD1040, SC51120																																																													
PL1320	Prepare & Submit O&M Manual for Section 3	90	16-Apr-25	14-Jul-25	13-Mar-24	10-Jun-24	-399	CD1010	CD1040, PL1330																																																													
PL1330	PM Reivew & Comment O&M Manual for Section 3	21	15-Jul-25	04-Aug-25	11-Jun-24	01-Jul-24	-399	PL1320	PL1340																																																													
PL1340	Revise & Re-submit O&M Manual for Section 3	30	05-Aug-25	03-Sep-25	02-Jul-24	31-Jul-24	-399	PL1330	PL1350																																																													
PL1350	PM Reivew & Approval of O&M Manual for Section 3	21	04-Sep-25	24-Sep-25	01-Aug-24	21-Aug-24	-399	PL1340	CD1040, SC31120																																																													
PL1360	Prepare & Submit O&M Manual for Section 4	0	07-Feb-22 A	28-Mar-22 A	03-Sep-25	03-Sep-25		CD1010	CD1040, PL1370																																																													
PL1370	PM Reivew & Comment O&M Manual for Section 4	0	29-Mar-22 A	03-May-22 A	03-Sep-25	03-Sep-25		PL1360	PL1380																																																													
PL1380	Revise & Re-submit O&M Manual for Section 4	1	04-May-22 A	21-Mar-24	03-Sep-25	03-Sep-25	531	PL1370	PL1390																																																													
PL1390	PM Reivew & Approval of O&M Manual for Section 4	21	22-Mar-24	11-Apr-24	04-Sep-25	24-Sep-25	531	PL1380	CD1040, SC41110																																																													
PL1400	Prepare & Submit O&M Manual for Section 5	90	16-Apr-25	14-Jul-25	22-Feb-24	22-May-24	-419	CD1010	CD1040, PL1410																																																													
PL1410	PM Reivew & Comment O&M Manual for Section 5	21	15-Jul-25	04-Aug-25	22-May-24	12-Jun-24	-419	PL1400	PL1420																																																													
PL1420	Revise & Re-submit O&M Manual for Section 5	30	05-Aug-25	03-Sep-25	12-Jun-24	12-Jul-24	-419	PL1410	PL1430																																																													
PL1430	PM Reivew & Approval of O&M Manual for Section 5	21	04-Sep-25	24-Sep-25	12-Jul-24	02-Aug-24	-419	PL1420	CD1040, SC51120																																																													
PL1440	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all relevant Doc and Process Commissioning	136	20-Nov-19 A	03-Aug-24	12-May-25	24-Sep-25	417	CD1010, PL1010	CD1040																																																													
Site Upkeeping		136	20-Nov-19 A	03-Aug-24	12-May-25	24-Sep-25	417																																																															
PL1450	General Site Upkeeping of the Site	136	20-Nov-19 A	03-Aug-24	12-May-25	24-Sep-25	41																																																															

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		S4C1020	E&M Installation of EOT Cranes (2T)	0	25-Jun-21 A	17-Sep-21 A	18-Apr-23	18-Apr-23	S1D1180, S1D1260, S4C1010, S4P1100	S4T1010, S4C1030, S4C1040, S4C1110, S4C1090, S4T1000, S4C1080, S4C1070, PL1200	
		S4C1030	E&M Installation of EOT Cranes (5T)	0	20-Oct-21 A	11-Dec-21 A	16-May-23	16-May-23	S4C1020	S5UVPC1000, S4T1000, PL1200	
		S4C1040	E&M Installation of Transfer Pumps & Associated Pipeworks / Valves	0	21-Oct-21 A	05-Mar-22 A	18-Apr-23	18-Apr-23	S4C1020, S4P1070, S4P1130	S5TXRC1050, S4T1010, PL1200	
		S4C1050	Preperation Works for E&M Installation of Penstocks & Stoplogs	0	17-Sep-21 A	19-Sep-21 A	16-May-23	16-May-23		S4C1070	
		S4C1060	CNE-014 Access to and use to Portion C-1A for Installation of EOT, UV Equipment and Effluent Transfer Pump	0	16-Sep-21 A		16-May-23			S4C1070	
		S4C1070	E&M Installation of Penstocks & Stoplogs (Impacted by CNE-014)	0	11-Nov-21 A	15-Jan-22 A	16-May-23	16-May-23	S4P1110, S4P1120, S4C1020, S4C1050, S4C1060	S4T1010, S5TXRC1050, PL1200	
		S4C1080	E&M Installation of UV System	0	11-Nov-21 A	19-Feb-22 A	16-May-23	16-May-23	S4P1040, S4P1060, S4C1020	S4T1010, S5TXRC1050, PL1200	
		S4C1090	FS Installation - Conduits, Trunking, & Pipeworks	0	08-Nov-21 A	18-Jan-22 A	24-Sep-25	24-Sep-25	S4C1010, S4C1020	S4C1100, PL1200	
		S4C1100	FS Installation - Cable Laying, Termination, Associated Fitting & Field Devices	0	15-Nov-21 A	18-Jan-22 A	24-Sep-25	24-Sep-25	S4P1150, S4C1090	SC41110, S4S1010, PL1200	
		S4C1110	BS Fitting Installation - Conduits, Trunking, & Ductworks	0	15-Nov-21 A	19-Feb-22 A	24-Sep-25	24-Sep-25	S4C1020, S1D1310	S4C1120, PL1200	
		S4C1120	BS Fitting Installation - Cable Laying, Termination, Associated Fitting & Field Devices	0	13-Dec-21 A	21-May-22 A	24-Sep-25	24-Sep-25	S4C1110, S4P1140	S4C1150, PL1200	
		S4C1130	Excavation Works & Cable Laying - by CLP (Impacted by CNE-035)	0	22-Dec-21 A	23-Jun-22 A	16-May-23	16-May-23		S4C1140	
		S4C1140	Ready for Power Energization	0		23-Jun-22 A		16-May-23	S4C1000, S4C1130, S4S1000	S4S1030, S4T1010	
		S4C1150	Installation of CCTV System	0	14-Mar-22 A	19-Apr-22 A	24-Sep-25	24-Sep-25	S4C1120	SC41110, PL1200	
		S4C1160	Installation of FS Link	0	17-Nov-21 A	08-Feb-22 A	24-Sep-25	24-Sep-25		S4S1010, PL1200	
		Statutory Submission / Inspection		0	17-Apr-21 A	02-Aug-22 A	16-May-23	24-Sep-25			
		CLP Submission		0	17-Apr-21 A	15-Jun-22 A	16-May-23	16-May-23			
		S4S1000	Submission & Approval of Electrical Schematic Wiring Diagram to CLP (Temp. Power)	0	17-Apr-21 A	15-Jun-22 A	16-May-23	16-May-23		S4C1140	
		FSD Submission & Inspection		0	01-Apr-22 A	02-Aug-22 A	24-Sep-25	24-Sep-25			
		S4S1010	Prepare & Submit FS/314, FS/501 & FS/501a	0	01-Apr-22 A	30-Jun-22 A	24-Sep-25	24-Sep-25	S4C1100, S4C1160	S4S1020	
		S4S1020	FSD Review & Approval of FS/314, FS/501 & FS/501a	0	01-Jul-22 A	25-Jul-22 A	24-Sep-25	24-Sep-25	S4S1010	S4S1030	
		S4S1030	F.S. Inspection, Defects Rectification & Re-inspection	0	26-Jul-22 A	29-Jul-22 A	24-Sep-25	24-Sep-25	S4S1020, S4C1140	S4S1040	
		S4S1040	Issuance of Acceptance Letter	0	30-Jul-22 A	02-Aug-22 A	24-Sep-25	24-Sep-25	S4S1030	SC41110	
		Testing & Commissioning		0	18-Sep-21 A	14-Sep-22 A	16-May-23	16-May-23			
		S4T1000	T&C and R.PE inspection for EOT Cranes	0	18-Sep-21 A	28-Jan-22 A	16-May-23	16-May-23	S4C1020, S4C1030	S4T1010	
		S4T1010	SAT for UV System No. 1 & Effluent Transfer Pumping Station No. 1 (Impacted by CNE-035)	0	10-Jan-22 A	14-Sep-22 A	16-May-23	16-May-23	S4C1020, S4C1070, S4C1080, S4C1000, S4T1000, S4C1040, S4P1090, S4C1140	S4T1020	
		S4T1020	System Commissioning Tests	0	11-Sep-22 A	14-Sep-22 A	16-May-23	16-May-23	S4T1010	SC41110, PL1290, S5UVPC1000	

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Activity ID		Activity Name	Remaining Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Time Risk Allowance	2020												2021												2022												2023												2024												2025																																																																																																																																																																																																																																																																																																																																																																									
9		J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J

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Activity ID		Activity Name	Remaining Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	Predecessors	Successors	Time Risk Allowance	Gantt Chart																																																
S5SDBC1660 S5SDBC1670 Ground Floor S5SDBC1680 S5SDBC1690 S5SDBC1700 S5SDBC1710 S5SDBC1720 S5SDBC1730 S5SDBC1740 S5SDBC1750 S5SDBC1760 S5SDBC1770 S5SDBC1780 S5SDBC1880 First Floor S5SDBC1790 S5SDBC1800 S5SDBC1810 S5SDBC1820 S5SDBC1830 S5SDBC1840 S5SDBC1850 S5SDBC1860 S5SDBC1870 S5SDBC1890 Testing and Commissioning S5SDBT1000 S5SDBT1010	S5SDBC1660	Installation of Plumbing System - Branch Pipework	0	30-May-23 A	29-Feb-24 A	26-Aug-25	26-Aug-25		S5SDBC1650	S5SDBC1670	7																																																	
	S5SDBC1670	Installation of Plumbing System - Sanitary Fitting	30	01-Apr-24*	30-Apr-24	26-Aug-25	24-Sep-25	512	S5SDBC1650, S5SDBC1660		3																																																	
	Ground Floor		131	21-Nov-22 A	29-Jul-24	01-Feb-23	24-Sep-25	422																																																				
	S5SDBC1680	Installation of FS System - Main Pipework	0	21-Nov-22 A	30-Dec-22 A	01-Feb-23	01-Feb-23		S5SDBC1020, S5SDBC1590	S5SDBC1710, S5SDBC1310																																																		
	S5SDBC1690	Installation of FS System - Branch pipework, Conduit & Wiring	0	16-Dec-22 A	14-Jan-23 A	25-Jul-23	25-Jul-23		S5SDBC1600	S5SDBC1700, S5S1130																																																		
	S5SDBC1700	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	0	29-Sep-23 A	07-Nov-23 A	25-Jul-23	25-Jul-23		S5SDBC1690	S5SDBT1150	1																																																	
	S5SDBC1710	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	0	31-May-23 A	09-Nov-23 A	31-May-23	31-May-23		S5SDBC1680	S5SDBC1720	2																																																	
	S5SDBC1720	Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	40	10-Jun-23 A	29-Apr-24	31-May-23	10-Jul-23	-295	S5SDBC1710	S5SDBC1730	3																																																	
	S5SDBC1730	Installation of MVAC System - Air Grills & Diffuser	0	01-Dec-23 A	15-Dec-23 A	10-Jul-23	10-Jul-23		S5SDBC1720	S5SDBT1180																																																		
	S5SDBC1740	Installation of Plumbing System - Main Pipework	0	21-Nov-23 A	30-Dec-23 A	26-Aug-25	26-Aug-25			S5SDBC1760, S5SDBC1750	3																																																	
	S5SDBC1750	Installation of Plumbing System - Branch Pipework	0	30-Jan-24 A	09-Mar-24 A	26-Aug-25	26-Aug-25		S5SDBC1740	S5SDBC1760	4																																																	
	S5SDBC1760	Installation of Plumbing System - Sanitary Fitting	30	01-Apr-24*	30-Apr-24	26-Aug-25	24-Sep-25	512	S5SDBC1740, S5SDBC1750, S5SDBC1870		3																																																	
	S5SDBC1770	Generator & Fuel Room Installation	50	08-Apr-24*	27-May-24	18-Feb-23	09-Apr-23	-415	S5SDBP1670, S5SDBC1020, S5S1010, S5S1260	S5SDBT1140, S5S1270	9																																																	
	S5SDBC1780	Installation of Lift	41	06-Sep-23 A	30-Apr-24	15-May-23	25-Jun-23	-311	S5SDBP1060, S5WS2C1190	S5SDBT1070	5																																																	
	S5SDBC1880	Installation of Gas Detection System	90	01-May-24	29-Jul-24	26-Apr-23	25-Jul-23	-371	S5CHPP1040	S5SDBC1890, S5SDBT1240	9																																																	
	First Floor		131	06-Dec-22 A	29-Jul-24	01-Feb-23	24-Sep-25	422																																																				
	S5SDBC1790	Installation of FS System - Main Pipework	0	06-Dec-22 A	15-Jan-23 A	01-Feb-23	01-Feb-23		S5SDBC1590	S5SDBC1800, S5SDBC1540																																																		
	S5SDBC1800	Installation of FS System - Branch pipework, Conduit & Wiring	41	16-Jan-23 A	30-Apr-24	14-Jun-23	25-Jul-23	-281	S5SDBC1790	S5SDBC1810, S5S1130	8																																																	
	S5SDBC1810	Installation of FS System - Dropper, Sprinkler Head, Detector & Devices	20	11-Apr-24	30-Apr-24	05-Jul-23	25-Jul-23	-281	S5SDBC1800	S5SDBT1150	2																																																	
	S5SDBC1820	Installation of MVAC System - Ceiling Mount Equipment, Main Ductwork and Pipework	0	21-Aug-23 A	29-Dec-23 A	10-Jul-23	10-Jul-23		S5P1080	S5SDBC1830	1																																																	
	S5SDBC1830	Installation of MVAC System - Wall Mount Equipment, Branch Duct & Pipework	0	10-Dec-23 A	08-Jan-24 A	10-Jul-23	10-Jul-23		S5SDBC1820	S5SDBC1840	3																																																	
	S5SDBC1840	Installation of MVAC System - Air Grills & Diffuser	0	01-Dec-23 A	15-Dec-23 A	10-Jul-23	10-Jul-23		S5SDBC1830	S5SDBT1180	1																																																	
	S5SDBC1850	Installation of Plumbing System - Main Pipework	0	21-Nov-23 A	20-Dec-23 A	15-Aug-25	15-Aug-25			S5SDBC1870, S5SDBC1860	3																																																	
	S5SDBC1860	Installation of Plumbing System - Branch Pipework	0	21-Dec-23 A	02-Feb-24 A	15-Aug-25	15-Aug-25		S5SDBC1850	S5SDBC1870	4																																																	
	S5SDBC1870	Installation of Plumbing System - Sanitary Fitting	41	03-Feb-24 A	30-Apr-24	15-Aug-25	24-Sep-25	512	S5SDBC1850, S5SDBC1860	S5SDBC1760	3																																																	
	S5SDBC1890	Installation of Gas Detection System	90	01-May-24	29-Jul-24	26-Apr-23	25-Jul-23	-371	S5SDBC1880	S5SDBT1240	9																																																	
	Testing and Commissioning		188	01-Dec-23 A	24-Sep-24	12-Mar-23	24-Aug-23	-398																																																				
	S5SDBT1000	Dry Test for Pumps	14	28-May-24	10-Jun-24	12-May-23	26-May-23	-382	S5SDBC1250, S5SDBC1120, S5SDBC1110, S5SDBC10																																																			



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Remaining Work

Critical Activity

Milestone

Actual Progress

Contract No. DE/2018/03

Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

Sidestream Treatment Facilities and E&M Works for Sludge Treatment Facilities

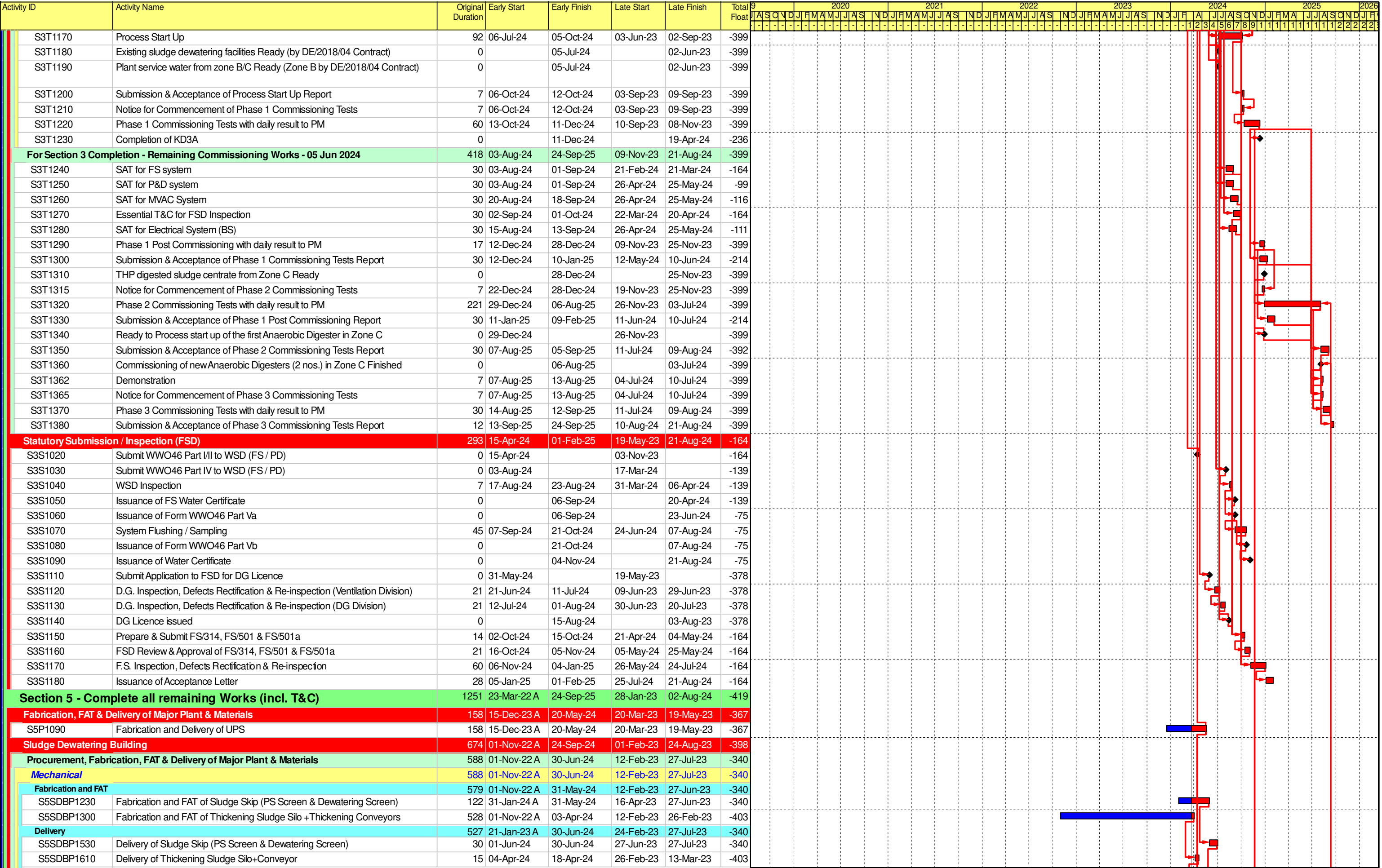
Revised Programme - as at 20 March 2024

Date	Revision	Checked	Approved
30-Nov-23	Rev.40	IM/LT	KM
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31-Jan-24	Rev.42	IM/LT	KM
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31-Mar-24	Rev.44	IM/LT	KM

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Updated on:												20-Jun-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status	
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %			
Drawing Submission for Key Dates													
KD1A: Submission of civil and dimensional requirement drawing, electrical schematic drawings, etc. from formation level up to +8mPD in accordance with the contract requirement of Contract No. DC/2018/07 to carry out civil works construction	KD1A: Submission of Civil Requirement Drawing (Final)	28/8/2020	18/9/2020	5/11/2020	5/11/2020	Task Completed	no.	26	26	100%			
	KD1A: Submission of Electrical Schematic Drawing (Final)	15/7/2020	15/7/2020	5/11/2020	5/11/2020	Task Completed	no.	11	11	100%			
	KD1A: 6 November 2020												
KD1B: Submission of remaining civil and dimensionnal requirement drawings, electrical schematic drawing, etc. in accordance with the contract requirement of Contract No. DC/2018/07 to carry out civil works construction	KD1B: Submission of Civil Requirement Drawing (First Draft)	30/9/2020	28/9/2020	30/12/2020	31/3/2021	Task Completed	no.	47	47	100%			
	KD1B: Submission of Civil Requirement Drawing (Final)	6/11/2020	5/11/2020	4/6/2021	4/6/2021	Task Completed	no.	47	47	100%		All the CWR Drawings were submitted.	
	KD1B: 4 June 2021												
KD3A: 04SC010 - Dismantle & Removal of Emergency Generators in existing Power House	Submission of subletting package for acceptance (C9)	1/3/2020	24/2/2020	14/3/2020	22/4/2020	Task Completed				100%	-	Bestwise resubmitted on 22 April 2020	
	Acceptance of subletting package (C9)	14/3/2020	6/5/2020	1/4/2020	5/5/2020	Task Completed				100%	-	AECOM accepted subletting package on 5 May 2020	
	Tender invitation (C9)	1/4/2020	15/5/2020	15/4/2020	22/5/2020	Task Completed				100%	-	Invitation to tender was commenced on 12 May 2020 and tender returned on 22 May 2020	
	Tender award (C9)	15/4/2020	22/5/2020	29/4/2020	26/5/2020	Task Completed				100%	-	Bestwise submitted tender report on 26 May 2020	
	Acceptance of tender award (C9)	-	-	-	6/6/2020	Task Completed				100%	-	AECOM accepted tender report on 2 June 2020, Letter of Acceptance was issued on 6 June	
	Dismantle of existing BS equipment		15/6/2020		25/7/2020	Task Completed				100%			
KD3A: 04SC010 - Dismantle & Removal of Emergency Generators in existing Power House	Removal of emergency generators	1/6/2020	15/6/2020	30/6/2020	25/7/2020	Task Completed				100%			
	KD3A: Testing and Comissioning	1/7/2020	3/7/2020	29/7/2020	29/7/2020	Task Completed				100%		First test was conducted on 3 July 2020. Remaining test would be subjected to completion of civil works. KD3A - 29 July 2020. Joint Site Inspection was conducted on 24 July 2020 and Notice of completion of work was submitted on 28 July 2020	
	KD3A: 29 July 2020												
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	Submission of onsite survey plan on E&M aspects for	1/3/2020	25/3/2020	30/3/2020	27/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 27 April 2020	
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	22/5/2020	Task Completed				100%	-	AECOM accepted the onsite survey plan on 22 May 2020. Onsite coordination with ST1	
	KD3B: Submission of onsite survey report	11/7/2020	20/7/2020	16/7/2020	30/7/2021	Task Completed				100%	Bestwise	- Onsite survey conducted from 20 July 2020 to 22 July 2020. Bestwise submitted survey report on 5 August 2020. AECOM commented on 19 Aug 2020. Bestwise to resubmit upon conducting the remaining onsite survey. (Done) - Bestwise revised survey plan for remaining onsite checking of PST No. 6 on 1 Sep 2020. After discussion with plant operator, the remaining survey would be conducted after the dismantling work of PSTs. Formal survey record for PST No.4 was submitted on 24 May 2021. - Remaining survey (level of bridge & scraper) for PST 6 completed. - Formal survey report shall be submitted on 30 Jul 2021.	
	KD3B: Acceptance of onsite survey report	17/7/2020	6/8/2020	23/7/2020	6/8/2021	Task Completed				-		Acceptance for the center point, vertical and horizontal alignment of ductfoot installation of PST No.4 shall subject to joint site meeting conducted on 2 June 2021. Refer to E-RISC no. 000014A & 000016 result for details.	
	KD3B: Preparation of procurement package (C11)	2/12/2019	1/8/2020	13/4/2020	7/8/2020	Task Completed				100%			
	KD3B: Tender invitation - Clarifier (C11)	2/12/2019	14/8/2020	13/4/2020	26/8/2020	Task Completed				100%			
	KD3B: Tender Award - Clarifier (C11)	2/12/2019	26/8/2020	13/4/2020	25/9/2020	Task Completed				100%			
	KD3B: Acceptance of tender award (C11)	2/12/2019	11/9/2020	13/4/2020	18/9/2020	Task Completed				-			
	KD3B: Tender invitation - DI Pipe (C11)	2/12/2019	13/1/2021	13/4/2020	19/1/2021	Task Completed				100%			
	KD3B: Tender Award - DI Pipe (C11)	2/12/2019	21/1/2021	13/4/2020	23/1/2021	Task Completed				100%			
	KD3B: Tender invitation - LCP (C11)	2/12/2019	3/2/2021	13/4/2020	5/2/2021	Task Completed							
	KD3B: Tender Award - LCP (C11)	2/12/2019	6/2/2021	13/4/2020	8/2/2021	Task Completed				100%			
	KD3B: Preparation of subletting package for dismantling work (C9)	2/12/2019	21/9/2020	13/4/2020	21/10/2020	Task Completed				100%			
	KD3B: Tender invitation for dismantling work (C9)	2/12/2019	12/11/2020	13/4/2020	19/11/2020	Task Completed				100%			
	KD3B: Tender Award for dismantling work (C9)	2/12/2019	20/11/2020	13/4/2020	22/11/2020	Task Completed				100%			
	KD3B: Acceptance of tender award for dismantling work (C9)	2/12/2019	23/11/2020	13/4/2020	1/12/2020	Task Completed				100%			

Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD3B: Preparation and Acceptance of subletting package for installation work (C9)	2/12/2019	15/12/2020	13/4/2020	1/3/2021	Task Completed				100%		
	KD3B: Tender invitation for installation work (C9)	2/12/2019	3/3/2021	13/4/2020	10/3/2021	Task Completed				100%		
	KD3B: Tender Award for installation work (C9)	2/12/2019	12/3/2021	13/4/2020	15/3/2021	Task Completed				100%		
	KD3B: Acceptance of tender award for installation work (C9)	2/12/2019	15/3/2021	13/4/2020	19/3/2021	Task Completed				100%		
	Submission and Acceptance of Drawing Submission	14/4/2020	5/8/2020	10/9/2020	11/1/2021	Task Completed				100%		
	Submission and Acceptance of P&M Submission	14/4/2020	5/8/2020	10/9/2020	30/6/2021	Task Completed						Formal resubmission of P&M for Rotating Bridge Scraper P&M-0024 (Rev.1) was submitted to AECOM on 24 June 2021 and is accepted by AECOM. P&M submission for Local Control Panel Rev.3 was submitted on 20 Mar 2021 and AECOM accepted on 26 Mar 2021.
	Submission and Acceptance of FAT Plan	1/12/2020	27/1/2021	15/12/2020	16/2/2021	Task Completed				100%		
	Submission and Acceptance of SAT Plan	1/3/2021	1/3/2021	1/4/2021	5/5/2021	Task Completed				100%		Bestwise submitted on 13 Apr 2021. AECOM accepted with comments on 5 May 2021.
	Submission and Acceptance of Design Submission (Support to DN700 Feed Pipe)	N/A	22/2/2021	N/A	13/5/2021	Task Completed						Advanced Calculation was provided on 17 Mar 2021 and revised on 18 Mar 2021. Bestwise proposed to use the existing support. Calculation was provided on 1 Apr 2021 via email. Dimension of support column was checked again on 14 Apr 2021. Proposal submitted on 30 Apr 2021. AECOM accepted with comments on 13 May 2021.
	Submission and Acceptance of Design Submission (Stainless steel support to FRP Cover of Effluent	N/A	24/2/2021	N/A	19/4/2021	Task Completed				100%		Advanced Calculation was provided on 17 Mar 2021 and revised on 18 Mar 2021. Bestwise formal submitted on 26 Mar 2021. AECOM accepted with comment on 19 Apr 2021.
	KD3B: Dismantle and Removal of E&M Equipment at PST No. 6	9/2/2021	21/12/2020	19/2/2021	15/1/2021	Task Completed				100%		
	Flow Diversion and drain out PST No.4	N/A	25/1/2021	N/A	26/3/2021	Task Completed				100%		
	KD3B: Dismantle and Removal of E&M Equipment at PST No. 4	9/2/2021	5/3/2021	19/2/2021	1/4/2021	Task Completed				100%		
	KD3B: Material Manufacturing (Clarifier)	12/9/2020	16/12/2020	12/12/2020	20/2/2021	Task Completed				100%		The clarifier would be manufactured in 2 batches (rotating bridge related and FRP launder cover). Manufaturing instruction was issued on 16 Dec 2020. Jash suggested 1st batch of material (clarifier) would be ready for shipping on 20 Feb 2021 and 2nd batch of material (FRP Launder Cover) would be ready for shipping on 13 Mar 2021. (To be confirmed by Jash by providing shipment booking, but supplier cannot provide updated information at thie moment due to second surge of COVID-19 in india)
	KD3B: FAT of the Clarifier	N/A	24/2/2021	N/A	1/3/2021	Task Completed				100%		FAT Report submitted on 24 Feb 2021 and AECOM accepted subject to comment on 1 Mar 2021
	KD3B: Material Delivery (Clarifier)	13/12/2020	27/2/2021	18/1/2021	6/4/2021	Task Completed				100%		
	KD3B: Material Deliver to Site (Clarifier)	N/A	6/4/2021	N/A	8/4/2021	Task Completed				100%		
	KD3B: Material Manufacturing (DI pipes and fittings)	11/9/2020	26/1/2021	18/1/2021	15/3/2021	Task Completed				100%		Extracted from C9 package to C11 package to suit the installation programme
	KD3B: Material Delivery (DI pipes and fittings)	11/9/2020	16/3/2021	18/1/2021	24/3/2021	Task Completed				100%		
	KD3B: Material Delivery (FRP Cover)	N/A	26/3/2021	N/A	21/6/2021	Task Completed				100%		All the FRP covers were delivered to site.
	KD3B: Material Manufacturing (LCP)	11/9/2020	4/3/2021	18/1/2021	16/4/2021	Task Completed				100%		
	KD3B: Material Delivery (LCP)	11/9/2020	17/4/2021	18/1/2021	30/4/2021	Task Completed				100%		
	KD3B: Retrofitting Concrete Structure of PST No. 4	N/A	2/4/2021	N/A	22/4/2021	Task Completed				100%		
	KD3B: Installation of E&M Equipment at PST No. 4	27/2/2021	5/4/2021	10/5/2021	17/5/2021	Task Completed						
	KD3B: Testing and Comissioning for PST No. 4	11/5/2021	19/4/2021	9/6/2021	26/7/2021	Task Completed						Wet test for PST 4 completed on 26 July 2021.
	Flow Diversion from PST No.6 to Temporary Filtrate Equalization Tank	N/A	19/5/2021	N/A	20/5/2021	Task Completed				100%		Filtrate feeding to TFES was resumed on 19/5/2021 with fine-tuned control.
	Removal of Accumulated Sludge Inside PST No. 6	N/A	19/5/2021	N/A	30/5/2021	Task Completed				100%		NCE-0229, this includes removal of floating scum/ sludge and clearance of blockage of drain pipe
	KD3B: Retrofitting Concrete Structure of PST No. 6	N/A	28/5/2021	N/A	24/6/2021	Task Completed				100%		
	KD3B: Mechanical Installation of E&M Equipment at PST No. 6	27/2/2021	31/5/2021	10/5/2021	21/7/2021	Task Completed				100%		This includes PST Influent feed pipe, center bearing & slip ring assembly, motor & gearbox assembly, rotating bridge sludge & scum scraper assembly, circular baffle diffuser box, v-notched weir plate, scum baffle plate, scum collection box and FRP cover.
	KD3B: Electrical Installation of E&M Equipment at PST No. 6	27/2/2021	9/6/2021	10/5/2021	21/7/2021	Task Completed				100%		This includes installation of LCP, cable laying & terminations.

Updated on:												20-Jun-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD3B: Testing and Comissioning for PST No. 6	11/5/2021	22/6/2021	9/6/2021	20/8/2021	Task Completed				100%		Wet test (1st) completed on 20 Aug 2021 and wet test (2nd) completed on 3 Sep 2021.
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	KD3B: System Commissioning for PST No. 4 & 6	N/A	22/6/2021	N/A	3/9/2021	Task Completed				100%		Wet test (2nd) for PST#6 completed on 3 Sep 2021 and pre-handover inspection arranged on 30 Aug 2021. Defect list (final) received on 17 Sep 2021 and defect rectification was completed. Site training/ demonstration shall be conducted by end Feb and PMI modification work shall be completed by end March.
	KD3B: 9 June 2021											
Section 1 of Works (outstanding works list)												
6B.2.12 Provision of New Replacement Filter Plates	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	21/4/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 21 April 2020
	Acceptance of submission of onsite survey plan	1/3/2020	25/3/2020	30/3/2020	12/5/2020	Task Completed				100%	-	Survey plan acceptance received on 12 May 2020. Onsite discussion with ST1 was
	Submission of onsite survey report	21/5/2020	21/5/2020	29/5/2020	29/5/2020	Task Completed				100%		
	Acceptance of onsite survey report	30/5/2020	30/5/2020	15/6/2020	15/6/2020	Task Completed				-		
	Preparation of procurement package (C11)	22/6/2020	22/6/2020	6/7/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C11)	15/7/2020	15/7/2020	22/7/2020	24/7/2020	Task Completed				100%		
	Tender Award (C11)	23/7/2020	25/7/2020	29/7/2020	31/7/2020	Task Completed				100%		Revised survey report (second draft) was sent to AECOM on 21 Oct 2020. Technical
	Material Submission	21/8/2020	21/8/2020	28/8/2020	7/12/2020	Task Completed				100%		Material submission (Rev.1) resubmitted on 7 Dec 2020. AECOM accepted subject to comments on 24 Dec 2020. Material submission (Rev. 2) resubmitted on 12 Jan 2021. AECOM accepted subject to comment on 22 Jan 2021.
6B.2.12 Provision of New Replacement Filter Plates for Existing Membrane Filter Presses at Existing Sludge Press House	Material Delivery	1/12/2020	1/12/2020	8/8/2021	8/8/2021	Task Completed				-		"Filter Press Plates and Cloths" were handed over to DSD.
6B.2.12 Provision of Membrane Filter Press System at Existing Sludge Press House	Submission of onsite survey plan for acceptance	1/3/2020	25/3/2020	30/3/2020	Task to be deleted	Task to be deleted				-	-	PPMI No.5 was issued by PM on 24 April 2020. Bestwise is requested to submit quotation on delete the provision of one (1) no. of membrane filter press system in pursuant to Particular Specification Clause 6B.2.12.
6B.2.16 Temporary Filtrate Equalisation System (Sub-programme was provided by Bestwise)	Submission of onsite survey plan on E&M aspects for acceptance	1/3/2020	1/4/2020	30/3/2020	7/5/2020	Task Completed				100%	-	Bestwise resubmitted onsite survey plan on 7 May 2020
	Acceptance of submission of onsite survey plan	1/3/2020	1/4/2020	30/3/2020	23/5/2020	Task Completed				100%	-	AECOM accepted the onsite survey plan on 23 May 2020
6B.2.16 Temporary Filtrate Equalisation System (Sub-programme was provided by Bestwise)	Submission and Acceptance of ELS Design for Lifting Well	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	9/2/2021	Task Completed				100%	Bestwise	- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. Bestwise submitted Rev.0 on 21 Oct 2020 and resubmitted Rev.2 on 23 Jan 2021. - AECOM provide consent for the ELS temporary works on 9 Feb 2021. AECOM accepted on 9 Feb 2021.
	Submission and Acceptance of Design for Filtrate Lifting Well Construction	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. AECOM commented on 21 Dec 2020. Bestwise submitted Rev.0 on 2 Nov 2020 and Rev.1 on 8 Jan 2021.
	Submission and Acceptance of Design of FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020* *	15/1/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. - Bestwise submitted Rev.0 on 08 Jan 2020.
	Submission and Acceptance of Design of footing for FRP Filtrate Equalization Tank	15/06/2020 -> 07/09/2020**	2/9/2020	30/07/2020 -> 22/10/2020* *	19/2/2021	Task Completed				100%		** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Re-design work was proceeded and the planned start date was revised to 17 Aug 2020. - Design of Footing was submitted on 8 Feb 2021.
	Submission and Acceptance of Design of Formwork & Flasework Design for Construction of Lifting Well	15/06/2020 -> 17/08/2020*	2/9/2020	30/07/2020 -> 30/11/2020*	15/1/2021	Task Completed				100%		- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Bestwise submitted Rev.0 on 12 Jan 2020.

Updated on:											20-Jun-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission and Acceptance of Contractor's Design for Temporary Filtrate Equalisation System (E&M Works) (CDS010-2)	01/06/2020 -> 7/9/2020**	5/7/2020	30/07/2020 - > 30/11/2020*	30/7/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - Bestwise submitted (CDS 0010 Rev.0) on 6 August 2020, AECOM commented on 27 Aug 2020. Bestwise to resubmit (Separate submissions P&M0049, DWG0038, CDS0026, P&M0008, P&M0004, CDS0037, CDS0027, DWG0040 were submitted) - Control philosophy (CDS0027 Rev.0) was submitted on 22 Dec 2020. AECOM commented on 13 Jan 2021, Bestwise resubmitted on 27 May 2021 formally, AECOM accepted with comments on 4 Jun 2021.
	Drawing Submission	01/06/2020 -> 17/08/2020*	29/9/2020	30/07/2020 - > 30/11/2020*	5/3/2021	Task Completed				100%	Bestwise	- * = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. - Bestwise submitted (rev.0) on 29 Oct 2020 and resubmitted (rev.2) on 25 Jan 2021, AECOM accepted on 5 Feb 2021.
	Material Submission	01/06/2020 -> 17/08/2020*	29/11/2020	30/07/2020 - > 30/11/2020*	25/2/2021	Task Completed				100%	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 07 Sep 2020. - P&M submission of temporary filtrate equalization tank (P&M 0030 Rev.1) on 29 Jan 2021. AECOM accepted subject to comments on 25 Feb 2021.
Subletting Package for Temporary Filtrate Equalization System	Tender invitation (C11) (EQT-002 & EQT-004)	17/4/2020	17/4/2020	7/5/2020	7/5/2020	Task Completed				100%		
	Tender award (C11) (EQT-002 & EQT-004)	14/4/2020	24/4/2020	13/5/2020	13/5/2020	Task Completed				100%	Bestwise	Bestwise submitted tender report on 29 April 2020 for filtrate pumps, AECOM commented on 29 May 2020, Bestwise to resubmit. Bestwise submitted tender report of instrument on 13 May 2020, AECOM noted on 26 May
	Acceptance of tender award (C11) (EQT-002 & EQT-	25/4/2020	25/4/2020	21/5/2020	21/5/2020	Task Completed				100%	Bestwise	
	Material Submission	20/07/2020 ->	16/10/2020	20/08/2020 -	5/2/2021	Task Completed				-	Bestwise	** = Change of material of temporary filtrate equalization tank from concrete to FRP on 18
	Submission of subletting package for acceptance (C9)	1/3/2020	13/7/2020	14/3/2020	13/7/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	15/3/2020	14/7/2020	28/3/2020	14/7/2020	Task Completed				100%		
	Tender invitation (C9)	29/3/2020	15/7/2020	11/4/2020	22/7/2020	Task Completed				100%		
	Tender award (C9)	12/4/2020	23/7/2020	25/4/2020	13/8/2020	Task Completed				100%		
	Acceptance of tender award for civil construction work (C9)	26/04/2020	14/8/2020	5/5/2020	2/9/2020	Task Completed				100%		
	Preparation of subletting package for mech work (C9)	01/08/2020 -> 01/12/2020*	25/1/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package would was submitted on 25 Feb 2021 and AECOM accepted on 1 Mar
	Tender invitation for mech work (C9)	08/08/20 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
	Tender Award for mech work (C9)	15/08/2020 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021
	Acceptance of tender award for mech work (C9)	22/08/2020 ->	15/3/2021	29/08/2020 -	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.
	Preparation of subletting package for elect work (C9)	01/08/2020 -> 01/12/2020*	2/2/2021	08/08/20 -> 08/12/2020*	1/3/2021	Task Completed				100%		* = PMI014 - Revised Location for Construction of Temporary Filtrate Equalization System reveiced on 17 Aug 2020. Subletting package resubmitted on 26 Feb 2021 and AECOM accepted on 1 Mar 2021..
	Tender invitation for elect work (C9)	01/08/2020 ->	2/3/2021	15/08/2020 -	9/3/2021	Task Completed				100%		Tender invitation was conducted on 2 Mar 2021 and returned on 9 Mar 2021
Tender Award for elect work (C9)	08/08/20 ->	10/3/2021	22/08/2020 -	15/3/2021	Task Completed				100%		Tender report was submitted on 15 Mar 2021	
Acceptance of tender award for elect work (C9)	15/08/2020 -> 15/12/2020*	15/3/2021	29/08/2020 - > 29/12/2020*	19/3/2021	Task Completed				100%		Tender award on 19 Mar 2021.	
Construction of Temporary Filtrate Equalisation System	Construction of minor civil works under PMI 014	22/08/2020 -> 22/12/2020*	5/10/2020	15/10/2020	31/3/2021	Task Completed				100%	Bestwise	Utilities survey report of lifting well and EQ tank were submitted on 23 Sept 2020 and 29 Sept 2020. AECOM commented lifting well on 29 Sept 2020.
	RC Structure Works of lifting well	7/11/2020	12/1/2021	30/12/2020	25/2/2021	Task Completed				100%		
	Construction of concrete plinth for filtrate EQ tank	23/1/2021	8/2/2021	1/2/2021	26/2/2021	Task Completed				100%		
	Offsite fabrication and delivery of filtrate EQ tank	31/10/2020	16/1/2021	2/2/2021	4/3/2021	Task Completed				100%		First batch of filtrate EQ tank panel was delivered on 4 Mar 2021.
	Onsite assembly of filtrate EQ tank	2/2/2021	1/3/2021	12/3/2021	16/4/2021	Task Completed				100%		
6B.2.16 Temporary Filtrate Equalisation System	Mechanical Installation	17/3/2021	30/3/2021	12/4/2021	14/5/2021	Task Completed				-		
	Electrical Installation	13/3/2021	29/3/2021	15/4/2021	10/12/2021	Task Completed				-		PLC programme for water spray system (stage 1) is on-going, motorized gate valve for stage 2 under PMI is being fabricated and the delivery lead time is by end November.
	Testing and Comissioning	15/4/2021	22/4/2021	1/5/2021	30/11/2022	Completed				-		Defect rectification for BCM comments was partially completed and Site Acceptance Test (72 hours) was completed.
6B.1.17 Overall plant treatment process review by the Treatment Process Specialist	Submission of Treatment Process Specialist's review report	1/6/2020	1/6/2020	30/6/2020	2/7/2020	Task Completed				-	Bestwise	Preliminary Draft submitted, meeting completed on 15 May 2020 with SRE and TPS. Initial process design evaluation was submitted on 20 May 2020. Design calculation submitted on
	Acceptance of submission for further design	14/6/2020	3/7/2020	30/6/2020	17/7/2020	Task Completed				-		

Updated on:												20-Jun-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
6B Overall plant process equipment sizing review	Submission of Contractor's Design Calculation for	1/6/2020	1/6/2020	30/6/2020	2/7/2020	Task Completed				-	Bestwise	Preliminary Draft submitted, meeting completed on 15 May 2020 with SRE and TPS. Initial
	Acceptance of submission for further detail design	14/6/2020	3/7/2020	30/6/2020	17/7/2020	Task Completed				-		
6B.2.1 Inlet Works	Submission of Contractor's Design for Inlet Works No. 1	6/9/2020	16/11/2020	14/5/2021	30/6/2024	99%				-	Bestwise	All finalized design calculations for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	7/9/2020	14/5/2021	30/6/2024	99%						P&M0022 - Inlet Pumps (status: B) P&M0003 - Coarse Screens & Fine Screens (status: B) P&M0085 - Grit Traps (status: B) P&M0084 - Screw Compactor (status: B) P&M0042 - Screw Conveyors for Coarse Screens and Fine Screens (status: B) All P&M for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	6/9/2020	14/5/2021	29/12/2020	Task Completed						PID (rev.B) submitted on 13 Nov 2020. AECOM accepted subject to comments on 29 Dec 2020.
	Submission of GA Drawing	6/9/2020	5/1/2021	14/5/2021	30/6/2024	99%						E&M GA submission DWG0082 resubmitted on 9 July 2021. AECOM commented on 19 Feb 2021. Bestwise reviewed GA in BIM with AECOM on 12 Jan 2022. Electrical GA DWG0095 resubmitted on 3 July 2021. AECOM commented on 21 Apr 2021. Bestwise reviewed GA in BIM with AECOM on 12 Jan 2022. All finalized drawings for Inlet Works no.1 shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 5, 12, 19/5/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	30/6/2024	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. All finalized drawings for Inlet Works no.1 shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%				-		
	Submission of detailed design for electrical installation for Inlet Works No. 1 (CDS021)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Inlet Works No. 1 (CDS025-1)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation BS for Inlet Works No. 1 (CDS034-1)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for Inlet Works No. 1 up to +8.0 mPD (CDS080-1)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Inlet Works No. 1 up to +8.0 mPD (First Draft))	15/7/2020	15/7/2020	15/8/2020	17/9/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 17 September 2020
	KD1A: Submission of civil requirement drawing for Inlet Works No. 1 up to +8.0 mPD (Final)	28/8/2020	18/9/2020	5/11/2020	5/11/2020	Task Completed	no.	3	3	100%	Bestwise	Bestwise resubmitted (rev.A) on 27 Oct 2020.
	KD1A: Submission of electrical schematic drawings for Inlet Works No. 1 (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for Inlet Works No. 1 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	2	2	100%	Bestwise	Bestwise submitted on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.2 Primary Sedimentation Tank No. 1-4	Submission of Contractor's Design for Primary Sedimentation Tanks No. 1-4	6/9/2020	28/12/2020	14/5/2021	30/6/2024	99%				-	Bestwise	PFD (rev.B) under DWG0004 submitted on 22 June 2021. Finalized design calculations for PST shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	26/11/2020	14/5/2021	30/6/2024	99%						P&M0058 - Lamella Plate Settler (status: B) P&M0097 - Scum Skimmer and Scum Collection Pipe (status: B) P&M0086 - Sludge Bottom Scraper (status: B) P&M0051 - Drain Pump (status: B) P&M0044 - Primary Sludge Pump (status: B) Finalized material submissions for PST shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	2/10/2020	14/5/2021	24/6/2021	Task Completed						PID under DWG0037 (rev.1) submitted on 24 June 2021 and is accepted by AECOM.

Updated on:												20-Jun-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of GA Drawing	6/9/2020	3/2/2021	14/5/2021	30/6/2024	99%						Mechanical GA was submitted on 19 Jun 2021. Electrical GA under DWG0103 (rev.1) was submitted on 6 Jul 2021 and is accepted by AECOM. Finalized drawings for PST shall be submitted by 30 Aug 2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	30/6/2024	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Finalized drawings for PST shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	2/4/2021	29/5/2021	30/6/2024	99%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for Primary Sedimentation Tanks (CDS025-2)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for Primary Sedimentation Tanks up to +8.0 mPD (CDS080-2)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Primary Sedimentation Tanks No. 1-4 up to +8.0 mPD	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	4	4	100%		1st part of drafted drawing (2 nos.) was submitted on 23 Sept 2020. Remaining drawings (2 nos.) were submitted on 30 Sept 2020.
	KD1A: Submission of civil requirement drawing for Primary Sedimentation Tanks No. 1-4 up to +8.0 mPD	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	4	4	100%	Bestwise	Bestwise resubmitted (Rev.A) on 27 Oct & 13 Nov 2020.
	KD1A: Submission of electrical schematic drawings for Primary Sedimentation Tanks No. 1-4 (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for Primary Sedimentation Tanks No. 1-4 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise submitted on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.3 Chemical Storage and Dosing System	Submission of Contractor's Design for Chemical Dosing System (CDS006)	6/9/2020	7/1/2021	14/5/2021	29/10/2021	Task Completed				-	Bestwise	Design calculation (rev.0) of CHS1 and TCHS submitted on 2 Sep 2020 and 28 Aug 2020, AECOM commented on 24 Sep and 6 Oct 2020, Bestwise submitted CDS0060 on 15 Jul 2021 and CDS0044 on 19 Jul 2021. Finalized design calculation for chemical systems was submitted on 29 Oct 2021.
	Submission of P&M Submission	6/9/2020	6/9/2020	14/5/2021	30/10/2021	Task Completed						Finalized material submissions for chemical system was submitted on 30 Oct 2021.
	Submission of P&ID Drawing	6/9/2020	11/12/2020	14/5/2021	29/6/2021	Task Completed						PID resubmitted under DWG0053 (rev.1) on 28 Jun 2021, DWG0057 (rev.1) on 29 Jun 2021 and DWG0058 (rev.1) on 29 Jun 2021.
	Submission of GA Drawing	6/9/2020	8/2/2021	14/5/2021	30/6/2024	99%						Electrical GA drawings for CS1 under DWG0096 submitted on 10 April 2021. AECOM accepted subject to comments on 17 Apr 2021. Mechanical GA drawings for CS1 submitted on 1 April 2021. AECOM commented on 24 April 2021. Bestwise resubmitted DWG0093 (rev.1) on 30 Jun 2021 and is accepted by AECOM. Mechanical GA for Temp CS submitted on 12 Jun 2021. All finalized drawings for chemical systems shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 17. 21. 28/4/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	30/6/2024	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. All finalized drawings for chemical system shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%				-		
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installations	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	16/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 15 September for CHS1 and 16 September 2020 for
	KD1A: Submission of civil requirement drawing for	7/9/2020	17/9/2020	5/11/2020	5/11/2020	Task Completed	no.	2	2	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for Chemical System No. 1 and No. 2 (Final)	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (First	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 15 September 2020

Updated on: 20-Jun-24												
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	KD1A: Submission of civil requirement drawing for Temporary Chemical System up to +8.0 mPD (Final)	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (Rev.A) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for Temporary Chemical System (First Draft)	15/7/2020	15/7/2020	15/8/2020	15/9/2020	Task Completed				-		1st draft of drawing to be submitted by 16 September 2020
	KD1A: Submission of electrical schematic drawings for KD1A: 6 November 2020	7/9/2020	16/9/2020	5/11/2020	5/11/2020	Task Completed						Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Bio Reactor 2A and 2B	Submission of Contractor's Design for Bioreactor 2A and 2B (CDS004)	6/9/2020	12/1/2021	14/5/2021	30/6/2024	99%				-	Bestwise	PFD (rev.1) submitted on 3 Nov 2020. AECOM accepted on 7 Dec 2020 subject to comment. MBR system process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM accepted on 17 Nov 2020 subject to comments. Electrical CDS submitted on 23 Jun 2021. Finalized design calculations shall be submitted by 20 Jan 2023.
	Submission of P&M Submission	6/9/2020	26/11/2020	14/5/2021	30/6/2024	99%						P&M0060 - Pre-treatment Fine Screen (status: B) P&M0053 - MLR Pump (status: B) P&M0118 - Scum Skimmer & Scum Pump (status: C) P&M0088 - Fine Bubble Air Diffuser (status: B) P&M0xxx - Wash Compactor (status: B) P&M0041 - Submersible Mixer (status: B) Finalized material submission shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	2/11/2020	14/5/2021	2/7/2021	Task Completed						PID (Rev.1) under DWG0042 resubmitted on 6 July 2021.
	Submission of GA Drawing	6/9/2020	17/2/2021	14/5/2021	30/6/2024	99%						Mechanical GA under DWG0132 submitted on 26 Jun 2021 and is accepted by AECOM. Electrical GA submitted on 23 Jun 2021. Finalized drawing shall be submitted by 30 June 2022. BIM GA review meeting is scheduled on 1, 8, 15/6/2022.
	Submission of Electrical Drawing	6/9/2020	15/1/2021	14/5/2021	30/6/2024	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%				-		Refer to outstanding list under "Certificate of completion no.1 - section 1 of the works".
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for BR 2A and 2B (CDS025-3)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for BR 2A and 2B up to +8.0 mPD (CDS080-3)	1/9/2020	1/9/2020	30/10/2020	30/10/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	2	2	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of civil requirement drawing for BR 2A and 2B up to +8.0 mPD (Final)	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	2	2	100%	Bestwise	AECOM commented on 23 Oct 2020, Bestwise resubmitted on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for BR 2A and 2B (First Draft)	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed				-		1st draft of drawing was sent to AECOM via email on 15 September 2020
	KD1A: Submission of electrical schematic drawings for KD1A: 6 November 2020	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						Notice of completion works was submitted on 17 Nov 2020
6B.2.4 Membrane Bioreactor (MBR) System - Membrane Filtration System No. 2 (MFB No. 2)	Submission of Contractor's Design for Membrane Filtration System (CDS005)	6/9/2020	11/1/2021	14/5/2021	30/6/2024	99%				-	Bestwise	PFD (rev.1) submitted on 3 Nov 2020. AECOM accepted on 10 Dec 2020 subject to comment. MBR system process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM accepted on 17 Nov 2020 subject to comments. Finalized design calculations shall be submitted by 30 Aug 2022.
	Submission of P&M Submission	6/9/2020	19/11/2020	14/5/2021	30/6/2024	99%						P&M0072 - Membrane Module (status: B) P&M0069 - Permeate Pump (status: B) P&M0047 - RAS Pump (status: B) P&M0050 - Drain Pump (status: B) P&M0074 - Air Scour Blower (status: C) P&M0073 - Aeration Blower (status: C) P&M0093 - Air Compressor (status: B) P&M0091 - Chemical Pump (status: B) P&M0xxx - Chemical Tank (to be submitted) Finalized material submission shall be submitted by 20 Jan 2023.
	Submission of P&ID Drawing	6/9/2020	30/10/2020	14/5/2021	2/7/2021	Task Completed						DWG0049 (Rev.1) was resubmitted on 2 Jul 2021.
	Submission of GA Drawing	31/3/2021	18/2/2021	14/5/2021	30/6/2024	99%						DWG0121 (rev.1) was resubmitted to AECOM on 17 Jul 2021 Finalized drawings shall be submitted by 30 June 2022. BIM GA review meeting is scheduled on 19, 26/5/2022 and 2/6/2022 (Lower part) BIM GA review meeting is scheduled on 16, 23, 30/6/2022 (Upper part)

Updated on:												20-Jun-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of Electrical Drawing	15/4/2021	15/1/2021	14/5/2021	30/6/2024	99%						Electrical SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to resubmit. Electrical GA under DWG0079 (rev.1) was resubmitted on 8 Jul 2021. Finalized drawings shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%				-		
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation BS for MFB (CDS034-4)	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for MFB up to	1/9/2020	1/9/2020	30/9/2020	30/9/2020	Task Completed						
	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	7	7	100%		1st draft of drawing submitted on 30 September
	KD1A: Submission of civil requirement drawing for MFB No. 2 up to +8.0 mPD (Final)	28/8/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed	no.	7	7	100%	Bestwise	Bestwise resubmitted (Rev.1) on 5 Nov 2020.
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed	no.	3	3	100%		1st draft of drawing submitted on 30 September 2020
	KD1A: Submission of electrical schematic drawings for MFB No. 2 (Final)	7/9/2020	1/10/2020	5/11/2020	20/10/2020	Task Completed	no.	3	3	100%	Bestwise	Bestwise submitted (Rev.1) on 20 Oct 2020
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
6B.2.6 Deodorisation System (EQT-001 - Deodorization Unit)	Tender invitation (C11)	17/4/2020	17/4/2020	24/4/2020	24/4/2020	Task Completed				100%		
6B.2.6 Deodorisation System (EQT-001 - Deodorization Unit)	Tender award (C11)	25/4/2020	25/4/2020	12/5/2020	12/5/2020	Task Completed				100%	Bestwise	Bestwise submitted tender report on 13 May 2020. AECOM commented on 23 July 2020, Bestwise to resubmit.
	Acceptance of tender award (C11)	13/5/2020	13/5/2020	21/5/2020	21/5/2020	Task Completed				100%		
	Submission of Contractor's Design for Deodorisation System , DOU No. 1 (CDS0019 & CDS0045)	6/9/2020	6/9/2020	14/5/2021	31/12/2021	Task Completed				-		Design Calculation (Rev.0) was submitted on 24 Nov 2020. AECOM commented on 6 Jan 2021, Bestwise to resubmit. Bestwise submitted CDS0045 on 3 June 2021. Finalized design was completed.
	Submission of P&ID Drawing of DOU No. 1	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 1	6/9/2020	6/9/2020	14/5/2021	30/6/2024	99%						GA submitted on 21 Jun 2021 Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 11, 18, 25/5/2022.
	Submission of Electrical Drawing of DOU No. 1	21/3/2021	30/1/2021	14/5/2021	30/6/2024	99%						Control wiring diagrams was resubmitted on 1 April 2021. AECOM commented on 23 Apr 2021. Bestwise to resubmit. Finalized drawings shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%				-		
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 1 up to +8.0 mPD (First Draft)	15/7/2020	15/7/2020	15/8/2020	28/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 1 up to +8.0 mPD (Final)	28/8/2020	29/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.
	Submission of Contractor's Design for Deodorisation System , DOU No. 2A (CDS0019 & CDS0048)	6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed				-		CDS0019: Design Calculation for Deodorisation System (status: B) CDS0048: Design Calculation on DOU2A - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 2A	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 2A	6/9/2020	3/8/2020	14/5/2021	30/6/2024	99%				-	Bestwise	Bestwise submitted (rev.1) on 30 Nov 2020. AECOM commented on 16 Dec 2020. Bestwise to resubmit. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 1, 8, 15/6/2022.
	Submission of Electrical Drawing of DOU No. 2A	21/3/2021	26/1/2021	14/5/2021	30/6/2024	99%						Bestwise submitted (rev.0) on 26 Jan 2021, AECOM commented on 4 Feb 2021. Bestwise to resubmit. Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%				-		
	Submission of Contractor's Design for Deodorisation System , DOU No. 3A (CDS0019 & CDS0055)	6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed				-		CDS0019: Design Calculation for Deodorisation System (status: B) CDS0055: Design Calculation on DOU3A - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 3A	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.

Updated on:												20-Jun-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Submission of GA Drawing of DOU No. 3A	6/9/2020	8/7/2020	14/5/2021	30/6/2024	99%				-	Bestwise	Bestwise submitted (rev.1) on 28 Oct 2020. AECOM commeneted on 16 Dec 2020. Bestwise resubmitted on 24 June 2021. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 27/4/2022, 4, 11/5/2022.
	Submission of Electrical Drawing of DOU No. 3A	21/3/2021	26/2/2021	14/5/2021	30/6/2024	99%						Bestwise submitted on 17 Apr 2021. AECOM commented on 27 Apr 2021. Bestwise to resubmit. GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%						
	KD1A: Submission of civil requirement drawing for Deodorisation System , DOU No. 3A up to +8.0 mPD	15/7/2020	15/7/2020	15/8/2020	28/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing was submitted on 28 September 2020
	KD1A: Submission of civil requirement drawing for Submission of Contractor's Design for Deodorisation System , DOU No. 3B (CDS0019 & CDS0049)	28/8/2020	29/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%	Bestwise	Bestwise resubmitted (rev.1) on 5 Nov 2020.
		6/9/2020	6/9/2020	14/5/2021	10/12/2021	Task Completed						CDS0019: Design Calculation for Deodorisation System (status: B) CDS0049: Design Calculation on DOU3B - air extraction fan (status: B)
	Submission of P&ID Drawing of DOU No. 3B	6/9/2020	5/8/2020	14/5/2021	2/7/2021	Task Completed				-	Bestwise	Bestwise resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13 Apr 2021.
	Submission of GA Drawing of DOU No. 3B	6/9/2020	6/9/2020	14/5/2021	30/6/2024	99%						Bestwise submitted DWG0081 (rev.0) on 5 Feb 2021. AECOM commeneted on 12 Mar 2021. Bestwise to resubmit. Finalized drawings shall be submitted by 30 June 2022 and BIM GA review meeting is scheduled on 16, 23, 30/6/2022.
	Submission of Electrical Drawing of DOU No. 3B	21/3/2021	22/2/2021	14/5/2021	30/6/2024	99%						GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 20 Jan 2023.
	Acceptance of submission	15/5/2021	15/5/2021	29/5/2021	30/6/2024	99%				-		
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for LV Switchboards for	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of detailed design for electrical installation	6/9/2020	6/9/2020	14/5/2021	14/5/2021	Task Completed						
	Submission of civil work requirements for MFB up to	1/9/2020	1/9/2020	30/9/2020	30/9/2020	Task Completed						
	Submission of civil requirement drawing for MFB up to	28/8/2020	28/8/2020	2/11/2020	2/11/2020	Task Completed						
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed				-		1st draft of drawing to be submitted by 30 September 2020
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed						
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020
04SC008 - Design, Supply and Installation of detailed design for lifting appliances	Acceptance of tender award (C9)	-	-	-	6/7/2020	Task Completed				100%	-	AECOM accepted tender report on 6 July 2020.
	Submission of detailed design for lifting appliances for Inlet Works No. 1 (CDS050-1)	6/9/2020	5/12/2020	6/9/2020	30/6/2024	99%						DWG 0055 (Rev.0) was submitted on 13 Mar 2021. AECOM commented on 20 Apr 2021. Bestwise to resubmit. Bestwise submitted P&M0025 on 15 June 2021. Finalized design shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for Primary Sedimentation Tanks (CDS050-2)	6/9/2020	5/12/2020	6/9/2020	30/6/2024	99%						DWG 0054 (Rev.0) was submitted on 18 Jan 2021. AECOM commented on 9 Mar 2021. Bestwise to resubmit. Finalized design shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for BR 2A and 2B (CDS050-3)	6/9/2020	5/12/2020	6/9/2020	30/6/2024	99%						DWG 0065 (Rev.0) was submitted on 18 Jan 2021. AECOM commented on 9 Mar 2021. Bestwise to resubmit. P&M-0026 (Rev.1) received status B. Finalized design calculation shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for MFB (CDS050-4)	6/9/2020	5/12/2020	6/9/2020	30/6/2024	99%						DWG 0066 (Rev.1) was submitted on 1 Mar 2021. AECOM commented on 5 Mar 2021. Bestwise to resubmit. P&M-0027 (Rev.1) received status B. Finalized design calculation shall be submitted by 20 Jan 2023.
	Submission of detailed design for lifting appliances for Temporary Filtration Tank (CDS050-5)	6/9/2020	5/12/2020	6/9/2020	21/5/2021	Task Completed						DWG 0051 (Rev.2) was resubmitted on 7 May 2021 and acceptance by AECOM subject to condition on 21 May 2021. Bestwise submitted P&M0021 on 21 June 2021.
Building Services System												
	Submission for MVAC system	N/A	10/12/2020	N/A	30/6/2024	99%						Design calculations and drawings for inlet works was submitted on 16 Dec 2020. AECOM commented on 15 Jan 2021 and 20 Jan 2021. Design calculations and drawings for PST was submitted on 30 Dec 2020. AECOM commented on 22 Jan 2021 and 26 Jan 2021. Design calculations and drawings for MFB2 was submitted on 29 Jan 2021. AECOM commented on 26 Mar 2021. Subletting package resubmitted by 18 Mar 2021. AECOM accepted on 19 Mar 2021. Finalized design shall be submitted by 20 Jan 2023.

Updated on:												20-Jun-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status	
		Contract Planned Commencem ent Date	Anticipated / Actual Commencem ent Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %			
	Submission for Fire Services System	N/A	15/3/2021	N/A	30/6/2024	99%						Subletting Package to be resubmitted by 31 Mar 2021. AECOM accepted on 9 Apr 2021. Drawings: Inlet Works: submitted on 8 June 2021. PST 1-4: submitted on 23 Jun 2021 BR2A &2B: submitted on 8 Jun 2021 MFB 2: submitted on 8 Jun 2021 Finalized design shall be submitted by 20 Jan 2023.	
	Submission for Plumbing and Drainage System	N/A	15/3/2021	N/A	30/6/2024	99%						Subletting Package resubmitted by 10 Mar 2021. AECOM accepted on 12 Mar 2021. Tender invitation was conducted on 15 Mar 2021 and closed on 26 Mar 2021. Finalized design shall be submitted by 20 Jan 2023.	
	Submission for Electrical Services System	N/A	10/12/2020	N/A	30/6/2024	99%						GA for lighting was submitted on 18 Dec 2020. AECOM commented on 6 Jan 2021. Bestwise to resubmit. GA for small power system was submitted in 8 Feb 2021. AECOM commented on 3 Mar 2021. Bestwise to resubmit. Finalized design shall be submitted by 20 Jan 2023.	
	Submission of ELV system	N/A	8/1/2021	N/A	30/6/2024	99%						GA for CCTV was resubmitted on 16 Mar 2021. AECOM commented on 30 Mar 2021. Bestwise resubmitted on 25 Jun 2021. Finalized design shall be submitted by 20 Jan 2023.	
	Submission for PV system	N/A	15/3/2021	N/A	30/6/2024	99%						Tender package was submitted to AECOM. Finalized design shall be submitted by 20 Jan 2023.	
SCADA System & PMS	Submission for SCADA system	N/A	11/2/2021	N/A	30/6/2024	99%						Revised SCADA structure was provided via email on 9 Apr 2021 and tender package is under preparation. Finalized design shall be submitted by 20 Jan 2023.	
	Submission for PMS system	N/A	8/3/2021	N/A	30/6/2024	99%						Tender package to be resubmitted on 29 June 2021. Finalized design shall be submitted by 20 Jan 2023.	
	Submission for CMMS & IDMS system	N/A	1/6/2021	N/A	30/6/2024	99%						Finalized design shall be submitted by 20 Jan 2023.	
Section 2 of Works													
Street Fire Hydrant Pump Room	KD1A: Submission of civil requirement drawing for	15/7/2020	15/7/2020	15/8/2020	17/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 17 September 2020	
	KD1A: Submission of civil requirement drawing for	28/8/2020	18/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (rev.1) on 5 Nov 2020.	
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed						1st draft of drawing to be submitted by 30 September 2020	
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed							
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020	
FS & Sprinkler Pump Room	KD1A: Submission of civil requirement drawing for FS	15/7/2020	15/7/2020	15/8/2020	17/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 17 September 2020	
	KD1A: Submission of civil requirement drawing for FS	28/8/2020	18/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (rev.1) on 5 Nov 2020.	
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020	Task Completed							
	KD1A: Submission of electrical schematic drawings for	7/9/2020	1/10/2020	5/11/2020	5/11/2020	Task Completed							
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020	
	Fire Services Installation Work	1/3/2023	16/3/2023	16/7/2023	31/7/2023								
Emergency Generator House	KD1A: Submission of civil requirement drawing for Emergency Generator House up to +8.0 mPD (First	15/7/2020	15/7/2020	15/8/2020	18/9/2020	Task Completed	no.	1	1	100%		1st draft of drawing submitted on 18 September 2020	
	KD1A: Submission of civil requirement drawing for Emergency Generator House up to +8.0 mPD (Final)	28/8/2020	19/9/2020	2/11/2020	5/11/2020	Task Completed	no.	1	1	100%		Bestwise resubmitted (rev.1) on 5 Nov 2020.	
	KD1A: Submission of electrical schematic drawings for	15/7/2020	15/7/2020	15/8/2020	30/9/2020								
	KD1A: Submission of electrical schematic drawings for Street Fire Hydrant Pump Room (Final)	7/9/2020	1/10/2020	5/11/2020	5/11/2020								
	KD1A: 6 November 2020											Notice of completion works was submitted on 17 Nov 2020	
DOU3A	Material Delivery	7/3/2023	7/3/2023	7/5/2023									
	Mechanical Installation for DOU3A	8/3/2023		6/7/2023						35%			
	Testing & Commissioning												

3 Month Rolling Programme (From 01/05/2024 to 01/08/2024)

Updated on: 20-Jun-24

Updated on:											20-Jun-24	
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
Subcontracting												
	Submission of subletting package for acceptance	1/1/2020	6/3/2020	30/3/2020	6/3/2020	Task Completed				100%	-	
	Acceptance of subletting package	1/3/2020	21/3/2020	30/3/2020	21/3/2020	Task Completed				100%	-	
	Tender invitation	1/3/2020	24/3/2020	1/4/2020	30/3/2020	Task Completed				100%	-	
	Tender award	22/3/2020		14/4/2020	6/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 6 April 2020
	Acceptance of tender award	-	-	-	15/4/2020	Task Completed				100%		AECOM accepted tender report on 15 April 2020
Construction of Contractor's site accommodation in WA1-C	Design of MiC	15/4/2020	16/4/2020	1/6/2020	15/8/2020	Task Completed				100%		Revised layout drawings received from AluHouse on 28 May 2020. Comments provided to AluHouse on 2 June 2020.
	Submission of detailed design including foundation works, septic tank	1/7/2020	1/7/2020	14/7/2020	4/9/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on 27 July 2020. Bestwise to resubmit.
	Site Clearance Work	15/7/2020	20/7/2020	31/7/2020	15/8/2020	Task Completed				100%		Tender invitation commenced on 29 May 2020 and tenders received on 4 June 2020. Tender
	Off-site fabrication of Septic tank	15/7/2020	20/7/2020	31/7/2020	31/7/2020	Task Completed				100%		Site clearance work started on 20 July 2020
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		CV of ICE was submitted on 4 August 2020 and accepted on 25 August 2020
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	8/10/2020	Task Completed				100%		Design calculation of foundation work was submitted on 7 July 2020, comment received on
	Acceptance of method statement and design calculation	8/8/2020	9/10/2020	14/8/2020	16/10/2020	Task Completed				100%		Method Statement and Design Calculation was submitted on 8 Oct 2020.
	Submission of method statement with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Submission of design calculation with ICE certificate	1/8/2020	1/8/2020	7/8/2020	23/11/2020	Task Completed				100%		
	Acceptance of method statement and design calculation	8/8/2020	24/11/2020	14/8/2020	27/11/2020	Task Completed				100%		
	Excavation work	17/8/2020	21/10/2020	18/8/2020	21/10/2020	Task Completed				100%		
	Installation of septic tank	19/8/2020	21/10/2020	20/8/2020	22/10/2020	Task Completed				100%		
	Construction of RC foundation	21/8/2020	23/10/2020	31/8/2020	12/11/2020	Task Completed				100%		
	Off-site fabrication and delivery of MiC Office	1/6/2020	30/9/2020	31/7/2020	4/12/2020	Task Completed				100%		
	On-site installation of MiC Office	1/8/2020	4/12/2020	30/8/2020	5/1/2021	Task Completed				100%		
	Installation of car park shelter	4/1/2021	7/1/2021	11/1/2021	9/1/2021	Task Completed				100%		Subject to the completion of car park shelter of PM office and JEC office.
04SC003 - Building Information Modeling (BIM)	Submission of subletting package for acceptance (C9)	1/3/2020	25/3/2020	14/3/2020	25/3/2020	Task Completed				100%	-	
	Acceptance of subletting package (C9)	14/3/2020	2/4/2020	30/3/2020	2/4/2020	Task Completed				100%	-	
	Tender invitation (C9)	1/4/2020	1/4/2020	8/4/2020	9/4/2020	Task Completed				100%	-	
	Tender award (C9)	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Submission of subletting package for acceptance	14/3/2020	16/3/2020	30/3/2020	20/4/2020	Task Completed				100%	-	Bestwise resubmitted on 20 April 2020
	Acceptance of subletting package	28/3/2020	4/5/2020	13/4/2020	13/5/2020	Task Completed				100%	-	AECOM accepted subletting package on 13 May 2020
	Tender invitation	11/4/2020	19/6/2020	27/4/2020	26/6/2020	Task Completed				-		Invitation to tender was commenced on 19 June 2020 and tender returned on 26 June 2020
	Tender award	25/4/2020	27/6/2020	11/5/2020	4/7/2020	Task Completed				-		Bestwise submitted tender report on 30 June 2020
	Acceptance of tender award	-	-	-	18/7/2020					-		
04SC007 - Independent Beam Plus Consultant	Submission of subletting package for acceptance	1/3/2020	30/3/2020	14/3/2020	30/3/2020	Task Completed				100%	-	
	Acceptance of subletting package	14/3/2020	3/4/2020	30/3/2020	3/4/2020	Task Completed				100%	-	
	Tender invitation	30/3/2020	30/3/2020	9/4/2020	9/4/2020	Task Completed				100%	-	
	Tender award	-	-	-	15/4/2020	Task Completed				100%	-	Bestwise submitted tender report on 15 April 2020
	Acceptance of tender award	-	-	-	17/4/2020	Task Completed				100%	-	AECOM accepted tender report on 17 April 2020
	Introduction meeting with IBPC, Cinotech	-	-	-	28/4/2020	Task Completed				100%	-	Meeting completed on 28 April 2020 followed by planning work progress
04SC008 - Design, Supply and Installation of detailed	Submission of subletting package for acceptance (C9)	1/4/2020	17/3/2020	14/4/2020	17/3/2020	Task Completed				100%	-	Bestwise submitted subletting package on 3 April 2020
	Acceptance of subletting package (C9)	14/4/2020	17/4/2020	30/4/2020	28/4/2020	Task Completed				100%	-	AECOM accepted subletting package on 28 April 2020
	Tender invitation (C9)	30/4/2020	6/5/2020	14/5/2020	28/5/2020	Task Completed				100%	-	Invitation to tender was commenced on 6 May 2020 and tender returned on 28 May 2020
	Tender award (C9)	14/5/2020	29/5/2020	30/5/2020	9/6/2020	Task Completed				100%	-	Bestwise submitted tender report on 9 June 2020.
Temporary Primary Sludge Thickener and its	Submission of subletting package (C9) for acceptance	15/05/2020 ->	14/8/2020	15/05/2020 -	27/8/2020	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020.
	Acceptance of subletting package (C9) (Mech)	30/05/2020 -> 30/7/2020*	15/8/2020	15/06/2020-> 15/8/2020*	16/9/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Tender invitation (C9) (Mech)	15/06/2020-> 15/8/2020*	9/9/2020	22/06/2020-> 22/8/2020*	14/10/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender invitation for FRP Tank was conducted on 9 Sep 2020, tender returned on 16 Sep 2020. - Tender invitation for mechanical installation was conducted on 29 Sept 2020, tender returned on 14 Oct 2020,

Updated on: 20-Jun-24												
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Tender award (C9) (Mech)	22/06/2020->22/8/2020*	17/9/2020	29/06/2020->29/8/2020*	22/10/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender report for FRP Tank was submitted on 24 Sep 2020 and accepted on 9 Oct 2020. - Tender report for mechanical installation submitted on 22 Oct 2020 and accepted on 16 Nov 2020.
	Acceptance of tender award (C9) (Mech)	-	-	-	16/11/2020	Task Completed				100%		
	Submission of subletting package (C9) for acceptance (Elect)	15/05/2020 -> 15/7/2020*	9/12/2020	15/05/2020 -> 30/11/2020*	28/1/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Bestwise resubmitted subcontracting package of electrical installation on 28 Jan 2021
	Acceptance of subletting package (C9) (Elect)	30/05/2020 -> 30/7/2020*	29/1/2021	15/06/2020->15/8/2020*	1/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Tender invitation (C9) (Elect)	15/06/2020->15/8/2020*	1/2/2021	22/06/2020->22/8/2020*	11/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender invitation commenced on 1 Feb 2021 and returned on 11 Feb 2021
	Tender award (C9) (Elect)	22/06/2020->22/8/2020*	11/2/2021	29/06/2020->29/8/2020*	23/2/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Tender report target submitted on 23 Feb 2021 and accepted on 24 Feb 2021
	Acceptance of tender award (C9) (Elect)	-	-	-	26/2/2021	Task Completed				100%		
	Tender invitation (C11)	30/04/2020->15/07/2020*	30/4/2020	30/06/2020->15/09/2020*	18/11/2020	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. -Tender invitation of Primary Sludge Thickener commenced on 22 April 2020 and tender was received on 29 April 2020. Tender queries was requested on 5 May 2020 and received on 7 May 2020. Tender report was commented by PM and resubmitted on 22 May 2020. Accepted by AECOM on 12 Jun 2020. - Tender Invitation of process pumps for the thickening system was commenced on 5 Jun 2020 and tenders were received on 10 June 2020. Tender report submitted to PM on 2 July 2020. - Tender Invitation of activated carbon filter was commenced on 22 Oct 2020 and to be returned on 2 Nov 2020. Tender report submitted on 5 Nov 2020 and accepted on 16 Nov 2020 - Tender Invitation of FRP platform was commenced on 13 Nov 2020 and to be returned on 20 Nov 2020. Tender report submitted on 30 Nov 2020 and accepted on 11 Jan 2020 - Tender Invitation of instrument was commenced on 18 Nov 2020 and to be returned on 25 Nov 2020. Tender report submitted on 30 Nov 2020 - Based on the control philosophy agreed on 23 Dec 2020, motorized and solenoid valves were calculated
	Tender award (C11)	15/05/2020->29/07/2020*	30/5/2020	15/07/2020->	30/11/2020	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020.
	Acceptance of tender award (C11)	-	-	-	18/9/2020					-		
	Design Submission	03/07/2020 -> 15/07/2020*	5/8/2020	21/09/2020->02/10/2020*	10/5/2021	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. -Design submission of Process Pumps (Rev.3) resubmitted on14 Apr 2021, AECOM accepted with comments on 7 May 2021. -Design submission of electrical calculation (rev.2) was resubmitted on 29 Apr 2021. AECOM accepted with comments on 10 May 2021. -Control Philosophy (Rev.2) resubmitted on 5 Mar 2021. AECOM accepted subject to comments on 26 Mar 2021.
	Plant and Material Submission	21/07/2020 -> 30/07/2020*	21/7/2020	31/08/2020 -> 31/10/2020*	30/6/2021	Task Completed					Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Plant and Material submission of primary sludge thickener was resubmitted on 1 Sep 2020 (Rev. 3) and AECOM accepted on 8 Sep 2020. - Plant and Material submission P&M0002 (Rev.2) of process pumps was submitted on 5 August 2020 and AECOM commented on 26 Aug 2020, Bestwise to re-submitted to AECOM. - Plant and Material submission (Rev.0) for valves was submitted on 16 Nov 2020. AECOM accepted on 14 Dec 2020 subject to comments - Plant and Material submission (Rev.1) for DI pipes and fittings was resubmitted on 3 Dec 2020. AECOM accepted on 14 Dec 2020 - Plant and Material submission (Rev.0) for primary sludge equalization tank was submitted on 5 Feb 2021. AECOM accepted subject to comments on 25 Feb 2021. - Plant and Material submission (Rev.0) for activated carbon filter was submitted on 28 Jan 2021. AECOM accepted subject to comments on 5 Feb 2021. - Plant and Material submission (Rev. 1) for instruments was resubmitted on 13 Mar 2021. AECOM accepted subject to comments on 7 Apr 2021.

Updated on:												20-Jun-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Drawing Submission	03/07/2020 -> 30/07/2020*	3/8/2020	21/09/2020 -> 21/11/2020*	10/2/2021	Task Completed				100%	Bestwise	- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - PFD, P&ID, Schematic GA (Rev.3) resubmitted on 22 Jan 2021 according to the finalised control philosophy. AECOM accepted subject to comment on 29 Jan 2021. - Electrical drawing - Bestwise resubmitted electrical drawing (Rev.5) on 22 Mar 2021. AECOM accepted on 16 Apr 2021.
	Material Manufacturing	31/07/2020 -> 30/09/2020*	4/8/2020	21/10/2020 -> 21/12/2020*	20/4/2021	Task Completed				100%		- *=Corresponding PMI No.009 and CE No.009 were issued by AECOM on 14 July 2020. CE was implemented on 15 July 2020. - Manufacturing instruction of PS thickener was issued on 3 August 2020. - Manufacturing instruction of process pumps was issued on 24 September 2020 - Electrical sub-contractor is awarded and manufacturing LCP
	Material Delivery	05/09/2020 ->	4/11/2020	16/11/2020 -	21/6/2021	Task Completed						
	Mechanical Installation	01/10/2020 -> 01/12/2020*	2/2/2021	15/11/2020 -> 15/01/2021*	17/5/2021	Task Completed				-		
	Offsite Fabrication and Delivery of FRP Tank		16/1/2021		7/4/2021	Task Completed				100%		First batch to be delivered on 23 Mar 2021
	Onsite Installation of FRP Tank		7/4/2021		30/7/2021	Task Completed						Water filling to tank completed; Tank hydraulic test completed.
	Electrical Installation	01/10/2020 -> 01/12/2020*	19/3/2021	15/11/2020 -> 15/01/2021*	19/7/2021	Task Completed				-		Energize of all LCPs on 24 May 2021 and isolated prior to system commissioning.
Temporary Primary Sludge Thickener and its accessories (Sub-programme was provided by Bestwise)	Testing and Comissioning	15/11/2020 -> 15/01/2021*	8/5/2021	22/11/2020 -> 22/01/2021*	30/9/2022	Completed				-		Improvement works under PMI are on-going and defect rectification for BCM comments was partially completed. - Testing and Commissioning (3 x 24hrs) completed by End September.
Modification of Existing Emergency Generator Electrical Works	Submission of subletting package (C9) for acceptance	15/10/2020	15/10/2020	31/10/2020	11/12/2020	Task Completed				100%		
	Acceptance of subletting package (C9)	1/11/2020	5/11/2020	15/11/2020	2/1/2021	Task Completed				100%		
	Tender invitation (C9)	16/11/2020	26/1/2021	30/11/2020	5/2/2021	Task Completed				100%		Tender invitation commenced on 26 Jan 2021, and returned on 5 Feb 2021
	Tender award (C9)	30/11/2020	18/2/2021	7/12/2020	18/2/2021	Task Completed				100%		Tender report was submitted on 18 Feb 2021 and accepted on 26 Feb 2021
	Acceptance of tender award (C9)	8/12/2020	18/2/2021	15/12/2020	26/2/2021	Task Completed				100%		
	Design Submission	15/12/2020	15/3/2021	15/1/2021	23/4/2021	Task Completed				100%		DWG-0100 was submitted on 23 Apr 2021. AECOM accepted with comments on 30 Apr
	Transportation of existing dismantled genset no. 2 (Genset No.2) to subcontractor (Click Ltd.)’s workshop	9/3/2021	9/3/2021	9/3/2021	9/3/2021	Task Completed				100%		
	Drawing submission (Drawing of General Layout for Existing 600kVA Genset Container)	23/4/2021	23/4/2021	30/4/2021	30/4/2021	Task Completed				100%		
	Drawing submission (Cable route ,general arrangement, etc)	14/5/2021	28/5/2021	21/5/2021	5 July 2021	Task Completed				100%		
	Material submission P431 P&M-0087	21 May 2021	19 June 2021	28 May 2021	12 July 2021	Task Completed				100%		
	Fabrication of container at PRC	21 June 2021	21 June 2021	TBC	12/8/2021	Task Completed				100%		
	Container deliver to HK	TBC	12/8/2021	10/8/2021	12/8/2021	Task Completed				100%		
	Off site modification work at HK factory	TBC	16/8/2021	24/8/2021	24/8/2021	Task Completed				100%		
	FAT plan of modified Genset No.2 P431 MS-036	12/7/2021	12/7/2021	20/8/2021	20/8/2021	Task Completed				100%		
	FAT of Genset No.2 after modification works	25/8/2021	25/8/2021	25/8/2021	25/8/2021	Task Completed				100%		
	Installation Work of I-beam Support	26/8/2021	26/8/2021	26/8/2021	26/8/2021	Task Completed				100%		
	Transportation of Genset No. 2 to existing power house in SWHSTW and completion of the Genset No.2 installation on I-beam supporting frame	27/8/2021	27/8/2021	27/8/2021	27/8/2021	Task Completed				100%		
	Provision of one (1) can of 160L diesel and a diesel hand pump placed at diesel daily tank of Genset No.1 for standby top up (PPMI-012 item L) Location to be coordinated and advised by SWHSTW operator DSD/ST1	27/7/2021	27/7/2021	31/8/2021								Location to be further coordinated with DSD.
	Modification works of existing switchboard	1/9/2021	1/9/2021	8/9/2021	8/9/2021	Task Completed				100%		

Updated on:												20-Jun-24
Item	Major Activities & Submission in coming 3 months	Time					Progress (E&M contract)				Action	Remarks / Status
		Contract Planned Commencement Date	Anticipated / Actual Commencement Date	Contract Planned Finish Date	Anticipated / Actual Finish Date	% of time elapsed based on "updated date")	Unit	Total Quantity	Completed Quantity	Actual Progress %		
	Cables (including control cable and power cables) laying and installation of cable containment, busbar chamber	21/7/2021	30/7/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Supply of busbar chamber/ connection box	10/8/2021	10/8/2021	3/9/2021	3/9/2021	Task Completed				100%		
	Completion of all Genset cables and cable termination work to existing power house in SWHSTW after the completion of Genset No. 2 installation work	1/9/2021	1/9/2021	8/9/2021	8/9/2021	Task Completed				100%		
	Delivery of dummy load and self-test	9/9/2021	9/9/2021	14/9/2021	15/9/2021	Task Completed				100%		
	SAT and T&C (witness by AECOM and DSD/ST1) Please allow 1 week advance notice for coordination with DSD/ST1, e.g. genset signal start, etc.)	15/9/2021	15/9/2021	15/9/2021	16/9/2021	Task Completed				100%		
04SC009 - Design, Supply and Installation of HVSB	Submission of subletting package for acceptance	21/4/2020		1/5/2020		-						
	Acceptance of subletting package	21/5/2020		30/5/2020		-						
	Tender invitation	1/6/2020		14/6/2020		-						
	Tender award	1/7/2020		14/7/2020		-						
04SC010 - Design, Supply and Installation of LVSB	Submission of subletting package for acceptance	1/5/2020		14/5/2020		-						
	Acceptance of subletting package	1/6/2020		14/6/2020		-						
	Tender invitation	14/6/2020		30/6/2020		-						
	Tender award	1/7/2020		14/7/2020		-						
04SC011 - Design and Installation of Building	Submission of subletting package for acceptance	14/4/2020		30/4/2020		-						
	Acceptance of subletting package	14/5/2020		30/5/2020		-						
	Tender invitation	30/5/2020		14/6/2020		-						
	Tender award	21/6/2020		30/6/2020		-						
04SC012 - Facility Computerized Systems	Submission of subletting package for acceptance	14/5/2020		30/5/2020		-						
	Acceptance of subletting package	14/6/2020		30/6/2020		-						
	Tender invitation	1/7/2020		14/7/2020		-						
	Tender award	21/7/2020		14/8/2020		-						
Plant and Materials (Marking Scheme)												
PS Clause no. 6B.2.1 Inlet Pump	Submission of marking scheme for PM's acceptance (fourth draft)	1/5/2020	1/5/2020	1/9/2020	19/8/2020	Task Completed				100%		AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020.
	Submission of marking scheme for PM's acceptance	1/5/2020	1/5/2020	1/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020.
	Acceptance of marking scheme by the PM	15/5/2020	20/8/2020	15/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020
	Tender invitation	29/5/2020	9/9/2020	29/9/2020	18/9/2020	Task Completed				100%		Tender invitation was conducted on 9 Sept 2020 and returned on 18 Sept 2020.
PS Clause no. 6B.2.1 Inlet Pump	Tender award	5/6/2020	19/9/2020	5/10/2020	7/10/2020	Task Completed				100%		Technical Submission Evaluation Report was submitted on 5 Oct 2020, Tender report was submitted on 7 Oct 2020. AECOM noted on 8 Oct 2020.
	Acceptance of tender award	19/6/2020	17/10/2020	19/10/2020	15/11/2020	Task Completed				-		
PS Clause no. 6B.2.4 MBR Pre-treatment Screen	Submission of marking scheme for PM's acceptance (third draft)	1/5/2020	14/5/2020	1/9/2020	19/8/2020	Task Completed				100%		AECOM commented on 14 August 2020, Bestwise resubmitted on 19 Aug 2020
	Submission of marking scheme for PM's acceptance	1/5/2020	14/5/2020	1/9/2020	19/8/2020	Task Completed				100%		Bestwise resubmitted on 19 Aug 2020
	Acceptance of marking scheme by the PM	15/5/2020	20/8/2020	15/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020
	Tender invitation	29/5/2020	20/11/2020	29/9/2020	11/12/2020	Task Completed				100%		Tender invitation was conducted on 20 Nov 2020 and returned on 11 Dec 2020. Tender
	Tender award	5/6/2020	13/12/2020	5/10/2020	3/3/2021	Task Completed				100%		Technical Submission Evaluation Report was submitted on 12 Jan 2021. AECOM noted on 22 Jan 2021. Tender Report was submitted on 4 Feb 2021, AECOM commented on 19 Feb 2021, Bestwise submitted supplementary information on 26 Feb 2021. AECOM noted on 3 Mar
PS Clause no. 6B.2.4	Submission of marking scheme for PM's acceptance	1/5/2020	14/5/2020	1/9/2020	2/9/2020	Task Completed				100%		AECOM commented on 1 September 2020, Bestwise resubmitted on 2 Sep 2020
	Submission of marking scheme for PM's acceptance	1/5/2020	3/9/2020	1/9/2020	2/9/2020	Task Completed				100%		Bestwise resubmitted on 2 Sep 2020
PS Clause no. 6B.2.4 Air Diffusion System	Acceptance of marking scheme by the PM	15/5/2020	20/8/2020	15/9/2020	1/9/2020	Task Completed				100%		AECOM accepted on 1 Sep 2020, subject to conditions.
	Tender invitation	29/5/2020	17/2/2021	29/9/2020	12/3/2021	Task Completed				100%		Procurement package would follow the approved format (i.e. aeration blower) Tender invitation was conducted on 17 Feb 2021. Addendum No. 1 was issued on 18 Feb 2021. Tender return date was extended from 26 Feb 2021 to 12 Mar 2021. Tender returned on 12 Mar 2021

3 Month Rolling Programme (From 01/05/2024 to 01/08/2024)

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Appendix 2.1

Layout Plans of Construction Activities

April 2024



Lam Environmental Services Limited

Contract No. SPW 12/2021
Shek Wu Hui Effluent Polishing Plant – Main Work

Site Record Photos



Lam Environmental Services Limited

Contract No. SPW 12/2021
Shek Wu Hui Effluent Polishing Plant – Main Work

DC/2018/06

		
SD&THP	CHP	SDB

DC/2018/07

			
BR2	MFB	PST	Inlet



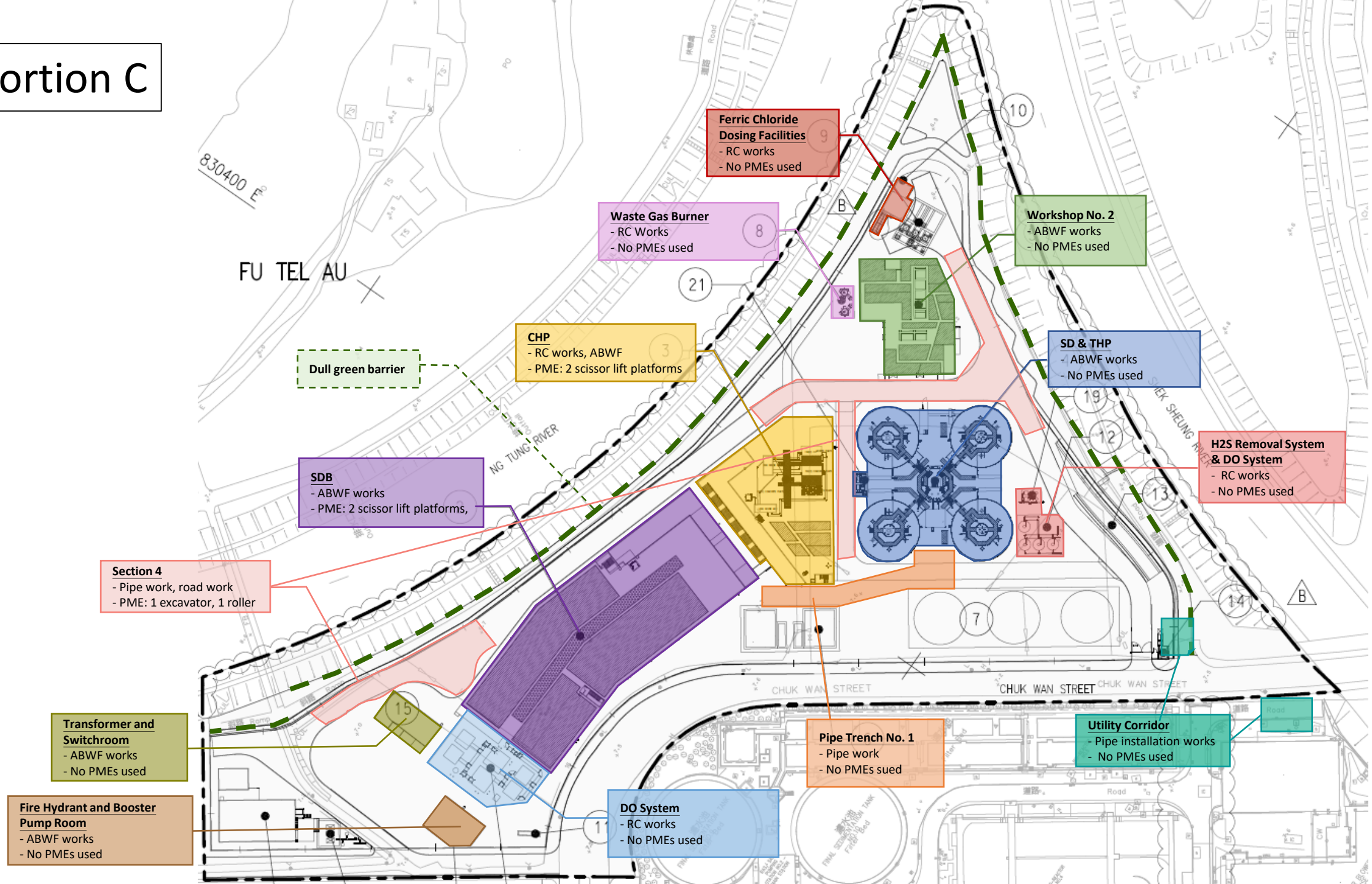
DE/2018/03

		
Sidestream	Bio Gas Tank	THP

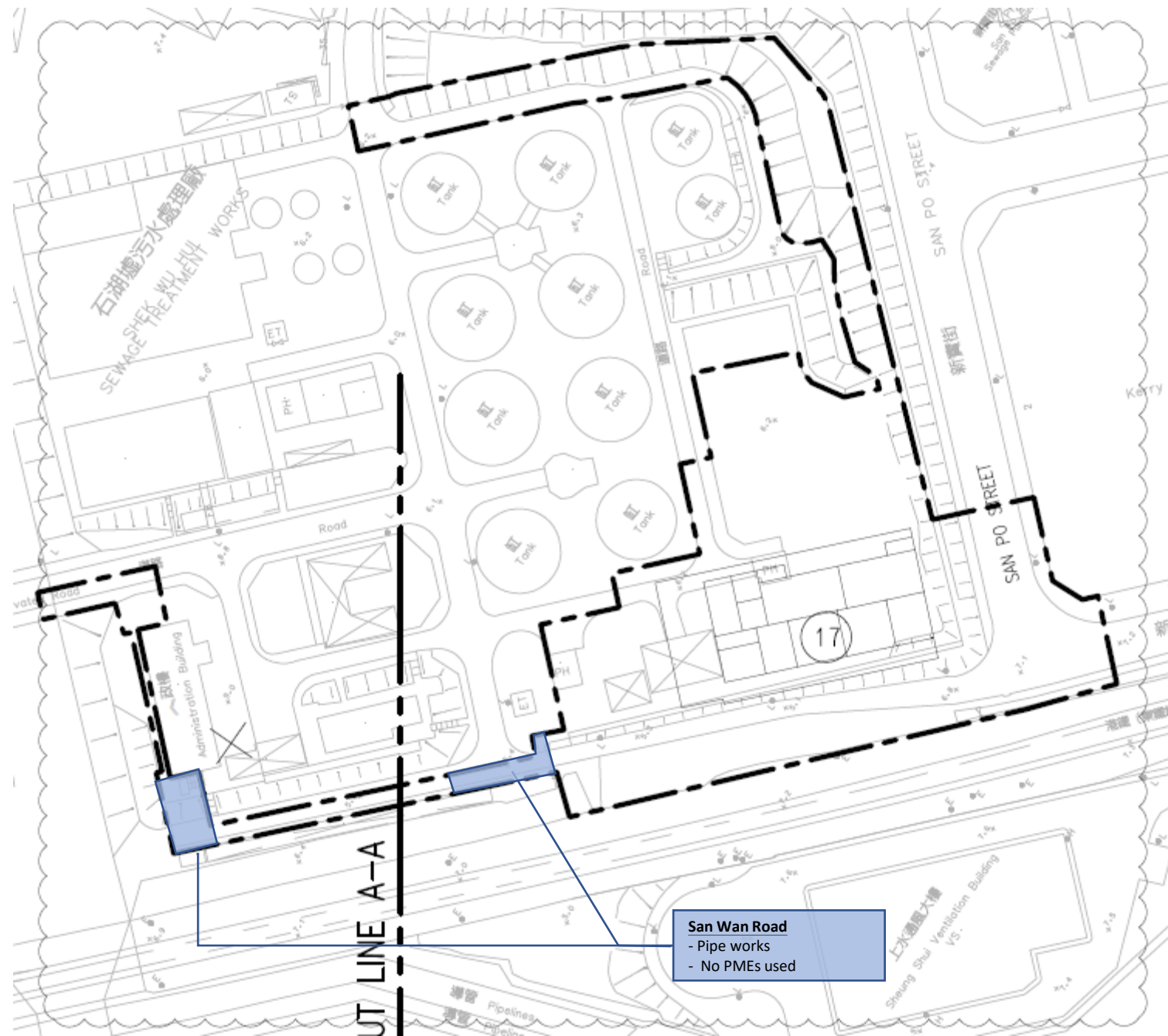
DE/2018/04

			
Compressor House	MFB	DOU	Temporary chemical system No. 1

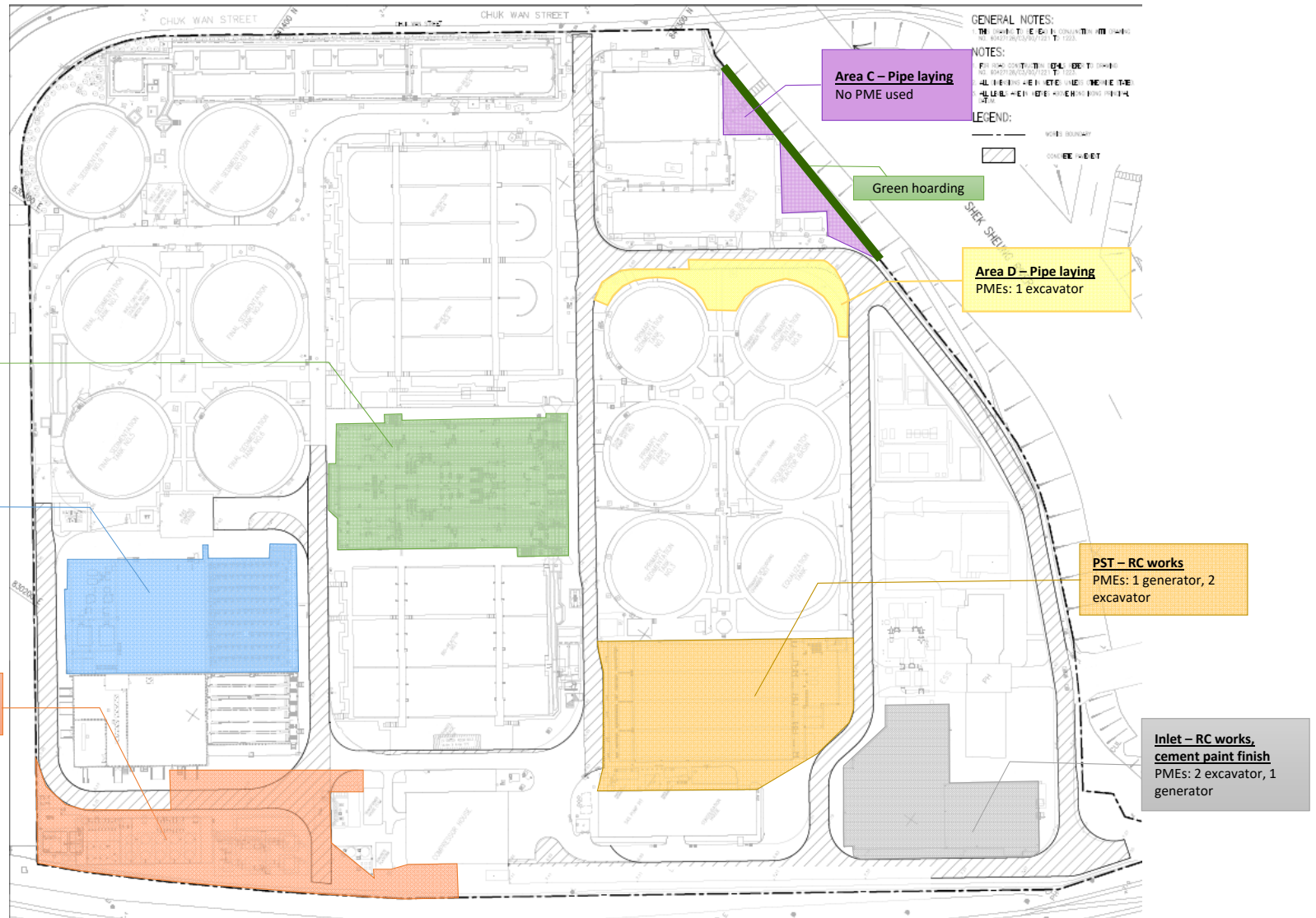
Portion C



Portion A



Portion B





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	SITE BOUNDARY
1	UV SITE NO. 1 & EFFLUENT PUMPING STATION NO. 1
2	SLUDGE DEWATERING BUILDING
3	COMBINED HEAT & POWER BUILDING
4	SLUDGE DIGESTER
5	WORKSHOP NO. 2
6	THERMAL HYDROLYSIS PRETREATMENT FACILITIES
7	BIOGAS HOLDING TANKS
8	WASTE GAS BURNER
9	SEWAGE PUMPING STATION
10	FERRIC CHLORIDE DOSING FACILITIES
11	WATER METER CABINET
12	H2S REMOVAL SYSTEM
13	UNDERPASS (PART)
14	GUARD HOUSE
15	TRANSFORMER AND SWITCHROOM
16	FIRE HYDRANT AND BOOSTER PUMP ROOM
18	DEODORIZATION SYSTEM NO. 11
19	DEODORIZATION SYSTEM NO. 12
20	PLANT SERVICES WATER SYSTEM
21	THP COOLERS PUMPING STATION
22	SIDESTREAM TREATMENT FACILITIES
23	SURPLUS ACTIVATED SLUDGE PUMPING STATION
24	EXISTING CONSOLIDATION HOUSE

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60427128/C2/00/1001

May 2024





Lam Environmental Services Limited

Contract No. SPW 12/2021
Shek Wu Hui Effluent Polishing Plant – Main Work



Site Record Photos

DC/2018/06




			
SD&THP	CHP	SDB	Utility Crridor

	
Utility Crridor	Ferric Chloride Dosing Facilities

DC/2018/07





			
BR2	MFB	PST	Inlet

DE/2018/03

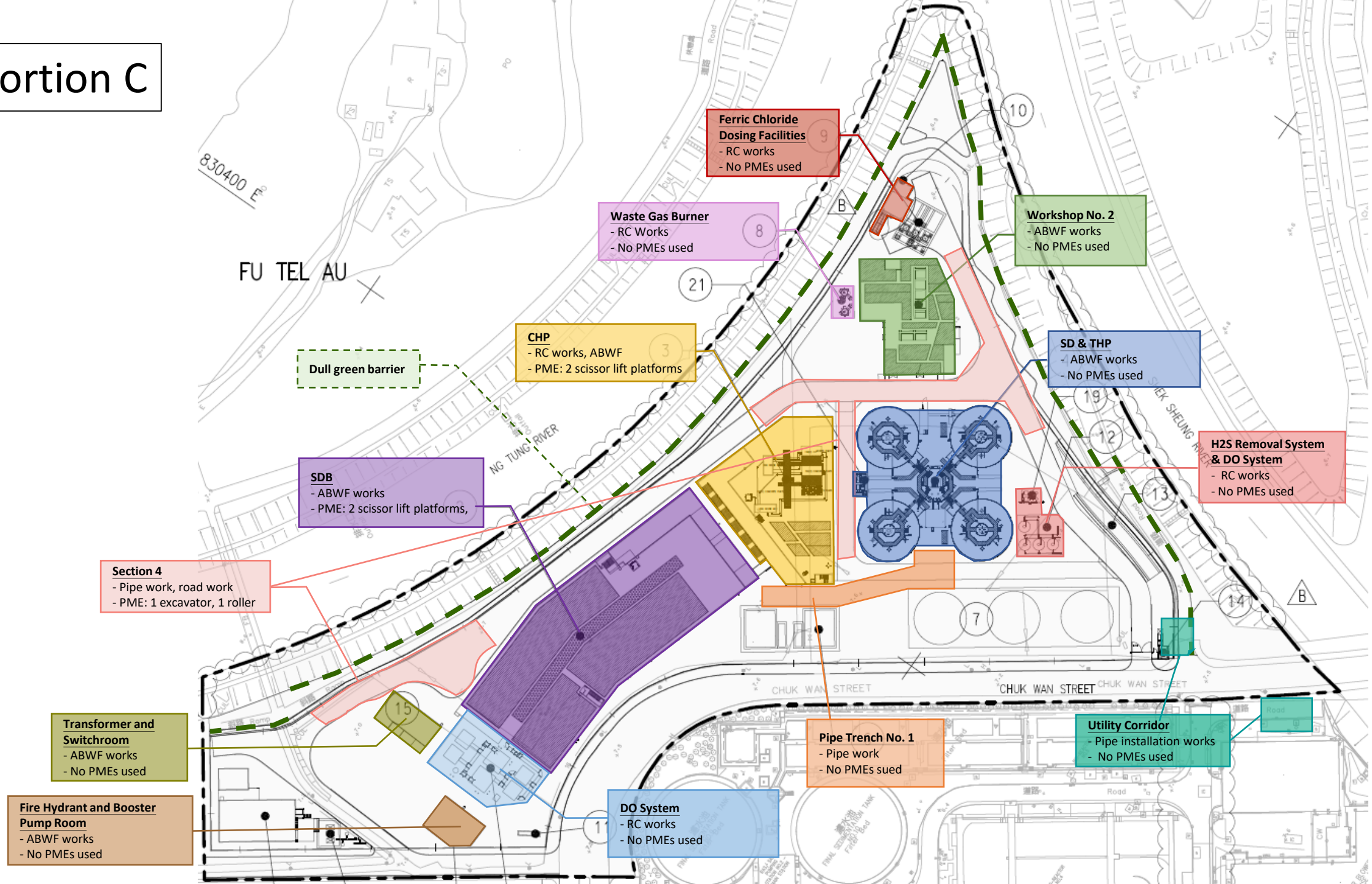
		
Sidestream	Bio Gas Tank	CHP



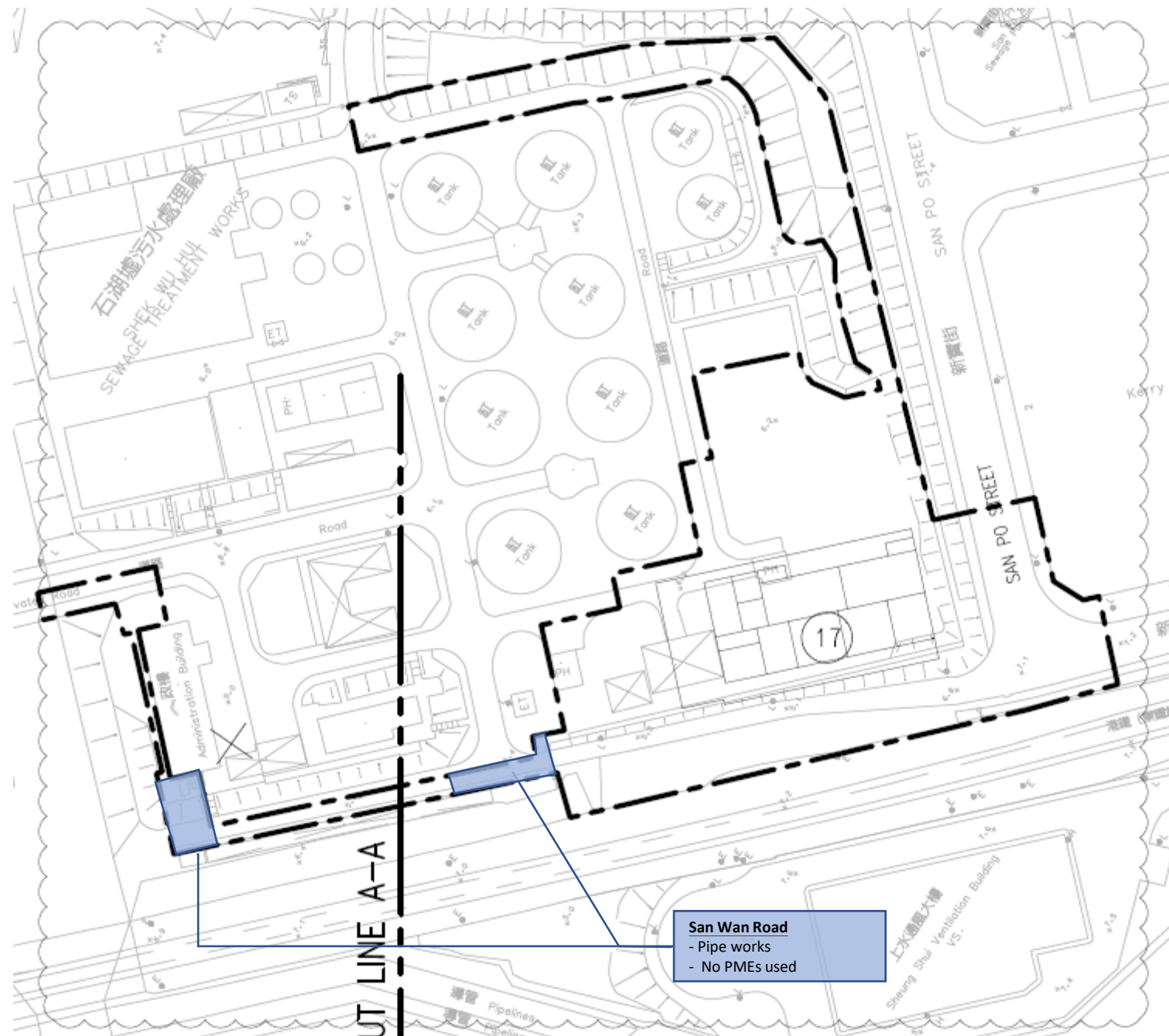
DE/2018/04

			
Compressor House	MFB	DOU	PST

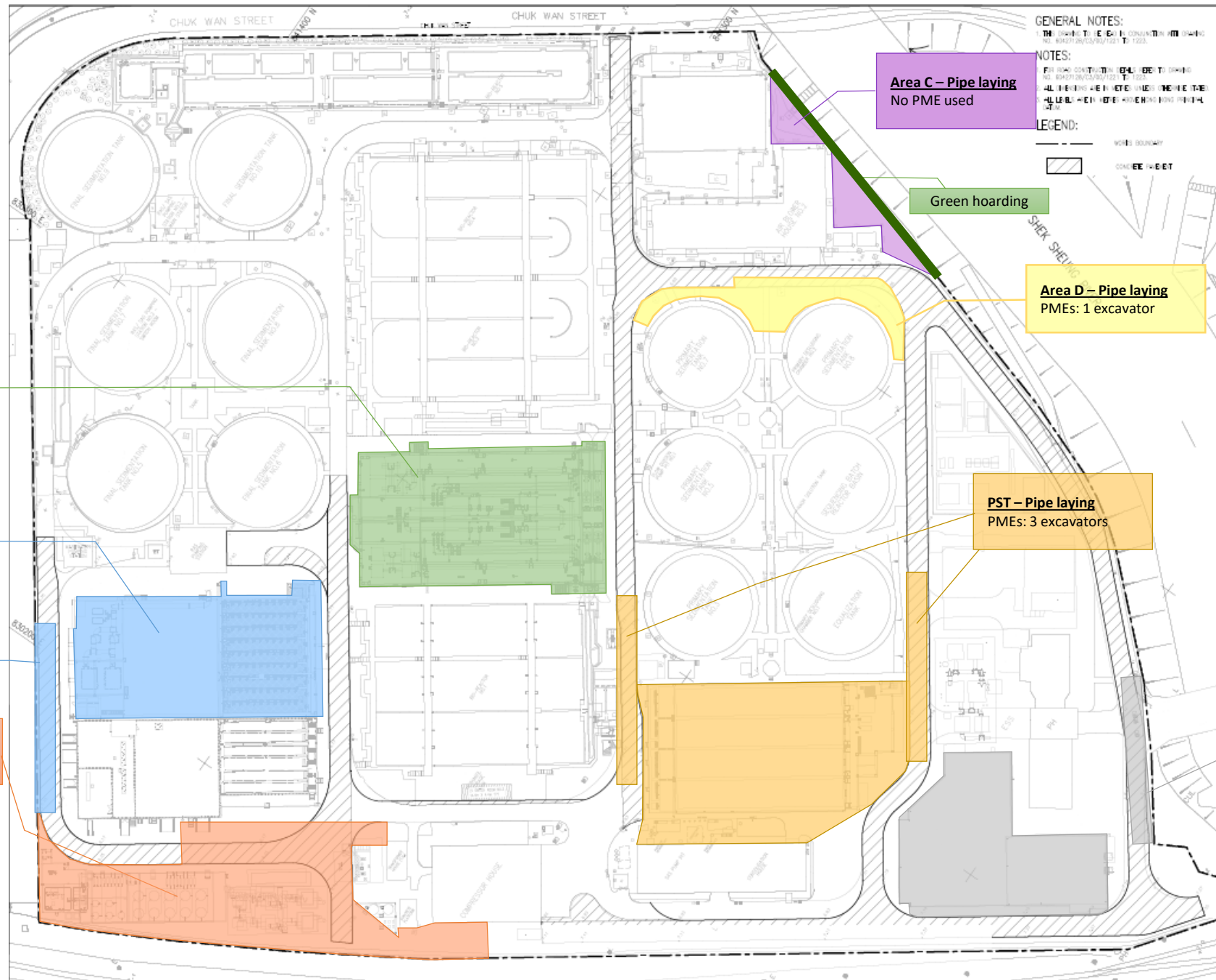
Portion C



Portion A



Portion B



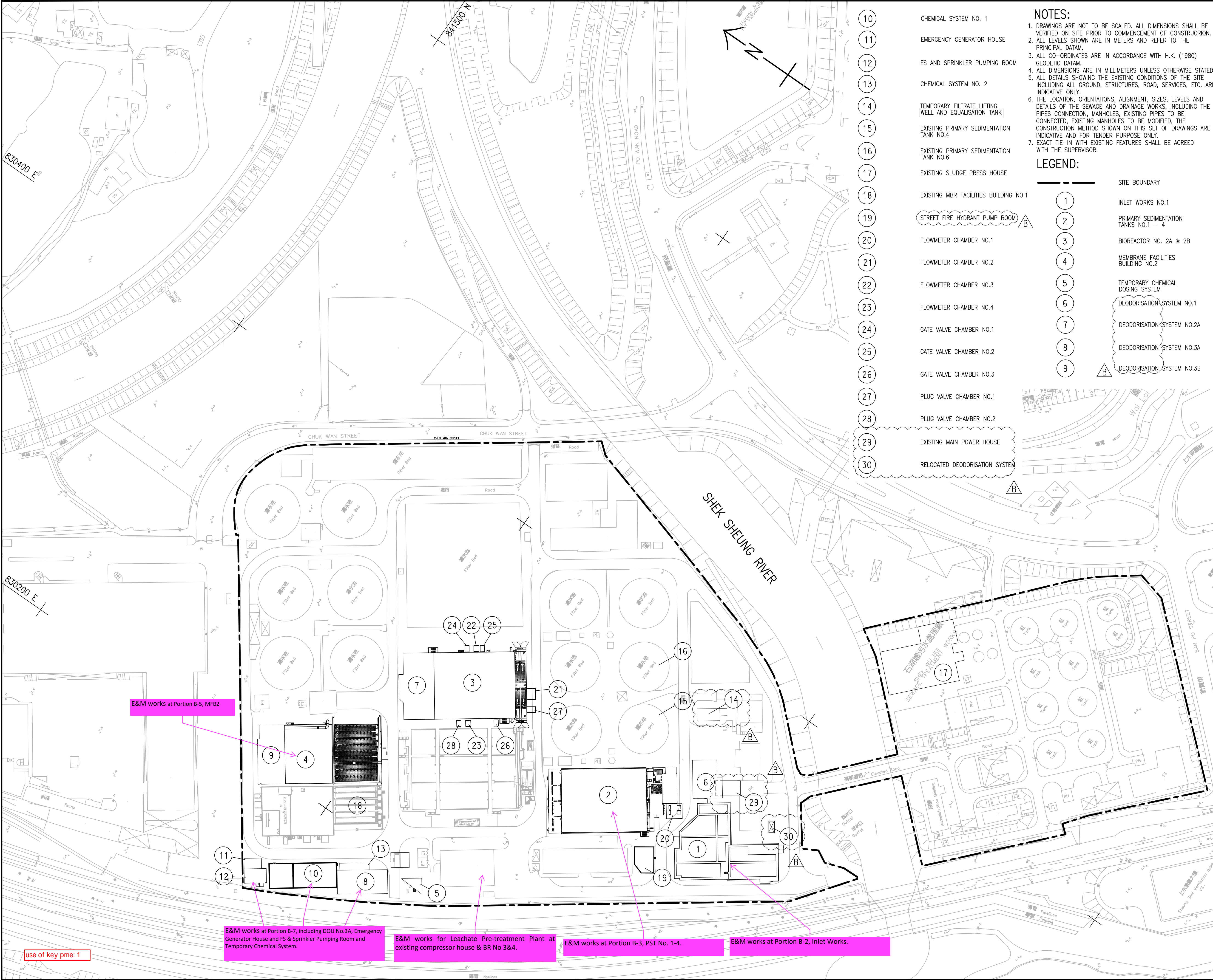


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- | | |
|----|--------------------------------------------------|
| 1 | UV SYSTEM NO. 1 & EFFLUENT PUMPING STATION NO. 1 |
| 2 | SLUDGE DEWATERING BUILDING |
| 3 | COMBINED HEAT & POWER BUILDING |
| 4 | SLUDGE DIGESTER |
| 5 | WORKSHOP NO. 2 |
| 6 | THERMAL HYDROLYSIS PRETREATMENT FACILITIES |
| 7 | BIOGAS HOLDING TANKS |
| 8 | WASTE GAS BURNER |
| 9 | SEWAGE PUMPING STATION |
| 10 | FERRIC CHLORIDE DOSING FACILITIES |
| 11 | WATER METER CABINET |
| 12 | H2S REMOVAL SYSTEM |
| 13 | UNDERPASS (PART) |
| 14 | GUARD HOUSE |
| 15 | TRANSFORMER AND SWITCHROOM |
| 16 | FIRE HYDRANT AND BOOSTER PUMP ROOM |
| 18 | DEODORIZATION SYSTEM NO. 11 |
| 19 | DEODORIZATION SYSTEM NO. 12 |
| 20 | PLANT SERVICES WATER SYSTEM |
| 21 | THP COOLERS PUMPING STATION |
| 22 | SIDESTREAM TREATMENT FACILITIES |
| 23 | SURPLUS ACTIVATED SLUDGE PUMPING STATION |
| 24 | EXISTING CONSOLIDATION HOUSE |

60427128/C2/00/1001

PdL File by: GueYX 15/08/2019
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Project Management Initials: Designer: KYTM Checked: TLST Approved: ELIM ISO A1 594mm x 841mm



- CHEMICAL SYSTEM NO. 1
- EMERGENCY GENERATOR HOUSE
- FS AND SPRINKLER PUMPING ROOM
- CHEMICAL SYSTEM NO. 2
- TEMPORARY FILTRATE LIFTING WELL AND EQUALISATION TANK
- EXISTING PRIMARY SEDIMENTATION TANK NO.4
- EXISTING PRIMARY SEDIMENTATION TANK NO.6
- EXISTING SLUDGE PRESS HOUSE
- EXISTING MBR FACILITIES BUILDING NO.1
- STREET FIRE HYDRANT PUMP ROOM
- FLOWMETER CHAMBER NO.1
- FLOWMETER CHAMBER NO.2
- FLOWMETER CHAMBER NO.3
- FLOWMETER CHAMBER NO.4
- GATE VALVE CHAMBER NO.1
- GATE VALVE CHAMBER NO.2
- GATE VALVE CHAMBER NO.3
- PLUG VALVE CHAMBER NO.1
- PLUG VALVE CHAMBER NO.2
- EXISTING MAIN POWER HOUSE
- RELOCATED DEODORISATION SYSTEM

NOTES:

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- LEGEND:
- SITE BOUNDARY
- INLET WORKS NO.1
- PRIMARY SEDIMENTATION TANKS NO.1 - 4
- BIOREACTOR NO. 2A & 2B
- MEMBRANE FACILITIES BUILDING NO.2
- TEMPORARY CHEMICAL DOSING SYSTEM
- DEODORISATION SYSTEM NO.1
- DEODORISATION SYSTEM NO.2A
- DEODORISATION SYSTEM NO.3A
- DEODORISATION SYSTEM NO.3B

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING PLANT - MAIN WORKS STAGE 1 - E&M WORKS FOR SEWAGE TREATMENT FACILITIES

CLIENT
業主

渠務署
Drainage Services Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

B	AUG. 19	TENDER ADDENDUM NO. 3	TLST
A	JUL. 19	TENDER ADDENDUM NO. 2	TLST
-	APR. 19	TENDER DRAWING	TLST
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核

STATUS
階段

SCALE
比例

A1 1: 1000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60427128

CONTRACT NO.
合約編號

DE/2018/04

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

60427128/C4/00/1001B





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June 2024




Site Record Photos




DC/2018/06

			
SD&THP	CHP	SDB	H2O Removal System & DO System


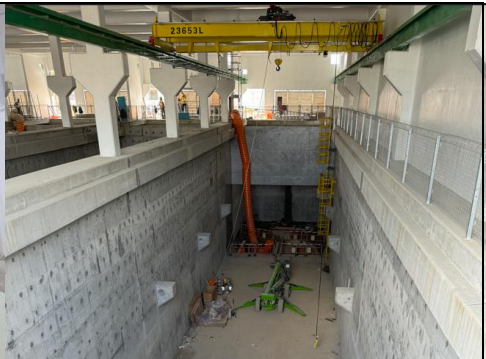
DC/2018/07

			
BR2	MFB	PST	Inlet

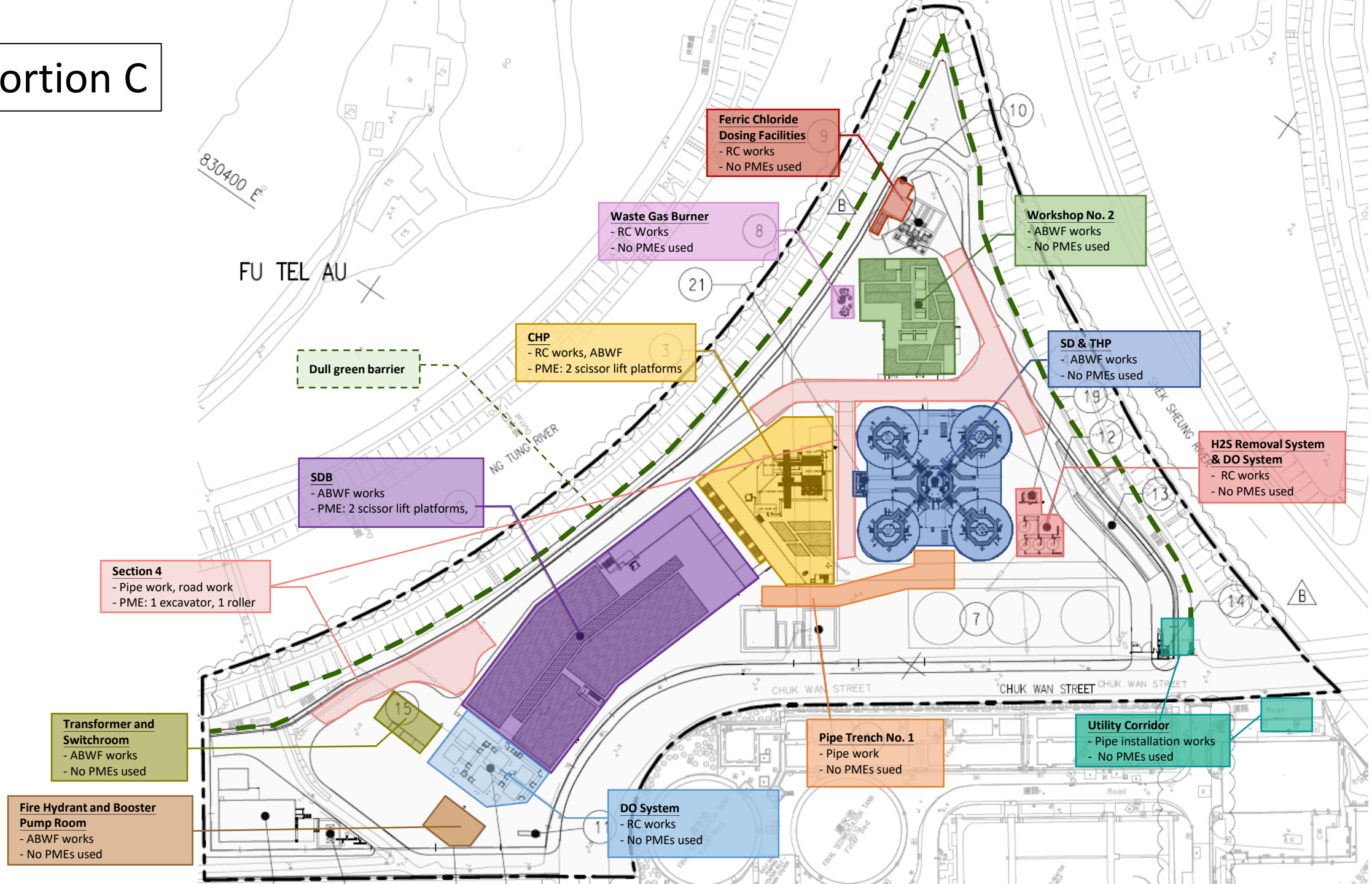
DE/2018/03

			
Sidestream	Bio Gas Tank	CHP	SDB

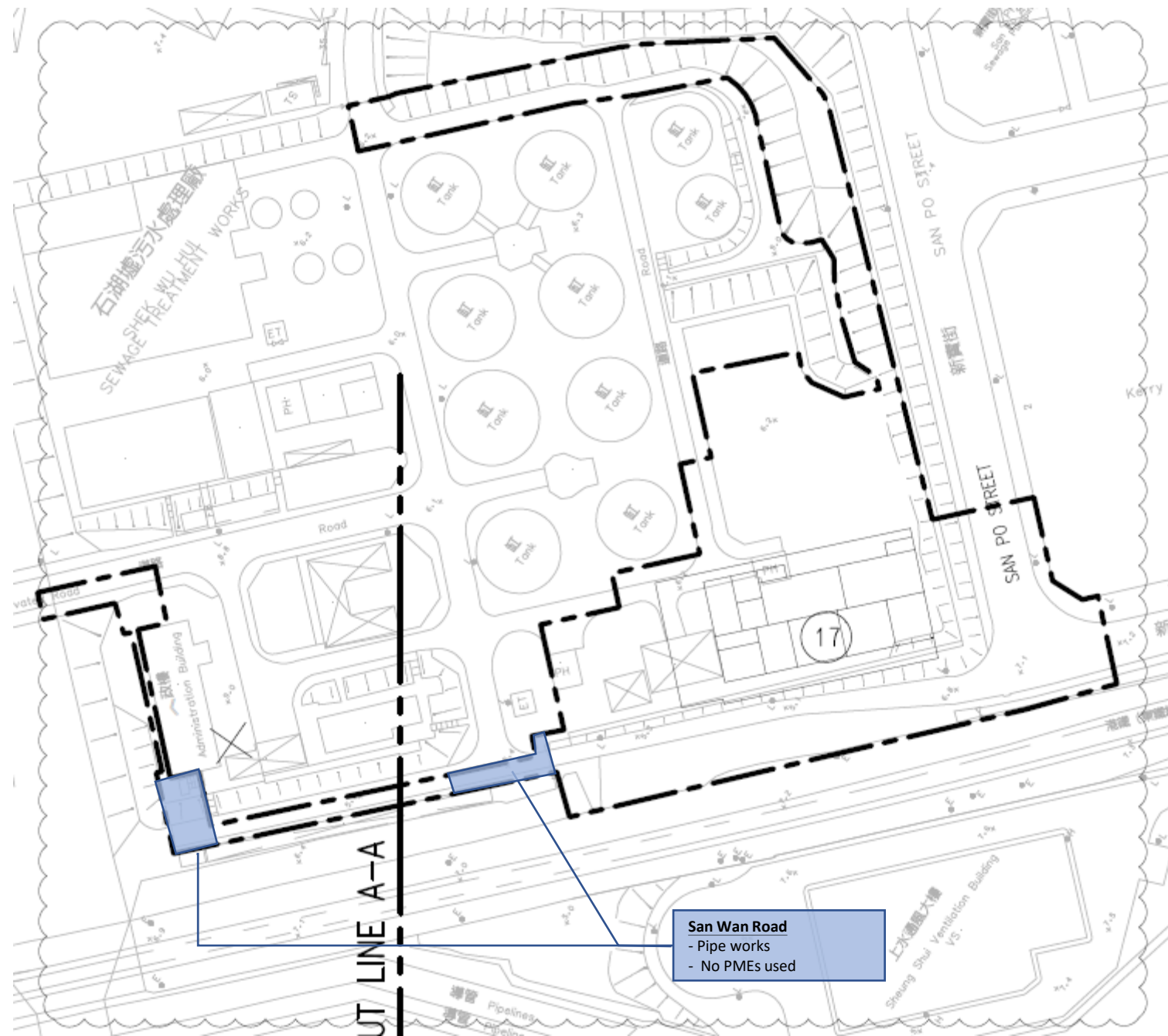
DE/2018/04

		
Compressor House	MFB	PST

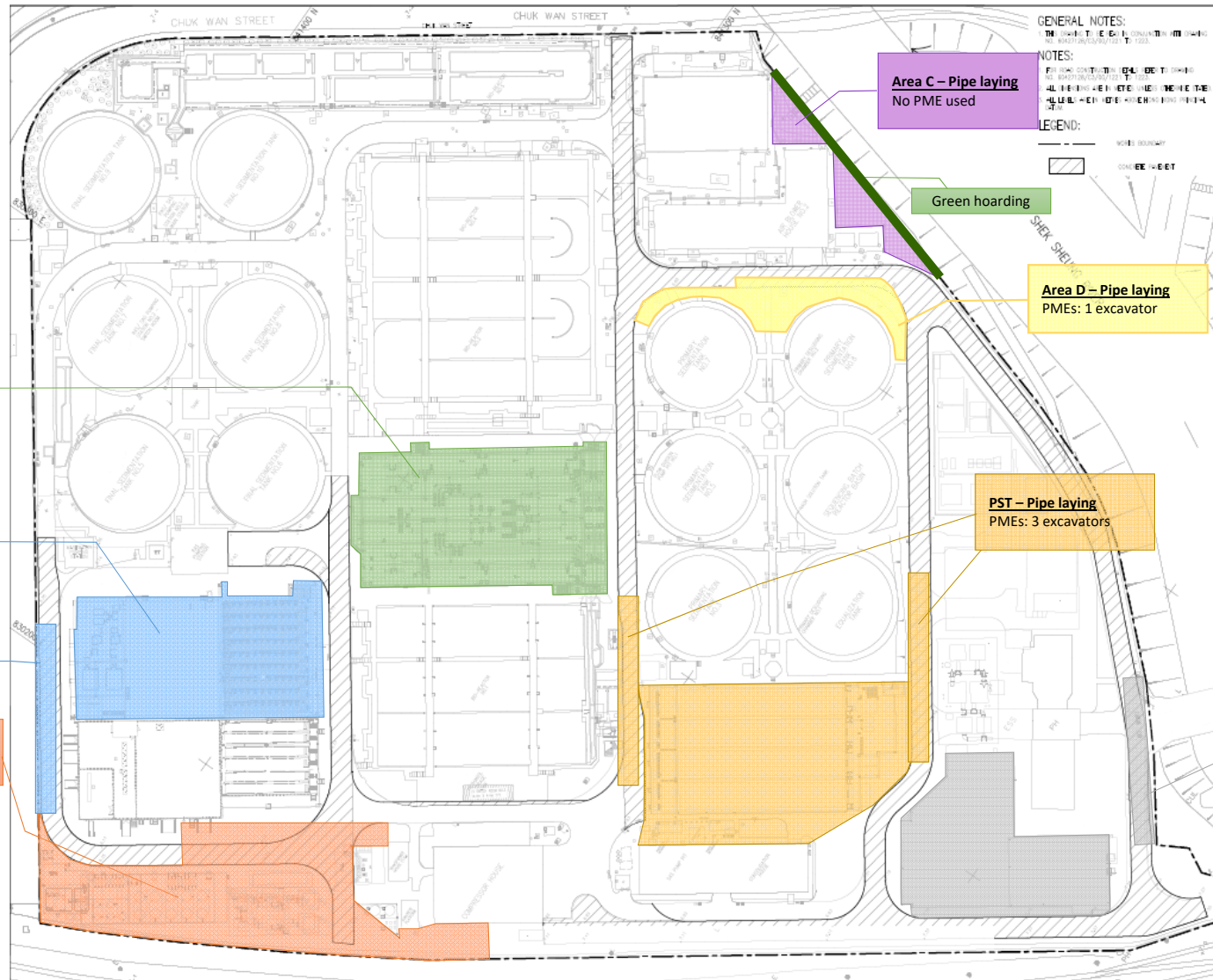
Portion C



Portion A



Portion B



**BR2 – RC works,
cement paint finish**
No PME used

**MFB – RC works, cement
paint finish**
No PME used

MFB - Pipe laying
PMEs: 2 excavators

SAS Pipe laying
PMEs: 2 excavators

Area C – Pipe laying
No PME used

Green hoarding

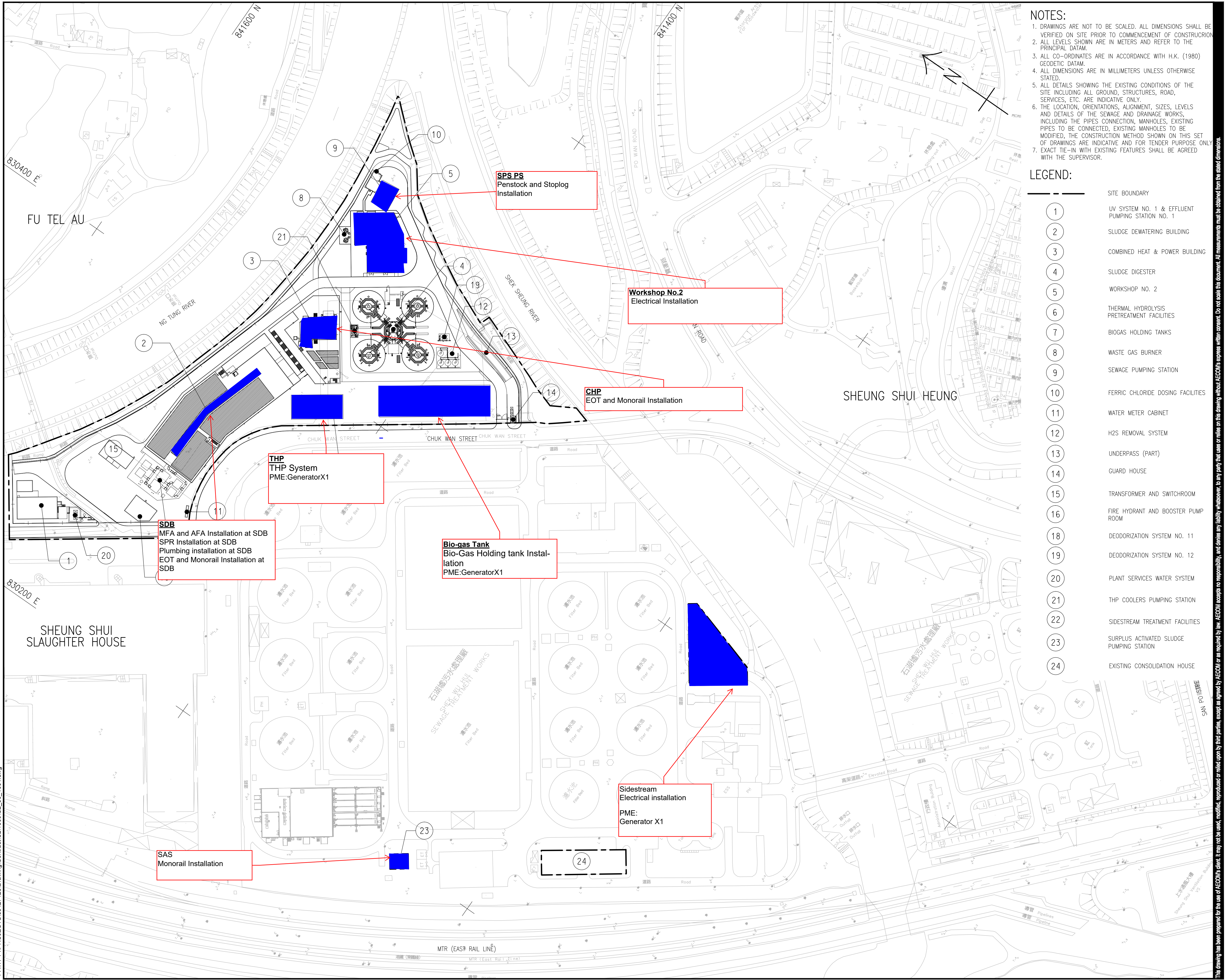
Area D – Pipe laying
PMEs: 1 excavator

PST – Pipe laying
PMEs: 3 excavators

Inlet – Pipe laying
PMEs: 1 excavator

GENERAL NOTES:
THE DRAWING IS FOR CONSTRUCTION AND NOT FOR CONSTRUCTION OF THE WORKS.
NOTES:
FOR ROAD CONSTRUCTION, THE ROAD SHALL BE CONSTRUCTED TO THE FULL WIDTH AND DEPTH SPECIFIED IN THE DRAWING.
LEGEND:
WORKS BOUNDARY
SCALE 1:1000

ISO A1 594mm x 841mm
Project Management Initials: Designer: KYTM Checked: TLST Approved: ELJM
26/03/2019
PATH P:\PROJECTS\0427128\Drawing\Contract\21\00\0101.dwg
Plot File by: GuoX



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2	SLUDGE DEWATERING BUILDING
3	COMBINED HEAT & POWER BUILDING
4	SLUDGE DIGESTER
5	WORKSHOP NO. 2
6	THERMAL HYDROLYSIS PRETREATMENT FACILITIES
7	BIOGAS HOLDING TANKS
8	WASTE GAS BURNER
9	SEWAGE PUMPING STATION
10	FERRIC CHLORIDE DOSING FACILITIES
11	WATER METER CABINET
12	H2S REMOVAL SYSTEM
13	UNDERPASS (PART)
14	GUARD HOUSE
15	TRANSFORMER AND SWITCHROOM
16	FIRE HYDRANT AND BOOSTER PUMP ROOM
18	DEODORIZATION SYSTEM NO. 11
19	DEODORIZATION SYSTEM NO. 12
20	PLANT SERVICES WATER SYSTEM
21	THP COOLERS PUMPING STATION
22	SIDESTREAM TREATMENT FACILITIES
23	SURPLUS ACTIVATED SLUDGE PUMPING STATION
24	EXISTING CONSOLIDATION HOUSE

AECOM

PROJECT
項目

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING PLANT - MAIN WORKS STAGE 1 - SIDESTREAM TREATMENT FACILITIES AND E&M WORKS FOR SLUDGE TREATMENT FACILITIES

CLIENT
業主

渠務署
Drainage Services Department

CONSULTANT
工程顧問公司

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ISSUE/REVISION
修訂

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1	MAR. 19	TENDER DRAWING	TLST

STATUS
階段

SCALE
比例

A1 1:1000

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60427128

CONTRACT NO.
合約編號

DE/2018/03

SHEET TITLE
圖紙名稱

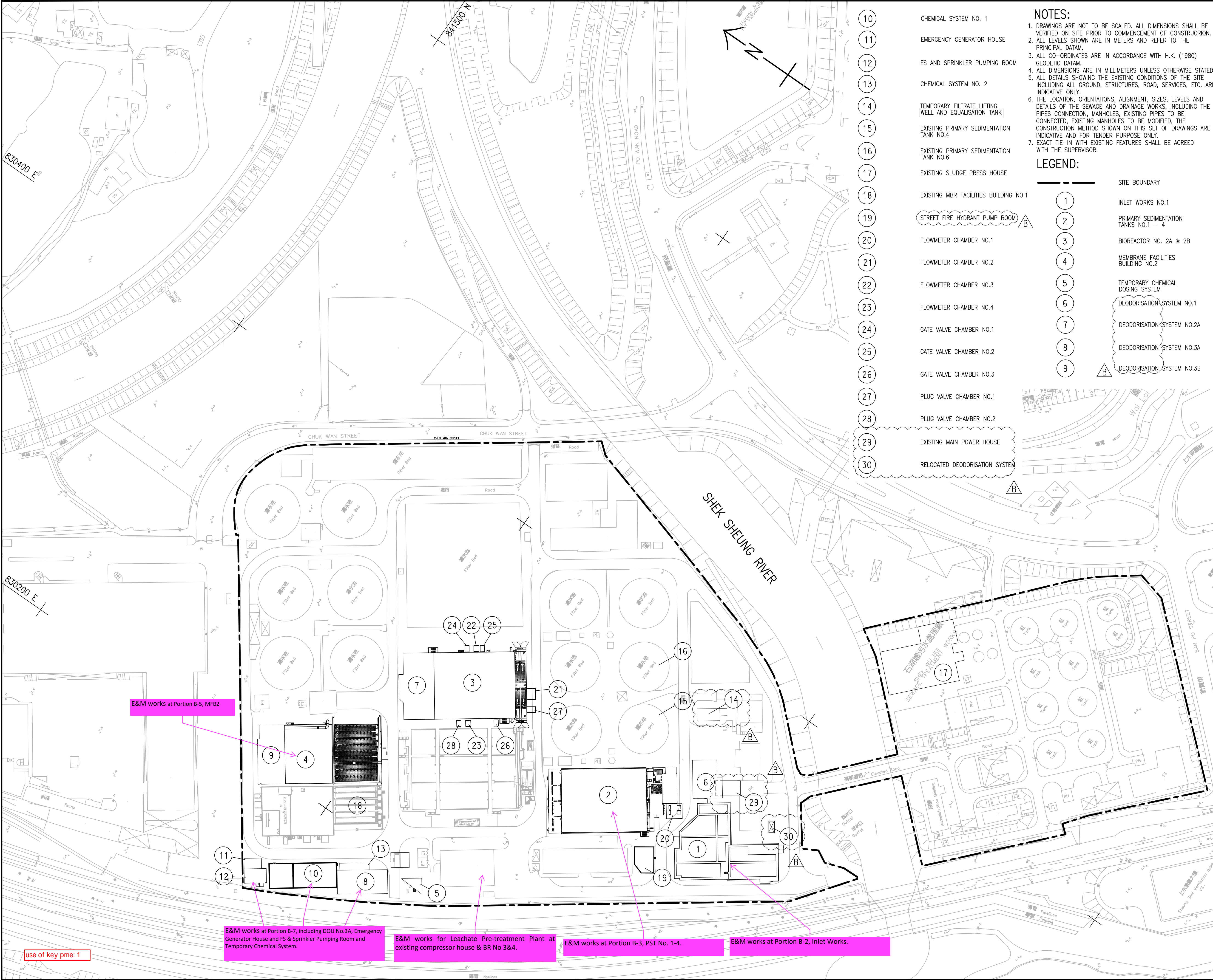
SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

SHEET NUMBER
圖紙編號

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Project Management Initials: Designer: KYTM Checked: TLST Approved: ELIM ISO A1 594mm x 841mm



CHEMICAL SYSTEM NO. 1

EMERGENCY GENERATOR HOUSE

FS AND SPRINKLER PUMPING ROOM

CHEMICAL SYSTEM NO. 2

TEMPORARY FILTRATE LIFTING
WELL AND EQUALISATION TANK

EXISTING PRIMARY SEDIMENTATION
TANK NO.4

EXISTING PRIMARY SEDIMENTATION
TANK NO.6

EXISTING SLUDGE PRESS HOUSE

EXISTING MBR FACILITIES BUILDING NO.1

STREET FIRE HYDRANT PUMP ROOM

FLOWMETER CHAMBER NO.1

FLOWMETER CHAMBER NO.2

FLOWMETER CHAMBER NO.3

FLOWMETER CHAMBER NO.4

GATE VALVE CHAMBER NO.1

GATE VALVE CHAMBER NO.2

GATE VALVE CHAMBER NO.3

PLUG VALVE CHAMBER NO.1

PLUG VALVE CHAMBER NO.2

EXISTING MAIN POWER HOUSE

RELOCATED DEODORISATION SYSTEM

NOTES:

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LEGEND:

	1	2	3	4	5	6	7	8	9
SITE BOUNDARY									
INLET WORKS NO.1									
PRIMARY SEDIMENTATION TANKS NO.1 - 4									
BIOREACTOR NO. 2A & 2B									
MEMBRANE FACILITIES BUILDING NO.2									
TEMPORARY CHEMICAL DOSING SYSTEM									
DEODORISATION SYSTEM NO.1									
DEODORISATION SYSTEM NO.2A									
DEODORISATION SYSTEM NO.3A									
DEODORISATION SYSTEM NO.3B									

AECOM

PROJECT

SHEK WU HUI EFFLUENT
POLISHING PLANT

CONTRACT TITLE
SHEK WU HUI EFFLUENT POLISHING
PLANT - MAIN WORKS STAGE 1 -
E&M WORKS FOR SEWAGE
TREATMENT FACILITIES

CLIENT

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Drainage Services Department

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ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
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A	JUL. 19	TENDER ADDENDUM NO. 2	TLST
-	APR. 19	TENDER DRAWING	TLST
I/R	DATE	DESCRIPTION	CHK.
修改	日期	内容描述	审核

STATUS

冻结

SCALE

比例

A1 1: 1000

DIMENSION UNIT

尺寸单位

METRES

KEY PLAN

索引图

PROJECT NO.

项目编号

60427128

CONTRACT NO.

合约编号

DE/2018/04

SHEET TITLE

图名

GENERAL LAYOUT PLAN

SHEET NUMBER

图号

60427128/C4/00/1001B

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Appendix 3.1

Environmental Monitoring Requirements



Monitoring Requirements

Air Quality Monitoring

Parameter	Frequency	Location	Measurement Conditions
1-hour TSP	3 times per day, once every 6 days	AM1 – House No.15, Wai Loi Tsuen	Ground level
		AM2 – Fu Tei Au	
24-hour TSP	Once every 6 days	AM1a* - Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW ⁽¹⁾	Roof floor
		AM2a - Site Boundary of the Shek Wu Hui STW (North)	Ground level

Remarks

- (1) Due to close proximity to construction works and heavy machines, presence of physical barrier and safety concerns, find adjustment for the location of AM1a was proposed in accordance to Section 2.2.4.6 of the EM&A Manual. It was adjusted from the ground level near the control room of SWHSTW to the roof floor of that control room. The proposal has sought approval from ER and IEC, and agreement from EPD in May 2022.

Noise Monitoring

Parameter	Frequency	Location	Measurement Conditions
Leq, L90 & L10 at 30-minute intervals during (0700 to 1900 on normal weekdays)	Once per week when noise generating activities are underway	NM1 – Wai Loi Tsuen	Ground level and free field measurement
		NM2 – Fu Tei Au	
		NM3 - Man Kok Village	

Ecological Monitoring

Methodology	Monitoring Stations	Descriptions	Influenced by Tidal Action
Monitoring surveys were conducted on a weekly basis along the Ng Tung River,	Transect T1	Along Ng Tung River	No
	Point Count Location P1		
	Point Count Location P2		



Sheung Yue River and Shek Sheung River at both high and low tides. Any sources of actual or potential disturbance to birds due to construction activities are identified.	Transect T2		Yes
	Point Count Location P3		
	Point Count Location P4		
	Point Count Location P5	At Shek Sheung River (Low-flow Channel)	No
	Transect T3	Along Shek Sheung River & Sheung Yue River	Yes
	Point Count Location P6	At Shek Sheung River	Yes
	Point Count Location P7	At Intersection between Sheung Yue River and Shek Sheung River	Yes



Appendix 3.2

Action and Limit Level



Action and Limit Levels

Air Quality Monitoring

Monitoring Station	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
AM1	320	500	189	260
AM2	322	500	187	260

Noise Monitoring

Monitoring Stations	Leq(30min),dB(A)	
	Action Level (dB(A))	Limit Level (dB(A))
NM1	When one documented complaint is received	75*
NM2		
NM3		

*Notes: (1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) used by the Noise Control Authority should be followed.

(2) The limit level shall be 70 dB(A) and 65 dB(A) for educational institute during normal teaching periods and school examination periods, respectively.

Ecological Monitoring of Waterbirds using Ng Tung, Sheung Yue and Shek Sheung Rivers during Construction Phase

Action Level	Limit Level
Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that Action Level response is triggered.	Decline in numbers of all waterbird species relative to numbers during Baseline Monitoring such that the Limit Level response is triggered.
Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Action Level Response is triggered.	Decline in numbers of any one waterbird species occurring in significant numbers* during Baseline Monitoring such that the Limit Level response is triggered.

*Note: Whether numbers are significant depend on species and season after collection and evaluation of baseline data.



Appendix 3.3

Environmental Mitigation Implementation Schedule

Appendix 3.1 Environmental Mitigation Implementation Schedule

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
Air Quality Monitoring							
S2.4.1.3	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:						
	<ul style="list-style-type: none"> Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; 	To minimize the dust impact	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Air Pollution Control Ordinance (APCO) and Air Pollution Control (Construction Dust)	*
	<ul style="list-style-type: none"> Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; 						*
	<ul style="list-style-type: none"> A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones; 						^
	<ul style="list-style-type: none"> The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; 						^
	<ul style="list-style-type: none"> Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	<ul style="list-style-type: none"> When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period. 						^
	<ul style="list-style-type: none"> The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; 						*
	<ul style="list-style-type: none"> Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; 						^
	<ul style="list-style-type: none"> Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; 						^
	<ul style="list-style-type: none"> Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; 						^
	<ul style="list-style-type: none"> Any skip hoist for material transport should be totally enclosed by impervious sheeting; 						^
	<ul style="list-style-type: none"> Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; 						^
	<ul style="list-style-type: none"> Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; 						^

	<ul style="list-style-type: none"> Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and 						^
	<ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
Noise Impact							
S3.4.1.1	Use of movable barrier, enclosure, acoustic mat and quiet plant. Use of wooden frames barrier with a small-cantilevered upper portion of superficial density not less than 14kg/m ² on a skid footing with 25mm thick internal sound absorptive lining.	To minimize construction noise impact arising from the Project at the affected noise sensitive receivers (NSRs)	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, Noise Control Ordinance (NCO)	^
S3.4.1.2	Good Site Practice:		Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, NCO	
	<ul style="list-style-type: none">Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	To minimize construction noise impact arising from the Project at the affected NSRs					
	<ul style="list-style-type: none">Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.						
	<ul style="list-style-type: none">Mobile plant, if any, should be sited as far away from NSRs as possible.						
	<ul style="list-style-type: none">Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.						
	<ul style="list-style-type: none">Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.						
	<ul style="list-style-type: none">Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.						

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
Ecological Impact							
S4.2.1.1	Solid dull green noise/visual barriers of at least 2m high shall be erected and maintained between active works area and all areas of ecological importance.	Minimize noise and human disturbances during construction phase.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	*
S4.2.1.2	Avoid unnecessary lighting.	Minimize mortality impacts on birds.	Design / Contractor/ Plant Operator	Work Sites	Construction and operation phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.3	Good construction site practice to minimise dust generation should be followed on all construction sites. Measures to avoid, minimise and mitigate impacts on air quality are detailed in this schedule.	Minimize dust generation from construction sites.	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
S4.2.1.4	The following measures to avoid, minimise and mitigate impact on water quality during construction phase shall be implemented						
	<ul style="list-style-type: none"> Temporary sewerage and drainage to be designed and installed to collect wastewater and prevent it from entering water bodies; 	Avoid, minimise and mitigate impact on water quality	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM	^
	<ul style="list-style-type: none"> Proper locations well away from nearby water bodies should be used for temporary storage of materials (i.e. equipment, filling materials, chemicals and fuel) and temporary stockpiles of construction debris and spoil, and these should be identified before commencement of works; 						*
	<ul style="list-style-type: none"> To prevent muddy water entering nearby water bodies, work sites close to nearby water bodies should be isolated, using such items as sandbags or silt curtains with lead edge at bottom and properly supported props. Other protective measures should also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the work sites; 						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	<ul style="list-style-type: none"> Construction debris and spoil should be covered and/or properly disposed of as soon as possible to avoid these being washed into nearby water bodies; 						*
	<ul style="list-style-type: none"> Proper locations for discharge outlets of temporary wastewater treatment facilities well away from sensitive receivers should be identified; 						^
	<ul style="list-style-type: none"> Adequate lateral support should be erected where necessary in order to prevent soil/mud from slipping into water bodies; 						^
	<ul style="list-style-type: none"> Site boundaries should be clearly marked and any works beyond the boundary strictly prohibited; 						^
	<ul style="list-style-type: none"> Regular water monitoring and site audit should be carried out at adequate points along any watercourses where construction works are underway upstream within their catchments and also on the Ng Tung, Sheung Yue and Shek Sheung Rivers. If the monitoring and audit results show that pollution occurs, adequate measures including temporarily cessation of works should be considered; 						^
	<ul style="list-style-type: none"> Excavation profiles should be properly designed and executed with attention to the relevant requirements for environment, health and safety; 						^
	<ul style="list-style-type: none"> Where soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; Stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of 						^
	<ul style="list-style-type: none"> contaminated soil to minimize contaminated runoff and construction materials should be properly covered and located away from nearby water bodies; and Supply of suitable clean backfill material after excavation, if required. 						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	<ul style="list-style-type: none"> Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or contaminated run-off, and truck bodies and tailgates should be sealed to prevent discharge during transport or during wet season; 						^
	<ul style="list-style-type: none"> Speed control for the trucks carrying contaminated materials should be enforced; 						^
	<ul style="list-style-type: none"> Vehicle wheel washing facilities at construction sites' exit points should be established and used, where necessary; and 						^
	<ul style="list-style-type: none"> Other measures as detailed in this schedule. 						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
Water Quality Impact							
S5.2.2.1	Construction Site Runoff Practices and measures provided in the Practice Note for Professional Persons on Construction Site Drainage, (PROPECC PN1/94) should be followed where applicable.	Control construction runoff	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	*
S5.2.2.2 – S5.2.2.3	Sewage from Workforce <ul style="list-style-type: none"> Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed Contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance; Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measures 	Handling of site sewage	Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	^ ^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
Waste Management							
S6.2.2.1	Good Site Practices and Waste Reduction Measures		Contractors	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal Ordinance (WDO)	^
	<ul style="list-style-type: none">Nomination of an approved person, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;						
	<ul style="list-style-type: none">Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;						
	<ul style="list-style-type: none">Provision of sufficient waste disposal points and regular collection for disposal;						
	<ul style="list-style-type: none">Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;						
	<ul style="list-style-type: none">Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;						
	<ul style="list-style-type: none">An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval.						
S6.2.3.1	Waste Reduction Measures		Contractors	Work Sites	Prior to the commencement of construction of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	<ul style="list-style-type: none">Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;						
	<ul style="list-style-type: none">Proper storage and site practices to minimize the potential for damage and contamination of construction materials;						
	<ul style="list-style-type: none">Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;						
	<ul style="list-style-type: none">Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and						
	<ul style="list-style-type: none">Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.						

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
S6.2.4.1	Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include:	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	^
	• Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;						^
	• Stockpiling area should be provided with covers and water spraying system to prevent materials from windblown or being washed away; and						^
	• Different locations should be designated to stockpile each material to enhance reuse.						^
S6.2.4.2	Storage, Collection and Transportation of Waste (con't)	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	WDO	*
	• Remove waste in timely manner;						^
	• Employ the trucks with cover or enclosed containers for waste transportation;						^
	• Obtain relevant waste disposal permits from the appropriate authorities; and						^
S6.2.5.2	• Disposal of waste should be done at licensed waste disposal facilities	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^
	C&D Materials from Site Formation						^
	• Maintain temporary stockpiles and reuse excavated fill material for backfilling;						^
	• Carry out on-site sorting;						^
	• Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;						^
S6.2.5.3	• Adopt “selective demolition” technique to demolish the existing structure and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; and						^
	• Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.						^
S6.2.5.3	C&D Material from Buildings Demolition and New Building Construction						

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	<ul style="list-style-type: none"> The Contractor should recycle as much as possible of the C&DM on-site. Public fill and C&DM waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. For example, concrete and masonry can be crushed and used as fill, and steel reinforcing bar can be used by scrap steel mills. Different areas of the work sites should be designated for such segregation and storage. 	Minimize waste impacts arising from waste storage	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Land (Miscellaneous Provisions) Ordinance, WDO, ETWB TCW No. 19/2005	^
	<ul style="list-style-type: none"> The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used. 						^
	<ul style="list-style-type: none"> Government has developed a charging policy for the disposal of waste to landfill at present. It will provide additional incentive to reduce the volume of generated waste and ensure proper segregation to allow reuse of the inert material on site when implemented. 						^
	<ul style="list-style-type: none"> In order to minimize the impacts of the demolition works, the generated wastes must be cleared as quickly as possible after demolition. Therefore, the demolition and clearance works should be undertaken simultaneously. To facilitate proper segregation of inert and non-inert C&D material arising from demolition works, selective demolition method should be adopted. 						^
S6.2.5.4	Chemical Waste						
	<ul style="list-style-type: none"> If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers. 	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	^
	<ul style="list-style-type: none"> Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 						*
S6.2.5.5	General Refuse						

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	<ul style="list-style-type: none"> General refuse should be stored in enclosed bins separately from construction and chemical wastes. 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation	^
	<ul style="list-style-type: none"> Recycling bins should also be placed to encourage recycling. 						^
	<ul style="list-style-type: none"> Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean. 						^
	<ul style="list-style-type: none"> A reputable waste collector should be employed to remove general refuse on a daily basis. 						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
Landscape and Visual							
S7.3.1.1	Good Site Practices Measures						
	<ul style="list-style-type: none"> For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. 	Minimize the impact to the landscape and visual	Contractor	Work Sites	Prior to construction and construction phase		N/A
	<ul style="list-style-type: none"> With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites. 						N/A
S7.3.2.1	<p>MM4 - Tree Protection & Preservation</p> <ul style="list-style-type: none"> Existing trees to be retained within the Project Site should be carefully protected during construction. In particular Old and Valuable Trees (OVTs) will be preserved according to ETWB TC (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained. 	Protect and Preserve Trees	Designer / Contractor	Work Sites	Prior to construction and construction phase	ETWB TCW No. 29/2004 and DEVB TC(W) No.7/2015	^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
S7.3.2.1	<p>MM5 - Tree Transplantation</p> <ul style="list-style-type: none"> Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to. 	Transplant Trees where suitable for transplantation	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	Completed on 23 Sept 2020
S7.3.2.1	<p>MM6 - Slope Landscaping</p> <ul style="list-style-type: none"> Site formation should be reduced as far as possible. Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/or shrubs should be planted where slope gradient and site conditions allow. 	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure manmade slopes are as visually amenable as possible.	Designer / Contractor	Work Sites	Prior to construction, construction phase and operation phase	GEO Publication (1999) - Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011- Technical Guidelines on Landscape Treatment for Slopes	Completed on 28 Feb 2023
	<ul style="list-style-type: none"> In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping 						Completed on 28 Feb 2023
S7.3.2.1	MM7 - Compensatory Planting						

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	<ul style="list-style-type: none"> Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under DEVB TC(W) No. 7/2015. 	Compensate for trees and shrubs lost due to the Project	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No. 2/2004	To be commenced in Sep 2024 tentatively
	<ul style="list-style-type: none"> Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. 						To be commenced in Sep 2024 tentatively
	<ul style="list-style-type: none"> Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>, <i>Rhodomyrtus tomentosa</i>, <i>Raphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested. 						To be commenced in Sep 2024 tentatively
S7.3.2.1	MM9 - Vertical Greening <ul style="list-style-type: none"> Planting of climbers to grow up vertical surfaces were appropriate. 	Soften hard surfaces and facilities	Designer / Contractor	On appropriate structures	Prior to construction, construction phase and operation phase	ETWB TCW No.11/2004 – Cyber Manual for Greening	To be commenced in Sep 2024 tentatively
S7.3.2.1	MM10 - Green Roof <ul style="list-style-type: none"> Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable. 	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to visually sensitive receivers (VSRs) at high levels. Provide greening	Designer / Contractor	On appropriate buildings	Prior to construction, construction phase and operation phase	CIBSE HK Branch, Technical Guidelines for Green Roof Systems in Hong Kong (2011); ArchSD/Urbis Study on Green Roof	To be commenced in Sep 2024 tentatively

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
						Application in HK (2007)	
S7.3.2.1	MM11 - Screen Planting <ul style="list-style-type: none"> Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting. 	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Designer / Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the structures.	Prior to construction, construction phase and operation phase	ETWB TCW No. 10/2013 and 3/2006	To be commenced in Sep 2024 tentatively
S7.3.2.1	MM16 - Screen Hoarding <ul style="list-style-type: none"> Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment. [Chapter 13 of the EIA Report of NENT NDAs (Register No. AEIAR-175- 2013)] 	To screen undesirable views of the works site.	Designer	Work Sites	Construction phase		*
S7.3.2.1	MM17 - Light Control <ul style="list-style-type: none"> Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase. 	To minimize glare impact to adjacent VSRs.	Designer / Contractor	Work Sites and/or the Plant	Construction phase and operation phase		N/A

Remarks:

^ Implemented

*	To be followed-up by Contractor
#	Not Implemented
N/A	Not Applicable

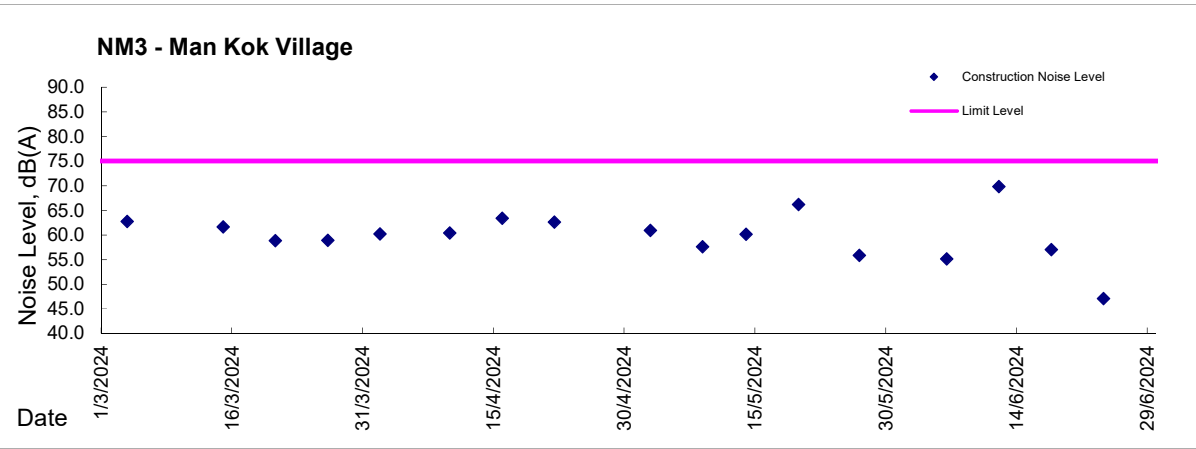
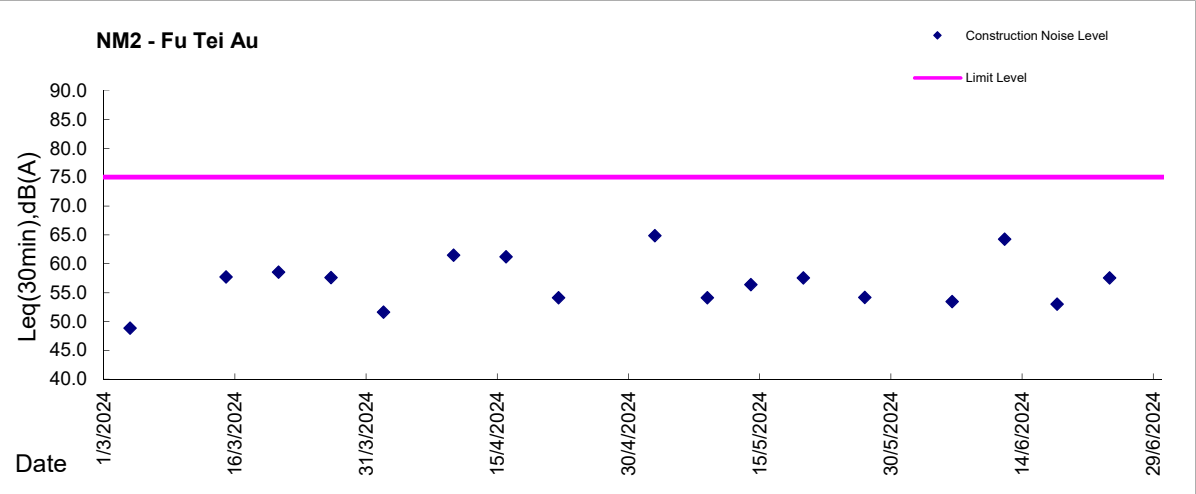
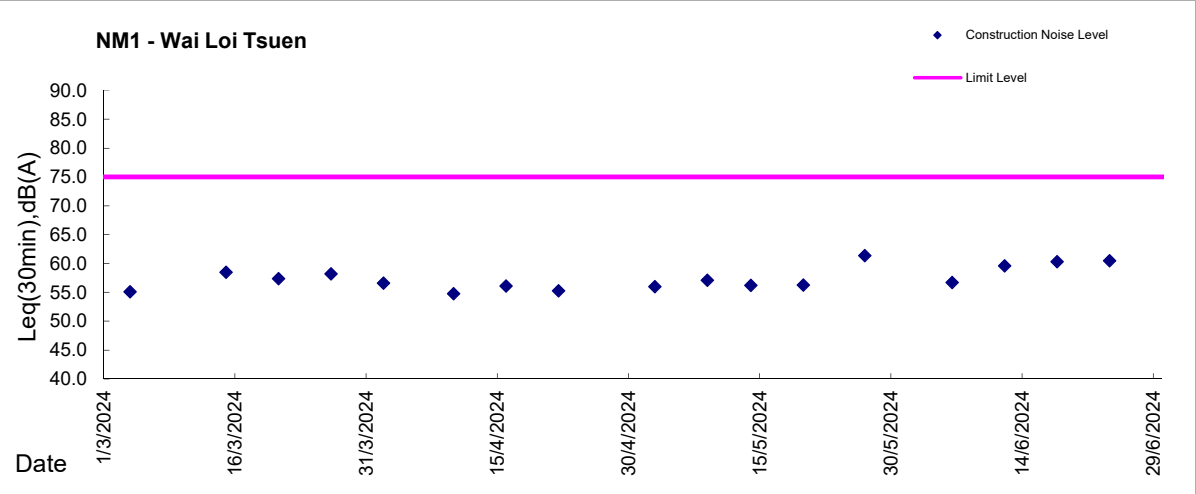


Appendix 3.4

Noise Monitoring Graphical Presentations



Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)

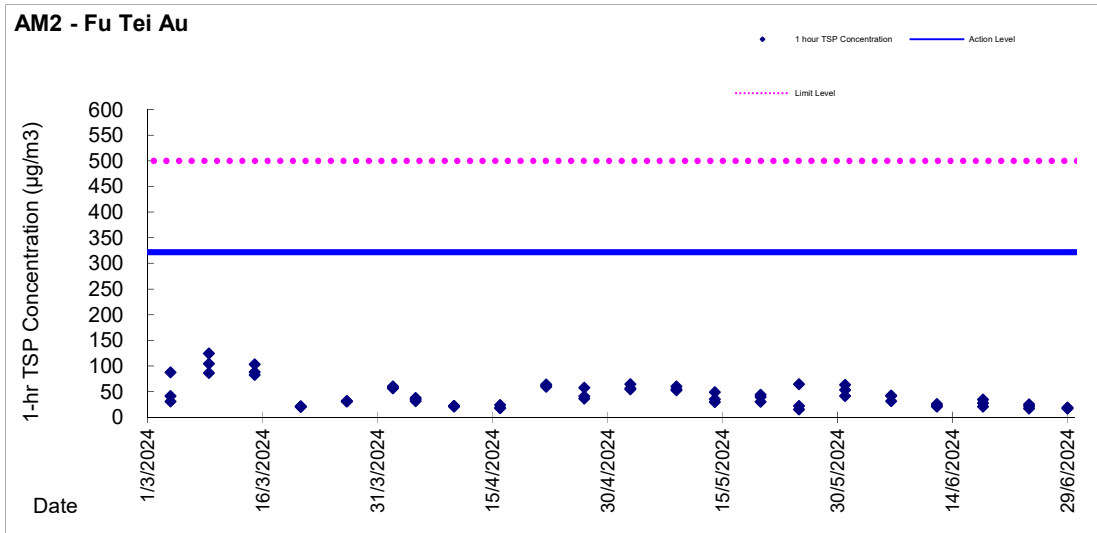
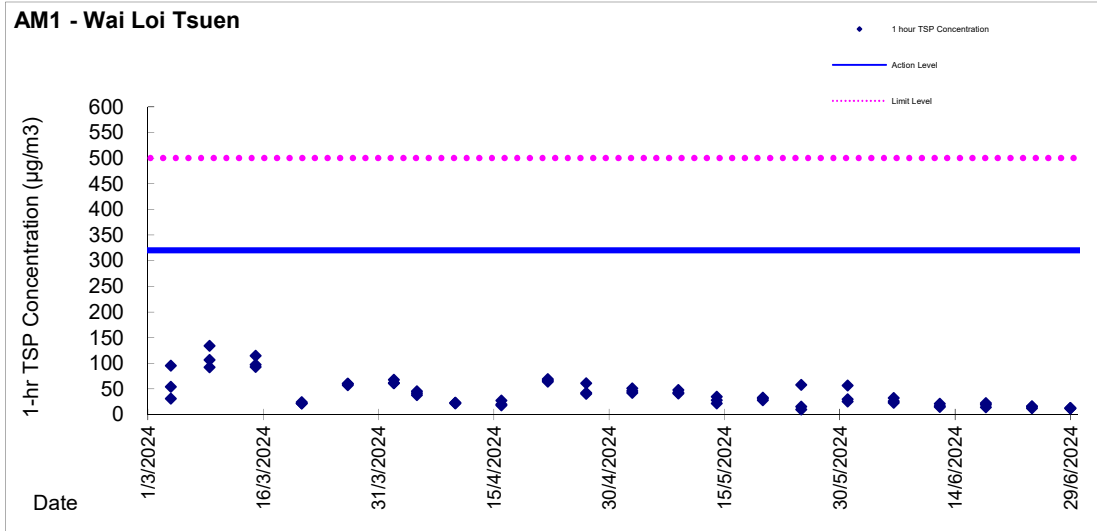




Appendix 3.5

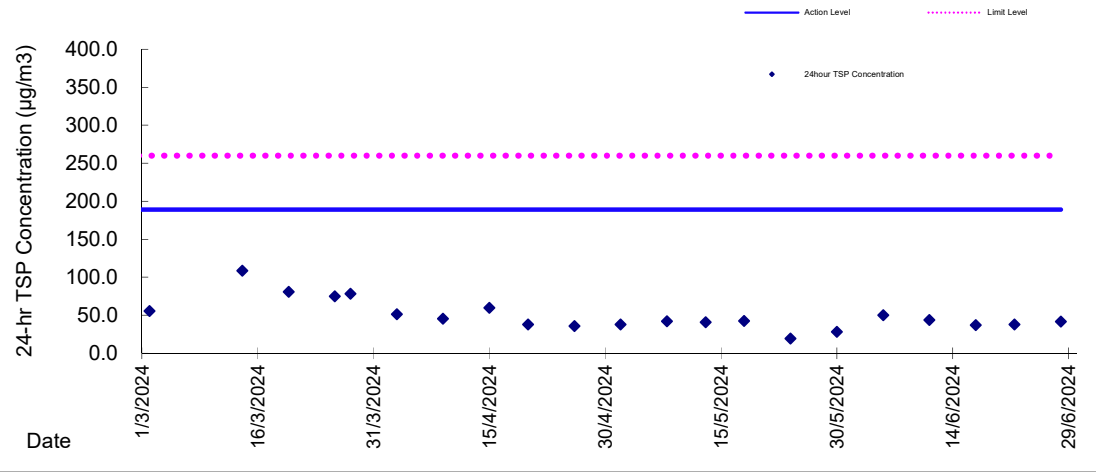
Air Quality Monitoring Graphical Presentations

Graphic Presentation of TSP Result

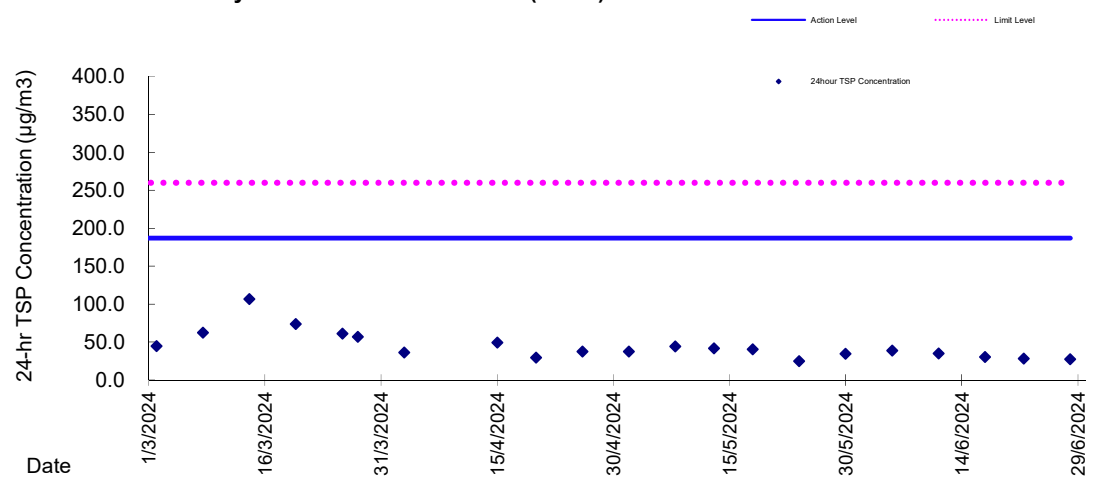


Graphic Presentation of TSP Result

AM1a - Site boundary of the Shek Wu Hui STW (East), Roof floor of the control room of SWHSTW



AM2a - Site Boundary of the Shek Wu Hui STW (North)



Appendix 3.6

Details of Ecological Monitoring Results in the Reporting Period



Details of Ecological Monitoring Results in the Reporting Quarter

Reporting period: April to June 2024

Summary Result of T-Test Analysis for All Waterbird

Month	T-values of Data		Confidence Level (Critical Value)	
			95% (-2.353)	99% (-4.541)
April 2024	Abundance	Monthly	✓	✓
		Seasonal	✓	✓
		Overall	✓	✓

Month	T-values of Data		Confidence Level (Critical Value)	
			95% (-2.132)	99% (-3.747)
May 2024	Abundance	Monthly	✓	✓
		Seasonal	✓	✓
		Overall	✓	✓

Month	T-values of Data		Confidence Level (Critical Value)	
			95% (-2.353)	99% (-4.541)
June 2024	Abundance	Monthly	✓	✓
		Seasonal	✓	✓
		Overall	✓	✓

Remarks:

✓ = T-value falls within the confidence level; the impact monitoring data shows no significant difference to the baseline data.

✗ = T-value falls outside the confidence level; the impact monitoring data shows significant difference to the baseline data.



Summary of Abundance of Representative Waterbirds in the Reporting Period

Representative Species			Compliance		
Species Name	Common Name	Chinese Name	April 2024	May 2024	June 2024
<i>Egretta garzetta</i>	Little Egret	小白鷺	✓	✓	✓
<i>Ardea cinerea</i>	Grey Heron	蒼鷺	NA*		
<i>Ardeola bacchus</i>	Chinese Pond Heron	池鷺	✓	✓	✓
<i>Phalacrocorax carbo</i>	Great Cormorant	普通鸕鶿	NA*		
<i>Ardea alba</i>	Great Egret	大白鷺	✓	✗	✓
<i>Bubulcus coromandus</i>	Eastern Cattle Egret	牛背鷺	✓	✓	✓

Remarks:

✓ = T-value falls within the confidence level; the impact monitoring data shows no significant difference to the baseline data.

✗ = T-value falls outside the confidence level; the impact monitoring data shows significant difference to the baseline data.

*= Great Cormorant (*Phalacrocorax carbo*) and Grey Heron (*Ardea cinerea*) were not recognised as representative waterbird species during wet season.



Appendix 3.7

Waste Flow Table

Monthly Summary Waste Flow Table for 2024

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	0.089	0.000	0.000	0.000	0.089	0.072	0.000	0.000	0.000	0.000	0.011
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
Mar	0.144	0.000	0.000	0.000	0.144	0.012	0.000	0.000	0.008	0.000	0.021
Apr	0.060	0.000	0.000	0.000	0.060	0.000	0.000	0.000	0.014	0.000	0.032
May	0.000	0.000	0.000	0.000	0.000	0.072	0.000	0.000	0.000	0.000	0.046
Jun	0.005	0.000	0.000	0.000	0.005	0.083	0.000	0.000	0.001	0.000	0.035
Sub-total	0.299	0.000	0.000	0.000	0.299	0.239	0.000	0.000	0.023	0.000	0.176
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.299	0.000	0.000	0.000	0.299	0.239	0.000	0.000	0.023	0.000	0.176

- Notes:
1. Assume the density of soil fill is 2 ton/m3.
 2. Assume the density of rock and broken concrete is 2.5 ton/m3.
 3. Assume the density of general refuse is 0.9 ton/m3.
 4. Assume density of waste oil is assumed to be 0.8 kg/L.
 5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.
 6. The non-inert C&D wastes are disposed at NENT.
 7. The quantities of C&D material disposed at Public Fill Facilities and Landfill was until 19/10/2023.

Monthly Summary Waste Flow Table for 2024

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill		Paper/ cardboard packaging		Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
Jan	0.489	0.000	0.000	0.000	0.489	0.012	0.00	0.000	0.000	0.000	0.122
Feb	0.425	0.000	0.000	0.000	0.425	0.120	0.00	0.000	0.004	0.000	0.141
Mar	1.793	0.000	0.000	0.000	1.793	0.739	0.00	0.000	0.007	0.000	0.165
Apr	1.367	0.000	0.000	0.000	1.367	0.550	0.00	0.000	0.014	0.000	0.149
May	0.775	0.000	0.000	0.000	0.775	0.470	0.00	0.000	0.000	0.000	0.207
Jun	0.617	0.000	0.000	0.000	0.617	0.571	0.00	0.000	0.000	0.000	0.220
Sub-total	5.465	0.000	0.000	0.000	5.465	2.462	0.000	0.000	0.026	0.000	1.004
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Total	5.465	0.000	0.000	0.000	5.465	2.462	0.000	0.000	0.026	0.000	1.004

- Notes:
1. Assume the density of soil fill and special waste (i.e. sediment from DSD sedimentation tank) is 2 ton/m³.
 2. Assume the density of rock and broken concrete is 2.5 ton/m³
 3. Assume the density of general refuse is 0.9 ton/m³
 4. Density of waste oil is assumed to be 0.8 kg/L. Chemical waste includes waste oil.
 5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38
 6. The slurry and bentonite are disposed at Tseung Kwun O 137
 7. The non-inert C&D wastes, including general refuse & special waste (i.e. sediment from DSD sedimentation tank) are disposed at NENT

Name of Department: ~~ArchSD/CEDD/DSD/EMSD/HyD/WSD~~ Contract No.: DE/2018/03

Monthly Summary Waste Flow Table for 2024 (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0.003	0.02	0.006	0	41.05T
Feb	0	0	0	0	0	0	0	0	0	0	21.68T
Mar	0	0	0	0	0	0	24.27	0.108	0	0	16.04T
Apr	0	0	0	0	0	0	0	0.199	0	0	20.22T
May	0	0	0	0	0	0	0	0.109	0	0	18.53T
June	0	0	0	0	0	0	0	0.105	0	0	19.84T
Sub-total	0	0	0	0	0	0	24.273	0.541	0.006	0	137.36T
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	0	0	0	0	0	0	24.273	0.541	0.006	0	137.36T

Monthly Summary Waste Flow Table for 2024 (year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan	0	0	0	0	0	0	0	0	0	0	1.69
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	4.57
May	0	0	0	0	0	0	0	0	0	0	0.54
June	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	6.8
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total											



Appendix 4.1

Summary of Notification of Exceedance



Summary for Notification of Exceedance

Reporting period: April to June 2024

Air Quality

Ref No.	Date	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up Action
-	-	-	-	-	-	-	-

Construction Noise

Ref. No.	Date	Time	Location	Construction Noise Level	Parameter	Action Level	Limit Level	Follow-up action
-	-	-	-	-	-	-	-	-

Ecology: Nil

Month	Parameter	Result	Action Level	Limit Level	Investigation Result & Follow-up Action	
May-24	Confidence Level	Lower than the baseline monitoring result for May and summer at 95% and 99% confidence level.	95% confidence level	99% confidence level	Investigation Result: ET's conclusions and recommendations for mitigation:	Despite a drop in Great Egret abundance, the average number of all waterbirds and abundance of other representative Waterbirds was no significant change in reporting month compared to baseline data. It is unlikely that project activity (e.g. noise, waste water) will affect one species only. As the decline of the Great Egret was considered non-project related, no remedial measure for the project is proposed. However, it is recommended that the construction site should continue keeping the good site practice to minimize disturbance caused to surrounding area.



Appendix 4.2

Site Audit Summary

**Site Audit Summary**Reporting Quarter: **April - June 2024**

Contract No.: DC/2018/06		
Date	Observations and recommendations	Follow up and status
April		
3-Apr-2024	Water mitigation measures should be implemented for the exposed slope to prevent muddy water flowing into the river during wet season.	Rectified on 11 April 2024
	Dust suppression measures should be enhanced.	Rectified on 11 April 2024
11-Apr-2024	The stagnant water should be properly cleared near UV no.1.	Rectified on 16 April 2024
16-Apr-2024	The waste should be cleared regularly between the workshop and SD.	Rectified on 30 April 2024
30-Apr-2024	The broken sandbags should be replaced to ensure the functionality during rainy season.	Rectified on 9 May 2024
	Green fence should be properly maintained.	Rectified on 9 May 2024
May		
9-May-2024	The Contractor was reminded to check whether the channel is connected to the Wetsep. Stockpile located near to the channel should be removed. (Outfall of Ng TungRiver)	Rectified on 16 May 2024
	Waste should be disposed regularly.	Rectified on 16 May 2024
	Adequate water should be provided in wheeling washing pool.	Rectified on 16 May 2024
16-May-2024	Water-filled barriers along the site boundary should be properly maintained.	Rectified on 22 May 2024
	Water pipe (not connected) laying toward the river was observed. The Contractor was reminded that all water generated from site should be directed to the Wetsep for treatment before discharge.	Rectified on 22 May 2024



	The Contractor was reminded to clear the mud track on public road and enhance the wheel washing facilities at site exit.	Rectified on 22 May 2024
22-May-2024	The Contractor was reminded to clear the muddy water on public road and enhance the wheel washing facilities at site exit.	Rectified on 28 May 2024
	Water pipe (not connected) laying toward the vehicle exit point was observed. The Contractor was reminded that all water generated from site should be directed to the Wetsep for treatment before discharge.)	Rectified on 28 May 2024
28-May-2024	No particular findings	-
June		
4-Jun-2024	The stagnant water should be properly collected and directed to Wetsep for treatment	Rectified on 13 June 2024
13-Jun-2024	Soil material without protective measures was observed near Outfall. Construction material should be located away from nearby water bodies/ removed as soon as possible to avoid being washed away.	Rectified on 18 June 2024
	Chemical containers should be properly stored with drip tray. The Contractor was reminded to regularly inspect the functionality of drip tray to avoid leakage.	Rectified on 18 June 2024
18-Jun-2024	The blocked U-channel should be properly maintained to avoid overflow during wet season. The sandbag barrier should be enhanced to ensure no leakage of untreated site water to public drainage system.	Rectified on 25 June 2024
25-Jun-2024	Geotextile covering the storm drain should be replaced.	Rectified on 2 July 2024

Contract No.: DC/2018/07		
Date	Observations and recommendations	Follow up and status
April		
3-Apr-2024	The Contractor was reminded to check and ensure that all water should be properly treated by Wetsep before discharge.	Rectified on 11 April 2024
	Soil material in drip tray should be cleared.	Rectified on 11 April 2024



	NRMM label should be affixed to the generator.	Rectified on 11 April 2024
11-Apr-2024	Water spraying should be provided on the haul road next to main control room.	Rectified on 16 April 2024
16-Apr-2024	Water spraying should be provided on haul road near PST and Inlet.	Rectified on 30 April 2024
	The chemical container should be provided with drip tray inside the Inlet.	Rectified on 30 April 2024
30-Apr-2024	Construction waste should be properly stored in container and disposed regularly.	Rectified on 9 May 2024
	Stagnant water in drip tray should be removed.	Rectified on 9 May 2024
May		
9-May-2024	Protection should be provided to the discharge point to prevent muddy water on road entering the drainage system.	Rectified on 16 May 2024
	Accumulated water should be directed to Wetsep for treatment.	Rectified on 16 May 2024
16-May-2024	Dust suppression measure should be provided for the dusty site surface area.	
22-May-2024	No particular findings	-
28-May-2024	The Contractor was reminded to check and ensure that all water generated from site should be properly treated by Wetsep before discharge.	Rectified on 4 June 2024
June		
4-Jun-2024	Construction material was observed near to the discharge point without adequate protection. The Contractor was reminded to review and enhance water mitigation measures provided to prevent leakage of untreated runoff and construction material into the discharge point.	Rectified on 11 July 2024
	Site surface runoff should be properly collected and water mitigation measures should be provided along site boundary to prevent untreated runoff leaving the site.	Rectified on 18 June 2024



13-Jun-2024	The Contractor was reminded to check and ensure that all muddy water generated from site is directed to wastewater treatment facilities (SAS).	Rectified on 18 June 2024
	Waste should be disposed regularly (Inlet).	Rectified on 18 June 2024
18-Jun-2024	No particular findings	-
25-Jun-2024	Dust suppression measures should be implemented for the dusty surface area.	Rectified on 2 July 2024

Contract No.: DC/2018/03		
Date	Observations and recommendations	Follow up and status
April		
3-Apr-2024	Waste should be disposed regularly.	Rectified on 9 April 2024
	Green visual barrier should be properly maintained.	Rectified on 9 April 2024
9-Apr-2024	No particular findings	-
16-Apr-2024	The waste should be disposed regularly.	Rectified on 23 April 2024
23-Apr-2024	No particular findings	-
30-Apr-2024	No particular findings	-
May		
7-May-2024	No particular findings	-
16-May-2024	Waste should be regularly disposed/ properly stored in containers.	Rectified on 21 May 2024
	NRMM Label should be affixed on the working platform.	Rectified on 21 May 2024
21-May-2024	No particular findings	-
28-May-2024	Waste should be disposed regularly.	Rectified on 11 June 2024
June		
4-Jun-2024	No particular findings	-
11-Jun-2024	No particular findings	-
18-Jun-2024	No particular findings	-
25-Jun-2024	No particular findings	-



Contract No.: DC/2018/04		
Date	Observations and recommendations	Follow up and status
April		
3-Apr-2024	No particular findings	-
9-Apr-2024	No particular findings	-
16-Apr-2024	No particular findings	-
23-Apr-2024	No particular findings	-
30-Apr-2024	No particular findings	-
May		
7-May-2024	No particular findings	-
16-May-2024	No particular findings	-
21-May-2024	No particular findings	-
28-May-2024	No particular findings	-
June		
4-Jun-2024	No particular findings	-
11-Jun-2024	No particular findings	-
18-Jun-2024	No particular findings	-
25-Jun-2024	No particular findings	-

Appendix 5.1

Summary of Complaints, Notification of Summons and Successful Prosecution



Summary of Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
1	18 March 2020	EPD	Expansion Site of SWHSTP (Portion C)	Water contamination	<p>Muddy water was suspected to be discharged from the expansion site of SWHSTP to Shek Sheung River, manholes and foul drains nearby</p> <p>The investigation and mitigation measures included</p> <ul style="list-style-type: none">- Employed suction truck and dump truck to clear the silt and mud at Shek Sheung River- Arranged to repair the wastewater treatment system- Installed additional sedimentation tanks and wastewater treatment system to increase the on-site treatment capacity- Clean the slurry sediment released from the outlet regularly by suction trucks- Avoid damage of underground drains and pipes caused by existing construction works- Avoid illegal discharge from the Site into foul drains and manholes	Closed
2	19 February 2021	EPD	SWHEPP	Odour nuisance	<p>Significant odour nuisance was suspected to be emitted from the construction activities of SWHEPP</p> <p>The investigation and mitigation measures included</p> <ul style="list-style-type: none">- Ensured only PMEs with valid NRMM label were used on-site- Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart- Used ULSD for diesel-powered equipment- Provided water spraying and water sprinklers system for haul road access and demolition works- Used battery powered solution to provide power to the tower crane- Provided cover for all rubbish bins on-site- Separated general refuse from construction waste	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
3	9 August 2021	EPD	SWHEPP	Air Quality	<p>Air nuisance was suspected to be originated from the construction activities of SWHEPP</p> <p>The investigation and mitigation measures included</p> <ul style="list-style-type: none">- Ensured only PMEs with valid NRMM label were used on-site- Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart- Used ULSD for diesel-powered equipment- Used battery powered solution to provide power to the tower crane- Carried out plant maintenance in a timely manner	Closed
20220304	4 March 2022	EPD	SWHEPP	Odour nuisance	<p>The complainant alleged the odour nuisance was sourced from the construction site of Shek Wu Hui Effluent Polishing Plant on 4 March 2022. Thus, all four contracts (Contract Nos. DC/2018/06, DC/2018/07, DE/2018/03 and DE/2018/04) were involved in the complaint investigation.</p> <p>After investigation, no construction activities undertaken by all four contracts was associated with the odour nuisance received on 4 March 2022. Nevertheless, the contractors were reminded and recommended to:</p> <ul style="list-style-type: none">• Ensure only equipment with valid NRMM label is allowed to be used at site and regular maintenance of equipment• Provide regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart• Use ULSD as fuel for diesel-powered equipment• Maintain proper segregation and storage of general refuse	Closed
231214	14 December	EPD	BR2 of SWHEPP; SWHSTW Administration	Air Pollution & Water Pollution	EPD received a complaint on 19 December 2023, mentioned that dust netting was not provided to a	Closed as confirm with EPD on 6 Feb



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
	2023		Building		<p>building known as BR2 under the construction by Contract DC/2018/07; also polluting effluent was being discharged by a construction site near the SWHSTW Administration Building.</p> <p>Upon the receipt of the complaint, BR2 has just finishing forming the first layer of building structure and dust netting is about to be provided, major works included formwork erection and removal. No significant air quality impact has been made by the works as no action nor limit level exceedance of air quality monitoring was recorded at AM1 and AM1a* which are the closest impact air quality monitoring stations to BR2.</p> <p>For the illegal discharge issue, ET did not observed the discharge of wastewater at the concerned location after the receipt of the complaint. Works carried out and water quality mitigation measures implemented by each Contractor were also investigated, no non-compliance was observed. Yet one observation related to water quality has been made during the weekly environmental site inspection on 14 December 2023 to Contact DC/2018/07 and Contactor of DC/2018/07 has immediately rectified the situation.</p> <p>After the receipt of the complaint, Contractor of DC/2018/07 has taken the following actions:</p> <ul style="list-style-type: none">• Provision of effective dust screening or netting to enclose the scaffolding of building under construction• All wastewater generated on site should be properly treated before discharge <p>ET also reminded all Contractors to implement the following measures:</p> <ul style="list-style-type: none">• Regular maintenance of sedimentation tanks and Wetsep to ensure their effectiveness for treating wastewater generated on site• Provision of sandbags, bunds or other effective	2024



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>measures to U-channels, manholes and gully to prevent direct discharge of site runoff</p> <ul style="list-style-type: none">• Provide water spraying on haul road to suppress dust emission, frequency of water spraying should also be reviewed to keep the road surface wet at all time.	

Remarks:

No environmental complaint was received in this reporting period



Summary of Notification of Summons and Successful Prosecution

Reporting period: April to June 2024

Log No.	Date	Received From and Received By	Location	Outcome	Status
-	-	-	-	-	-

Remarks: No environmental warning/summon and prosecution was received in the reporting period.