North East New Territories (NENT) Landfill Extension

Annual Environmental Monitoring and Audit Report (No. 2) – 2024

2025-01-23





Our Ref.: CL/91823/2146-VES Date: 28 January 2025

By Email

Veolia Hong Kong Holding Limited 40/F, One Taikoo Place 979 King's Road Quarry Bay Hong Kong

Attn.: Mr. Colin Mitchell

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Dear Sir

Re: Contract No. EP/SP/77/15

North-East New Territories Landfill Extension (NENTX)

Annual Environmental Monitoring and Audit Report (No.2) - 2024

I refer to Section 2.6 to 2.11 and Section 12.3 of the Environmental Monitoring and Audit Manual, regarding the submission of an annual Environmental Monitoring and Audit report. I hereby verify the captioned "Annual Environmental Monitoring and Audit Report (No.2) – 2024" dated 23 January 2025.

Should you have any queries, please do not hesitate to contact the undersigned at 2859 5409.

Yours faithfully MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD

Claudine Lee

Independent Environmental Checker

Aurecon Hong Kong Limited Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Yip Street, Kwun Tong Hong Kong T +852 3664 6888 F +852 3664 6999 E hongkong@aurecongroup.com w aurecongroup.com



Ref: P521530-0000-REP-NN-0102

28 January 2025

By Email

Meinhardt Infrastructure & Environment Ltd. 10/F Genesis 33-35 Wong Chuk Hand Road Hong Kong

Attn: Ms. Claudine Lee,

Dear Claudine,

Re: Contract No. EP/SP/77/15

Northeast New Territories Landfill Extension

Annual Environmental Monitoring and Audit Report (No. 2) - 2024

In accordance with the requirement specified in Section 2.6 to 2.10 & Section 12.3 of Environmental Monitoring and Audit (EM&A) Manual, we are pleased to submit the certified "Annual Environmental Monitoring and Audit Report (No. 2) – 2024" dated 23 January 2025 for your verification.

Should you require any further information or clarification, please do not hesitate to contact the undersigned or our Mr. Keith Chau on 3664 6788.

Yours faithfully, For and on behalf of Aurecon Hong Kong Limited

Fredrick Leong

Environmental Team Leader

Encl

^{1.} Annual Environmental Monitoring and Audit Report (No. 2) – 2024 R1

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Name	Keith Chau	Name	Fredrick Leong
Title	Associate, Environmental	Title	Environmental Team Leader

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Executive Summary

- ES1. Aurecon Hong Kong Limited (Aurecon) was appointed to undertake the role of Environmental Team (ET) and carry out Environmental Monitoring and Audit for the North East New Territories (NENT) Landfill Extension.
- ES2. The construction phase and EM&A programme of the Project commenced on 1 December 2022.
- ES3. This 2nd Annual EM&A Report presents the EM&A works conducted from 1 January to 31 December 2024 in accordance with the Updated EM&A Manual.

Summary of Construction Works undertaken during Report Period

ES4. The major construction works undertaken during the reporting period include:

ES Table1 Major Construction Works undertaken during the Reporting Period

	Reporting Period	
Construction Activities Undertaken	Jan to Nov 2024	Dec 2024
- Material loading and unloading, site traffic at Portion A, SBA to alternative disposal ground	✓	√
- Construction of site buildings at Portion D	✓	√
- Site clearance at Portion A, B2/E1, E3-1 & E4	√	√
- Installation of permanent fencing at Portion A, B1 & E4	✓	√
- Site formation at Portion A, B2/E1, E3-1 & E4	✓	√
- Tree felling at whole site	✓	√
- Shotcreting (Permanent and Temporary) at whole site	✓	√
- Soil Nail Installation at Portion A, B2/E1 & E4	✓	√
- Installation of minipile at Portion A		✓
- Construction of RE wall at Portion E3-1		√

Environmental Exceedance

Air Quality (1-hr & 24-hr TSP)

ES5. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 was recorded during the reporting period.

Noise & Landfill Gas Monitoring

ES6. No exceedance of the Action and Limit Levels were recorded at designated monitoring stations during the reporting period.

Surface Water Quality Monitoring

ES7. No exceedance of Action and Limit Levels of surface water monitoring was recorded during the reporting period.

Environmental Non-conformance/Complaint/Summons and Prosecution

- ES8. No non-compliance event was recorded during the reporting period.
- ES9. Two environmental complaints regarding water quality were recorded during the reporting period.
- ES10. No summons/prosecutions were recorded and received in this reporting period.

1. Introduction

1.1. Background

- 1.1.1. The North East New Territories Landfill Extension (the NENTX Project) is located adjacent to the existing North East New Territories (NENT) Landfill at Ta Kwu Ling. The extension site is located in a valley covering mainly the existing NENT Landfill Stockpile and Borrow Area that was formed to the east of the existing landfill as part of the original site development of the landfill, and layout plan shown in **Figure 1**.
- 1.1.2. The NENTX is a designated project. The Environmental Impact Assessment (EIA) Report (AEIAR-111/2007) and an Environmental Monitoring and Audit Manual were approved on 20 September 2007. The project is governed by an Environmental Permit (EP) (EP-292/2007) which was granted on 26 November 2007. A further of EP (FEP) was applied and the FEP (FEP-01/292/2007) was subsequently granted on 28 April 2022. Another further of EP (FEP-02/292/2007) was subsequently granted on 23 August 2023. The Updated EM&A Manual was approved by Director of Environmental Protection (DEP) on 4 January 2024.
- 1.1.3. In accordance with the requirements specified in Section 2.7 to 2.11 and Section 12.3 of the Updated EM&A Manual, Annual EM&A report should be submitted to the Director of Environmental Protection (DEP) within 10 working days after the end of the reporting year. The submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC).
- 1.1.4. The construction phase and EM&A programme of the Project commenced on 1 December 2022.

1.2. Nature, Scale and Scope of the captioned Designated Project

1.2.1 The Nature, Scale and Scope of the captioned Designated Project is presented in **Table 1-1**.

Table 1-1 Nature, Scale and Scope of the captioned Designated Project

Item(s)	Content Construction and operation of a landfill for waste as defined in the "Waste Disposal Ordinance" (Cap. 354)		
Nature of Designated Project			
Scale and Scope of Designated Project	The Project mainly consists of the followings: - Construction and operation of a landfill extension of about 70 hectares with a target void space of at least 19 million cubic metres on the eastern side of the existing NENT Landfill, including the followings: - i. Site formation and preparation; ii. Installation of liner system; iii. Installation of leachate collection, treatment and disposal facilities; iv. Installation of gas collection, utilization and management facilities; v. Utilities provisions and drainage diversion; vi. Landfilling operation; vii. Restoration and aftercare in subsequent stages; and viii. Measures to mitigate environmental impacts as well as		

1.3. Purpose of this Report

1.3.1. This is the 2nd Annual EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 01 January to 31 December 2024.

1.4. Structure of the Report

1.4.1. The structure of the report is as follows:

Section 1 – Introduction

- details the background, purpose and structure of the report.

Section 2 – Project Information

 summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3 - Air Quality Monitoring

Construction Dust

Section 4 – Noise Monitoring

Section 5 – Water Quality Monitoring

- Groundwater Monitoring
- Surface Water Monitoring

Section 6 - Waste Management

Section 7 - Landfill Gas Monitoring

Section 8 - Landscape and Visual

Section 9 – Cultural Heritage

Section 10 - Ecological Monitoring

Section 11 – Site Inspection and Audit

Section 12 - Environmental Non-Conformance

Section 13 – Implementation Status on Environmental Mitigation Measures

Section 14 - Conclusion

2. Project Information

2.1. Construction Activities

2.1.1. A summary of the major construction activities undertaken in this reporting period is shown in **Table 2-1**. Construction programme and detailed construction activities are illustrated in **Appendix A**.

Table 2-1 Major Construction Activities Undertaken in the Reporting Period

	Reporting Period	
Construction Activities Undertaken	Jan to Nov 2024	Dec 2024
- Material loading and unloading, site traffic at Portion A, SBA to alternative disposal ground	\checkmark	✓
- Construction of site buildings at Portion D	✓	✓
- Site clearance at Portion A, B2/E1, E3-1 & E4	✓	✓
- Installation of permanent fencing at Portion A, B1 & E4	✓	✓
- Site formation at Portion A, B2/E1, E3-1 & E4	✓	✓
- Tree felling at whole site	✓	✓
- Shotcreting (Permanent and Temporary) at whole site	✓	✓
- Soil Nail Installation at Portion A, B2/E1 & E4	√	√
- Installation of minipile at Portion A		✓
- Construction of RE wall at Portion E3-1		√

2.2. Project Organization & Management Structure

2.2.1. The Project Organization Chart & Management Structure are shown in **Appendix B**. The key personnel contact information is summarized in **Table 2-2**.

Table 2-2 Contact Information of Key Personnel

Party	Name	Contact Number
Contractor (Veolia Hong Kong Holding Ltd.)	Mr. Matt Choy	2902 5296
Independent Environmental Checker (IEC)	Ms. Claudine Lee	2859 5409
(Meinhardt Infrastructure and Environment Ltd.)		
Environmental Team Leader (ETL) (Aurecon Hong Kong Limited)	Mr. Fredrick Leong	3664 6888

2.3. Status of Submission required under the FEP & EP during reporting period

2.3.1. The status of statutory environmental compliance with the FEP & EP conditions under the EIAO, submission status under the FEP & EP during reporting period are presented in **Table 2-3**. The detail status of statutory environmental compliance with the FEP & EP conditions under the EIAO, submission status under the FEP & EP for NENTX project are shown in **Appendix C**.

Table 2-3 Status of Submissions required under the FEP & EP during reporting period

20 Otatas of Cabinissions required ander the FET & ET during reporting period				
FEP Condition	EP Condition	Submission / Measures	Status	
2.1	2.3	Management Organization of Main Construction Companies	Submitted	
2.2	2.4	Setting up of Community Liaison Group	Community Liaison Group was set up.	
2.3	2.5	Submission of EM&A Manual	Submitted	
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submitted	
2.6	2.8	Submission of translocation proposal	Submitted	
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submitted	
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Translocation was carried out and the report submitted.	
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submitted	
2.10	2.12	Submission of Waste Management Plan	Submitted	
3.2	3.2	Submission of Baseline Monitoring Report	Submitted	
3.3	3.3	Submission of Monthly EM&A Report	Submitted	

2.4. Status of Environmental Approval Document

2.4.1. A summary of the relevant valid permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP is presented in **Table 2-4**.

Table 2-4 Summary of the relevant valid permits, licences, and/or notifications on environmental protection

Permit / Licenses / Notification	Reference	Expiry Date	Remark
Environmental Permit (EP)	EP-292/2007	Throughout the Contract	Permit granted on 26 November 2007
Further Environmental	FEP-01/292/2007	Throughout the Contract	Permit granted on 28 April 2022
Permit (FEP)	FEP-02/292/2007	Throughout the Contract	Permit granted on 23 August 2023
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	479809	Throughout the Construction Phase	Notified on 13 May 2022
Registration of Waste Producer under Waste Disposal Ordinance	7043692	Throughout the Contract	Registered on 13 April 2022
	GW-RN0240-24	7 June 2024	Permit granted on 1 March 2024
Construction Noise	GW-RN0702-24	18 September 2024	Permit granted on 17 June 2024
Permit	GW-RN1050-24	18 December 2024	Permit granted on 6 September 2024
	GW-RN1455-24	18 March 2025	Permit granted on 11 December 2024
Registration as Chemical Waste Producer	5213-642-P1034-18	Throughout the Contract	Registered on 11 July 2022
Effluent Discharge License under Water	WT00042301-2022	31 October 2027	Permit granted on 18 October 2022
Pollution Control Ordinance			Variation of Licence (Permit granted on 7 February 2023)

3. Air Quality Monitoring

3.1 Construction Dust

3.1.1 Monitoring Requirement

3.1.1.1 In accordance with the Updated EM&A Manual, 1-hr & 24-hr Total Suspended Particulates (TSP) levels should be measured at the designated air quality monitoring stations in every 6 days to ensure that any deteriorating air quality could be readily detected, and timely action shall be undertaken to rectify such situation. For 1-hr TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs. The specific time to start and stop the 24- hr TSP monitoring shall be clearly defined for each location.

3.1.2 Monitoring Parameters, Frequency and Location

- 3.1.2.1 According to the Updated EM&A Manual, three monitoring stations namely AM(D)1, AM(D)2 and AM(D)3 are selected for the impact monitoring.
- 3.1.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at AM(D)1, AM(D)2 and AM(D)3, the adjusted stations at AM1, AM2 and AM3 were agreed with IEC prior to the baseline and impact monitoring. The locations of adjusted dust monitoring locations are shown in **Figure 2**.
- 3.1.2.3 The locations of dust monitoring stations are shown in **Table 3-1**. The monitoring parameters, frequency and duration are shown in **Table 3-2**.

Table 3-1	Locations of Dust Monitoring Stations
Iable J-I	

Monitoring Station	Representative for	Monitoring Parameters
AM1	Tung Lo Hang	1-hr and 24-hr TSP
AM2	Heung Yuen Wai	1-hr and 24-hr TSP
AM3	Wo Keng Shan Tsuen	1-hr and 24-hr TSP

Remarks

The contractor passed correspondence including original monitoring locations specified on the Approved EM&A Manual to the village representatives on 26 April 2022. After a meeting with Ta Kwu Ling District Rural Committee (RC) Chairman, representative from the RC and a few villagers on 1 May 2022, all the Village Heads of Wo Keng Shan Tsuen, Heung Yuen Wai and Lin Ma Hang verbally refused to accept our proposal for installation of dust and / or noise monitoring equipment within or next to their villages, for the baseline & impact monitoring.

AM(D)1 Tung Lo Hang, AM(D)2 Heung Yuen Wai, AM(D)3 Wo Keng Shan Tsuen are the air monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to Tung Lo Hang, Heung Yuen Wai and Wo Keng Shan Tsuen were denied. A search for alternative air monitoring locations (AM1, AM2 & AM3) was carried out during the site visit.

The Baseline Monitoring Plan has been submitted to IEC and EPD including the proposal of change of monitoring locations on 31 May 2022. This arrangement was conducted between baseline and impact monitoring and has been agreed by the Independent Environmental Checker (IEC) and no comment received from EPD.

Due to the adjustment of the location of AM(D)1, AM(D)2 & AM(D)3to AM1, AM2 & AM3, the measured air quality levels at AM1, AM2 & AM3 would represent the air quality levels at AM(D)1, AM(D)2 & AM(D)3.

Table 3-2 Dust Impact Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
AM1, AM2, AM3	1-hr TSP	At least 3 times per 6 days
AIVI I, AIVIZ, AIVIS	24-hr TSP	1 time per 6 days

3.1.3 Monitoring Results

3.1.3.1 The impact dust monitoring results are summarized in **Table 3-3** and **Table 3-4**. The graphical presentations of monitoring data are presented in **Appendix D**.

Table 3-3 Summary of Impact 1-hr TSP Monitoring Results

	Average 1-hr TSP Concentration, μg/m³ (Range)				
Month	Dust Monitoring Station				
	AM1	AM2	AM3		
Jan 2024	33 (21 – 59)	50 (40 – 65)	58 (48 – 70)		
Feb 2024	28 (24 – 36)	50 (39 – 56)	54 (40 – 62)		
Mar 2024	32 (22 – 60)	46 (31 – 63)	56 (48 – 71)		
Apr 2024	27 (20 – 33)	48 (40 – 53)	55 (50 – 60)		
May 2024	24 (20 – 31)	44 (39 – 51)	49 (39 – 56)		
Jun 2024	25 (19 – 36)	43 (38 – 52)	51 (40 – 61)		
Jul 2024	28 (24 – 30)	38 (30 – 44)	47 (39 – 56)		
Aug 2024	26 (21 – 36)	38 (29 – 46)	45 (40 – 53)		
Sep 2024	26 (12 – 34)	43 (29 – 59)	50 (37 – 62)		
Oct 2024	24 (18 – 31)	38 (31 – 44)	46 (38 – 56)		
Nov 2024	26 (20 – 30)	34 (21 – 41)	44 (36 – 51)		
Dec 2024	26 (20 – 30)	42 (38 – 50)	41 (38 – 43)		
Action Level	>285	>279	>285		
Limit Level		>500			

Table 3-4 Summary of Impact 24-hr TSP Monitoring Results

	Average 24-hr TSP Concentration, μg/m³ (Range)			
Month	Dι	ıst Monitoring Stat	ion	
	AM1	AM2	AM3	
Jan 2024	84 (70 – 112)	103 (84 – 119)	105 (80 – 119)	
Feb 2024	98 (86 – 118)	118 (107 – 123)	117 (104 – 143)	
Mar 2024	91 (66 – 117)	82 (60 – 104)	94 (76 – 125)	
Apr 2024	90 (70 – 125)	122 (107 – 137)	122 (110 – 131)	
May 2024	115 (92 – 137)	127 (116 – 138)	118 (95 – 135)	
Jun 2024	90 (71 – 122)	107 (87 – 138)	109 (91 – 143)	
Jul 2024	110 (93 – 128)	111 (100 – 119)	112 (99 – 135)	
Aug 2024	94 (82 – 103)	112 (102 – 118)	118 (110 – 121)	
Sep 2024	108 (101 – 117)	109 (98 – 123)	117 (110 – 129)	
Oct 2024	114 (104 – 126)	122 (114 – 136)	127 (119 – 137)	
Nov 2024	103 (97 – 115)	113 (92 – 131)	116 (104 – 132)	
Dec 2024	82 (77 – 93)	103 (91 – 116)	115 (108 – 120)	
Action Level	>164	>152	>163	
Limit Level		>260		

3.1.3.2 The Summary of Impact 1-hr & 24-hr TSP Exceedance are shown in **Table 3-5**.

Table 3-5 Summary of Impact 1-hr & 24-hr TSP Exceedance

Dust Mon	itoring Station	A	M1	A	M2	AM3	
Parameters	_evel Exceedance	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
1-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

3.1.3.3 No Action / Limit Level exceedance for 1-hr TSP & 24-hr impact monitoring at AM1, AM2 & AM3 was recorded during the reporting period. The Notification of Environmental Quality Limits Exceedances are presented in **Appendix E**.

3.1.4 Recommended Mitigation Measures

- 3.1.4.1 The recommended dust mitigation measures from EIA report are listed as followed:
 - The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.
 - Dust emission from construction vehicle movement is confined within the worksites area.
 - Watering facilities will be provided at every designated vehicular exit point.
 - Good site practice is recommended during construction phase.

3.1.5 Event and Action Plan

3.1.5.1 Should non-compliance of the criteria occur, action in accordance with the action plan in **Table 3-6** shall be carried out.

Table 3-6 Event and Action Plan for Dust Impact

Event	ET	IEC	Contractor
Exceedance of Action Level			
Exceedance for one sample	 Identify source Prepare Notification of Exceedance Inform IEC and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level 	 Verify the Notification of Exceedance Check monitoring data submitted by ET and Contractor's working methods Discuss with ET and Contractor on proposed remedial measures 	 Rectify any unacceptable practice Amend working methods if appropriate
Exceedance for two or more consecutive samples	 Identify source Prepare Notification of Exceedance Inform Contractor and IEC Repeat measurements to confirm findings Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level Discuss with IEC for remedial action required Ensure remedial measures are properly implemented Continue monitoring at daily intervals if exceedance is due to the Project If no exceedance for 3 consecutive days, cease additional monitoring 	 Verify the Notification of Exceedance Check monitoring data submitted by ET and Contractor's working methods Discuss with ET and Contractor on proposed remedial measures Review with analysed results submitted by ET Review the proposed remedial measures by Contractor Supervise the implementation of remedial measures 	 Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate

Event	ET	IEC	Contractor
Exceedance of Limit Level			
Exceedance for one sample	 Identify source Prepare Notification of Exceedance Inform IEC and Contractor Repeat measurement to confirm findings Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below limit level Assess effectiveness of Contractor's remedial actions and keep EPD and IEC informed of the results 	 Verify the Notification of Exceedance Check monitoring data submitted by ET and Contractor's working methods Discuss with ET and Contractor potential remedial actions Supervise the implementation of remedial measures 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate
Exceedance for two or more consecutive samples	 Identify source Prepare Notification of Exceedance Inform IEC and EPD the causes and actions taken for the exceedances Discuss with IEC for remedial action required Ensure remedial measures are properly implemented Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and informed of the results Increase monitoring frequency to confirm findings If exceedance stops, cease additional monitoring 	 Verify the Notification of Exceedance Check monitoring data submitted by ET and Contractor's working methods Discuss amongst ET and Contractor on the potential remedial actions. Review Contractor's remedial actions whenever necessary to assure their effectiveness Supervise the implementation of remedial measures 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant activity of works until the exceedance is abated

4 Noise Monitoring

4.1 Monitoring Requirement

4.1.1 In accordance with the Updated EM&A manual, noise impact monitoring shall be carried out at 2 monitoring stations NM1 and NM2 once a week during normal construction working hour (0700-1900 Monday to Saturday). The minimum logging interval shall be 30 minutes with average of 6 consecutive Leq (5 mins), L₁₀ and L₉₀ shall also be measured at 5 mins intervals.

4.2 Monitoring Locations, Parameters and Frequency

- 4.2.1 According to the Updated EM&A Manual, two monitoring stations namely NM1 and NM2 are selected for the impact monitoring.
- 4.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at NM1 and NM2, the adjusted stations at NM1a and NM2a were agreed with IEC prior to the baseline and impact monitoring. The noise monitoring locations are summarized in Table 4-1 and shown in Figure 2. The frequency and duration are shown in Table 4-2.

Table 4-1 Noise Monitoring Locations

Monitoring Station	Representative for	Type of Measurement
NM1a	Wo Keng Shan Tsuen	Free field
NM2a	Lin Ma Hang	Free field

Remarks:

The contractor passed correspondence including original monitoring locations specified on the Approved EM&A Manual to the village representatives on 26 April 2022. After a meeting with Ta Kwu Ling District Rural Committee (RC) Chairman, representative from the RC and a few villagers on 1 May 2022, all the Village Heads of Wo Keng Shan Tsuen, Heung Yuen Wai and Lin Ma Hang verbally refused to accept our proposal for installation of dust and / or noise monitoring equipment within or next to their villages, for the baseline & impact monitoring.

NM1 Wo Keng Shan Tsuen & NM2 Lin Ma Hang are the noise monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to Tung Lo Hang, Heung Yuen Wai and Wo Keng Shan Tsuen were denied. A search for alternative noise monitoring locations (NM1a & NM2a) was carried out during the site visit.

The Baseline Monitoring Plan has been submitted to IEC and EPD including the proposal of change of monitoring locations on 31 May 2022. This arrangement was conducted between baseline and impact monitoring and has been agreed by the Independent Environmental Checker (IEC) and no comments received from EPD. Noise measurement at NM1a & NM2a will be considered as free-field and a correction of +3dB(A) would be made to the noise monitoring results.

Due to the adjustment of the location of NM1 & NM2 to NM1a & NM2a, the measured noise levels at NM1 & NM2 would represent the noise levels at NM1 & NM2.

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
NM1a and NM2a	Laeq (30mins) average of 6 consecutive Laeq (5min); La10(5min) & La90(5min)	Once a week during normal construction working hour (0700-1900 Monday to Saturday)

4.3 Monitoring Results

4.3.1 The impact noise monitoring results are summarized in **Table 4-3**. The graphical presentations of monitoring data are presented in **Appendix D**.

Table 4-3 Summary of Noise Monitoring Results during normal working hours (07:00-19:00, Monday to Saturday)

	Average Leq, 30min, dB(A) (Range)			
Month	Noise Monitoring Station			
	NM1a	NM2a		
Jan 2024	62.2 (59.6 – 63.2)	54.0 (53.3 – 55.3)		
Feb 2024	60.7 (60.1 – 61.3)	57.0 (55.8 – 57.8)		
Mar 2024	60.4 (60.0 – 60.8)	57.1 (55.2 – 58.6)		
Apr 2024	60.9 (60.1 – 62.5)	54.1 (48.5 – 56.2)		
May 2024	60.6 (60.1 – 61.6)	55.4 (48.1 – 57.4)		
Jun 2024	60.5 (59.3 – 61.3)	57.5 (56.3 – 58.5)		
Jul 2024	60.7 (58.6 – 62.4)	55.5 (50.1 – 58.4)		
Aug 2024	59.9 (59.0 – 60.3)	55.9 (55.0 – 57.4)		
Sep 2024	59.5 (59.0 – 60.3)	57.6 (55.4 – 59.0)		
Oct 2024	60.2 (59.5 – 61.2)	53.2 (49.6 – 54.1)		
Nov 2024	60.0 (58.9 – 60.9)	53.8 (53.1 – 54.7)		
Dec 2024	58.7 (51.8 – 60.1)	55.2 (53.7 – 56.3)		
Action Level	When one documented complaint is received			
Limit Level	>75dB(A)			

Remark:

4.3.2 No particular observations are identified near the monitoring stations during the monitoring period.

^{(1) *} A correction of +3 dB(A) was made to the free field measurements

⁽²⁾ If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

4.3.3 The Summary of Impact Noise Exceedance are shown in **Table 4-4**.

Table 4-4 Summary of Impact Noise Exceedance during the reporting period

Noise Monitoring Station		NM1(a)		NM2(a)	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level
LA _{eq} (30mins)	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

4.3.4 No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix E**.

4.4 Recommended Mitigation Measures

- 4.4.1 The recommended noise mitigation measures from EIA report are listed as followed:
 - 1. Use of good site practices to limit noise emissions by considering the following:
 - Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;
 - Machines and plant (such as trucks, cranes) that may be in intermittent
 use should be shut down between work periods or should be throttled
 down to a minimum;
 - Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;
 - Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;
 - Mobile plant should be sited as far away from NSRs as possible and practicable;
 - Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from onsite construction activities.
 - 2. Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.

4.5 Event and Action Plan

4.5.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 4-5** shall be carried out.

Table 4-5 Event and Action Plan for Construction Noise Monitoring

Event	ET	IEC	Contractor
Exceedance of Action Level	 Identify source, investigate the causes of exceedance Prepare Notification of Exceedance Inform IEC and Contractor Report the results of investigation to IEC, and Contractor Discuss with Contractor and IEC for formulate remedial measures Ensure remedial measures are properly implemented Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring 	 Verify the Notification of Exceedance Review the analysed results submitted by ET Discuss with ET, and Contractor on the potential remedial actions Review the proposed remedial measures Supervise the implementation of remedial measures 	Submit noise mitigation proposals to IEC Implement the agreed noise mitigation proposals
Exceedance of Limit Level	 Identify source, investigate the causes of exceedance Prepare Notification of Exceedance Inform IEC and Contractor Repeat measurements to confirm findings Discuss with Contractor and IEC for remedial measures Ensure remedial measures are properly implemented Assess effectiveness of Contractor's remedial actions and keep IEC and EPD informed of the results Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring 	 Verify the Notification of Exceedance Review the analysed results submitted by ET Discuss with ET, and Contractor on the potential remedial actions Review the proposed remedial measures Supervise the implementation of remedial measures 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by project proponent until the exceedance is abated.

5 Water Quality Monitoring

5.1 Groundwater Monitoring

5.1.1 Monitoring Requirement

5.1.1.1 In accordance with the Updated EM&A manual, groundwater quality monitoring shall be carried out at least once per month at the 35 designated groundwater monitoring locations (i.e ED1 to ED35). Based on the existing construction programme, site clearance and site formation works for future landfilling area are in progress. The groundwater monitoring locations ED1 to ED35 will be installed after the site formation work of the landfilling area. No groundwater monitoring is required before the completion of site formation work of the landfilling area.

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

5.2.1.1 In accordance with the Updated EM&A manual, impact surface water quality monitoring was carried out at the two designated surface water discharge points (i.e WM1 and WM2) for once per month from commencement of construction works of the Project.

5.2.2 Monitoring Locations, Parameters and Frequency

- 5.2.2.1 Impact surface water monitoring was carried out at WM1 and WM2. The monitoring locations are indicated in **Table 5-1** and **Figure 2**.
- 5.2.2.2 The monitoring parameters, frequency and duration of surface water quality monitoring are summarized in **Table 5-2**.

Table 5-1 Surface water quality monitoring locations

Monitoring	Location	Coordinate	s (HK Grid)
Station	Location	Easting	Northing
WM1	Upstream of Lin Ma Hang River	836665	845020
WM2	Ping Yuen River	835592	844186

Table 5-2 Surface water quality monitoring Parameters, Frequency and Duration

Parameter	Frequency
pH, Electrical conductivity, DO, Turbidity, SS, Alkalinity, COD, BOD ₅ , TOC, Ammonianitrogen, TKN, Nitrate, Sulphate, Sulphite, Phosphate, Chloride, Sodium, Mg, Ca, K, Fe, Ni, Zn, Mn, Cu, Pb, Cd, Coliform Count, Oil and Grease	Once per month

5.2.3 Monitoring Results

5.2.3.1 The summary of monitoring results is presented in **Table 5-3** & **Table 5-4**. Detailed graphical presentations at each monitoring station of surface water quality (DO, SS and Turbidity) at the monitoring stations are given in **Appendix D**.

Table 5-3 Summary of Impact Surface Water Monitoring Results at WM1

	Monitoring Station WM1					
Monitoring	Monitoring Results					
Parameter(s)	Jan 2024	Feb 2024	Mar 2024	Action Level	Limit Level	
рН	7.5	7.5	6.6	>7.7	>7.8	
DO in mg/L	7.7	7.6	7.6	<7.4	<4	
Turbidity in NTU	6.0	8.3	4.4	>9.2	>9.5	
Electrical Conductivity in µS/cm	93	123	121			
SS in mg/L	8.2	2.0	4.5	>9.7	>11.4	
Alkalinity in mg/L	16	<1	8			
COD in mg/L	6	<5	<5	_		
BOD₅ in mg/L	<2	<2	<2			
TOC in mg/L	<1	<1	3	-		
Ammonia-nitrogen in mg/L	0.02	0.02	0.04			
TKN in mg/L	0.3	0.2	0.2			
Nitrate in mg/L	0.03	0.40	0.02			
Sulphate in mg/L	4	104	11			
Sulphite in mg/L	<2	<2	<2			
Phosphorus as P in mg/L	0.0	0.02	<0.01			
Chloride in mg/L	6	5	7			
Sodium in µg/L	8060	4430	8540			
Mg in µg/L	450	590	520			
Ca in μg/L	3130	5510	3580			
K in μg/L	400	1530	360			
Fe in µg/L	900	60	680	_		
Ni in μg/L	<1	1.0	<1			
Zn in μg/L	<10	35	<10	_		
Mn in µg/L	52	9	89	_		
Cu in µg/L	<1	2.0	<1			
Pb in µg/L	<1	<1	<1			
Cd in µg/L	<2	<0.2	<0.2			
Coliform Count in CFU/100mL	1400	Not Detected	28			
Oil and Grease in mg/L	<5	<5	<5			

	Monitoring Station WM1					
Monitoring	N	lonitoring Resu				
Parameter(s)	Apr 2024	May 2024	Jun 2024	Action Level	Limit Level	
pН	6.0	6.9	6.5	>7.7	>7.8	
DO in mg/L	8.1	8.5	8.2	<7.4	<4	
Turbidity in NTU	3.0	7.1	4.2	>9.2	>9.5	
Electrical Conductivity in µS/cm	92	47	56			
SS in mg/L	2.0	2.9	3.5	>9.7	>11.4	
Alkalinity in mg/L	5	9	4			
COD in mg/L	10	9	7			
BOD₅ in mg/L	<2	<2	2.0			
TOC in mg/L	2	2	4	_		
Ammonia-nitrogen in mg/L	0.06	0.02	0.12			
TKN in mg/L	0.3	0.3	1.0			
Nitrate in mg/L	0.05	0.05	0.04			
Sulphate in mg/L	24	3	9			
Sulphite in mg/L	<2	<2	<2			
Phosphorus as P in mg/L	<0.01	0.01	0.01			
Chloride in mg/L	9	6	8			
Sodium in µg/L	10800	6630	8400			
Mg in µg/L	820	400	460	-		
Ca in µg/L	5910	2440	3000			
K in μg/L	620	570	870			
Fe in μg/L	570	220	290			
Ni in µg/L	<1	<1	1.0			
Zn in μg/L	18	<10	32	_		
Mn in µg/L	105	24	26			
Cu in µg/L	2.0	2.0	5.0			
Pb in μg/L	<1	<1	1.0			
Cd in µg/L	<0.2	<0.2	<0.2			
Coliform Count in CFU/100mL	4200	4400	6200			
Oil and Grease in mg/L	<5	<5	<5			

	Monitoring Station WM1					
Monitoring	N	lonitoring Resu	_			
Parameter(s)	Jul 2024	Aug 2024	Sep 2024	Action Level	Limit Level	
рН	6.7	6.9	7.0	>7.7	>7.8	
DO in mg/L	7.4	7.6	8.6	<7.4	<4	
Turbidity in NTU	5.1	2.1	4.2	>9.2	>9.5	
Electrical Conductivity in µS/cm	59	54	47			
SS in mg/L	6.3	2.4	2.9	>9.7	>11.4	
Alkalinity in mg/L	16	15	12			
COD in mg/L	9	8	<5	_		
BOD₅ in mg/L	<2	<2	<2			
TOC in mg/L	4	1	1			
Ammonia-nitrogen in mg/L	0.12	0.10	0.02			
TKN in mg/L	0.6	0.7	0.3			
Nitrate in mg/L	0.02	0.02	0.08			
Sulphate in mg/L	2	2	2			
Sulphite in mg/L	<2	<2	<2			
Phosphorus as P in mg/L	0.02	0.01	0.02			
Chloride in mg/L	5	6	5			
Sodium in µg/L	6970	7250	5940			
Mg in µg/L	510	480	460	-		
Ca in μg/L	3380	2940	2520			
K in μg/L	780	630	670			
Fe in μg/L	450	310	220			
Ni in μg/L	<1	<1	<1			
Zn in μg/L	<10	11	<10			
Mn in µg/L	37	30	21			
Cu in µg/L	2.0	7	1.0			
Pb in µg/L	<1	<1	<1			
Cd in µg/L	<0.2	<0.2	<0.2			
Coliform Count in CFU/100mL	Not Detected	1500	230			
Oil and Grease in mg/L	<5	<5	<5			

	Monitoring Station WM1					
Monitoring	N	lonitoring Resu				
Parameter(s)	Oct 2024	Nov 2024	Dec 2024	Action Level	Limit Level	
рН	7.2	6.4	7.0	>7.7	>7.8	
DO in mg/L	8.2	7.5	7.7	<7.4	<4	
Turbidity in NTU	2.9	4.7	1.3	>9.2	>9.5	
Electrical Conductivity in µS/cm	57	63	52			
SS in mg/L	2.7	6.6	2.8	>9.7	>11.4	
Alkalinity in mg/L	16	17	14			
COD in mg/L	6	8	5			
BOD₅ in mg/L	2.0	2.0	<2			
TOC in mg/L	1	3	<1	_		
Ammonia-nitrogen in mg/L	0.02	0.06	0.02			
TKN in mg/L	0.2	0.9	0.2			
Nitrate in mg/L	0.03	0.02	0.03			
Sulphate in mg/L	2	2	3			
Sulphite in mg/L	<2	<2	<2			
Phosphorus as P in mg/L	0.01	<0.01	0.01			
Chloride in mg/L	6	7	6			
Sodium in µg/L	7290	8470	7460			
Mg in µg/L	470	450	410	-		
Ca in μg/L	3100	3520	3070			
K in μg/L	360	590	350			
Fe in µg/L	250	580	430			
Ni in µg/L	<1	<1	<1			
Zn in μg/L	<10	39	<10			
Mn in µg/L	22	42	36			
Cu in µg/L	1.0	12.0	2.0			
Pb in µg/L	<1	1.0	<1			
Cd in µg/L	<0.2	<0.2	<0.2			
Coliform Count in CFU/100mL	290	18000	41			
Oil and Grease in mg/L	<5	<5	<5			

Table 5-4 Summary of Impact Surface Water Monitoring Results at WM2

	Monitoring Station WM2				
Monitoring Parameter(s)	N	Ionitoring Resul	lts	Action Level	Limit Level
i didilieter(3)	Jan 2024	Feb 2024	Mar 2024	Action Level	Limit Level
рН	7.5	7.4	7.2	>7.6	>7.7
DO in mg/L	7.8	7.5	6.5	<5	<4
Turbidity in NTU	18.5	32.7	78.6	>108.3	>108.9
Electrical Conductivity in µS/cm	225	207	615		
SS in mg/L	14.7	12.3	83.2	>94.5	>94.7
Alkalinity in mg/L	56	60	62		
COD in mg/L	7	<5	9	_	
BOD₅ in mg/L	<2	<2	2.0		
TOC in mg/L	1	1	4	_	
Ammonia-nitrogen in mg/L	0.23	0.07	0.03		
TKN in mg/L	0.5	0.2	0.9		
Nitrate in mg/L	0.22	0.27	0.30		
Sulphate in mg/L	24	29	10	_	
Sulphite in mg/L	<2	<2	<2		
Phosphorus as P in mg/L	<0.01	<0.01	<0.01		
Chloride in mg/L	15	7	14		
Sodium in µg/L	8850	7290	9010		
Mg in µg/L	1600	1450	1350	- -	
Ca in µg/L	27400	25400	20000		
K in µg/L	3840	3490	4020		
Fe in µg/L	1920	1620	7340		
Ni in µg/L	5	1	3		
Zn in µg/L	18	10	36	-	
Mn in µg/L	836	822	2290	-	
Cu in µg/L	2	1	4		
Pb in µg/L	1	<1	5		
Cd in µg/L	<2	<0.2	<0.2		
Coliform Count in CFU/100mL	12000	3400	4200		
Oil and Grease in mg/L	<5	<5	<5		

	Monitoring Station WM2				
Monitoring	N	Ionitoring Resul			
Parameter(s)	Apr 2024	May 2024	Jun 2024	Action Level	Limit Level
рН	7.1	6.9	7.1	>7.6	>7.7
DO in mg/L	8.0	8.8	8.7	<5	<4
Turbidity in NTU	74.6	17.1	8.6	>108.3	>108.9
Electrical Conductivity in µS/cm	253	111	131		
SS in mg/L	67.6	13.8	5.1	>94.5	>94.7
Alkalinity in mg/L	66	28	37		
COD in mg/L	14	6	8	_	
BOD₅ in mg/L	<2	<2	<2		
TOC in mg/L	2	1	3		
Ammonia-nitrogen in mg/L	0.16	0.03	0.07		
TKN in mg/L	0.6	0.2	0.5		
Nitrate in mg/L	0.90	0.30	0.29		
Sulphate in mg/L	42	24	26	_	
Sulphite in mg/L	<2	<2	<2		
Phosphorus as P in mg/L	<0.01	<0.01	<0.01		
Chloride in mg/L	11	5	4		
Sodium in µg/L	12300	5190	4950		
Mg in µg/L	1660	890	1220	-	
Ca in μg/L	34400	16200	20800		
K in μg/L	6970	1980	2200		
Fe in µg/L	3560	1030	520		
Ni in μg/L	2	<1	<1		
Zn in µg/L	40	11	75	-	
Mn in µg/L	694	393	308		
Cu in µg/L	4	1	2		
Pb in µg/L	7	2	<1		
Cd in µg/L	<0.2	<0.2	<0.2		
Coliform Count in CFU/100mL	4900	2100	5000		
Oil and Grease in mg/L	<5	<5	<5		

	Monitoring Station WM2				
Monitoring	N	Ionitoring Resul			
Parameter(s)	Jul 2024	Aug 2024	Sep 2024	Action Level	Limit Level
рН	6.9	7.1	7.3	>7.6	>7.7
DO in mg/L	7.8	7.9	8.9	<5	<4
Turbidity in NTU	34.3	19.3	14.2	>108.3	>108.9
Electrical Conductivity in µS/cm	147	130	155		
SS in mg/L	22.6	12.8	10.6	>94.5	>94.7
Alkalinity in mg/L	41	33	42		
COD in mg/L	<5	19	7		
BOD₅ in mg/L	<2	<2	<2		
TOC in mg/L	2	4	2		
Ammonia-nitrogen in mg/L	0.18	0.07	0.09		
TKN in mg/L	0.4	0.3	0.4		
Nitrate in mg/L	0.27	0.17	0.23		
Sulphate in mg/L	25	19	26		
Sulphite in mg/L	<2	<2	<2		
Phosphorus as P in mg/L	<0.01	<0.01	<0.01		
Chloride in mg/L	6	5	4		
Sodium in µg/L	6320	5090	5290		
Mg in µg/L	1350	1170	1530	-	
Ca in μg/L	19800	16300	22400		
K in μg/L	2700	1680	1940		
Fe in μg/L	1720	940	380		
Ni in µg/L	<1	<1	<1		
Zn in μg/L	30	18	16		
Mn in µg/L	577	381	578		
Cu in µg/L	2	1	2		
Pb in μg/L	2	1	<1		
Cd in µg/L	<0.2	<0.2	<0.2		
Coliform Count in CFU/100mL	4000	2100	Not Detected		
Oil and Grease in mg/L	<5	<5	<5		

	Monitoring Station WM2					
Monitoring	N	lonitoring Resul				
Parameter(s)	Oct 2024	Nov 2024	Dec 2024	Action Level	Limit Level	
рН	7.2	6.4	7.0	>7.6	>7.7	
DO in mg/L	8.0	6.2	7.7	<5	<4	
Turbidity in NTU	5.6	12.9	79.1	>108.3	>108.9	
Electrical Conductivity in µS/cm	155	163	199			
SS in mg/L	4.6	22.2	87.2	>94.5	>94.7	
Alkalinity in mg/L	28	45	56			
COD in mg/L	7	8	26			
BOD₅ in mg/L	<2	<2	<2			
TOC in mg/L	2	2	3	_		
Ammonia-nitrogen in mg/L	0.20	0.22	0.12			
TKN in mg/L	0.6	0.5	0.6			
Nitrate in mg/L	0.13	0.26	0.22			
Sulphate in mg/L	12	15	24			
Sulphite in mg/L	<2	<2	<2			
Phosphorus as P in mg/L	<0.01	<0.01	<0.01			
Chloride in mg/L	5	10	10			
Sodium in µg/L	5560	7890	7910			
Mg in µg/L	910	1280	1660	-		
Ca in µg/L	11600	18700	24500			
K in ⊬g/L	1370	2770	3360			
Fe in µg/L	1200	2640	4150			
Ni in μg/L	<1	<1	2			
Zn in μg/L	23	30	59	-		
Mn in µg/L	678	959	844			
Cu in µg/L	2	4	8			
Pb in µg/L	<1	2	9			
Cd in µg/L	<0.2	<0.2	<0.2			
Coliform Count in CFU/100mL	450	1400	4700			
Oil and Grease in mg/L	<5	<5	<5			

5.2.3.2 The Summary of Impact Surface Water Quality Exceedance are shown in Table 5-5.

Table 5-5 Summary of Impact Surface Water Quality Exceedance during the reporting period

Surface Water Quality Monitoring Station		W	M1	W	WM2	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level	
рН	Exceedance Date	-	-	-	-	
	Exceedance Count	0	0	0	0	
DO	Exceedance Date	-	-	-	-	
	Exceedance Count	0	0	0	0	
Turbidity	Exceedance Date	-	-	-	-	
	Exceedance Count	0	0	0	0	
SS	Exceedance Date	-	-	-	-	
	Exceedance Count	0	0	0	0	

Remarks: * equal to non-project related

5.2.3.3 No exceedance of Action and Limit Levels of surface water monitoring was recorded during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in Appendix E.

5.2.4 Recommended Mitigation Measure

- 5.2.4.1 The recommended surface water mitigation measures from EIA report are listed as followed:
 - Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.
 - The overall slope of the site should be kept to a minimum to reduce the erosive potential
 of surface water flows.
 - The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions.
 - All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads.
 - Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.
 - Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.

5.2.5 Event and Action Plan

5.2.5.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 5-6** shall be carried out.

Table 5-6 Event and Action Plan for Water Quality

Event	ET	IEC	Contractor
Action level being exceeded by one sampling day	 Repeat in situ measurement to confirm findings Identify source(s) of impact Prepare Notification of Exceedance Inform IEC and Contractor Check monitoring data, all plant, equipment and Contractor's working methods Repeat measurement on next day of exceedance 	Verify Notification of Exceedance Check monitoring data and Contractor's working methods	Rectify unacceptable practice Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	 Repeat in situ measurement to confirm findings Identify source(s) of impact Prepare Notification of Exceedance Inform IEC and Contractor Check monitoring data, all plant, equipment and Contractor's working methods Discuss with Contractor and IEC for remedial measures Ensure mitigation measures are implemented Increase the monitoring frequency to daily until no exceedance of Action level Repeat measurement on next day of exceedance 	 Verify Notification of Exceedance Check monitoring data and Contractor's working method Discuss with ET and Contractor on possible remedial actions Review the proposed mitigation measures Supervise the implementation of mitigation measures 	 Submit proposal of additional mitigation measures to IEC of notification Implement the agreed mitigation measures Amend proposal if appropriate

Event	ET	IEC	Contractor
Limit Level being exceeded by one sampling day	 Repeat in situ measurement to confirm findings Identify source(s) of impact Prepare Notification of Exceedance Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC and Contractor Ensure mitigation measure are implemented 	 Verify Notification of Exceedance Check monitoring data submitted By ET and Contractor's working method Discuss with ET and Contractor on possible remedial actions Review the proposed mitigation measures Supervise the implementation of mitigation measures 	 Critically review the working method Rectify unacceptable practice Take immediate corrective actions to avoid further exceedance Submit proposal of mitigation measures to IEC Implement the agreed mitigation measures
Limit level being exceeded by two or more consecutive sampling days	 Repeat in situ measurement to confirm findings Identify source(s) of impact Prepare Notification of Exceedance Inform IEC, contractor and EPD Check monitoring data, all plant, equipment and Contractor's working methods Discuss mitigation measures with IEC and Contractor Ensure mitigation measure are implemented 	 Verify Notification of Exceedance Check monitoring data submitted by ET and Contractor's working method Discuss with ET and Contractor on possible remedial actions Review the proposed mitigation measures Supervise the implementation of mitigation measures 	 Critically review the working method Rectify unacceptable practice Take immediate corrective actions to avoid further exceedance Submit proposal of mitigation measures to IEC Implement the agreed mitigation measures Resubmit proposals if problem still not under control Slow down or to stop relevant activity until exceedance is abated

6 Waste Management

- 6.1 Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of general refuse, steels and paper/cardboard packaging materials. Steel materials generated from the Project were also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in **Appendix F**.
- **6.2** The recommended waste management mitigation measures from EIA report are listed as followed:
 - Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010.
 - Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills.
 - Proper areas should be designated for waste segregation and storage wherever site conditions permit.
 - Maximise the use of reusable steel formwork to reduce the amount of C&D material.
 - Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.
 - On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste.
 - The sorted public fill and C&D waste should be properly reused.
 - Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather.

7 Landfill Gas Monitoring

7.1 Monitoring Requirement during Construction

Monitoring for Construction Works

- 7.1.1 Intrinsically safe portable gas detectors should be used during excavation or when working in any confined spaces, which have the potential for presence of LFG and risk of explosion or asphyxiation. The monitoring equipment should alarm, both audibly and visually, when the concentrations of the following gases were exceeded:
 - CH₄: >10% Lower Explosion Limit (LEL);
 - CO₂: >0.5%; and
 - O₂: <18% by volume.

7.2 Monitoring Location

- 7.2.1 During the construction works within the NENT Landfill Extension site with excavation of 1m deep or more, LFG concentrations should be monitored before entry and periodically during the progress of works. If drilling is required, the procedures for safety management and working procedures as stipulated in EPD's Landfill Gas Hazard Assessment Guidance Note should be strictly adopted.
- 7.2.2 The monitoring frequency and areas to be monitored should be set down prior to commencement of groundworks by the Safety Officer. All measurements in excavations should be made with the monitoring tube located not more than 10mm from the exposed ground surface. Monitoring of excavations should be undertaken as follows:
- 7.2.3 For excavation works deeper than 1m, measurements should be made:
 - · at ground surface prior to excavation;
 - immediately before any worker enters the excavation;
 - at the beginning of each working day for the entire period the excavation remains open; and
 - periodically through the working day whilst workers are in the excavation.
- 7.2.4 For excavation between 300mm and 1m deep, measurements should be made:
 - · directly after the excavation has been completed; and
 - periodically whilst the excavation remains open.
- 7.2.5 For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer.
- 7.2.6 The locations of LFG monitoring locations during reporting period are shown in **Table 7-1**. The Site formation layout plan is shown in **Figure 2** and the Layout of LFG monitoring locations is presented in **Figure 3**.

Table 7-1 Locations of LFG Monitoring during reporting period

Monitoring Period	Monitoring Location	Type of works
Jan to Apr 2024	Portion A +50 mpD to 70 mpD Platform	
May 2024	Portion A +50 mpD to 70 mpD Platform & Portion B2/E1	Excavation Works
Jun to Nov 2024	Portion A +50 mpD to 70 mpD Platform	Excavation vvoiks
Dec 2024	Portion A +50 mpD to 70 mpD Platform & Portion B2/E1	

7.3 Monitoring Results

7.3.1 The LFG monitoring was conducted at designated location of Portion A +50 mpD to 70 mpD Platform (Conducted on working days) during the reporting period. The LFG monitoring was conducted at designated location of Portion B2/E1 (Conducted on working days) in May & December 2024.The LFG monitoring results are summarized in **Table 7-2**.

Table 7-2 Summary of LFG Monitoring Results

Table 7-2	Summary of LFG Monitoring Results Monitoring Parameter(s)				
LFG	Monitoring				
Monitoring Station	Date	CH₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %
Station		Average Monitoring Results (Range)			
	Jan 2024	0	0	0	20.1
	0411 202 1	Ū		- Control of the cont	(20.0 – 20.2)
	Feb 2024	0	0	0	20.2
Portion A	1 CD 2024	U	O .	O	(20.0 - 20.2)
+50 mpD to	Mar 2024	0	0	0	20.1
70 mpD	IVIAI ZUZŦ	0	0	· ·	(20.1 – 20.2)
Platform	Apr 2024	0	0	0	20.1
	Apr 2024	U	U	U	(20.0 - 20.1)
	May 2024	0	0	0	20.1
	May 2024	U	U	0	(20.0 - 20.2)
Portion	May 2024	0	0	0	20.1
B2/E1	May 2024	U	U	0	(20.0 - 20.2)
	I 0004	0		0	20.1
	Jun 2024	0	0	U	(20.0 - 20.2)
	Jul 2024	0	0	0	20.1
	Jul 2024	U	U	U	(20.0 - 20.2)
	Aug 2024	0	0	0	20.0
Portion A	Aug 2024	U	U	0	(20.0 – 20.1)
+50 mpD to	Con 2024	0	0	0	20.0
70 mpD	Sep 2024	U	U	U	(20.0 - 20.1)
Platform	Oct 2024	0	0	0	20.1
	OCI 2024	U	0	0	(20.0 – 20.1)
	Nov 2024	0	0	0	20.1
	NOV 2024	U	U	0	(20.0 - 20.1)
	Dec 2024	0	0	0	20.0
	Dec 2024	U	U	0	(20.0 – 20.1)
Portion	Dec 2024	0	0	0	20.0
B2/E1	Dec 2024	U	U	U	(20.0 – 20.1)
Actio	n Level	>10% LEL		>0.5%** CO ₂	<19%
Limit Level		>20% LEL		>1.5% CO ₂	<18%

^{*} LEL: Lower Explosive Limit - concentrations in air below which there is not enough fuel to continue an explosion.

7.3.2 The Summary of Landfill Gas Exceedance are shown in Table 7-3.

^{**} This Limit Level of CO₂ at 0.5% is set for reference only, assuming no CO₂ emission from a particular location.

Table 7-3 Summary of Landfill Gas Exceedance during the reporting period

Landfill Gas M	onitoring Station	Portion A +50 mpD to 70 mpD Platform		Portion B2/E1	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level
CH ₄	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
CO ₂	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
O ₂	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

- 7.3.3 No exceedance of Action and Limit Levels of LFG was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix E**.
- 7.3.4 No effect that arose from the other special phenomena and work progress of the concerned site was noted during the reporting period.

7.4 Recommended Mitigation Measures

- 7.4.1 The recommended landfill gas mitigation measures from EIA report are listed as followed:
 - Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).
 - Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.
 - No smoking or burning should be permitted on-site.
 - Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.
 - No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.
 - Adequate fire fighting equipment should be provided on-site.
 - Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.
 - Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.
 - 'Permit to Work' system should be implemented.

 Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.

7.5 Event and Action Plan (EAP)

7.5.1 Should non-compliance of the criteria occur, action in accordance with the action plan in **Table 7-4** shall be carried out.

Table 7-4 Action Plan for the monitoring during construction phase

Parameter	Monitoring Result	Action
Oxygen (O ₂)	Action Level <19% O ₂	Ventilate trench/void to restore O ₂ to >19%
	Limit Level <18% O ₂	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O ₂ to >19%
Methane (CH ₄)	Action Level >10% LEL*	Prohibit hot works Increase ventilation to restore CH ₄ to <10% LEL
	Limit Level >20% LEL*	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH ₄ to <10% LEL
Carbon dioxide (CO ₂)	Action Level** >0.5%** CO ₂	Ventilate to restore CO ₂ to <0.5%
	Limit Level >1.5% CO ₂	Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO ₂ to <0.5%

^{*} LEL: Lower Explosive Limit - concentrations in air below which there is not enough fuel to continue an explosion.

Depending on the baseline CO_2 levels, the Action Level at a particular location will be changed.

^{**} This Action Level of CO₂ at 0.5% is set for reference only, assuming no CO₂ emission from a particular location.

8 Landscape and Visual

8.1 Monitoring Requirement

- 8.1.1 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.
- 8.1.2 All relevant environmental mitigation measures listed in the approved EIA Report and the Updated EM&A Manual, and their implementation status are summarised in **Appendix G**.

8.2 Result and Observation

- 8.2.1 Measures to mitigate the landscape and visual impacts during the construction phase has been checked to ensure compliance with the intended aims of the measures within the reporting period. The progress of the engineering works are regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken.
- 8.2.2 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

9 Cultural Heritage

- 9.1.1 The Mitigation measures for preservation of the cultural landscape feature located within the project area was conducted before commencement of construction of the project based on the requirement of Survey Report and Mapping Records for Boulder Paths BP1 & 2 & Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX.
- 9.1.2 The survey and mapping works carried out on 25 April 2022 and the verification works carried out on 23 August 22 confirmed that both 2 boulder paths BP1 and BP2 are fall outside the site boundary and the Project area.
- 9.1.3 All the affected graves within the waste boundary have been removed in accordance with section 119(1) of the Public Health and Municipal Services Ordinance (Cap 132). Removal of the graves as shown on Figure 2 attached to the FEP was proven by the visit of graves on 22 August 2022. All the graves as shown on Figure 2 attached to the FEP were abandoned and removed and no mitigation or preservation measures is necessary.
- 9.1.4 The Survey Report and Mapping Records for Boulder Paths BP1 & 2 was certified by ET on 10 Oct 2022, was verified by IEC and submitted to EPD on 12 Oct 2022. The Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX was certified by ET, was verified by IEC and submitted to EPD on 15 Oct 2022. No later than four weeks before commencement of construction of the project in accordance with Condition 2.4 of the FEP-01/292/2007.
- 9.1.5 Implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit. The permanent fencing locations are shown in **Appendix H**. In case of any presence of undiscovered grave during construction phase, AMO will be informed as soon as possible.

10 Ecological Monitoring

- 10.1.1 The post-transplantation monitoring had been completed in October 2023. No further post-transplantation monitoring will be conducted in accordance with the requirement of the approved Transplantation Proposal for Plant Species of Conservation Importance (Rev.1).
- 10.1.2 The post-translocation monitoring had been completed in July 2023. No further post-translocation monitoring will be conducted in accordance with the requirements of the Revised Translocation Proposal for the Endemic Freshwater Crab Somanniathelphusa zanklon.
- 10.1.3 The details of requirements, monitoring results and site inspection with photos for the post-translocation monitoring and post-transplantation monitoring would be reported separately.
- 10.1.4 The details of requirements, monitoring results and site inspection with photos for the post-translocation monitoring and post-transplantation monitoring would be reported separately.
- 10.1.5 The milestone of the ecological monitoring is presented in **Table 10-1**. The softcopies of the submissions are provided in https://www.nentx-ema.com/ep-submissions/.

Table 10-1 Milestone of the Ecological Monitoring

)-1 Milestone of the Ecological Monitoring					
Type of Monitoring	Monitoring Event No.	Monitoring Date			
Post-	1 st	24 Nov 2022			
transplantation	2 nd	9 Dec 2022			
Monitoring	3 rd	21 Dec 2022			
	4 th	13 Jan 2023			
	5 th	26 Jan 2023			
	6 th	8 Feb 2023			
	7 th	24 Feb 2023			
	8 th	20 Mar 2023			
	9 th	21 Apr 2023			
	10 th	12 May 2023			
	11 th	16 Jun 2023			
	12 th	18 Jul 2023			
	13 th	11 Aug 2023			
	14 th	15 Sep 2023			
	15 th	13 Oct 2023			
Post-	1 st (Aug 2022)	29 Aug 2022			
translocation	2 nd (Sep 2022)	28 Sep 2022			
Monitoring	3 rd (Oct 2022)	28 Oct 2022			
	4 th (Nov 2022)	22 Nov 2022			
	5 th (Dec 2022)	29 Dec 2022			
	6 th (Jan 2023)	30 Jan 2023			
	7 th (Feb 2023)	24 Feb 2023			
	8 th (Mar 2023)	20 Mar 2023			
	9 th (Apr 2023)	19 Apr 2023			
	10 th (May 2023)	17 May 2023			
	11 th (Jun 2023)	7 Jun 2023			
	12 th (Jul 2023)	12 Jul 2023			

11 Site Inspection and Audit

- 11.1.1 Site Inspection and audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project Site.
- 11.1.2 Total 53 weekly environmental site inspections were conducted during the reporting period. 12 of them were the joint environmental site inspections with the representatives of ER, Contractor, IEC and ET. There was no noncompliance recorded during the site inspections.
- 11.1.3 Details of observations and recommendations are summarized in Table 11-1.

Table 11-1 Observations and Recommendations of Site Audit

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	02 Jan 2024	Observation: Unpaved main haul road was dry and fugitive dust was observed, especially at Portion E4.	The Contractor was advised to provide enough water sprayers for short-term dust control to ensure that all unpaved roads are wetted and also implement other measurements like shotcrete to pave all main haul road for long term dust control.
	08 Jan 2024	Observation: The unpaved main haul road at SBA was dry and fugitive dust was observed.	The Contractor was advised to regularly water the unpaved main haul road to ensure it stays moist and to pave it for long-term dust control.
	15 Jan 2024	Observation: Dusty material (Cement) at SBA without covered by impervious sheet properly or placed in an area sheltered on the top and the 3 side was observed.	The Contractor was recommended that the loading, unloading or transfer, handing or storage of cement should be cover entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides to prevent dust suppression or sprayed with water to maintain the entire surface wet. They had also been recommended to provide training courses on dust control during the shotcrete process.
	29 Jan 2024	Observation: Stockpiling of dusty material without covered by impervious sheet at SBA was found.	The Contractor was recommended that dusty materials should be covered by impervious sheet to prevent dust dispersion.
	29 Jan 2024	Reminder: The Contractor was reminded that activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA shall be carried out in a totally enclosed system or facility at Portion E4 to prevent dust dispersion.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	5 Feb 2024	Observation: The exposed slope area at Portion B2 without covered by impervious sheet was observed.	The Contractor was advised to cover the exposed slope area by impervious sheet for short-term slope protection, and shotcrete for long-term slope protection.
	15 Feb 2024	Observation: The main haul road is dry and fugitive dust was observed at Portion E4 and SBA.	The Contractor was reminded to increase the frequency of watering to ensure that the surface of assess road is wetted and to prevent dust dispersion.
	15 Feb 2024	Reminder: The Contractor was reminded that the stockpiling of dusty material shall be covered by impervious sheet.	
	26 Feb 2024	Observation: Unpaved main haul road was dusty and fugitive dust was observed at Portion SBA and Portion E4.	The Contractor was advised to increase the frequency of watering to ensure that the unpaved haul road surface is wetted and prevent dust dispersion.
	4 Mar 2024	Observation: More than 20 bags of cement or dry PFA and activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA without covered by impervious sheet or placed in an area sheltered on the top and 3 sides were observed at SBA.	The Contractor was advised that every stock of more than 20 bags of cement or dry PFA, and activities involving bulk cement or dry PFH, should be covered by impervious sheeting or placed in an area sheltered on the top and three sides.
	4 Mar 2024	Observation: The exposed earth slope at Portion B1-2 shall be covered by impervious sheet for short-term slope protection and shotcrete within 6 months after last construction activities.	The Contractor was recommended to provide impervious sheet for portion B1-2 slope protection to prevent dust dispersion.
	11 Mar 2024	Observation: The exposed slope surface without covered by impervious sheet temporarily at Portion B2 was observed.	The Contractor was reminded that the exposed slope surface should be covered by impervious sheet temporarily and shotcreted for long-term slope protection at Portion B2.
	25 Mar 2024	Observation: NRMM label shall be fixed on the generator and excavator at Portion E3-1A.	The Contractor was reminded to display NRMM label on the generator and excavator at Portion E3-1A.
	25 Mar 2024	Observation: Unpaved main haul road at Portion E3-1A and E4 shall be wetted by water spraying.	The Contractor was advised to increase the frequency of watering to ensure that the surface of the unpaved haul road is wetted and to prevent dust dispersion.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	02 Apr 2024	Observation: Unpaved main haul road at SBA and Portion E3-1A are dry and fugitive dust were found.	The Contractor was advised to increase the frequency of watering to prevent dust dispersion.
	02 Apr 2024	Observation: Stockpiling of excavated materials at SBA without covering impervious sheet were found.	The Contractor was recommended that stockpiling of excavated materials at SBA shall be covered by impervious sheet or removed.
	08 Apr 2024	Observation: The section between the site entrance / exit where located from main access road to Portion E3-1 without paving with concrete, bituminous materials or hardcores and without wheel washing facilities were found.	The Contractor was recommended that the section between the site entrance / exit where located from main access road to Portion E3-1 and wheel washing facilities within 30m should be paved with concrete, bituminous materials or hardcores. The wheel washing facilities with high pressure water jet should be provided at the entrance / exit.
	15 April 2024	Reminder: The Contractor was reminded that the stockpiling of dusty materials should be covered entirely by impervious sheeting at SBA to prevent dust dispersion.	
	29 Apr 2024	Observation: The exposed slope surface at Portion E4 shall be covered by tarpaulin sheets properly.	The Contractor was advised to provide impervious sheet to cover the exposed slope surface properly at Portion E4 for slope protection.
	13 May 2024	Observation: The activity of handing of bulk cement or dry PFA shall be carried out at a totally enclosed system or facility at Portion B2-E1.	The Contractor was advised that the activity of handing of bulk cement or dry PFA carried out in a totally enclosed system or facility or placed in an area sheltered on the top and 3 sides to prevent dust dispersion.
	27 May 2024	Observation: Working area at Portion E3 is dry and fugitive dust was observed.	The Contractor was reminded to arrange for watering regularly at the work sites of Portion E3 to ensure the work sites are wetted and to prevent dust dispersion.
	27 May 2024	Observation: The generator at Portion B2-E1 without NRMM label was observed.	The Contractor was recommended that NRMM label should be fixed and displayed on the generator at Portion B2-E1.
	11 June 2024	Observation: The stockpiling of dusty materials without covering by impervious sheets properly is observed at SBA.	The Contractor was advised that the stockpiling of dusty materials should be covered properly and entirely by impervious sheeting to prevent dust dispersion at SBA.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	24 June 2024	Reminder:	
		The Contractor was reminded that the frequency of water spraying should be increased under the sunny weather.	
	08 Jul 2024	Reminder:	
		The Contractor was reminded that stockpiling of dusty material should be covered properly by impervious sheet to prevent dust dispersion at Portion E3-1.	
	15 Jul 2024	Observation:	The Contractor was reminded that
		The unpaved access road at Portion E3-1 is dusty and fugitive dust was observed.	the unpaved assess road at Portion E3-1 should be wetted by water spraying to prevent dust dispersion.
	12 Aug 2024	Observation: The generator without NRMM label was observed at Portion E3-1.	The Contractor was reminded that NRMM label should be affixed on the generator at Portion E3-1.
	7 Oct 2024	Reminder:	
		The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	
	7 Oct 2024	Reminder:	
		The Contractor was reminded that the exposed slope should be covered by green net after earthwork at Portion A.	
	7 Oct 2024	Reminder:	
	14 Oct 2024	The Contractor was reminded	
	21 Oct 2024	that any breaks in the slope protection should be maintained	
	28 Oct 2024	and shotcrete for long-term slope	
	4 Nov 2024	protection at SBA.	
	11 Nov 2024		
	14 Oct 2024	Observation:	The Contractor was advised that
	4 Nov 2024	Unpaved main haul road is dusty and fugitive dust is observed at Portion A.	watering should be provided regularly to ensure the unpaved main haul road is kept damp to prevent dust dispersion at Portion A.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	14 Oct 2024	Observation: Activities of handing or storage of bulk cement or dry PFA shall be carried out in a totally enclosed system or facility at Portion E3-1.	The Contractor was recommended that the shelter-on top and the 3-sides should be provided for the activities of handing and storage of bulk cement or dry PFA at Portion E3-1.
	14 Oct 2024	Observation: The exposed slope at Portion B2- 1 was observed to be not entirely covered by impervious sheeting.	The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.
	14 Oct 2024	Reminder:	
	21 Oct 2024	The Contractor was reminded	
	28 Oct 2024	that the exposed slope should be covered with green netting and that the dusty material should be disposed of as soon as possible after the earthwork at Portion A.	
	21 Oct 2024	Observation: The generator without NRMM label was observed at Portion D.	The contractor was reminded that NRMM label should be affixed on the generator at Portion D.
	28 Oct 2024	Observation: More than 20 bags of PFA material should be stored in the top and 3-sides of the shelter or covered with impervious sheeting at Portion A.	The Contractor was reminded that more than 20 bags of PFA material should be stored in a top and three-sided shelter or covered with an impervious sheet at Portion A.
	28 Oct 2024	Observation: Open stockpiling of construction material should be covered with tarpaulin and removed as soon as possible at Portion E4.	The Contractor was advised that open stockpiling of construction material should be removed and kept away from the sedimentation basin at Portion E4.
	4 Nov 2024	Observation: The exposed slope without impervious sheet was observed after the earthwork at Portion A.	The Contractor was advised that the exposed slope after earthwork should be covered with impervious sheeting or green netting to minimize the visual impact at Portion A.
	4 Nov 2024	Reminder:	
	11 Nov 2024	The Contractor was reminded	
	18 Nov 2024	that the exposed slope should be covered with impervious sheeting	
	25 Nov 2024 and shotcrete for long-te	and shotcrete for long-term slope protection at Portion E4.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	4 Nov 2024	Reminder:	
	11 Nov 2024	The Contractor was reminded that the dust control measures (including frequency of watering by water trucks and water sprinkler etc.) should be increased when the exposed area was dry and the operation of water sprinkler should be maintained in good conditions to ensure the high effectiveness of dust control in the project site.	
	25 Nov 2024	Reminder:	
		The Contractor was reminded that NRMM label should be provided and affixed to the new generator before it is operated at SBA.	
	2 Dec 2024	Observation:	The Contractor was reminded that
		The unpaved haul road was dry and fugitive dust was observed at Portion A, E3-1A and E4.	the dust control measures (including frequency of watering by water trucks and water sprinkler etc.) should be increased when the exposed area was dry and the operation of water sprinkler should be maintained in good conditions to ensure the high effectiveness of dust control at Portion A, E3-1A and E4.
	2 Dec 2024	Reminder:	
		The Contractor was reminded that the exposed slope should be covered with impervious sheeting after earthworks completed at Portion A.	
	16 Dec 2024	Observation:	The Contractor was advised that
		The unpaved access road should be sprayed with water when the access road was dry. And the speed limit sign should be displayed at the access road of Portion B2/E1.	the unpaved access road should be sprayed with water when the access road was dry. And the speed limit sign should be displayed at the access road of Portion B2/E1 to minimize the flying dust carried by the transportation of the relevant access road.
	16 Dec 2024	Observation: The worksites were dry and the breaking works without dust control measures at Portion E4 were found.	The Contractor was recommended that the worksites should be wetted with water regularly and the breaking work area at Portion E4 when the work is conducting to reduce the risk of causing flying dust.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Air Quality	23 Dec 2024	Observation: The paved and unpaved access roads were dry, and fugitive dust was observed at Portion A B2-E1 and SBA.	The Contractor was advised that dust control measures should be implemented, such as providing water spray and increasing the frequency of water trucks, to ensure that both paved and unpaved access roads are wetted and to prevent dust dispersion at Portions A, B2-E1, and SBA.
	30 Dec 2024	Observation: The unpaved access road should be wetted by watering when the road was dry.	The Contractor was advised that water spraying and water trucks should be arranged and provided frequently to ensure the unpaved access road was wetted and to prevent dust dispersion at Portions B2-E1 and SBA.
	30 Dec 2024	Observation: More than 20 bags of cement or dry PFA without cover was observed at Portion B2-E1.	The Contractor was recommended that more than 20 bags of cement or dry PFA should be covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides at Portion B2-E1.
	30 Dec 2024	Observation: The accumulation of demolished trees was found at Portion B2-E1.	The Contractor was reminded that demolished trees should be completely covered with impervious sheeting or placed in an area sheltered on the top and three sides within a day of demolition sides at Portion B2-E1.
Noise	29 Jan 2024	Reminder: The Contractor was reminded to ensure that the door of the generator shall be closed while it is operating to reduce the noise produced.	
Water Quality	15 Jan 2024	Observation: The exposed slope surface at SBA without covered by impervious sheet properly was found.	The Contractor was reminded that the exposed slope surface should be properly covered with impervious sheet.
	15 Jan 2024	Observation: Damaged silt fence around the stockpile area at SBA was observed.	The Contractor was advised to provide maintenance for the silt fence.
	22 Jan 2024	Reminder: The Contractor was reminded to provide temporary slope surface protection for the exposed slope surface at Portion B2 before completing the concrete surface protection by February.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	29 Jan 2024	Observation: Insufficient silt fence around the soil stockpiling area at SBA was observed.	The Contractor was advised to provide sufficient silt fence around the soil stockpiling area to prevent sediment from entering the system.
	5 Feb 2024	Observation: The exposed slope area at Portion B2 without covered by impervious sheet was observed.	The Contractor was advised to cover the exposed slope area by impervious sheet for short-term slope protection, and shotcrete for long-term slope protection.
	26 Feb 2024	Observation: The accumulation of deposited silt and grit was observed at Portion A.	The contractor was recommended to clean up and remove the deposited silt and grit regularly to prevent silt accumulation.
	4 Mar 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	11 Mar 2024	Reminder: The stagnant water was observed at Portion A and D.	The Contractor was advised to install efficient channels at Portion A and D to properly direct stormwater to silt removal facility.
	11 Mar 2024	Observation: The exposed slope surface without covered by impervious sheet temporarily at Portion B2 was observed.	The Contractor was reminded that the exposed slope surface should be covered by impervious sheet temporarily and shotcreted for long-term slope protection at Portion B2.
	11 Mar 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	18 Mar 2024	Observation: The accumulation of deposited silt and grit was observed at Portion A.	The Contractor was recommended to install an efficient channel at Portion A to properly direct stormwater to silt removal facility and clean up the deposited silt and grit regularly.
	18 Mar 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	25 Mar 2024	Reminder:	
		The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	02 Apr 2024	Observation:	The Contractor was
		Stockpiling of excavated materials at SBA without covering impervious sheet were found.	recommended that stockpiling of excavated materials at SBA shall be covered by impervious sheet or removed.
	2 Apr 2024	Reminder:	
	8 Apr 2024	The Contractor was reminded	
	15 Apr 2024	that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	22 Apr 2024	Observation:	The Contractor has been
		The silt fence at SBA shall be maintained properly to prevent sediment from entering the drainage system.	reminded to conduct regular maintenance of the silt fence in each layer to prevent sediment from entering the surface water drainage system.
	22 Apr 2024	Reminder:	
		The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	29 Apr 2024	Observation:	The Contractor was advised to
		The exposed slope surface at Portion E4 shall be covered by tarpaulin sheets properly.	provide impervious sheet to cover the exposed slope surface properly at Portion E4 for slope protection.
	29 Apr 2024	Reminder:	
		The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94, especially the removal of deposited silt at the sedimentation basins and ponds of Portion E3-1 and E4.	
	6 May 2024	Reminder:	
	13 May 2024	The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	13 May 2024	Reminder: The Contractor was reminded that the exposed slope surfaces at Portion B2-E1 should be covered by tarpaulin.	
	20 May 2024	Reminder: The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94, especially the removal of deposited silt at the sedimentation basins and ponds of Portion E3-1 and E4.	
	27 May 2024	Reminder:	
		The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	27 May 2024	Reminder:	
		The Contractor was reminded that the temporary drainage system e.g. channel and earth bund should be provided and protected properly at Portion E4 to direct stormwater to slit removal facility.	
	3 Jun 2024	Reminder:	
	11 Jun 2024	The Contractor was reminded	
	17 Jun 2024	that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94, especially the wet-sep operation.	
	17 Jun 2024	Reminder:	
		The Contractor was reminded that the efficient silt fence should be maintained regularly at SBA.	
	24 Jun 2024	Reminder: The Contractor was reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.	
	24 Jun 2024	Reminder:	
		The Contractor was reminded that the inspection and maintenance for slope protective layer should be enhanced to ensure the effectiveness of the slope surface protective layers.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	2 Jul 2024	Reminder:	
		The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	2 Jul 2024	Reminder: The Contractor was reminded that the slope protection should be scheduled and maintained at Portion A and SBA.	
	8 Jul 2024	Observation: The accumulation of deposited silt and grit was observed at Portion D.	The Contractor was advised to provide channel, earth bunds, or sandbag barriers to properly direct stormwater to silt removal facility and clean up the deposited silt and grit regularly at Portion D.
	8 Jul 2024	Reminder: The Contractor was reminded that the slope protection should be scheduled and maintained at Portion A and SBA.	
	8 Jul 2024	Reminder:	
	15 Jul 2024	The Contractor was reminded	
	22 Jul 2024	that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	29 Jul 2024	Observation: Temporary channels, earth bunds, or sandbag barriers shall be provided at the low elevation of the slope and the roadside of the access road to properly direct stormwater to silt removal facilities at SBA.	The Contractor was advised that the channel, earth bunds, or sandbag barriers should be provided on site to prevent surface run-off and to properly direct stormwater to the silt removal facility at SBA.
	29 Jul 2024	Reminder:	
	5 Aug 2024	The Contractor was reminded	
	12 Aug 2024	that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	12 Aug 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	12 Aug 2024	Reminder: The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	
	12 Aug 2024	Reminder: The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	19 Aug 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	19 Aug 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	
	19 Aug 2024	Reminder: The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	19 Aug 2024	Reminder: The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	19 Aug 2024	Reminder: The Contractor was reminded that the exposed slope should be covered by tarpaulin sheet instead of green net after earthwork at Portion A.	
	19 Aug 2024	Reminder: The Contractor was reminded that any breaks in the slope protection should be maintained and covered properly by impervious sheeting for short-term and should be shotcrete for long-term slope protection at SBA.	
	27 Aug 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	27 Aug 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	
	27 Aug 2024	Reminder: The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	27 Aug 2024	Reminder: The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	27 Aug 2024	Reminder: The Contractor was reminded that the exposed slope should be covered by tarpaulin sheet instead of green net after earthwork at Portion A.	
	27 Aug 2024	Reminder: The Contractor was reminded that any breaks in the slope protection should be maintained and covered properly by impervious sheeting for short-term and should be shotcrete for long-term slope protection at SBA.	
	2 Sep 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	2 Sep 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	
	2 Sep 2024	Reminder: The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	2 Sep 2024	Reminder: The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	2 Sep 2024	Reminder: The Contractor was reminded that the exposed slope should be covered by green net after earthwork at Portion A.	
	2 Sep 2024	Reminder: The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.	
	9 Sep 2024	Observation: The accumulated water should be removed to the silt removal facilities at Portion A.	The Contractor was reminded that accumulated water should be removed and directed to silt removal facilities for treatment at Portion A.
	9 Sep 2024	Observation: Silt fence maintenance should be conducted at SBA.	The Contractor was advised to conduct silt fence maintenance regularly to ensure the silt fence around the soil stockpile areas prevents sediment from entering the system at SBA.
	9 Sep 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	9 Sep 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	9 Sep 2024	Reminder: The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	
	9 Sep 2024	Reminder: The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	9 Sep 2024	Reminder: The Contractor was reminded that the exposed slope should be covered by green net after earthwork at Portion A.	
	9 Sep 2024	Reminder: The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.	
	16 Sep 2024	Reminder: The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	16 Sep 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	16 Sep 2024	Reminder:	
		The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	
	16 Sep 2024	Reminder:	
		The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	16 Sep 2024	Reminder:	
		The Contractor was reminded that the exposed slope should be covered by green net after earthwork at Portion A.	
	16 Sep 2024	Reminder:	
		The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.	
	23 Sep 2024	Reminder:	
		The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.	
	23 Sep 2024	Reminder:	
		The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	23 Sep 2024	Reminder: The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	
	23 Sep 2024	Reminder: The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	23 Sep 2024	Reminder: The Contractor was reminded that the exposed slope should be covered by green net after earthwork at Portion A.	
	23 Sep 2024	Reminder: The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.	
	30 Sep 2024	Observation: The accumulated water was found at waste skip and shovel bucket of SBA.	The Contractor was recommended to change the angle of placing the shovel bucket and provide the cover such as impervious sheet for waste skip to minimize the potential risk for accumulation of water. The accumulated water should be removed to silt removal facilities for treatment.
	30 Sep 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	30 Sep 2024	Reminder:	
		The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.	
	30 Sep 2024	Reminder:	
		The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
	30 Sep 2024	Reminder:	
		The Contractor was reminded that the exposed slope should be covered by green net after earthwork at Portion A.	
	30 Sep 2024	Reminder:	
		The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.	
	30 Sep 2024	Reminder:	
		The Contractor was reminded that the dust control measures (including frequency of watering by water trucks and water sprinkler etc.) should be increased when the exposed area was dry and the operation of water sprinkler should be maintained in good conditions to ensure the high effectiveness of dust control in the project site.	
	7 Oct 2024	Reminder:	
	14 Oct 2024	The Contractor was reminded	
	21 Oct 2024	that the excavation materials near the u-channel should be	
	28 Oct 2024	nodi tilo d'originioi silodid De	

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	4 Nov 2024		
	7 Oct 2024	Reminder: The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.	
The accumulated of wastewater with general waste in the skip was found at Portion A.		The contractor was advised that the general waste and the accumulation of wastewater should be removed, and that the accumulation of wastewater should be treated by a silt removal facility at Portion A.	
	28 Oct 2024	Observation: Silt fence should be properly maintained at SBA.	The Contractor was recommended to arrange silt fence maintenance regularly to ensure silt fence efficiency at SBA.
	11 Nov 2024	Observation: Excavation material near the u- channel is observed at Portion B2-1.	The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel at Portion B2-1.
	18 Nov 2024	Reminder: The Contractor was reminded that the function of silt removal facilities and drainage system should be maintained properly before rainstorm.	
	25 Nov 2024	Reminder: The deposited of silt and grit should be cleaned and disposed regularly at Portion E3-1.	The Contractor was advised to arrange regular desilting to ensure the proper efficiency of drainage system at Portion E3-1.
	2 Dec 2024	Observation: The deposited of silt with muddy water was observed in wheel washing bay at Portion A.	The Contractor was advised that the deposits of silt in the wheel washing bay should be cleaned regularly to ensure that each vehicle is washed immediately to remove any dust and debris from its body and wheels before leaving the construction site.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Water Quality	9 Dec 2024	Observation: The fallen trees were collapsed into the drainage channel.	The Contractor was advised that the trees should be removed to ensure that the drainage channel is properly maintained and remains efficient.
	9 Dec 2024	Reminder: The Contractor was reminded that the exposed slope should be covered with impervious sheeting after earthworks completed at Portion A.	
Waste and Chemical Management	29 Jan 2024	Observation: The oil drum and chemical containers without chemical drip tray at Portion E4 was found.	The Contractor was reminded to provide the sufficient drip tray for chemical storage to avoid chemical spillage and land contamination.
	5 Feb 2024	Observation: The accumulation of C&D materials at Portion D was observed.	The Contractor was reminded to provide enough waste skip for waste storage to avoid waste accumulation.
	5 Feb 2024	Observation: The chemical containers at Portion D shall be stored and placed in the drip tray	The Contractor was recommended to provide sufficient chemical drip tray for chemical storage to prevent chemical spillage.
	5 Feb 2024	Reminder: The Contractor was reminded that general waste shall be collected into the enclosed rubbish bins.	
	19 Feb 2024	Observation: The chemical containers without stored and placed on the drip tray at portion D and E3-1 is observed.	The Contractor was advised to provide enough drip tray at portion D and E3-1 for chemical storage to prevent chemical spillage.
	26 Feb 2024	Observation: Oil stain was found in the work area at Portion D and Portion A	The Contractor was reminded to clean up the oil stain immediately and dispose of it as chemical waste. Also, the impervious sheet should be provided during using and placing chemicals.
	26 Feb 2024	Observation: The accumulation of general waste and C&D waste was observed at Portion A.	The Contractor was recommended to provide sufficient enclosed bins for general waste disposal and waste skip for C&D waste disposal to separate and dispose the general and construction wastes.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Waste and Chemical Management	26 Feb 2024	Observation: The chemical containers at Portion A shall be stored and placed properly.	The Contractor was advised to provide drip tray for chemical storage to prevent chemical spillage and land contamination.
	4 Mar 2024	Observation: The general waste and food waste at portion D shall be disposed into enclosed rubbish bins.	The Contractor was reminded to provide an enclosed rubbish bins for waste disposal to ensure the site clean tidy.
	4 Mar 2024	Observation: The chemical containers at portion B1-2 and oil drum at SBA shall be placed at the chemical trip tray.	The Contractor was advised to provide chemical drip tray for chemical storage to prevent chemical spillage.
	11 Mar 2024	Observation: The accumulation of waste was observed at Portion D.	The Contractor was recommended to increase waste disposal frequently if necessary to avoid waste accumulation.
	11 Mar 2024	Observation: The chemical container at Portion B2 shall be placed on the drip tray.	The Contractor was reminded to provide the chemical drip tray for chemical storage to prevent chemical spillage.
	18 Mar 2024	Observation: The general waste and C&D waste at Portion A shall be disposed and stored in enclosed bins and waste skip properly.	The Contractor was reminded to increase the capacity and the number of enclosed bins and waste skips at Portion A for waste storage and disposal and clean up the accumulation of general waste and C&D waste regularly.
	18 Mar 2024	Observation: The oil drum and chemical containers at Portion A shall be placed in the chemical drip tray with labelling.	The Contractor was advised to provide enough chemical drip tray for chemical storage and label them in English and Chinese to recognize chemical container.
	25 Mar 2024	Observation: General waste (e.g. food waste) shall be collected in enclosed bin at Portion E3-1A.	The Contractor was recommended to provide sufficient enclosed bin at Portion E3-1A for general waste collection and storage.
	8 Apr 2024	Observation: The accumulation of C&D Materials and General Refuse (i.e. food waste) were found on the floor at Portion E3-1 near the rest area for workforce.	The Contractor was advised to provide the enclosed bins with clearly label near each the rest area for workforce and the waste skip for collection of C&D Materials should be provided at the designated storage area of Portion E3-1.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Waste and Chemical Management	8 Apr 2024	Observation: The chemical container without drip tray was found at Portion E3-1.	The Contractor was advised to provide the drip tray under the chemical container.
	15 Apr 2024	Observation: Oil drums at SBA without chemical drip tray and label was observed.	The Contractor was recommended to provide a chemical drip tray at SBA for storing and placing the oil drums to prevent oil leakage and subsequent land contamination, and the oil drums at SBA should be labelled in English and Chinese.
	29 Apr 2024	Observation: The chemical containers at Portion E3-1 shall be placed and stored in the chemical drip tray and included chemical label.	The Contractor was reminded to provide chemical drip tray for chemical storage at Portion E3-1 to prevent chemical leakage and land contamination and should be included chemical label.
	13 May 2024	Observation: General waste and C&D waste on the floor was observed at Portion A and D.	The Contractor was reminded to provide and arrange sufficient waste skip and enclosed bins for waste collection and storage at Portion A and D.
	20 May 2024	Observation: Rubbish bins shall be covered and enclosed, and the waste skip shall be placed and designed in a flat area at Portion A.	The Contractor was reminded that rubbish bin for general waste collection should be covered and enclosed, and the waste skip for C&D waste collection and storage should be placed properly in the flat area to prevent water stagnation at Portion A.
	20 May 2024	Observation: Oil drum and chemical container at Portion A without the drip tray and chemical label in chinses and English was observed.	The Contractor was recommended to provide chemical drip trays for chemical storage at Portion A to prevent chemical leakage and land contamination, and to provide chemical labels in Chinese and English.
	27 May 2024	Observation: The general waste at Portion E4 shall be collected and stored in the enclosed rubbish bin.	The Contractor was reminded to provide sufficient enclosed rubbish bin for general waste collection and storage at Portion E4.
	27 May 2024	Observation: The chemical container without drip tray was observed at Portion B2-E1.	The Contractor was reminded that the chemical container should be placed in the drip tray properly at Portion B2-E1to prevent chemical leakage and land contamination.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Waste and Chemical Management	11 Jun 2024	Observation: The chemical containers without chemical drip tray were observed at Portion A.	The Contractor was reminded that the chemical containers should be placed and stored in the chemical drip tray to prevent chemical leakage and land contamination at Portion A.
	11 Jun 2024	Observation: The chemical container without chemical drip tray was observed at Portion A.	The Contractor was reminded to provide chemical drip tray for placing chemical container to prevent chemical leakage and land contamination.
	24 Jun 2024	Observation: A damaged chemical container and chemical containers without drip tray were found at Portion A.	The Contractor was advised that the chemical containers should be placed on the drip tray and the damaged chemical containers should be handled properly to avoid the potential contamination risk in the project site.
	22 Jul 2024	Observation: The chemical container without drip tray was observed at SBA.	The Contractor was reminded to provide chemical drip tray for chemical storage to prevent chemical spillage and land contamination at SBA.
	29 Jul 2024	Observation: The general waste and C&D waste shall be collected and stored separately at SBA.	The Contractor was reminded that the general waste and C&D waste should be segregated by enclosed bin and C&D waste skip to ensure general waste and C&D waste are stored separately and properly at SBA.
	12 Aug 2024	Observation: The general wastes were identified on the floor without proper disposal and collection at Portion E3-1.	The Contractor was advised that sufficient of enclosed bin should be provided for proper general waste collection and storage at Portion E3-1.
	12 Aug 2024	Reminder: The Contractor was reminded that the chemical drip tray should be kept clean at Portion E3-1 to prevent chemical leakage and land contamination.	
	9 Sep 2024	Observation: General waste should be collected and stored in the enclosed bin at SBA.	The Contractor was advised to provide an enclosed bin for general waste collection at SBA.
	7 Oct 2024	Observation: Chemical container mixed with C&D waste in waste skip at SBA.	The Contractor was reminded to provide chemical drip tray for chemical storage to prevent chemical spillage and land contamination at SBA.

Parameter	Date	Observation and Reminders	Follow-up Action Taken
Waste and Chemical Management	11 Nov 2024	Observation: General waste was observed on the floor at Portion D.	The Contractor was recommended that enclosed bin should be provided for general collection and waste segregation to avoid waste accumulated on the floor at Portion D.
	11 Nov 2024 18 Nov 2024	Observation: Chemical containers without drip tray and chemical label were found at Potion D.	The Contractor was advised that chemical containers should be placed in the drip tray and labelled chemical label at Portion D.
	18 Nov 2024	Observation: The accumulated of C&D waste was observed on the floor at Portion A.	The contractor was reminded that the C&D waste should be collected in waste skip properly at Portion A.
	16 Dec 2024	Observation: Accumulation of waste was found at Portion D.	The Contractor was advised that the accumulation of waste should be removed regularly to minimize the nuisance from windblown and dust.
	23 Dec 2024	Observation: The accumulation of general waste was observed on the floor at Portion A, and the general waste was found stored in waste skips and rubbish bins without covers at SBA.	The Contractor was reminded that the frequency of general waste disposal should be increased to prevent waste accumulation at Portion A, and that enough enclosed bins should be provided to ensure proper general waste collection at SBA.
	30 Dec 2024	Observation: General wastes were found in waste skip and rubbish bins without covers was observed at SBA.	The Contractor was reminded that enough enclosed bins should be provided to ensure proper general waste collection at SBA.
Landscape and Visual Impact	20 May 2024	Reminder: The Contractor was reminded that the exposed slope surface at Portion A should be covered with green netting after the excavation activity in order to reduce visual impact.	
Permit / Licenses	No specific obs	servation was identified in the reporti	ng period.

11.1.4 Five general site inspection on 25 January, 30 May, 16 July, 3 and 30 September 2024 were conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG).

12 Environmental Non-conformance

12.1 Summary of Monitoring Exceedance

1-hr & 24-hr TSP Monitoring

12.1.1 No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 was recorded during the reporting period. The Summary of Impact 1-hr & 24-hr TSP Exceedance are shown in **Table 12-1**.

Table 12-1 Summary of Impact 1-hr & 24-hr TSP Exceedance during the reporting period

Dust Monitoring Station		AM1		AM2		AM3	
Level Exceedance Parameters		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
1-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

Noise Monitoring

12.1.2 No exceedance of the Action and Limit Levels for was recorded at designated monitoring stations during the reporting period. The Summary of Impact Noise Exceedance are shown in **Table 12-2**.

Table 12-2 Summary of Impact Noise Exceedance during the reporting period

Noise Monitoring Station		NM1(a)		NM2(a)	
Level Exceedance Parameters		Action Level	Limit Level	Action Level	Limit Level
LA _{eq} (30mins)	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

Surface Water Quality Monitoring

12.1.3 No exceedance of Action and Limit Levels of surface water monitoring was recorded during the reporting period. The Summary of Impact Surface Water Quality Exceedance are shown in **Table 12-3**.

Table 12-3 Summary of Impact Surface Water Quality Exceedance during the reporting period

Surface Water Quality Monitoring Station		WM1		WM2	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level
рН	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
DO	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
Turbidity	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
SS	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

Landfill Gas Monitoring

12.1.4 No exceedance of the Limit Level for was recorded at designated monitoring stations during the reporting period. The Summary of Landfill Gas Exceedance are shown in **Table 12-4**.

Table 12-4 Summary of Landfill Gas Exceedance during the reporting period

Landfill Gas Monitoring Station			mpD to 70 mpD form	Portion B2/E1		
	Level Exceedance	Action Level Limit Level		Action Level	Limit Level	
Paramet	ers					
CH ₄	Exceedance Date	-	-	-	-	
	Exceedance Count	0	0	0	0	
CO ₂	Exceedance Date	-	-	-	-	
	Exceedance Count	0	0	0	0	
O ₂	Exceedance Date	-	-	-	-	
	Exceedance Count	0	0	0	0	

Remarks: * equal to non-project related

12.2 Summary of Environmental Non-compliance

12.2.1 No non- compliance event was recorded during the reporting period.

12.3 Summary of Environmental Complaint

12.3.1 Two environmental complaints regarding water quality were recorded during the reporting period. The cumulative statistics on environmental complaints are presented in **Table 12-3**.

Table 12-3 Cumulative Statistics on Environmental Complaints

			Env	rironmental Asp	ects	
Repo	Reporting Period		Noise	Water Quality	Waste	Ecology
Jan 2024	Complaint Date	-	-	-	-	-
Jan 2024	No. of Complaint	0	0	0	0	0
Feb 2024	Complaint Date	-	-	-	-	-
ren 202 4	No. of Complaint	0	0	0	0	0
Mar 2024	Complaint Date	-	-	-	-	-
IVIAI 2024	No. of Complaint	0	0	0	0	0
Ann 2024	Complaint Date	-	-	-	-	-
Apr 2024	No. of Complaint	0	0	0	0	0
May 2024	Complaint Date	-	-	9 May 2024	-	-
May 2024	No. of Complaint	0	0	1	0	0
Jun 2024	Complaint Date	-	-	-	-	-
Juli 2024	No. of Complaint	0	0	0	0	0
Jul 2024	Complaint Date	-	-	-	-	-
Jul 2024	No. of Complaint	0	0	0	0	0
Aug 2024	Complaint Date	-	-	-	-	-
Aug 2024	No. of Complaint	0	0	0	0	0
Con 2024	Complaint Date	-	-	-	-	-
Sep 2024	No. of Complaint	0	0	0	0	0
Oct 2024	Complaint Date	-	-	-	-	-
OCI 2024	No. of Complaint	0	0	0	0	0
Nov 2024	Complaint Date	-	-	28 Nov 2024	-	-
Nov 2024	No. of Complaint	0	0	1	0	0
Dec 2024	Complaint Date	-	-	-	-	-
Dec 2024	No. of Complaint	0	0	0	0	0
An	nual Total	0	0	2(1* & 1#)	0	0
Accumi	ulate of project	1	0	7(1* & 1#)	0	0

Remarks:

12.3.2 The details of environmental complaints during the reporting period are described below:

Environmental Complaint on 9 May 2024

12.3.3 It was noted that ET received an email from EPD-RNG on 9 May 2024 regarding EPD's receipt of a memo from DSD/Mainland North regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 23 April 2024. In summary of the investigation, the muddy water at the complaint location involved multi-potential sources (including the construction runoff of the project and runoff from existing landfill) based on the distance between the outlet of the project discharge point and the complaint location (distance around 1.16 km). While the nearest potential sources are the Potential Source 15 – Runoff from Dumping Area Potential Source 14 – Water pipe near EPD WQM Location GR3. Among the Potential Source 15 – Runoff from Dumping Area is the exposed area. There is high potential risk to creating high amount of muddy water.

^{*} equal to non-project related after the investigation.

[#] means the complaint under investigation.

- 12.3.4 However, it cannot exclude the potential risk at Portion A (Potential Source 11 Construction Runoff from Portion A). Although the construction runoff appeared cloudy under the observation, construction runoff mixed with soil surface outside boundary easy create muddy water. If the high amount of construction runoff flowed through gap at site boundary, there are high amount of muddy water would be created final affect the water quality at Ping Yuen River. Due to the runoff is a part of the potential source, which may affect the water quality of Ping Yuen River, the inspection and maintenance at the boundary of Portion A should be conducted regularly.
- 12.3.5 In addition, part of the muddy water from stormwater drains from NENT Landfill of Wo Keng Shan Road may increase the concentration of runoff at Ping Yuen River. The stormwater drains collected the runoff from rainfall and runoff from dust control measures of existing landfill.
- 12.3.6 Due to continuous rainfall occurs from 18 to 23 April 2024, the severe weather increased the risk of landslips, finally increasing the concentration of suspended solids for surface runoff. Most rivers/streams/channels were affected by high amount of rainfall. Hence, the water quality of runoff at the complaint location would be affected by runoff from Wo Keng Shan, Shui Ngau Tso (Potential Source 3, 5 to 8, 10, 12 and 13) and other area between Surface WQM Location WM2 and the complaint location.
- 12.3.7 Although the silt removal facilities of the project were functionable normally under the investigation, part of surface protection layers appeared cracks and part of mitigation measures for control of construction runoff are established in progress. The Contractor should enhance checking and maintained the mitigation measures regularly to avoid minimising the effectiveness of related mitigation measures. And the progress of slope surface protection should be completed as soon as possible.
- 12.3.8 To avoid the potential impact of construction runoff from the project, some mitigation measures are recommended & reminded to implemented & review by the contractor.
 - Environmental Complaint on 9 May 2024
- 12.3.9 It was noted from EPD-RNG's email to the ET on 28 November 2024 regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 13 November 2024. The relevant investigation is conducting by the related parties. The investigation results will be presented when the investigation has been completed.
- 12.3.10 Cumulative complaint / enquiry log, Summaries of complaints and enquiries are presented in **Appendix I**.

12.4 Summary of Environmental Summons and Successful Prosecution

12.4.1 No summons and prosecution were received during the reporting period.

13 Implementation Status on Environmental Mitigation Measures

13.1.1 The Contractor has generally implemented part of environmental mitigation measures and requirements as stated in the EIA Report, the EP and Updated EM&A Manual and the contract documents. The implemented mitigation measures are considered effective. The implementation status during the reporting period is summarized in **Appendix G**.

14 Review of the validity of EIA predictions and identification of shortcomings in EIA recommendations

14.1 Air Quality

1-hr TSP

14.1.1 The 1-hr TSP average monitoring results are compared with the EIA predications as summarized in **Table 14-1**.

Table 14-1 Comparison between the 1-hr TSP Monitoring Results and EIA Predictions

	Average 1-hr TSP Concentration, μg/m³					
Month	D	ust Monitoring Statio	on			
	AM1 (EIA ASRID: ASR11)	AM2 (EIA ASRID: ASR7)	AM3 (EIA ASRID: ASR1)			
Jan 2024	33 (21 – 59)	50 (40 – 65)	58 (48 – 70)			
Feb 2024	28 (24 – 36)	50 (39 – 56)	54 (40 – 62)			
Mar 2024	32 (22 – 60)	46 (31 – 63)	56 (48 – 71)			
Apr 2024	27 (20 – 33)	48 (40 – 53)	55 (50 – 60) 49 (39 – 56)			
May 2024	24 (20 – 31)	44 (39 – 51)				
Jun 2024	25 (19 – 36)	43 (38 – 52)	51 (40 – 61)			
Jul 2024	28 (24 – 30)	38 (30 – 44)	47 (39 – 56)			
Aug 2024	26 (21 – 36)	38 (29 – 46)	45 (40 – 53)			
Sep 2024	26 (12 – 34)	43 (29 – 59)	50 (37 – 62)			
Oct 2024	24 (18 – 31)	38 (31 – 44)	46 (38 – 56)			
Nov 2024	26 (20 – 30)	34 (21 – 41)	44 (36 – 51)			
Dec 2024	26 (20 – 30)	42 (38 – 50)	41 (38 – 43)			
Predicted 1-hr TSP concentration µg/m³, when NENT Landfill is under restoration and Phase 1 of NENT Landfill Extension is in site formation (1.5m)	240	180	230			

Remarks:

Predicted 1-hr TSP concentration extracted from Table 3.31 of EIA Report, AEIAR-111/2007.

14.1.2 The 1-hr TSP average monitoring results at AM1 to AM3 are below the Predicted 1-hr TSP concentration in the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-111/2007). The graphs of comparison between 1-hr TSP monitoring results at AM1 to AM3 and EIA predictions 24-hr TSP Level is presented in **Appendix J**.

24-hr TSP

14.1.3 The 24-hr TSP average monitoring results are compared with the EIA predications as summarized in **Table 14-2**.

Table 14-2 Comparison between the 24-hr TSP Monitoring Results and EIA Predictions

	Average 24-hr TSP Concentration, μg/m³ (Range)					
Month	AM1 (EIA ASRID:	ust Monitoring Station AM2 (EIA ASRID:	AM3 (EIA ASRID:			
	ASR11)	ASR7)	ASR1)			
Jan 2024	84 (70 – 112)	103 (84 – 119)	105 (80 – 119)			
Feb 2024	98 (86 – 118)	118 (107 – 123)	117 (104 – 143)			
Mar 2024	91 (66 – 117)	82 (60 – 104)	94 (76 – 125)			
Apr 2024	90 (70 – 125)	122 (107 – 137)	122 (110 – 131)			
May 2024	115 (92 – 137)	127 (116 – 138)	118 (95 – 135)			
Jun 2024	90 (71 – 122)	107 (87 – 138)	109 (91 – 143)			
Jul 2024	110 (93 – 128)	110 (93 – 128) 111 (100 – 119)				
Aug 2024	94 (82 – 103) 112 (102 – 118)		118 (110 – 121)			
Sep 2024	108 (101 – 117)	109 (98 – 123)	117 (110 – 129)			
Oct 2024	114 (104 – 126)	122 (114 – 136)	127 (119 – 137)			
Nov 2024	103 (97 – 115)	113 (92 – 131)	116 (104 – 132)			
Dec 2024	82 (77 – 93)	103 (91 – 116)	115 (108 – 120)			
Predicted 24-hr TSP concentration µg/m³, when NENT Landfill is under restoration and Phase 1 of NENT Landfill Extension is in site formation (1.5m)	103	83	102			

Remarks

Predicted 24-hr TSP concentration extracted from Table 3.32 of EIA Report, AEIAR-111/2007.

AM1

14.1.4 According to the 24-hr TSP average monitoring results at AM1, it reflected that the results in May (115 μg/m³), July (110 μg/m³), September (108 μg/m³) and October (114 μg/m³) 2024 are higher than predicted 24-hr TSP level (103 μg/m³). The 24-hr TSP average monitoring results at AM1 from May to November 2024 (mainly during wet season) are near or higher than the predicted 24-hr TSP level. The graph of comparison between 24-hr TSP monitoring results at AM1 and EIA predictions 24-hr TSP Level is presented in **Appendix J**.

<u>AM2</u>

14.1.5 In summary of the 24-hr TSP average monitoring results at AM2, it viewed that the all results (except results in March 2024) during the reporting period are higher than the predicted 24-hr TSP level (83 µg/m³). The 24-hr TSP average monitoring results in March are near the predicted 24-hr TSP level. But the 24-hr TSP average monitoring results at AM2 were affected by the construction works of other project near leachate storage of the existing NENT Landfill (Within 10m of AM2). The graph of comparison between 24-hr TSP monitoring results at AM2 and EIA predictions 24-hr TSP Level is presented in **Appendix J**.

AM3

- 14.1.6 The 24-hr TSP average monitoring results at AM3 during the reporting period (except results in March 2024) are higher than the predicted 24-hr TSP level (102 µg/m³). The 24-hr TSP average monitoring results in March 2024 (94 µg/m³) are near the predicted 24-hr TSP level. The graph of comparison between 24-hr TSP monitoring results at AM3 and EIA predictions 24-hr TSP Level is presented in **Appendix J**.
- 14.1.7 In conclusion, most of 24-hr TSP average monitoring results at AM1 to AM3 during the reporting period are higher than the predicted 24-hr TSP level mainly. Hence, the Contractor was reminded to enhance the dust control measures in the project site, especially during dry season. The recommended dust mitigation measures are listed as followed:
 - The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.
 - Dust emission from construction vehicle movement is confined within the worksites area.
 - Watering facilities will be provided at every designated vehicular exit point.
 - Good site practice is recommended during construction phase.
- 14.1.8 The details of enhancement of dust mitigation measures are listed below:
 - The worksites should be wetted with water regularly.
 - The wheel washing facilities with high pressure water jet should be provided at all site exits.
 - The areas of washing facilities and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.
 - The main haul road should be paved with concrete, bituminous materials, hardcores or metal plates, and should be kept clear of dusty materials.
 - The portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) should be kept clear of dusty materials.
 - The appropriate speed limit sign should be displayed at assess roads.
 - The unpaved main haul road should be wetted by water spraying.
 - The exposed earth should be treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies properly.
 - The stockpiling of dusty materials should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical to maintain the entire surface wet.
 - The stockpiling of dusty materials should be removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading.

- All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.
- The loaded dump trucks should be covered by impervious sheeting appropriately.
- The working area of any excavation or earth moving operation should be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation.

Noise

14.1.9 The noise monitoring results are compared with the EIA predications as summarized in **Table** 14-3.

Table 14-3 Comparison between the Noise Monitoring Results and EIA Predictions

	Average Leq, 30min, dB(A) (Range)				
Month	Noise Monit	oring Station			
	NM1a (EIA NSR No.: SR1)	NM2a (EIA NSR No.: SR9)			
Jan 2024	62.2 (59.6 – 63.2)	54.0 (53.3 – 55.3)			
Feb 2024	60.7 (60.1 – 61.3)	57.0 (55.8 – 57.8)			
Mar 2024	60.4 (60.0 – 60.8)	57.1 (55.2 – 58.6)			
Apr 2024	60.9 (60.1 – 62.5)	54.1 (48.5 – 56.2)			
May 2024	60.6 (60.1 – 61.6)	55.4 (48.1 – 57.4)			
Jun 2024	60.5 (59.3 – 61.3)	57.5 (56.3 – 58.5)			
Jul 2024	60.7 (58.6 – 62.4)	55.5 (50.1 – 58.4)			
Aug 2024	59.9 (59.0 – 60.3)	55.9 (55.0 – 57.4)			
Jun 2024	59.5 (59.0 – 60.3)	57.6 (55.4 – 59.0)			
Oct 2024	60.2 (59.5 – 61.2)	53.2 (49.6 – 54.1)			
Nov 2024	60.0 (58.9 – 60.9)	53.8 (53.1 – 54.7)			
Dec 2024	58.7 (51.8 – 60.1)	55.2 (53.7 – 56.3)			
Max Predicted Noise Level, dB(A)	69.0	67.0			

Remarks:

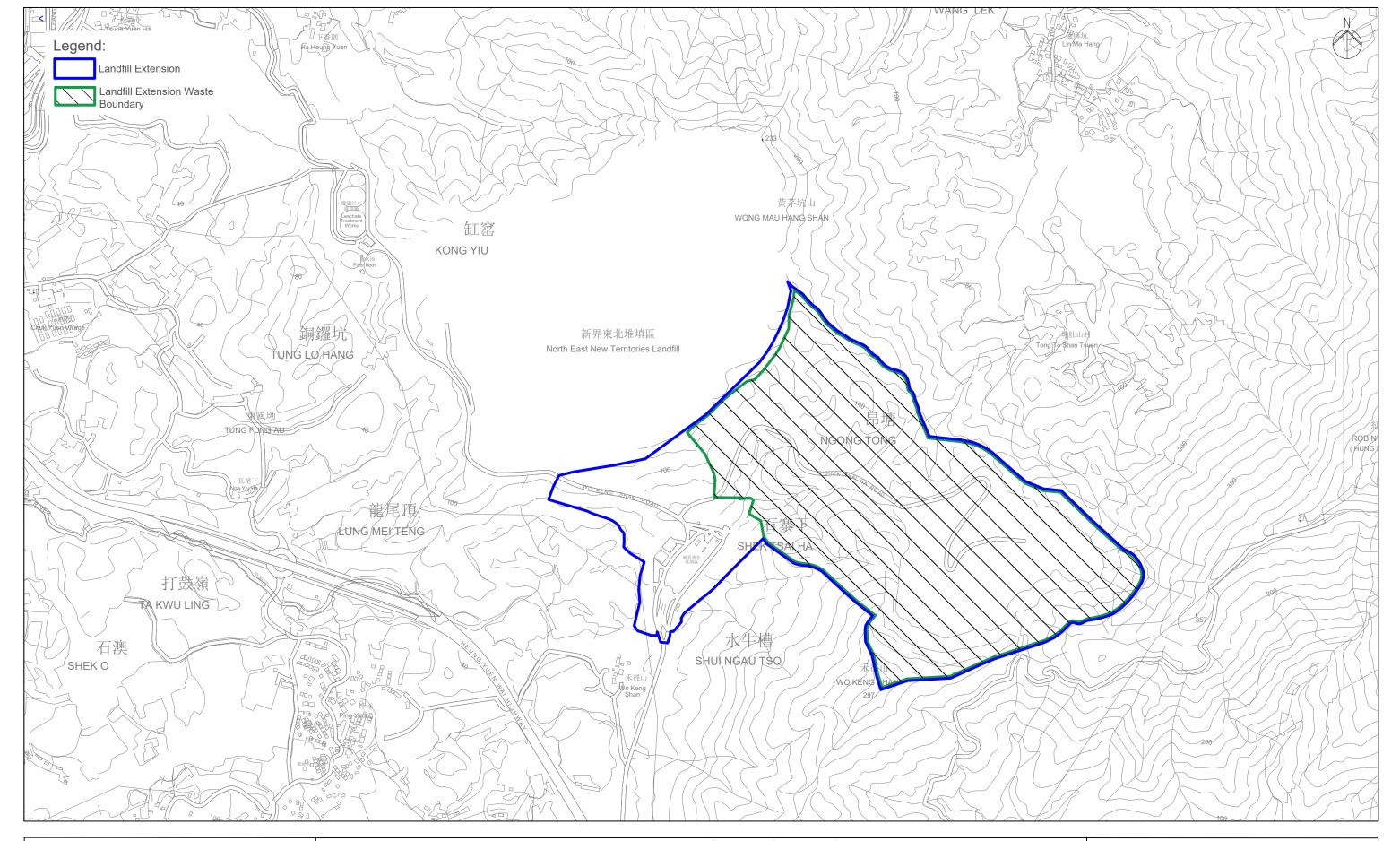
Max Predicted Noise Level extracted from Table 4.9 of EIA Report, AEIAR-111/2007.

14.1.10 The noise results at NM1a to NM2a are below the Max Predicted Noise Level in the EIA Report (Register No.: AEIAR-111/2007). The graphs of comparison between noise monitoring results at NM1a and NM2a and EIA max predictions noise level are presented in **Appendix J**.

15 Conclusion

- 15.1.1 1-hr & 24-hr TSP impact monitoring was carried out in the reporting period. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 was recorded during the reporting period.
- 15.1.2 Construction noise monitoring was carried out in the reporting period. No Action / Limit Level exceedance at NM1a & NM2a was recorded during the reporting period.
- 15.1.3 Site clearance of future landfilling area is in progress. The installation of groundwater monitoring boreholes will be installed after the site formation work of the landfilling area. The target commencement period of groundwater monitoring will be in 2026. No groundwater monitoring is required before the completion of site formation work of the landfilling area.
- 15.1.4 Surface water monitoring was carried out in the reporting period. No exceedance of Action and Limit Levels of surface water monitoring was recorded during the reporting period.
- 15.1.5 Landfill Gas Monitoring was carried out in the reporting period. No exceedance of Action and Limit Levels of LFG was recorded during the reporting period.
- 15.1.6 In terms of cultural heritage, implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit in the reporting period. All the mitigation measures are in order.
- 15.1.7 No post-transplantation monitoring and post-translocation monitoring was conducted during the reporting period.
- 15.1.8 53 environmental site inspections were carried out in the reporting period. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 15.1.9 Two environmental complaints regarding water quality were recorded during the reporting period.
- 15.1.10 No non-compliance event was recorded during the reporting period.
- 15.1.11 No notification of summons and prosecution was received during the reporting period.
- 15.1.12 The Contractor has generally implemented environmental mitigation measures and requirements as stated in the EIA Report, the EP and Updated EM&A Manual and the contract documents. The implemented mitigation measures are considered effective.
- 15.1.13 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site



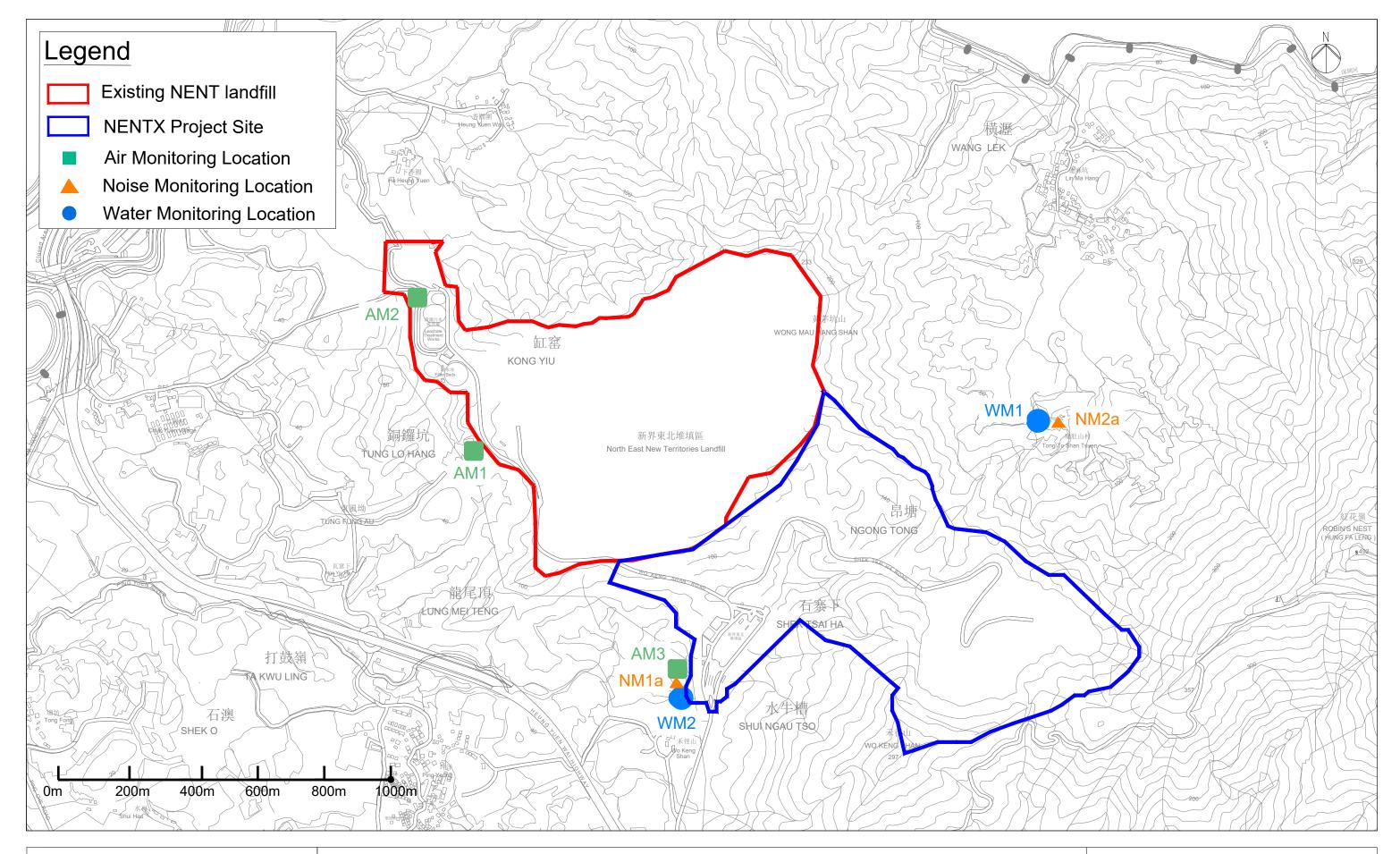


North-East New Territories (NENT) Landfill Extension Location Plan of the Project Site

Figure 1.1

Scale: 1:10000

Figure 2 Impact Air, Noise & Surface Water Quality Monitoring Locations



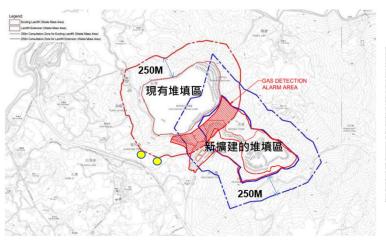


North East New Territories (NENT) Landfill Extension Impact Monitoring Location

Figure 2

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point • Monitoring Frequency: 2 times per day



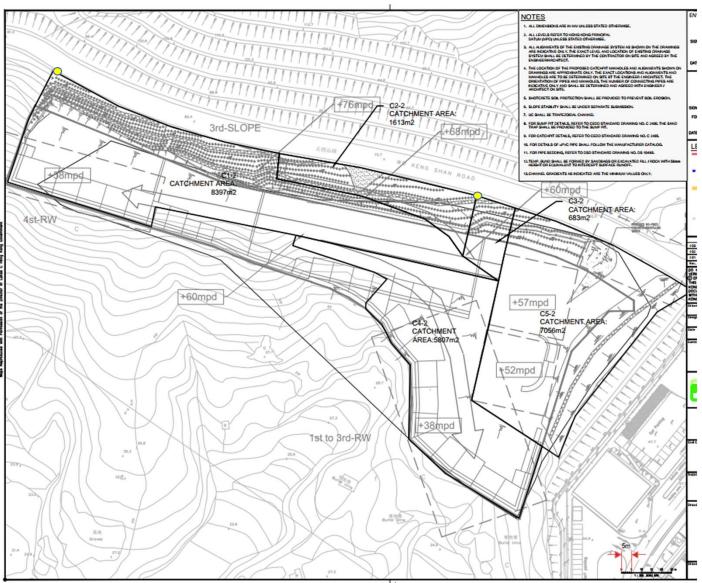
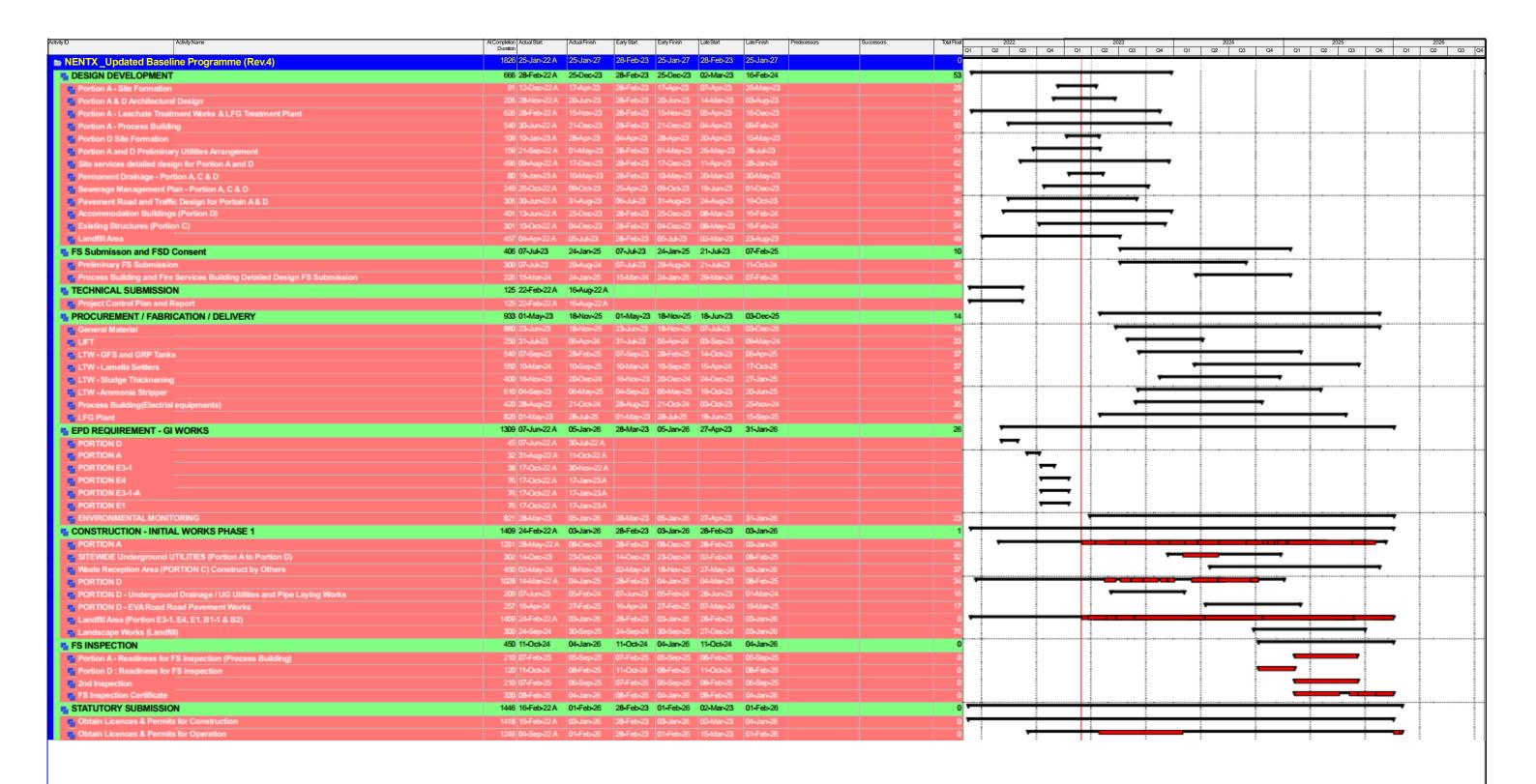


Figure 3 Landfill Gas Monitoring Locations

Appendix A Construction Programme & Construction Site Activities







NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION
UPDATED BASELINE PROGRAMME (Rev.4)
Ececutive Summary
INITIAL WORKS (PHASE 1)
Page 1 of 1



Revision	Ch	Appr
GENERAL REVISION		
GENERAL REVISION		
	GENERAL REVISION	GENERAL REVISION

Jan-24 to Nov 24

Construction Activities	Where	Who	What - ENV Impacts	Mitigation Measures
Material loading and unloading, site traffic	Portion A, SBA to Alternative Disposal Ground	PYE	Dust, bringing mud to the common haul road	Speed limit, covering of materials and water spraying, lorry washing at the exit of the site
Construction of Site buildings	Portion D	PYE	Washout flowing to site water discharge point, dust emissions	Avoid the spillage of concrete, lorry washing at designated area, operation and maintenance of water treatment facility at discharge point
Site clearance	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PYE	Wash out going to surface water channel and site water discharge point, generation of yard waste	Cover exposed slope by tarpaulin, diversion of surface water, operation and maintenance of water treatment facility at discharge point, implementation of trip ticket system
Installation of permanent fencing	Portion A, Portion B1, Portion E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Site formation	Portion A, Portion E3-1	PYE	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling	Portion E3-1, E4, E1/B2	PYE	Generation of yard waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Shotcreting (permanent and temporary)	Whole site	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Soil Nail Installation	Portion A, E1/B2, E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area, watering during works, install dust screen at work area

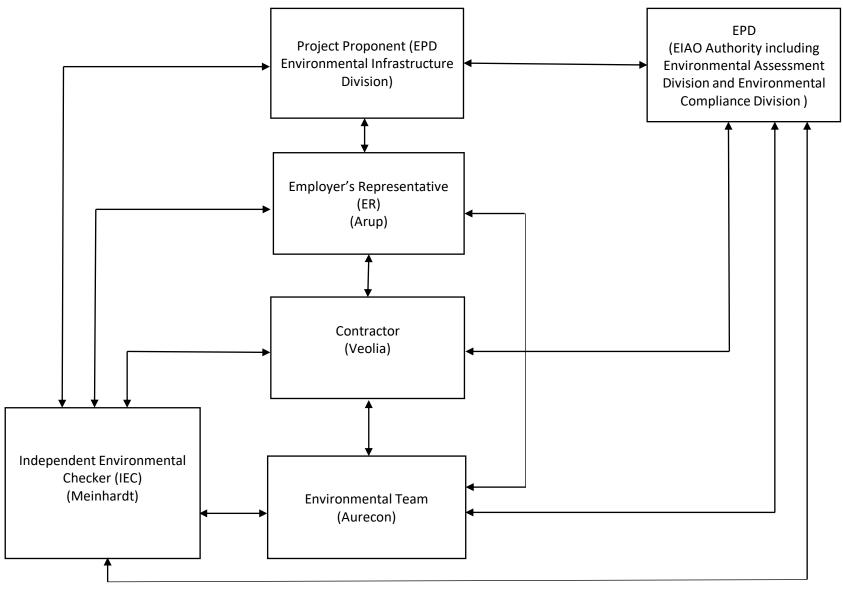
Dec-24

Construction Activities	Where	Who	What - ENV Impacts	Mitigation Measures
Material loading and unloading, backfilling of material, site traffic	Portion A, SBA to Alternative Disposal Ground	PCL	Dust, bringing mud to the common haul road	Speed limit, covering of materials and water spraying, lorry washing at the exit of the site
Construction of Site buildings	Portion D	PCL	Washout flowing to site water discharge point, dust emissions	Avoid the spillage of concrete, lorry washing at designated area, operation and maintenance of water treatment facility at discharge point
Site clearance	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PCL	Wash out going to surface water channel and site water discharge point, generation of yard waste	Cover exposed slope by tarpaulin, diversion of surface water, operation and maintenance of water treatment facility at discharge point, implementation of trip ticket system
Installation of permanent fencing	Portion A, Portion B1, Portion E4	PCL	Dust	Covering of cement storage area, enclosure of mixing area
Site formation	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PCL	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling	Whole site	PCL	Generation of yard waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Shotcreting (permanent and temporary)	Whole site	PCL	Dust	Covering of cement storage area, enclosure of mixing area
Soil Nail Installation	Portion A, E1/B2, E4	PCL	Dust	Covering of cement storage area, enclosure of mixing area, watering during works, install dust screen at work area
Installation of minipile	Portion A	PCL	Dust, generation of muddy water	Use of dust shield, regular watering, construct proper drainage to divert muddy water to treatment facility
Construction of RE Wall	Portion E3-1	PCL	Dust	Regular watering

Remark:

PCL is the Sub-contractor for this project

Appendix B Project Organization Chart & Management Structure



Notes:

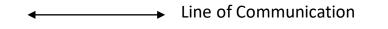
EPD - Environmental Protection Department

Arup – Ove Arup & Partners Limited

Veolia - Veolia Environmental Services Hong Kong Limited

Meinhardt - Meinhardt Infrastructure And Environment Limited

Aurecon - Aurecon Hong Kong Limited



Appendix C Detail Status of FEP & EP Submission

Detail Status of Submissions required under the FEP & EP

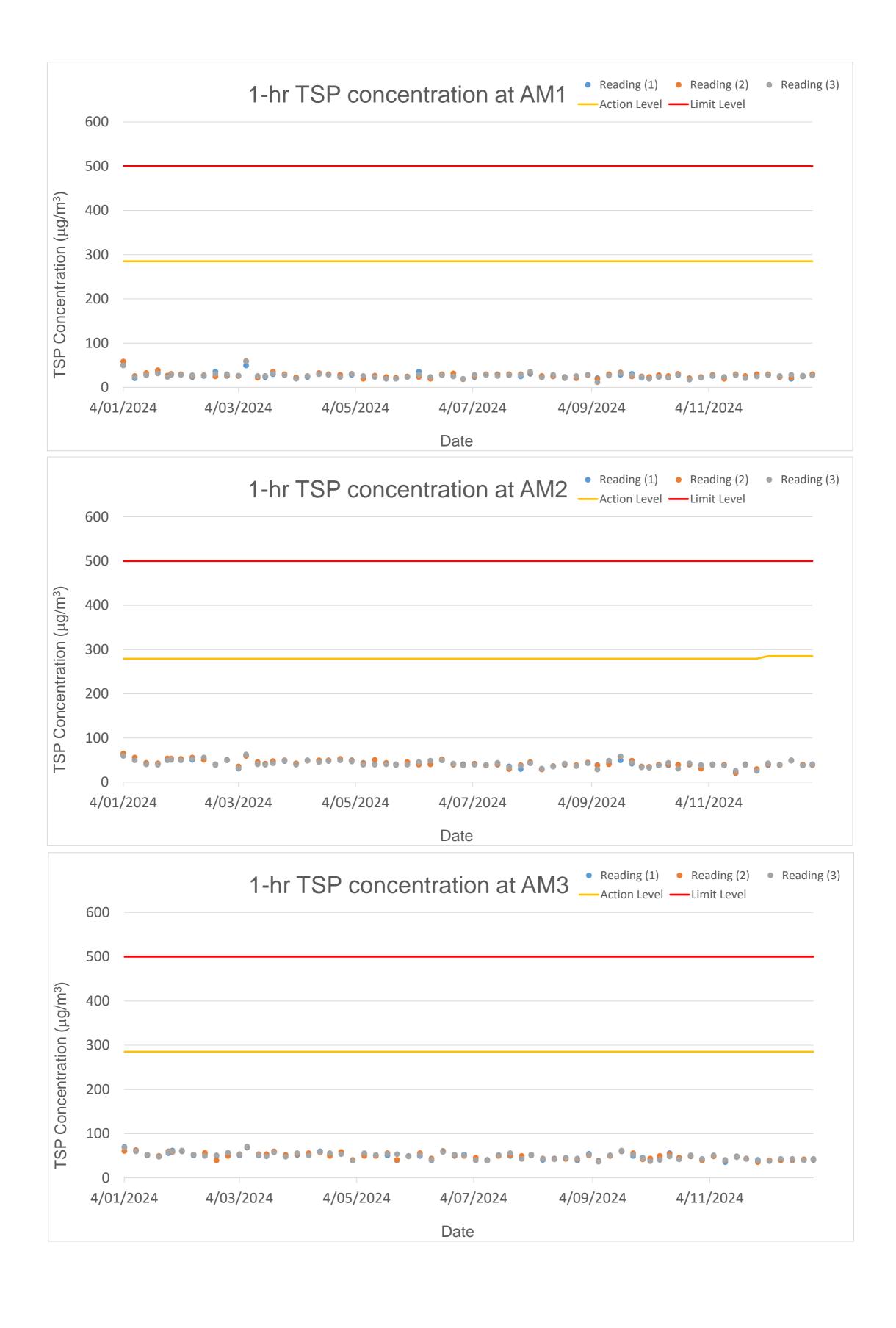
FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submission Date (12 Oct 2022)
2.2	2.4	Setting up of Community Liaison Group (CLG)	Submission Date (12 Oct 2022)
			1st CLG meeting (12 Jan 2023)
2.3	2.5	Submission of EM&A Manual	Submission Date (12 Oct 2022)
2.4	2.6	Submission of Preservation of Cultural Landscape Features	Survey and Preservation of Grave Records: Submission Date (15 Oct 2022)
			Survey and Preservation of Boulder Paths: Submission Date (12 Oct 2022)
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submission Date (2 Sep2022)
2.6	2.8	Submission of translocation proposal	Submission Date (8 Jul 2022)
2.7	2.9	Submission of Transplantation Report and Post-Transplantation	Submission Date (19 Jan 2023)
		Monitoring	1 st monitoring (24 Nov 2022)
			2 nd monitoring (9 Dec 2022)
			3 rd monitoring (21 Dec 2022)
			4th monitoring (13 Jan 2023)
			5 th monitoring (26 Jan 2023)
			6 th monitoring (8 Feb 2023)
			7 th monitoring (24 Feb 2023)
			8th monitoring (20 Mar 2023)
			9th monitoring (21 Apr 2023)
			10th monitoring (12 May 2023)
			11th monitoring (16 Jun 2023)
			12th monitoring (18 Jul 2023)
			13th monitoring (11 Aug 2023)
			14th monitoring (15 Sep 2023)
			15 th monitoring (13 Oct 2023)

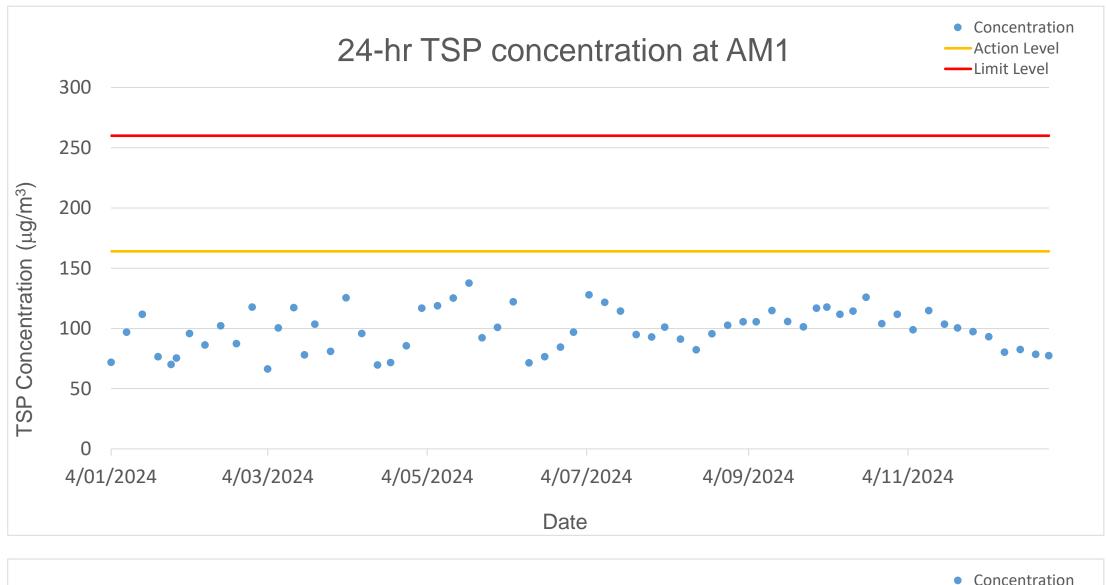
FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Translocation was carried out in July 2022
			Submission Date (27 Dec 2022)
			1st monitoring (29 Aug 2022)
			2 nd monitoring (28 Sep 2022)
			3 rd monitoring (28 Oct 2022)
			4th monitoring (22 Nov 2022)
			5 th monitoring (29 Dec 2022)
			6th monitoring (30 Jan 2023)
			7 th monitoring (24 Feb 2023)
			8th monitoring (20 Mar 2023)
			9 th monitoring (19 Apr 2023)
			10 th monitoring (17 May 2023)
			11th monitoring (7 Jun 2023)
			12 th monitoring (12 Jul 2023)
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submission Date (6 Oct 2022)
2.10	2.12	Submission of Waste Management Plan	Submission Date (30 Dec 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)

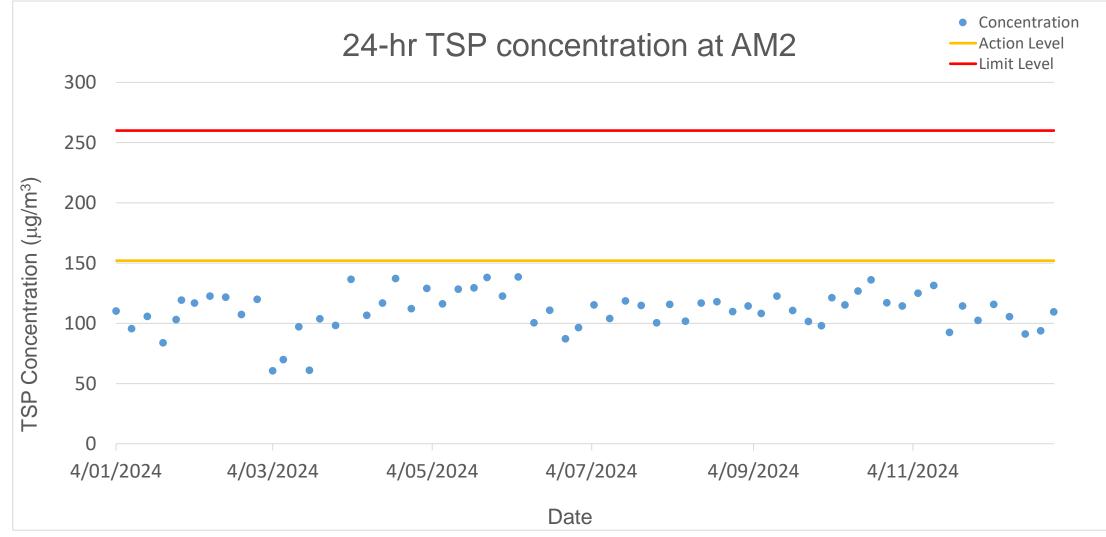
FEP Condition	EP Condition	Submission / Measures	Status	
3.3	3.3	Submission of Monthly EM&A	1 st report (Dec 2022)	
		Report	2 nd report (Jan 2023)	
			3 rd report (Feb 2023)	
			4th report (Mar 2023)	
			5 th report (Apr 2023)	
			6 th report (May 2023)	
			7 th report (Jun 2023)	
			8 th report (Jul 2023)	
			9 th report (Aug 2023)	
			10 th report (Sep 2023)	
			11th report (Oct 2023)	
			12th report (Nov 2023)	
			13th report (Dec 2023)	
			14th report (Jan 2024)	
			15th report (Feb 2024)	
			16th report (Mar 2024)	
			17 th report (Apr 2024)	
			18th report (May 2024)	
			19 th report (Jun 2024)	
			20 th report (Jul 2024)	
				21st report (Aug 2024)
			22 nd report (Sep 2024)	
			23 rd report (Oct 2024)	
			24th report (Nov 2024)	
			25th report (Dec 2024)	

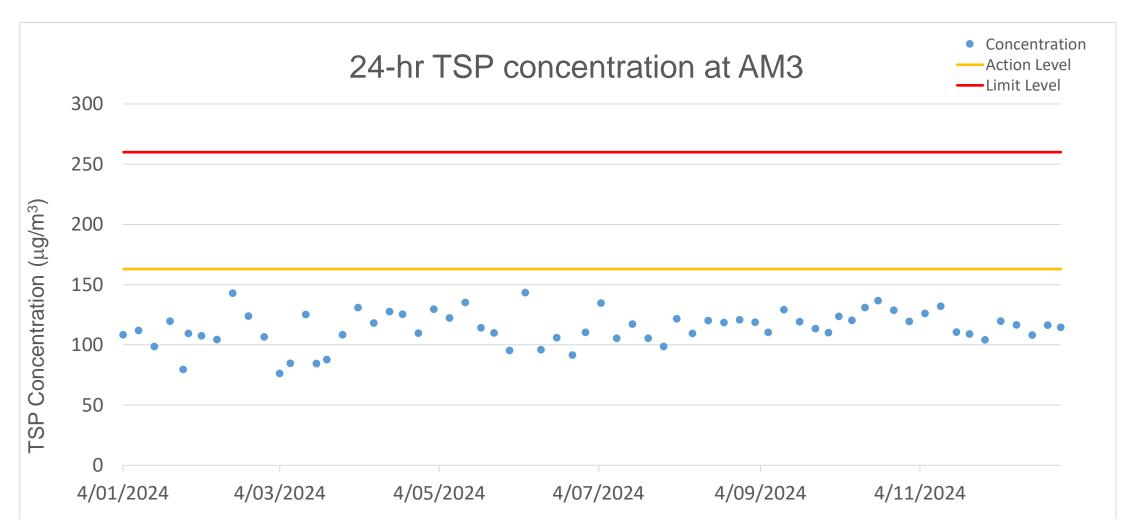
Appendix D Graphical Presentations

Air Quality

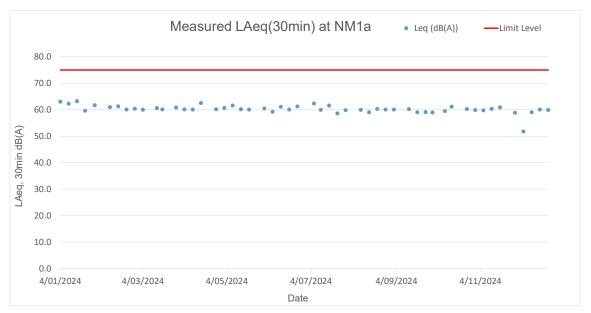


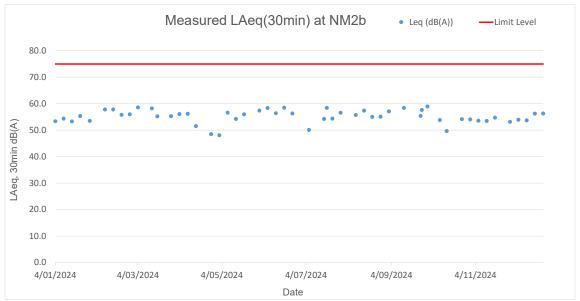




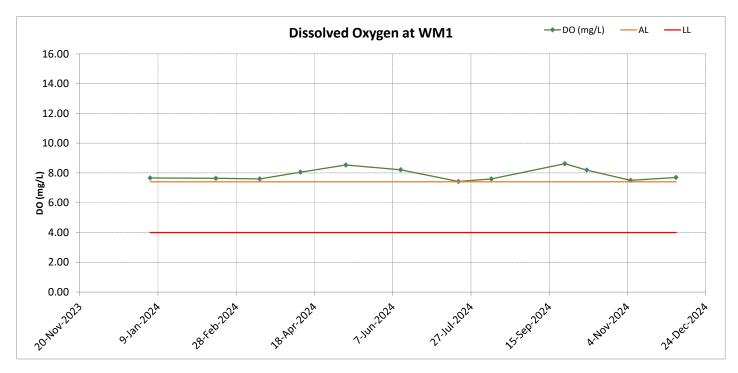


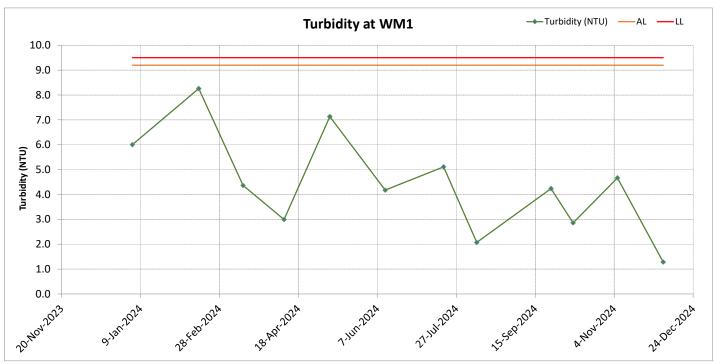
Noise

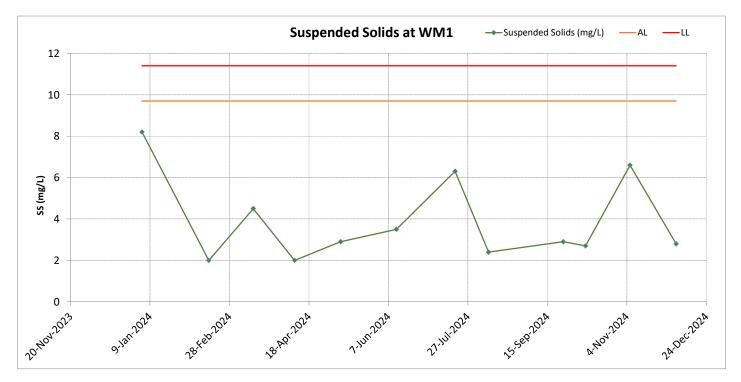


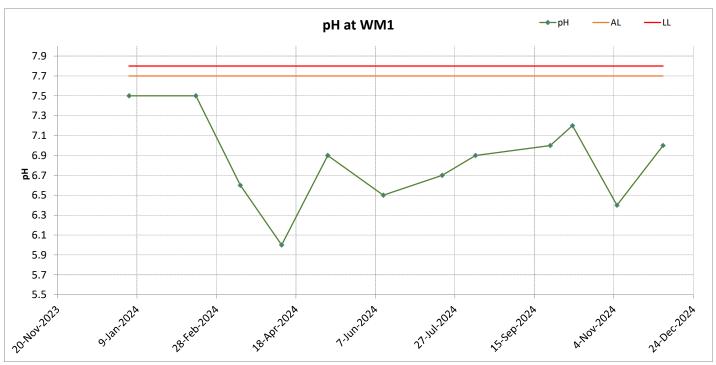


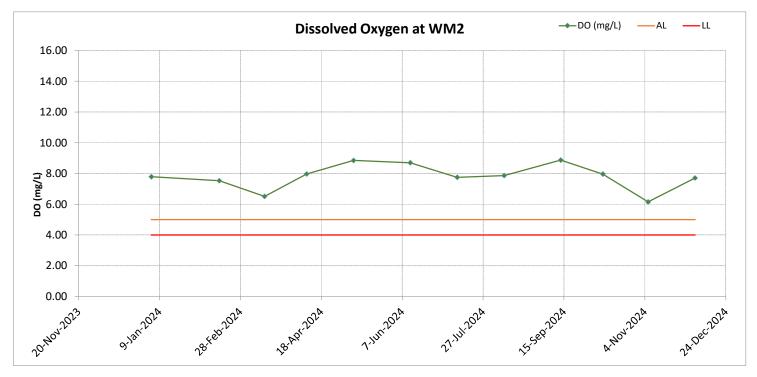
Water Quality

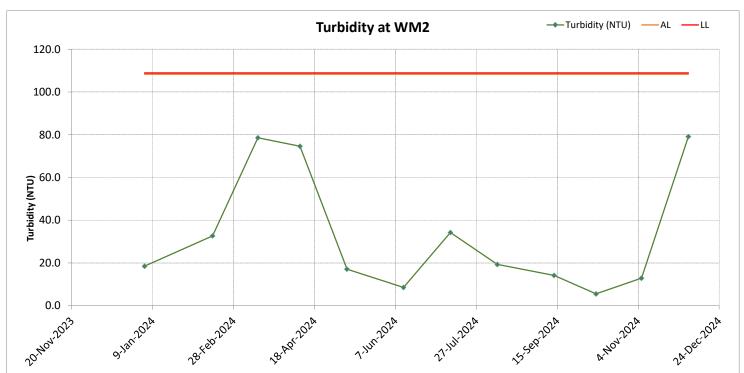


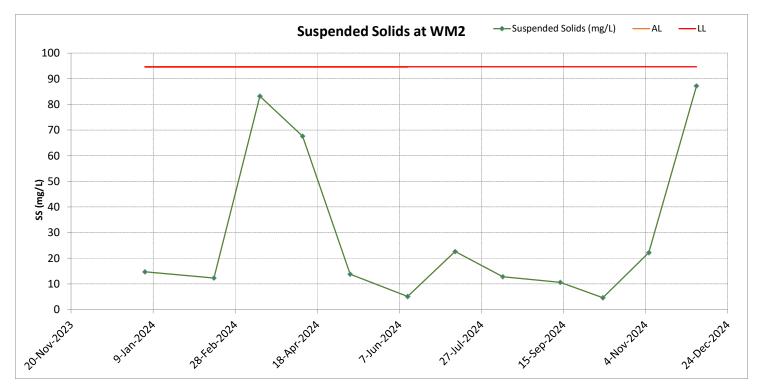


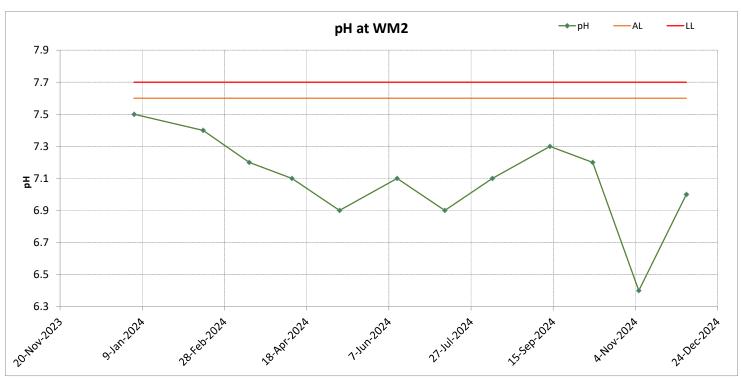












Appendix E Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

		1-hr TSP Exceedance Count			24-hr TSP Exceedance Count				
Dust Monitoring Station Level Exceedance	Level	Reporting period		Accumulate project to date		Reporting period		Accumulate project to date	
	Exceedance	Project related	Non- project related	Project related	Non- project related	Project related	Non- project related	Project related	Non- project replated
0.044	Action	0	0	0	0	0	0	0	2
AM1	Limit	0	0	0	0	0	0	0	3
A N 4 O	Action	0	0	0	0	0	0	0	0
AM2	Limit	0	0	0	0	0	0	0	0
A N 4 O	Action	0	0	0	0	0	0	0	4
AM3	Limit	0	0	0	0	0	0	0	3

Noise Monitoring

		LAeq (30mins) Exceedance Count						
Noise Monitoring Station	Level	Reportir	ng period	Accumulate project to date				
	Exceedance	Project related	Non- project related	Project related	Non- project related			
NINAA -	Action	0	0	0	0			
NM1a	Limit	0	0	0	0			
NM2a	Action	0	0	0	0			
	Limit	0	0	0	0			

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

Surface								Ex	ceedar	nce Co	unt						
Water	Level			R	eport ir	ng perio	od			Accumulate project to date							
Quality Monitoring Station	Exceedance	Project related				Non-project replated				Project related				No	Non-project replated		
		DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS
WM1	Action	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
VVIVII	Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\A/\A?	Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WM2	Limit	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Remarks:

- 1. "DO" equal to Dissolved Oxygen
- 2. "Turb" equal to Turbidity
- 3. "SS" equal to Suspended Solids

Landfill Gas (LFG) Monitoring

		Exceedance Count												
LFG	Level		F	Reportir	ng perio	d		Accumulate project to date						
Monitoring Station	Exceedance	Project related			Non-project replated			Project related			Non-project replated			
		CH ₄	CO ₂	O ₂	CH ₄	CO ₂	O ₂	CH ₄	CO ₂	O ₂	CH ₄	CO ₂	O ₂	
Portion A +50 mpD to	Action	0	0	0	0	0	0	0	0	0	0	0	0	
+70 mpD Platform	Limit	0	0	0	0	0	0	0	0	0	0	0	0	
Portion	Action	0	0	0	0	0	0	0	0	0	0	0	0	
B2/E1	Limit	0	0	0	0	0	0	0	0	0	0	0	0	

Appendix F Waste Flow Table

Waste Flow Table

No. No.			ii .									i		
Month Generated And Rock Broken Contract Cont			Total Quanti	ties of Inert C&D	Materials to be Ger	erated from	the Contract	Total Qu	antities of Re	cyclables G	eneration			
Dec-22 84.77 0 0 0 0 0 0 0 0 0	Month		and Large Broken	l .		as Public		Metals	Cardboard	Plastics		Chemical		non- recyclable
Jan-23 24.51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 24.51 0 Feb-23 506.45 0 0 0 0 0 0 0 0 0 0 0 0 3.16 0 5.85 497.44 Mar-23 9,581.15 0 0 0 9,187 0 0 0 0 0 0 3.69 0 6.96 383.5 Apr-23 18,532.07 0 0 0 18,466 0 0 0 0 0 0 0 0 1.97 0 5.81 58.29 May-23 28,889.61 0 0 0 28,473 0 0 0 0 0 0 0 0 0 0 0 7.45 409.16 Jun-23 11,574.89 0 0 0 111,211 0 0 0 0 0 0 0 0 0 0 0 7.45 409.16 Jun-23 11,574.89 0 0 0 111,211 0 0 0 0 0 0 0 0 0 0 0 2.38 0 14.69 346.82 Jul-23 50,595.49 0 0 0 50,307 0 0 0 0 0 0 0 0 0 0 2.554 262.95 Aug-23 63,178.52 0 0 0 63,076 0 0 0 0 0 0 0 0 0 0 25.54 262.95 Aug-23 63,178.52 0 0 0 42,676 0 0 0 0 0 0 0 0 0 0 33.38 0 Oct-23 55,551.68 0 0 0 55,405 0 0 0 0 0 0 0 0 0 0 0 33.38 0 Oct-23 55,551.68 0 0 0 55,405 0 0 0 0 0 0 0 0 0 0 0 0 33.38 0 Oct-23 63,389.25 0 0 0 57,681 0 529.517 0 0 0 0 0 2.48 0 34.63 375.34 Dec-23 63,389.25 0 0 0 57,681 0 529.617 0 0 0 0 2.48 0 34.26 375.34 Dec-24 125,840.50 0 0 0 166,218 0 1771.16 0 0 0 0 0 2.277 0 118.43 Mar-24 70,83.04 0 0 0 68,889 0 1324.13 0 0 0 0 2.777 0 118.43 Mar-24 70,83.04 0 0 0 68,889 0 1324.13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000L)	(in tonne)	(in tonne)
Feb-23 506.45 0 0 0 0 0 0 0 3.16 0 5.85 497.44 Mar-23 9,581.15 0 0 9,187 0 0 0 0 3.69 0 6.96 383.5 Apr-23 18,632.07 0 0 18,466 0 0 0 0 1.97 0 5.81 58.29 May-23 28,889.61 0 0 0 0 0 0 0 7.45 409.16 Jul-23 11,674.89 0 0 11,211 0 0 0 0 0 7.45 409.16 Jul-23 50,595.49 0 0 50,007 0 0 0 0 0 0 0 22.58 0 14.69 34.62 262.95 Aug-23 63,176.52 0 0 0 0 0 0 0 0 0 0 0	Dec-22	84.77	0	0	0	0	0	0	0	0	11.49	0	7.53	65.75
Mar-23 9,581.15 0 0 9,187 0 0 0 0 3.69 0 6.96 383.5 Apr-23 18,532.07 0 0 18,466 0 0 0 0 1.97 0 5.81 58.29 May-23 28,889.61 0 0 28,473 0 0 0 0 0 0 7.45 409.16 Jul-23 11,574.89 0 0 11,211 0 0 0 0 2.38 0 14.69 346.82 Jul-23 50,595.49 0 0 0 0 0 0 0 0 25.54 262.95 Aug-3 63,178.52 0 0 53,076 0	Jan-23	24.51	0	0	0	0	0	0	0	0	0	0	24.51	0
Apr-23 18,532.07 0 0 18,466 0 0 0 0 1.97 0 5.81 58.29 May-23 28,889.61 0 0 28,473 0 0 0 0 0 7.45 409.16 Jun-23 11,574.89 0 0 11,211 0 0 0 0 0 2.38 0 14.69 346.82 Jun-23 63,785.52 0 0 63,076 0 0 0 0 0 0 0 0 30.77 71.75 Aug-23 63,778.52 0 0 42,676 0	Feb-23	506.45	0	0	0	0	0	0	0	0	3.16	0	5.85	497.44
May-23 28,889.61 0 0 28,473 0 0 0 0 0 7.45 409.16 Jun-23 11,574.89 0 0 11,211 0 0 0 0 2.38 0 14.69 346.82 Jul-23 50,595.49 0 0 50,307 0 0 0 0 0 0 0 225.54 262.95 Aug-23 63,178.52 0 0 63,076 0<	Mar-23	9,581.15	0	0	9,187	0	0	0	0	0	3.69	0	6.96	383.5
Jun-23 11,574.89 0 0 11,211 0 0 0 0 2.38 0 14.69 346.82 Jul-23 50,595.49 0 0 50,307 0 <td< td=""><td>Apr-23</td><td>18,532.07</td><td>0</td><td>0</td><td>18,466</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1.97</td><td>0</td><td>5.81</td><td>58.29</td></td<>	Apr-23	18,532.07	0	0	18,466	0	0	0	0	0	1.97	0	5.81	58.29
Juli-23 50,595.49 0 0 50,307 0 0 0 0 0 25.54 262.95 Aug-23 63,178.52 0 0 63,076 0	May-23	28,889.61	0	0	28,473	0	0	0	0	0	0	0	7.45	409.16
Aug-23 63,178.52 0 0 63,076 0 0 0 0 0 0 30.77 71.75 Sep-23 42,709.75 0 0 42,676 0 </td <td>Jun-23</td> <td>11,574.89</td> <td>0</td> <td>0</td> <td>11,211</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2.38</td> <td>0</td> <td>14.69</td> <td>346.82</td>	Jun-23	11,574.89	0	0	11,211	0	0	0	0	0	2.38	0	14.69	346.82
Sep-23 42,709.75 0 0 42,676 0 28.05 116.07 Nov-23 76,127.24 0 0 0 2629.37 0 0 0 0 0 35.13 110.74 Dec-23 63,389.25 0 0 57,681 0 5296.17 0 0 0 2.48 0 34.26 375.34 Jan-24 125,840.50 0 0 125,010 0 0 0 0 0 5.59 0 71.13 753.78 Feb-24 108,176.42 0 0 106,218 0 1771.16 0 0 0 0 0 53.76 133.17 Mar-24 70,683.04	Jul-23	50,595.49	0	0	50,307	0	0	0	0	0	0	0	25.54	262.95
Oct.23 55,551.68 0 0 55,405 0 0 0 0 0 2.56 0 28.05 116.07 Nov.23 76,127.24 0 0 73,352 0 2629.37 0 0 0 0 35.13 110.74 Dec.23 63,389.25 0 0 57,681 0 5296.17 0 0 0 2.48 0 34.26 375.34 Jan-24 125,840.50 0 0 125,010 0 0 0 0 0 0 5.59 0 71.13 753.78 Feb-24 108,176.42 0 0 106,218 0 1771.16 0 0 0 0 0 5.59 0 71.13 753.78 Feb-24 108,176.42 0 0 0 0 0 0 0 0 0 133.17 Mar-24 70,683.04 0 0 0 1324.13	Aug-23	63,178.52	0	0	63,076	0	0	0	0	0	0	0	30.77	71.75
Nov-23 76,127.24 0 0 73,352 0 2629.37 0 0 0 0 35.13 110.74 Dec-23 63,389.25 0 0 57,681 0 5296.17 0 0 0 2.48 0 34.26 375.34 Jan-24 125,840.50 0 0 0 0 0 0 0 0 0 0 75.378 Feb-24 108,176.42 0 0 106,218 0 177.16 0	Sep-23	42,709.75	0	0	42,676	0	0	0	0	0	0	0	33.38	0
Dec-23 63,389.25 0 0 57,681 0 5296.17 0 0 0 2.48 0 34.26 375.34 Jan-24 125,840.50 0 0 125,010 0 0 0 0 0 5.59 0 71.13 753.78 Feb-24 108,176.42 0 0 106,218 0 1771.16 0 0 0 0 0 53.76 133.17 Mar-24 70,683.04 0 0 68,989 0 1324.13 0 0 0 3.26 0 108.43 258.01 Apr-24 77,385.12 0 0 75,092 0 1883.87 0 0 0 0 0 112.54 296.71 May-24 45,429.31 0 1396.88 42,809 0 1022.68 0 0 0 0 0 90.72 110.1 Jun-24 24,576.63 0 4716.43 19,274	Oct-23	55,551.68	0	0	55,405	0	0	0	0	0	2.56	0	28.05	116.07
Jan-24 125,840.50 0 0 125,010 0 0 0 0 5.59 0 71.13 753.78 Feb-24 108,176.42 0 0 106,218 0 1771.16 0 0 0 0 0 53.76 133.17 Mar-24 70,683.04 0 0 68,989 0 1324.13 0 0 0 3.26 0 108.43 258.01 Apr-24 77,385.12 0 0 75,092 0 1883.87 0 0 0 0 0 112.54 296.71 May-24 45,429.31 0 1396.88 42,809 0 1022.68 0 0 0 0 0 90.72 110.1 Jun-24 24,576.63 0 4716.43 19,274 0 532.8 0 0 0 2.77 0 41.98 8.58 Jul-24 60,797.99 0 3676.77 55,948 <td< td=""><td>Nov-23</td><td>76,127.24</td><td>0</td><td>0</td><td>73,352</td><td>0</td><td>2629.37</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>35.13</td><td>110.74</td></td<>	Nov-23	76,127.24	0	0	73,352	0	2629.37	0	0	0	0	0	35.13	110.74
Feb-24 108,176.42 0 0 106,218 0 1771.16 0 0 0 0 0 53.76 133.17 Mar-24 70,683.04 0 0 68,989 0 1324.13 0 0 0 3.26 0 108.43 258.01 Apr-24 77,385.12 0 0 0 75,092 0 1883.87 0 0 0 0 0 112.54 296.71 May-24 45,429.31 0 1396.88 42,809 0 1022.68 0 0 0 0 90.72 110.1 Jun-24 24,576.63 0 4716.43 19,274 0 532.8 0 0 0 2.77 0 41.98 8.58 Jul-24 60,797.99 0 3676.77 55,948 0 1114.17 0 0 0 0 0 30.1 28.82 Aug-24 70,135.60 0 16982.92 <t< td=""><td>Dec-23</td><td>63,389.25</td><td>0</td><td>0</td><td>57,681</td><td>0</td><td>5296.17</td><td>0</td><td>0</td><td>0</td><td>2.48</td><td>0</td><td>34.26</td><td>375.34</td></t<>	Dec-23	63,389.25	0	0	57,681	0	5296.17	0	0	0	2.48	0	34.26	375.34
Mar-24 70,683.04 0 0 68,989 0 1324.13 0 0 0 3.26 0 108.43 258.01 Apr-24 77,385.12 0 0 75,092 0 1883.87 0 0 0 0 0 112.54 296.71 May-24 45,429.31 0 1396.88 42,809 0 1022.68 0 0 0 0 0 90.72 110.1 Jun-24 24,576.63 0 4716.43 19,274 0 532.8 0 0 0 2.77 0 41.98 8.58 Jul-24 60,797.99 0 3676.77 55,948 0 1114.17 0 0 0 0 30.1 28.82 Aug-24 70,135.60 0 16982.92 51,327 0 1792.8 0 0 0 0 0 33.16 0 Sep-24 56,307.14 0 24837.59 28,116	Jan-24	125,840.50	0	0	125,010	0	0	0	0	0	5.59	0	71.13	753.78
Apr-24 77,385.12 0 0 75,092 0 1883.87 0 0 0 0 0 112.54 296.71 May-24 45,429.31 0 1396.88 42,809 0 1022.68 0 0 0 0 0 90.72 110.1 Jun-24 24,576.63 0 4716.43 19,274 0 532.8 0 0 0 2.77 0 41.98 8.58 Jul-24 60,797.99 0 3676.77 55,948 0 1114.17 0 0 0 0 0 30.1 28.82 Aug-24 70,135.60 0 16982.92 51,327 0 1792.8 0 0 0 0 0 33.16 0 Sep-24 56,307.14 0 24837.59 28,116 0 3321 0 0 0 0 0 26.76 5.47 Oct-24 68,639.45 0 25338.41 4	Feb-24	108,176.42	0	0	106,218	0	1771.16	0	0	0	0	0	53.76	133.17
May-24 45,429.31 0 1396.88 42,809 0 1022.68 0 0 0 0 90.72 110.1 Jun-24 24,576.63 0 4716.43 19,274 0 532.8 0 0 0 2.77 0 41.98 8.58 Jul-24 60,797.99 0 3676.77 55,948 0 1114.17 0 0 0 0 0 30.1 28.82 Aug-24 70,135.60 0 16982.92 51,327 0 1792.8 0 0 0 0 0 33.16 0 Sep-24 56,307.14 0 24837.59 28,116 0 3321 0 0 0 0 26.76 5.47 Oct-24 68,639.45 0 25338.41 41,202 0 1823.4 0 0 0 0 0 66.79 208.56 Nov-24 85,435.04 0 28544.17 43,390 0	Mar-24	70,683.04	0	0	68,989	0	1324.13	0	0	0	3.26	0	108.43	258.01
Jun-24 24,576.63 0 4716.43 19,274 0 532.8 0 0 0 2.77 0 41.98 8.58 Jul-24 60,797.99 0 3676.77 55,948 0 1114.17 0 0 0 0 0 30.1 28.82 Aug-24 70,135.60 0 16982.92 51,327 0 1792.8 0 0 0 0 0 33.16 0 Sep-24 56,307.14 0 24837.59 28,116 0 3321 0 0 0 0 0 26.76 5.47 Oct-24 68,639.45 0 25338.41 41,202 0 1823.4 0 0 0 0 0 66.79 208.56 Nov-24 85,435.04 0 28544.17 43,390 0 13323.6 0 0 0 0 0 148.02 29.25 Dec-24 140,022.62 0 53493.89	Apr-24	77,385.12	0	0	75,092	0	1883.87	0	0	0	0	0	112.54	296.71
Jul-24 60,797.99 0 3676.77 55,948 0 1114.17 0 0 0 0 30.1 28.82 Aug-24 70,135.60 0 16982.92 51,327 0 1792.8 0 0 0 0 0 33.16 0 Sep-24 56,307.14 0 24837.59 28,116 0 3321 0 0 0 0 0 26.76 5.47 Oct-24 68,639.45 0 25338.41 41,202 0 1823.4 0 0 0 0 0 66.79 208.56 Nov-24 85,435.04 0 28544.17 43,390 0 13323.6 0 0 0 0 0 148.02 29.25 Dec-24 140,022.62 0 53493.89 85,040 0 1199.95 0 0 0 0 0 0 131.47 157.31	May-24	45,429.31	0	1396.88	42,809	0	1022.68	0	0	0	0	0	90.72	110.1
Aug-24 70,135.60 0 16982.92 51,327 0 1792.8 0 0 0 0 0 0 33.16 0 Sep-24 56,307.14 0 24837.59 28,116 0 3321 0 0 0 0 0 26.76 5.47 Oct-24 68,639.45 0 25338.41 41,202 0 1823.4 0 0 0 0 0 66.79 208.56 Nov-24 85,435.04 0 28544.17 43,390 0 13323.6 0 0 0 0 0 148.02 29.25 Dec-24 140,022.62 0 53493.89 85,040 0 1199.95 0 0 0 0 0 131.47 157.31	Jun-24	24,576.63	0	4716.43	19,274	0	532.8	0	0	0	2.77	0	41.98	8.58
Sep-24 56,307.14 0 24837.59 28,116 0 3321 0 0 0 0 0 26.76 5.47 Oct-24 68,639.45 0 25338.41 41,202 0 1823.4 0 0 0 0 0 66.79 208.56 Nov-24 85,435.04 0 28544.17 43,390 0 13323.6 0 0 0 0 0 148.02 29.25 Dec-24 140,022.62 0 53493.89 85,040 0 1199.95 0 0 0 0 0 131.47 157.31	Jul-24	60,797.99	0	3676.77	55,948	0	1114.17	0	0	0	0	0	30.1	28.82
Oct-24 68,639.45 0 25338.41 41,202 0 1823.4 0 0 0 0 66.79 208.56 Nov-24 85,435.04 0 28544.17 43,390 0 13323.6 0 0 0 0 0 148.02 29.25 Dec-24 140,022.62 0 53493.89 85,040 0 1199.95 0 0 0 0 0 131.47 157.31	Aug-24	70,135.60	0	16982.92	51,327	0	1792.8	0	0	0	0	0	33.16	0
Nov-24 85,435.04 0 28544.17 43,390 0 13323.6 0 0 0 0 0 148.02 29.25 Dec-24 140,022.62 0 53493.89 85,040 0 1199.95 0 0 0 0 0 131.47 157.31	Sep-24	56,307.14	0	24837.59	28,116	0	3321	0	0	0	0	0	26.76	5.47
Dec-24 140,022.62 0 53493.89 85,040 0 1199.95 0 0 0 0 0 131.47 157.31	Oct-24	68,639.45	0	25338.41	41,202	0	1823.4	0	0	0	0	0	66.79	208.56
	Nov-24	85,435.04	0	28544.17	43,390	0	13323.6	0	0	0	0	0	148.02	29.25
Total 1,354,174.24 0.00 158,987.06 1,152,250 0.00 37,035.10 0.00 0.00 0.00 39.35 0.00 1,174.79 4,687.57	Dec-24	140,022.62	0	53493.89	85,040	0	1199.95	0	0	0	0	0	131.47	157.31
	Total	1,354,174.24	0.00	158,987.06	1,152,250	0.00	37,035.10	0.00	0.00	0.00	39.35	0.00	1,174.79	4,687.57

Note:

^{1.} The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

^{2.} Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

Appendix G Environmental Mitigation Implementation Schedule (EMIS)

		on Implementat	indini Extension ion Schedule (EMIS) Construction Phase					
EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Air Quali	•	D7 D00			0 1 1	E.C. NENT	T	
S3.8.1	S3.1.8	B7 – B36	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Good construction site practices to	Contractor	Entire NENT Landfill	To control the dust impact to within the criteria of EIA	√
		B4, B15 & B18		control the dust impact at the nearby		Extension site	Report (Register No. AEIAR- 111/2007)	✓
		B11 – B12	Watering facilities will be provided at every designated vehicular exit point.	sensitive receivers to within the relevant criteria.				Vehicle washing facilities provided at vehicular exit point in Portion A, B1-2, D, E3-1 & E4
		-	Good site practice is recommended during construction phase.	- ontona.				✓
	tion Noise	<u>'</u>						
S4	S4.9	C1	Use of good site practices to limit noise emissions by considering the following: Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;	Control construction airborne noise by means of good site	Contractor	Entire construction site	Noise Control Ordinance	✓
		C2	(b) Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;	practices				✓
		C3	(c) Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;					✓
		C4	(d) Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;					N/A
		C5	(e) Mobile plant should be sited as far away from NSRs as possible and practicable;					✓
		C6	(f) Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
S4	S4.9	C11 – C13	2) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	Entire construction site	Noise Control Ordinance & its TM	✓
						Site	Annex 5, TM-EIA	
Construc	tion Runoff	:		I		1	I	
S5.8.1	S5.2.1	D1	Construction on Site Runoff	Control construction	Contractor	Entire	ProPECC PN 1/94	(a) √
			(a) At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. (b) Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers	runoff and erosion from site surface, drainage channel,		Construction site	Water Pollution Control Ordinance	(b) 🗸
			should be provided on site to direct stormwater to silt removal facilities.	stockpiles, wheel				
		D2	(a) The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. (b) Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse,	washing facilities, etc to minimize water				(a) √
			through a silt/sediment trap. (c) The sediment/silt traps should be incorporated in the permanent drainage channels	quality during				(b) √
			to enhance deposition rates.	construction stage				(c) √
		D3	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions.					✓
		D4	(a) Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). (b) All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. (c) If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.					(a) ✓ (b) ✓ (c) ✓

Remarks:

Compliance of mitigation measure

* Recommendation was made during site audit but improved/rectified by the contractor

Recommendation was made during site audit but not yet improved/rectified by the contractor.

N/A Not Applicable at this stage were conducted in the reporting period.

@ (Which measure) Alternative measure was made by the contractor.

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North East New Territories (NENT) Landfill Extension Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

			ion Schedule (EMIS) Construction Phase	Objectives of the	\M/bo to	Location of the	What requirement as	Ctatus
EIA	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
Ref.	Log Ref		(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
		Inspection		Measures & Main	the		achieve?	
0 1 1	5 "	Item		Concerns to address	measures?			
	tion Runoff	, ,				le.	D 0500 DV (12)	
S5.8.1	S5.2.1	D5	(a) The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water	Control construction	Contractor	Entire	ProPECC PN 1/94	(a) √
			flows, and (b) all traffic areas and access roads protected by coarse stone ballast. An additional advantage	runoff and erosion		Construction		(b) √
			accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement	from site surface,		site	DSD Technical Circular	
			weather and the reduction of surface sheet flows.	drainage channel,			TC01/2017	
		D6	• (a) All drainage facilities and erosion and sediment control structures should be regularly inspected and (b)	stockpiles, wheel				(a) √
			maintained to ensure proper and efficient operation at all times and particularly following rainstorms. (c)	washing facilities, etc			Water Pollution Control	(b) √
			Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated	to minimize water			Ordinance	(c) √
			areas.	quality during				(-)
		D7	• (a) Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of	construction stage				(a) √
			trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable.					(b) √
			(b) Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt					
			removal facilities.					
		D8	Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m ³					✓
			should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the					
			washing away of construction materials, soil, silt or debris into any drainage system.					
		D9	(a) Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed					(a) √
			so as (b) to prevent silt, construction materials or debris being washed into the drainage system and storm					(b) √
			runoff being directed into foul sewers.					
		D10	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm					✓
			is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2					
			of ProPECC PN 1/94. Particular attention should be paid to the control of silly surface runoff during storm					
			events, especially for areas located near steep slopes.					
		D11	• (a) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris					(a) √
			and the like is deposited by them on roads. (b) An adequately designed and sited wheel washing bay should					(b) √
			be provided at every construction site exit. (c) Wash-water should have sand and silt settled out and removed					(c) ✓
			at least on a weekly basis (d) to ensure the continued efficiency of the process. (e) The section of access road					(d) ✓
			leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall					
			toward the wheel-wash bay to prevent vehicle tracking of soil and silly water to public roads and drains.					(e) √
		D12	• (a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources.					(a) N/A
			(b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into					(b) N/A
			the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil					(c) N/A
			interceptors to prevent flushing during heavy rain.					
		D13	Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to					✓
			avoid water quality impacts. Requirements for solid waste management are detailed in Section 6 of this Report.					
		D14	All fuel tanks and storage areas should be provided with docks and sited on sealed areas, within bunds of a					✓
			capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching					
			water sensitive receivers nearby.					
		D15	To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or					✓
			barrier along the roadside should be constructed.					
		D19	Sewage Effluent from Workforce					(a) √
			• (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage					(b) √
			generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate					
			portable toilets and be responsible for appropriate disposal and maintenance.					
		D20	Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or					N/A
			wastewater into the nearby environment during the construction phase of the Project.					
Remarks:	1	1	<u> </u>	I	1	1	1	1

Compliance of mitigation measure

Recommendation was made during site audit but improved/rectified by the contractor

Recommendation was made during site audit but not yet improved/rectified by the contractor.

Not Applicable at this stage were conducted in the reporting period.

Alternative measure was made by the contractor. @ (Which measure)

			tion Schedule (EMIS) Construction Phase		1			
EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construc	tion Runoff ((Cont'd)						
S5.8.1	S5.2.1	D19	Sewage Effluent from Workforce • (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Control sewage effluent arising from the sanitary facilities provided for the on-	Contractor	On-site sanitary facilities	ProPECC PN 1/94 DSD Technical Circular TC01/2017	(a) √ (b) √
		D20	Notices will 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.	site construction workforce			Water Pollution Control Ordinance	N/A
		-	Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.				Waste Disposal Ordinance	√
S5.8.1	S5.2.1	D21	Accidental Spillage of Chemical (a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas.	Control of chemical leakage	Contractor	Service workshop and maintenance facilities	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) N/A (b) N/A
F	2 1 1 1						Waste Disposal Ordinance	
S5.8.2	S5.2.2	-	Erosion Control /Measures a. Preserve Natural Vegetation This Best Management Practices will involve preserving natural vegetation to the greatest extent possible	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control	✓
			during the construction process. and after construction where appropriate. Maintaining natural vegetation is the most effective and inexpensive form of erosion prevention control. b. Provision of Buffer Zone				Ordinance	
		-	A buffer zone consists of an undisturbed area or strip of natural vegetation or an established suitable planting adjacent to a disturbed area that reduces erosion and runoff. The rooted vegetation holds soils acts as a wind break and filters runoff that may leave the site.					√
		-	c. Seeding (Temporary/Permanent) A well-established vegetative cover is one of the most effective methods of reducing erosion. Vegetation should be established on construction sites as the slopes are finished, rather than waiting until all the grading is complete. Besides, Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers for inactive tipping areas to prevent soil erosion during rainy season.					√
		-	d. Ground Cover Ground Cover is a protective layer of straw or other suitable material applied to the soil surface. Straw mulch and/or hydromulch are also used in conjunction with seeding of critical areas for the establishment of temporary or permanent vegetation. Ground cover provides immediate temporary protection from erosion. Mulch also enhances plant establishment by conserving moisture, holding fertilizer, seed, and topsoil in place, and moderating soil temperatures.					To be implemented
		-	e. Hydraulic Application Hydraulic application is a mechanical method of applying erosion control materials to bare soil in order to establish erosion-resistant vegetation on disturbed areas and critical slopes. By using hydraulic equipment, soil amendments, mulch, tackifying agents, Bonded Fiber Matrix (BFM) and liquid co-polymers can be uniformly broadcast, as homogenous slurry, onto the soil. These erosion and dust control materials can often be applied in one operation.					To be implemented
			f. Sod Establishes permanent turf for immediate erosion protection and stabilizes drainageways.					✓
			g. Matting There are numerous erosion control products available that can be described in various ways, such as matting, blankets, fabric and nets. These products are referred as matting. A wide range of materials and combination of materials are used to produce matting including, but not limited to: straw, jute, wood fiber, coir (coconut fiber), plastic netting, and Bonded Fiber Matrix. The selection of matting materials for a site can make a significant difference in the effectiveness of the Best Management Practices.					√

Remarks:

Compliance of mitigation measure

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 $Recommendation \ was \ made \ during \ site \ audit \ but \ not \ yet \ improved/rectified \ by \ the \ contractor.$

Not Applicable at this stage were conducted in the reporting period.

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North East New Territories (NENT) Landfill Extension

Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

			tion Schedule (EMIS) Construction Phase					
EIA	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
Ref.	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
		Inspection		Measures & Main	the		achieve?	
		Item		Concerns to address	measures?			
Erosion C	Control Mea	sures (Cont'o						
S5.8.2	S5.2.2		h. Plastic Sheeting	Erosion control	Contractor	Drainage	ProPECC PN 1/94	✓
			Plastic Sheeting will provide immediate protection to slopes and stockpiles. However, it has been known to			system		
			transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually				Water Pollution Control	
			attributable to poor application, installation and maintenance.				Ordinance	
		-	i. Dust Control					✓
			Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and					
			reduce sediment transported by wind and deposited in water resources.					
Surface \	Water Draina	age System						
S5.8.2	S5.2.2	D22	• (a) Temporary surface water drainage system will be provided to manage runoff during construction and	Surface Water	Contractor	Surface water	Water Pollution Control	(a) √
			operation. (b) This system will consist of channels as constructed around the perimeter of the site area. (c)	Management/ Control		system	Ordinance	(b) √
			This system will collect surface water from the areas of higher elevations to those of lower elevations and	run off		Construction		(c) ✓
			ultimately to the point of discharge. (d) Erosion will therefore be minimised.				TM-water	
		B00		_				(d) √
		D23	• (a) The temporary surface water drainage system will include the use of a silt fence around the soil stockpile					(a) √
			areas to prevent sediment from entering the system. (b) Regular cleaning will be carried out to prevent blockage					(b) √
			of the passage of water flow in silt fence.					
		-	• Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate					N/A
			drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with					
			the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover,					
			thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean					
			surface water run-off and divert it to the permanent discharge channels connected to the public drainage					
			system.					
		-	• In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a					N/A
			dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment.					
Waste Ma	anagement	•		1	'	•	•	
S6	WM1	-	C&D Materials	Good site practice to	Contractor	Entire	Waste Disposal Ordinance	✓
				minimise C&D waste		construction		
			Implement proper waste management measures during construction phase as stipulated in the Environmental The Total Total Access F	generation and		site	ETWB TC(W) No. 19/2005	
			Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in	reuse/recycle all C&D				
			Construction Sites.	on-site as far as			DEVB TC(W) No. 6/2010	
		-	• Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and	possible				✓
			verified in accordance with DEVB TC(W) No. 6/2010. Copies/counterfoils from trip-tickets (with quantities of					,
			C&D Materials off-site) should be kept for record purposes.					
		-	Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005.					✓
		E4	(a) Make provisions in Contract documents to allow and promote the use of recycled aggregates where	_				(a) •/
		L4	appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill	1				(a) √
			extension project. (b) The contract specifications should specify no excavated materials should be removed					(b) √
			from the landfill extension site, but should be fully reused.					
			nom the landin extension site, but should be fully reused.					
		E5	Careful design, planning and good site management to minimise over-ordering and waste materials such as]				(a) √
			concrete, mortars and cement grouts. (a)(b) The design of formwork should maximise the use of standard					(b) √
			wooden panels so that high reuse levels can be achieved. (c) Alternatives such as steel formwork or plastic					(c) √
			fencing should be considered to increase the potential for reuse.					(6) 4
	1	F0						
		E6	• (a) The Contractor should recycle as much as possible the C&D waste on-site through proper waste					(a) √
			segregation on-site. (b) Concrete and masonry should be used as general fill and steel reinforcement bars can					(b) √
			be used by scrap steel mills. (c) Proper areas should be designated for waste segregation and storage					(c) √
			wherever site conditions permit. (d) Maximise the use of reusable steel formwork to reduce the amount of C&D					(d) √
			material.					` ' '
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Compliance of mitigation measure

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IA	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
		Inspection	(to be mapped and angular color to consider a color to co	Measures & Main	the		achieve?	
		Item		Concerns to address	measures?		domeve.	
Vacto Ma	ınagement (Concerns to address	measures:			
3	WM1	E7	(a) Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. On-site	Good site practice to	Contractor	Entire	Waste Disposal Ordinance	100
١	VVIVII	=1		minimise C&D waste	Contractor	1	Waste Disposal Ordinance	(a) \checkmark
			sorting and segregation facility of all type of wastes is considered as one of the best practice in waste			construction	ETIMP TO(M) No. 10/2005	(b) √
			management and hence, should be implemented in all projects generating construction waste. (b) The sorted	generation and		site	ETWB TC(W) No. 19/2005	
			public fill and C&D waste should be properly reused.	reuse/recycle all C&D on-site as far as			DEVID TO(M) No. 6/2010	
		E8	• (a) Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to				DEVB TC(W) No. 6/2010	(a) √
			prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather. (b)(c) Appropriate	possible				(b) √
			measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by					1 1 1
			transporting wastes in enclosed containers					(c) √
		E9	If any topsoil-like materials need to be stockpiled for any length of time, consideration should be given to					✓
			hydroseeding of the topsoil on the stockpile to improve its visual appearance and prevent soil erosion.					
		E10	Noningting of annual design of the control of the c					
		E10	Nomination of approved personnel to be responsible for good site practices and making arrangements for a literature of all was to a personnel to be responsible for good site practices and making arrangements for a literature of all was to a personnel to be responsible for good site practices and making arrangements for a literature of all was to a personnel to be responsible for good site practices and making arrangements for a literature of a literatur					✓
			collection of all wastes generated on-site and effective disposal.					
		E11	Training of site personnel for cleanliness, proper waste management procedures including chemical waste					✓
			handling, and waste reduction, reuse and recycling concepts.					
		E12	Regular cleaning and maintenance programme systems, sumps and oil interceptors.					✓
		E13	(a) Prior to disposal of C&D waste, wood, steel and other metals should be separated for re-use and/or	ould be separated for re-use and/or)(c) Proper storage and site practices nation of construction materials.				(a) √
			recycling to minimise the quantity of waste to be disposed of to landfill. (b)(c) Proper storage and site practices					(b) √
			should be implemented to minimise the potential for damage or contamination of construction materials.					1 : 1
								(c) N/A
			Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Minimise excessive ordering of concrete, mortars and cement grout by doing careful check					✓
			before ordering.					
	WM2	E16 –	Chemical Waste	Ensure proper	Contractor	Entire	Waste Disposal (Chemical	✓
	VVIVIZ	E23		disposal of chemical	Contractor	construction	Waste) General	*
		223	Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General)	waste generated on-		site	Regulation	
			Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and	site to minimise the		0.10	, regulation	
			Storage of Chemical Wastes.	associated hazards			Code of Practice on the	
			Plant/equipment maintenance schedule should be designed to optimise maintenance effectiveness and to	on human health and			Packaging, Labelling and	✓
		_	minimise the generation of chemical wastes. Where possible, chemical wastes (e.g. waste lube oil) should be	environment			Storage of Chemical Waste	*
			recycled by licensed treatment facilities				Storage of Griefinian France	
			recycled by ilicensed freatment lacilities					
		E17 &	Containers used for storage of chemical wastes should be suitable for the substance they are holding, resistant					✓
		E18	to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless					
			the specification has been approved by the EPD. Display a label in English and Chinese in accordance with					
			instructions prescribed in Schedule 2 of the Regulation.					
		F10						
		E19	• (a) The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical					(a) √
			waste, (b) enclosed with at least 3 sides, having an impermeable floor and bund of sufficient capacity to					(b) N/A
			accommodate 110% of volume of the largest container or 20 % of total volume of waste stored in that area,					(c) N/A
			(c)(d) whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and					(d) N/A
			being arranged so that incompatible materials are adequately separated.					
		E20	Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g.					✓
			Chemical Waste Treatment Centre.					['
		I .		I	1	1	i	

Remarks:

Compliance of mitigation measure

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@ (Which measure) Alternative measure was made by the contractor.

5

١	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
		Inspection		Measures & Main	the		achieve?	
		Item		Concerns to address	measures?			
M	anagement ((Cont'd)						
	WM3	E1	General Refuse	Minimise generation	Contractor	Entire	Waste Disposal Ordinance	✓
			General refuse generated on-site should be properly stored in enclosed bins or compaction units separately	of general refuse to		construction		
			from construction and chemical wastes.	avoid odour, pest and		site		
		E2	• (a) All recyclable materials (separated from the general waste) should be stored on-site in appropriate	visual nuisance				(a) √
			containers with cover prior to collection by a local recycler for subsequent reuse and recycling. Residual, non-					(b) √
			recyclable, general waste should be stored in appropriate containers to avoid odour. (b)(c)(d) Regular collection					(c) √
			should be arranged by an approved waste collector in purpose-built vehicles that minimise environmental					(d) √
			impacts during transportation					
		-	Reputable waste collector should be employed by the Contractor to remove general refuse from the site,					✓
			separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts.					
			Burning of refuse on construction sites is prohibited by law.					
		-	Aluminium cans should be separated from general waste stream and collected by recyclers. Proper collection					✓
			bins should be provided on- site to facilitate the waste sorting.					
		-	Office waste paper should recycled if the volume warrant collection by recyclers. Participation in community					✓
			waste paper recycling programme should be considered by the Contractor, including waste paper, aluminium					
			cans, plastic bottles, waste batteries, etc.					
n NE	ENT Landfill			I =	T -			1
	LFG1	F1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill	To minimise the risk	Contractor	Entire	Landfill Gas Hazard	N/A
			to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	of LFG hazards to		construction	Assessment Guidance Note	
	LFG2	F2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during	personnel in		site	(EPD/TR8/97)	✓
	1500		excavation works.	construction site			[[[] [] [] [] [] [] [] [] []	
	LFG3	F3	No smoking or burning should be permitted on-site.				F&IU (Confined Spaces)	✓
	LFG4	F4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.				Regulations	✓
	LFG5	F5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.				Code of Practice on Safety	✓
	LFG6	F6	Adequate fire fighting equipment should be provided on-site.				and Health at Work in	✓
	LFG7	F7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark				Confined Spaces	✓
			arrestors.					
	LFG8	F8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					✓
	LFG9	F9	'Permit to Work' system should be implemented.					✓
	LFG10	F10	Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear	-				•
			safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.					'
	LFG11	F11	(a) For piping assembly or conduit construction, all valves and seals should be closed immediately after installation	1				(a) N/A
			to avoid accumulation and migration of LFG. (b) If installation of large diameter pipes (diameter >600mm) is					(b) N/A
			required, the pipe ends should be sealed on one side during installation. (c) Forced ventilation is required prior to					(c) N/A
			operation of installed pipeline. (d) Forced ventilation should also be required for works inside trenches deeper than					(d) N/A
			1m.					
	LFG12	F12	Frequency and location of LFG monitoring within excavation area should be determined prior to commencement of	1				✓
			works. LFG monitoring in excavations should be conducted at no more than 10mm from exposed ground surface.					
	LFG13	F13	For excavation works, LFG monitoring should be conducted (1) at ground surface prior to excavation, (2)					✓
			immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically					
			throughout the working day when workers are in the excavation.					
	LFG14	F14	Any cracks on ground level encountered on-site should be monitored for LFG periodically. Appropriate action should					✓
			be taken in accordance with the action plan in Table 7.6 of EIA Report.					
	LFG15	F15	(a) LFG precautionary measures involved in excavation and piping works should be provided in accordance with					(a) N/A
			LFG Guidance Note and included in Safety Plan of construction phase. (b) Temporary offices or buildings should					(b) N/A
		İ	be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.					

Compliance of mitigation measure

Recommendation was made during site audit but improved/rectified by the contractor

Recommendation was made during site audit but not yet improved/rectified by the contractor.

Not Applicable at this stage were conducted in the reporting period.

Alternative measure was made by the contractor. @ (Which measure)

		ation Implementa	tion Schedule (EMIS) Construction Phase					
EIA	EM&A	Weekly Site	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
Ref.	Log	Inspection	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
	Ref	Item	(,,,	Measures & Main	the		achieve?	
				Concerns to address	measures?			
LFG (C	`ont'd)			Concerns to address	mododioo.			
	,	dfill Extension						
				T	0 1 1	T = 0	1	
S7	LFG16	F16	For large development such as NENT landfill extension, a Safety Officer trained in the use of gas detection	To minimise the risk	Contractor	Entire	Landfill Gas Hazard	✓
			equipment and LFG- related hazards should be present on-site throughout the groundwork phase. The Safety	of LFG hazards to		construction site	Assessment Guidance Note	
			Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of	personnel in			(EPD/TR8/97)	
			measuring the following gases:	construction site				
			•CH₄: 0-100% and LEL: 0-100%/v				F&IU (Confined Spaces)	
			•CO ₂ : 0-100%				Regulations	
			•O ₂ : 0-21%					
	LFG17	F17	(a) Periodically during groundwork construction, the works area should be monitored for CH ₄ CO ₂ and O ₂ using				Code of Practice on Safety	(a) N/A
			appropriately calibrated portable gas detection equipment. The monitoring frequency and areas should be				and Health at Work in	(b) N/A
			established prior to commencement of groundwork either by Safety Officer or appropriately qualified person. (b)				Confined Spaces	(c) N/A
			Routine monitoring should be carried out in all excavations, manholes, created by temporary storage of building					
			materials on-site. (c) All measurements in excavations should be made with monitoring tube located not more than					
			10mm from exposed ground surface.					
	LFG18	F18	For excavations deeper than 1m, measurements should be conducted:					✓
			At ground surface before excavation commences;					,
			Immediately before any worker enters the excavation;					
			At the beginning of each working day for entire period the excavation remains open; and					
			Periodically throughout the working day whilst workers are in excavation.					
+	LFG19	E10	For excavations between 300mm and 1m, measurements should be conducted:	-				./
	LFG19	F19						✓
			Directly after excavation has been completed; and Desired to all while the constant areas in a grant and areas. Output Desired to all while the constant areas in a grant and areas.					
-	15000	F00	Periodic all whilst excavation remains open.	_				,
	LFG20	F20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately					✓
			qualified person.					
		isual Phases						
S8	LV1	G4	Advanced screening tree planting	To minimise the	Contractor	Entire	DEVB TC(W) No. 4/2020 -	✓
			Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view	impact on existing		construction site	Tree Preservation	
			corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation	vegetation retained				
			works.	by personnel in			DEVB TC(W)) No. 6/2015 -	
			Roadside planter and shrub planting design in front of Cheung Shan Temple.	construction			Maintenance of Vegetation	
S8	LV2	G5	Boundary Green Belt planting	To provide initiation			and Hard Landscape Features	To be implemented during operation phase
			Considerable planting belts proposed around the site perimeter and the construction of temporary soil bunds will	on permanent				
			screen the landfill operations to a certain degree. Fast growing and fire resistant plant species will be used.	landscape and visual			DEVB TC(W) No. 6/2011 -	
S8	LV3	G6	Temporary landscape treatment as green surface cover	mitigation measures			Maintenance of Man-made	✓
			For certain areas where landfilling operations would have to be suspended temporarily for periods of years, simple				Slopes and Emergency Repair	'
			temporary landscape treatment such as hydroseeding should be considered. During construction and operational				on Stability of Land	
			phases, grass hydroseeding or synthetic covering material of green colour should also be used as a temporary					
			slope cover if applicable.					
S8	LV4	G7	Existing tree preservation	-		1		✓
] "	Transplant existing trees and vegetation, which are identified as ecologically significant in Ecological Impact					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
			Assessment and as rare tree species recorded in the tree survey, under circumstances where technically feasible.					
			For all affected trees, the principle of avoidance of tree felling and tree transplanting of tree before felling should apply who prover possible. A tree felling application should be submitted to DEVR CLTMS and be approved before					
			apply whenever possible. A tree felling application should be submitted to DEVB-GLTMS and be approved before					
			any trees are felled or transplanted.					

Remarks:

Compliance of mitigation measure

* Recommendation was made during site audit but improved/rectified by the contractor

Recommendation was made during site audit but not yet improved/rectified by the contractor.

N/A Not Applicable at this stage were conducted in the reporting period.

@ (Which measure) Alternative measure was made by the contractor.

North East New Territories (NENT) Landfill Extension Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
У			Comosmo to dadinoso				
	ion Measures:						
E1	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental impacts and	Contractor	Entire construction site	Practice Note for Professional Persons (ProPECC), Construction Site Drainage	✓
E2	-	Reinstatement of the work areas immediately after completion of the works.	therefore potential ecological impacts			(PN1/94)	✓
E3	-	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	within and near the construction site			Code of Practice on the Packaging, Labelling and	✓
E4	-	Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.				Storage of Chemical Wastes, EPD (1992)	✓
E5	-	Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.				ETWB TC(W)) No. 33/2002 Management of Construction	✓
E6	-	Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.				and Demolition Material Including Rock	N/A
E7	-	Mobile plant should be sited as far away from NSRs as possible and practicable.				DEVB TC(W) No. 6/2010 Trip	✓
E8	-	Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.				Ticket System for Disposal of Construction and Demolition	✓
E9	-	Use of "quiet" plant and working methods.				Materials ETWB TC(W)No.19/2005	✓
E10	-	Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site Drainage.				Environmental Management on Construction Sites	✓
E11	-	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.					✓
E12	-	Design and incorporation of silt/sediment traps in the permanent drainage channels to enhance deposition rates and regular removal of reposited silt and grit.	1				✓
E13	-	Minimization of surface excavation works during the rainy seasons (April to September), and in particular, control of silty surface runoff during storm events, especially for areas located near steep slopes.					✓
E14	-	Regular inspection and maintenance of all drainage facilities and erosion and sediment control structures to ensure proper and efficient operation at all times and particularly following rainstorms.	1				✓
E15	-	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources	1				N/A

Remarks:

Compliance of mitigation measure

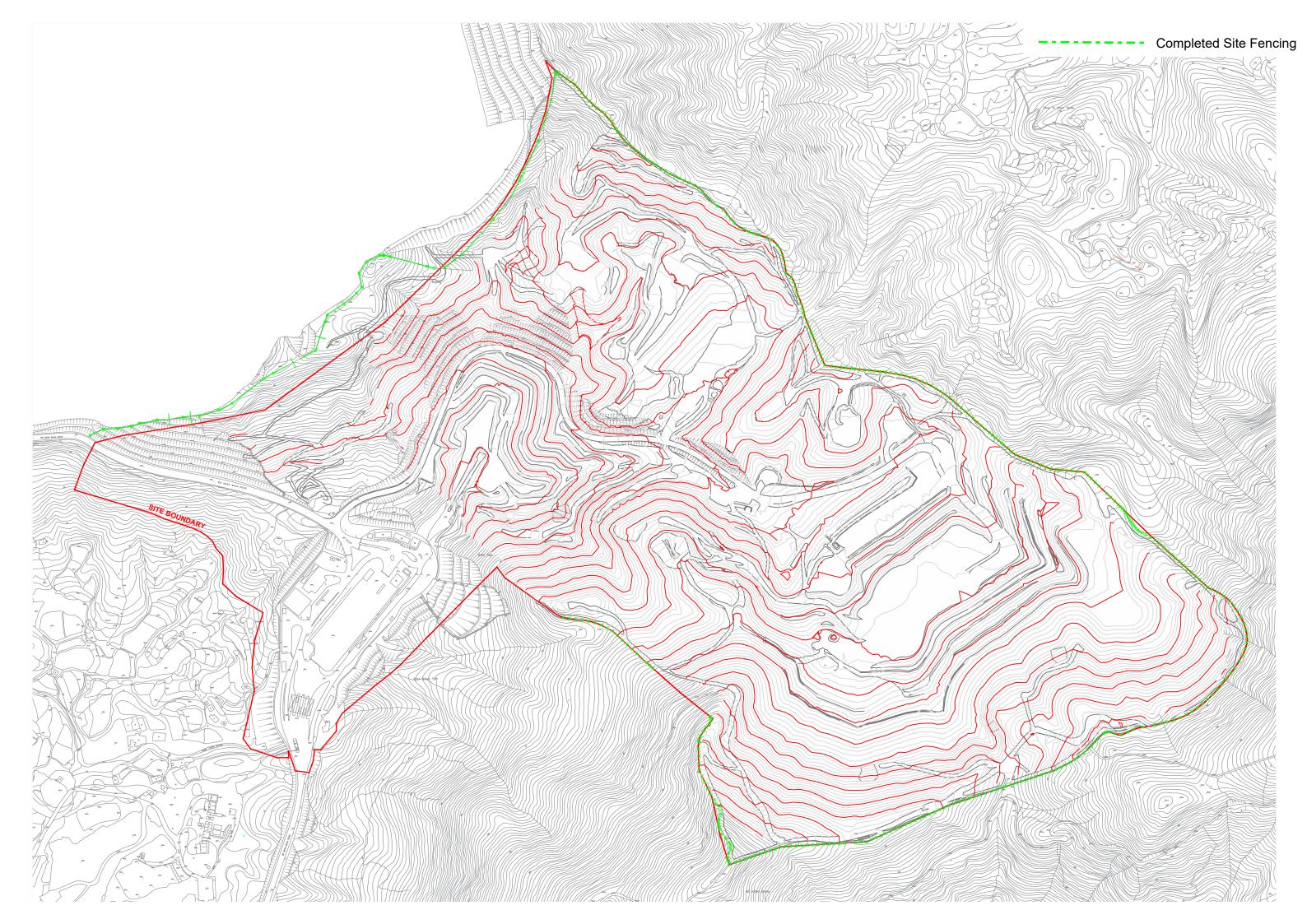
Recommendation was made during site audit but improved/rectified by the contractor

Recommendation was made during site audit but not yet improved/rectified by the contractor.

Not Applicable at this stage were conducted in the reporting period. N/A

@ (Which measure) Alternative measure was made by the contractor.

Appendix H Mitigation Measures of Cultural Landscape Features



Appendix I Cumulative complaint / enquiry log and Summaries of complaints

Environmental Complaints Log

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C001_20221220	21 Dec 2022	Veolia (Contractor)	ET	Air Quality (Construction Dust)	5, 12 & 19 Dec 2022	It was noted from Veolia's email to the ET on 20 December 2022 that Veolia received complaint lodged regarding presenting much dusty materials at roundabout at Wo Keng Shan Road & dusty flying problem at Kowloon-bound traffic at Lung Shan Tunnel. No dusty materials and wastes were transported out from the NENTX site during the complaint period. During the regular weekly site inspection on 5, 12 & 19 December 2022, it was observed that the wheel washing facilities with high-pressure water jets have been provided at all site exits of NENTX and cleaned all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. All site vehicles of NENTX are also required to go through the auto wheel washing facility, which is managed by the operator of the NENT landfill, before entering the public area. The road section between the washing facilities and the exit point was paved with concrete, or bituminous materials were implemented in all site entrances. No mud generated from vehicles under the NENTX project after exiting the site entrance was observed. In conclusion, there is no direct evidence showing that the complaint is likely related to the NENTX project.	5 Jan 2023
C002_20230614	14 Jun 2023	EPD-RNG	ET	Water Quality	16, 21 Jun, 24, 25 Jul & 2 Aug 2023	It was noted from EPD-RNG's email to the ET on 14 Jun 2023 that EPD received complaint lodged regarding the muddy water was observed at Lin MA Hang International Bridge. In summary of the investigation, the pollutant water appeared crimson colour with bubbles ay the LMH-OP01 (Monitoring Point from EPD). The colour and pattern of pollutant water is different from the runoff at surface WQM monitoring location WM1. Hence, the project is not the major source causing the pollutant water. To minimise the potential impact of the project, the enhancement of mitigation measures at north boundary were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	29 Jun & 21 Aug 2023

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C003_20230615	15 Jun 2023	EPD-RNG	ET	Water Quality	16, 19, 21 Jun, 18 Jul 2023	It was noted from EPD-RNG's email to the ET on 15 June 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD). In summary of the investigation, the muddy water caused from multipotential sources while the runoff from the box culvert under the Wo Keng Shan Road is the major source including runoff from Existing channel near Portion E3-1, discharge water from the silt removal facilities at Portion E3-1 of the project, runoff from branch near the entrance of Portion E3-1, runoff from weighting plaza of NENT Landfill & natural stream near Wo Keng Shan & Shui Ngau Tso etc Hence, the project is a part of factor causing the high turbidity muddy water. To minimise the potential impact of construction runoff from the project, the further mitigation measures and enhancement of the temporary surface water drainage system were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	15 Jun, 21 Aug 2023
C004_20230803	3 Aug 2023	EPD-RNG	ET	Water Quality	18 Jul 2023	It was noted from EPD-RNG's email to the ET on 3 Aug 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD). In summary of the investigation, the muddy water caused from multipotential sources while the runoff from the box culvert under the Wo Keng Shan Road is the major source including runoff from Existing channel near Portion E3-1, discharge water from the silt removal facilities at Portion E3-1 of the project, runoff from branch near the entrance of Portion E3-1, runoff from weighting plaza of NENT Landfill & natural stream near Wo Keng Shan & Shui Ngau Tso etc Hence, the project is a part of factor causing the high turbidity muddy water. To minimise the potential impact of construction runoff from the project, the further mitigation measures and enhancement of the temporary surface water drainage system were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	14 Aug 2023

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C005_20230818	18 Aug 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 18 August 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 14 August 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C006_20230914	14 Sep 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 14 September 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 11 September 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C007_20240509	9 May 2024	EPD-RNG	ET	Water Quality	13 May 2024	It was noted from EPD-RNG's email to the ET on 9 May 2024 that EPD receipted a memo from DSD/Mainland North regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 23 April 2024. In summary of the investigation, the muddy water at the complaint location involved multi-potential sources (including the construction runoff of the project and runoff from existing landfill) based on the distance between the outlet of the project discharge point and the complaint location (distance around 1.16 km). The mitigation measures are recommended and reminded to implement and review by the contractor.	16 July 2024
C000_20241128	28 Nov 2024	EPD-RNG	ET	Water Quality	2 & 5 Dec 2024	It was noted from EPD-RNG's email to the ET on 28 November 2024 regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 13 November 2024. The relevant investigation is conducting by the related parties. The investigation results will be presented when the investigation has been completed.	TBC

Remarks:

1. "ET" equal to "Environmental Team"

- "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"
 "TBC" equal to "To Be Confirm"

Environmental Enquiries Log

Enquiry Ref. No.	Date of Enquiry Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
NA	NA	NA	NA	NA	NA	NA	NA

Remarks:

- "ET" equal to "Environmental Team"
 "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"
 "NA" equal to "Not Applicable"

Cumulative Statistics on Complaints

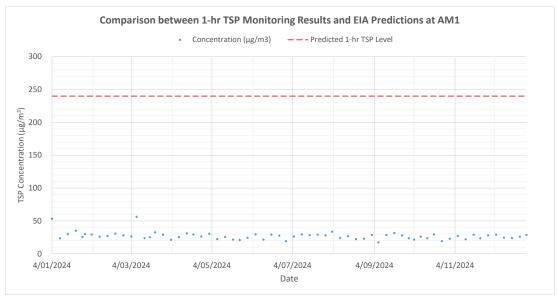
Aspects	Cumulative No. Brought Forward	No. of Complaints during reporting period	Cumulative Project-to- Date
Air Quality	1*	0	1*
Noise	0	0	0
Water Quality	6(1*)	1#	7(1* & 1#)
Waste Management	0	0	0
Total	7(2*)	1#	8(2* & 1#)

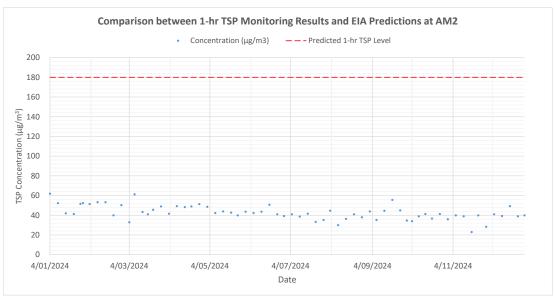
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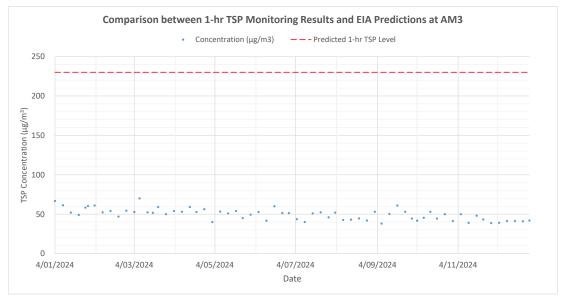
- * Equal to non-project related # Equal to the complaint under the investigation.

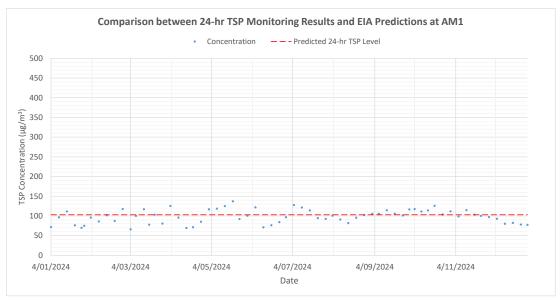
Appendix J Graphical Presentation for comparison between monitoring results and EIA Predictions

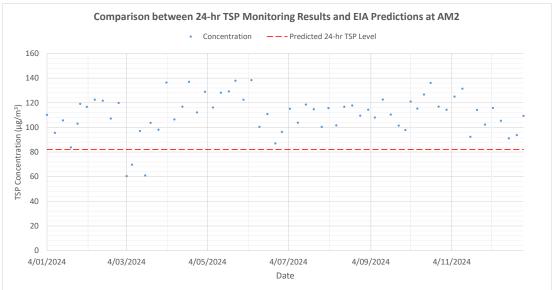
Air Quality

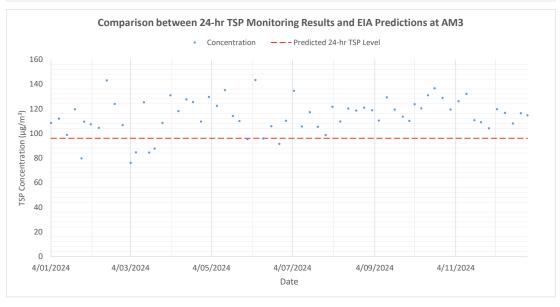




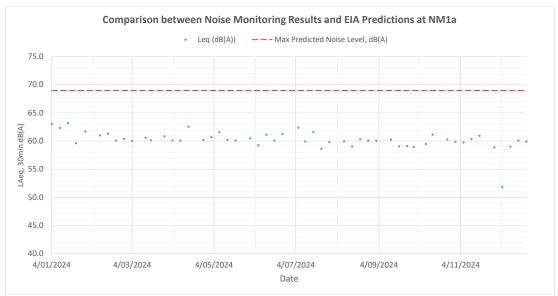


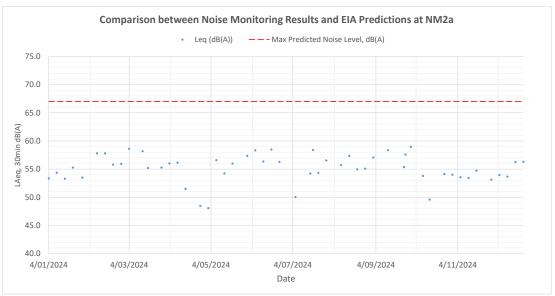






Noise





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