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EXECUTIVE SUMMARY

Introduction

1. This is the 4th Monthly Dust Monitoring Report for Contract No. EP/SP/186/21 "West New Territories Landfill Extension (WENTX)" at Nim Wan, Tuen Mun. This report summarized the monitoring results and audit findings of the EM&A programme in accordance with the Dust Monitoring Plan under clause 2.2 of the EP (EP/618/2022) and clause 2.2 of the FEP (FEP-01/618/2022) during the 4th reporting month covering 1 June to 30 June 2024.

Summary of Main Works Undertaken and Key Measures Implemented

- 1. The main works undertaken during the reporting period are as follows:
 - Backfilling Works (Commenced from March)
- 2. Implementation of the key mitigation measures during the reporting period are as follows:

Air Quality

- Dust Suppression by watering of construction area at least 10 times per day.
- Provide covering of 50% open area with impervious materials of concrete paving.
- Provision of pavement to the construction access road with concrete paving and provide wheel washing facility at the entrance and exit.
- Vehicle washing facilities provided at vehicle exit point.

Summary of Exceedances, Investigation and Follow-Up

1. Exceedance of Action/Limit levels during the reporting month (1 June to 30 June 2024) and the investigation results and/or follow-up actions:

Air Quality

No Action/Limit Level exceedance for 1-hour TSP was recorded.

Complaint Handing, Prosecution and Public Engagement

No complaint/summons/prosecution were received during the reporting period.

Reporting Changes

No reporting change was recorded in the reporting month.

Future Key Issues

The key works or activities that will be anticipated in the next reporting period are as follows:

Backfilling Works

INTRODUCTION

1.1 Background

- 1.1.1 Work Scope
- 1.1.1.1 Decommissioning of Remaining Portion of the Middle TTAL mainly involves site clearance, removal of asbestos pipes, minor levelling of Pulverized Fuel Ash (PFA) surface, covering of the levelled PFA surface with general fill and installation of temporary surface drainage system.
- 1.1.2 Environmental Impact Assessment Ordinance Requirements

Decommissioning of Remaining Portion of Middle TTAL

1.1.2.1 A Project Profile (PP) for the Decommissioning of Remaining Portion of Middle Ash Lagoon in Tsang Tsui (Register No. PP-649/2022) was submitted under the EIAO on 5 September 2022 for application for permission to apply directly for EP (DIR). The DIR was permitted by EPD on 3 October 2022. The EP for the proposed decommissioning works (Permit No. EP-618/2022) was subsequently granted by EPD on 24 October 2022.

Further Environmental Permit

- 1.1.2.2 Application to the Director of Environmental Protection under Section 12 of the EIAO for the Further Environmental Permits (FEP) of the Decommissioning of Remaining Portion of Middle TTAL has been arranged and HKRRP should take up the responsibility of the EP Holder the Decommissioning of Remaining Portion of Middle TTAL upon obtaining of the FEPs.
- 1.1.3 Project Organizations

Different Parties with different levels of involvement in the project organization include:

- Service Manager ARUP
- Independent Environmental Checker (IEC) ANewR Consulting Limited (ANewR)
- Contractors Hong Kong Resources Recovery Park (HKRRP)
- 1.1.4 The key contacts of the Project are shown in *Table 1.1*.

Table 1.1 Key Project Contacts

Party Role		Contact Person	Phone No.	Email
ARUP	Service Manager	Mr. Thomas Wong	5932 6119	thomas-kh.wong@arup.com
ANEWR	Independent Environmental Checker	Mr. James Choi	2618 2831	jpschoi@anewr.com
HKRRP Contractor		Mr. Kenneth Lau	9353 6141	chiwai.lau@cohl.com

2 AIR QUALITY

2.1 General

2.1.1 With the implementation of recommended mitigation measures, no adverse environmental impacts during the decommissioning phase would be anticipated. Due to the relatively close distance and public use nature of ASR3 to the Project site, dust monitoring during the decommissioning phase of the Project is proposed to ensure the recommended mitigation measures, from the project Environmental Management Plan are implemented properly.

2.2 Monitoring Location

2.2.1 The proposed dust monitoring location is shown in *Table 2.1*. A site visit has been conducted on 28 December 2023 and after discussion with the management representative of the Tsang Tsui Columbarium, access authorization was rejected due to unsuitable conditions for equipment installation and lack of power supply.

Table 2.1 Description of Dust Monitoring Locations

Sensitive Receiver ID	Monitoring Parameters
ASR3	1-hr TSP

- 2.2.2 Alternative monitoring location is proposed, the following criteria, as far as practicable, have been considered and followed:
 - At the site boundary or such location close to the major dust emission source;
 - Close to the sensitive receptors; and
 - Account for the prevailing meteorological conditions
- 2.2.3 An alternative location has been sought and proposed to the site boundary of the Middle Tsang Tsui Ash Lagoon and shown in *Table 2.2*. It is proposed to relocate the monitoring location (north facing) to the site boundary of Middle Tsang Tsui Ash Lagoon and at location avoid the burner emission from the Columbarium (east facing). This proposed monitoring location is approximately 10 meters away from the Tsang Tsui Columbarium- Garden of Remembrance. Both locations are situated to the north-west of the site boundary and experiencing the same prevailing meteorological conditions. The original monitoring location and proposed alternative monitoring location was presented in *Appendix A*.

Table 2.2 Description of Alternative Dust Monitoring Locations

Sensitive Receiver ID	Monitoring Parameters
ASR3 Alternative	1-hr TSP

- 2.2.4 When positioning the sampler, the following points shall be noted:
 - horizontal platform with appropriate support to secure the samplers against gusty wind should be provided;
 - no two samplers should be placed less than 2 meters apart;
 - the distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
 - a minimum of 2 metres separation from walls, parapets and penthouses is required for rooftop samplers;
 - a minimum of 2 metres separation from any supporting structure, measured horizontally is required;
 - no furnace or incinerator flue is nearby;
 - airflow around the sampler is unrestricted;

- the sampler is more than 20 meters from the drip-line;
- any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring;
- permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- secured supply of electricity is needed to operate the samplers.

2.3 Air Quality Parameters

- 2.3.1 Monitoring of the Total Suspended Particulate (TSP) levels shall be carried out to ensure that any deteriorating air quality could be readily detected and timely action be taken to rectify the situation. 1-hour TSP monitoring shall be conducted and the measurement is to indicate the impacts of construction dust on air quality. The TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, USA, Chapter 1 (Part 50), *Appendix B*. Upon approval by the IEC, 1-hour TSP levels can be measured by direct reading methods which are capable of producing comparable results as that by the high-volume sampling method, to indicate short event impacts.
- 2.3.2 All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and other special phenomena and work progress of the concerned site etc. shall be recorded down in details.

2.4 Monitoring Equipment

- 2.4.1 High volume sampler (HVS) in compliance with the following specifications shall be used for carrying out the 1-hr monitoring:
 - 0.6-1.7 m3/min (20-60 SCFM) adjustable flow range;
 - Equipped with timing/control device with+/-5minutesaccuracyfor24hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406 cm² (63 in²);
 - flow control accuracy: +/- 2.5% deviation over 24-hr sampling period;
 - equipped with a shelter to protect the filter and sampler;
 - incorporated with an electronic mass flow rate controller or other equivalent devices;
 - equipped with a flow recorder for continuous monitoring:
 - provided with a peaked roof inlet;
 - incorporated with a manometer;
 - able to hold and seal the filter paper to the sampler housing at a horizontal position; •
 - easy to change the filter.
- 2.4.2 Sufficient number of HVSs with an appropriate calibration kit are available for carrying out the baseline monitoring, regular impact monitoring and ad hoc monitoring when necessary. The HVSs shall be equipped with an electronic mass flow controller and be calibrated against a traceable standard at regular intervals. All the equipment, calibration kit, filter papers, etc. shall be clearly labelled.
- 2.4.3 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognised primary standard and be calibrated annually. The calibration data shall be properly documented for future reference. All the data should be converted into standard temperature and pressure condition. The flow-rate of the sampler before and after the sampling exercise with the filter in position shall be verified to be constant and be recorded down in the data sheet.
- 2.4.4 If it is necessary to proposes to use a direct reading dust meter to measure 1-hr TSP levels, sufficient information to the Design Checker and IEC to prove that the instrument is capable of achieving a

- comparable result as that of the HVS and may be used for the 1-hr sampling. The instrument should also be calibrated regularly basis.
- 2.4.5 In consideration of the safety concerns of setting up wind sensor at 10m above ground, Contractor proposed alternative method to obtain representative wind data. Meteorological information as extracted from "the Hong Kong Observatory Lau Fu Shan Station" is alternative method to obtain representative wind data. Lau Fu Shan Station is located nearby the Project site. Moreover, Lau Fau Shan station is located at 31m above mean sea level which in compliance with the general setting up requirement. This station can also provide other meteorological information include air temperature, relative humidity, wind direction, wind speed and mean sea level pressure. Adoption of meteorological information from Hong Kong Observatory is a common alternative method for a lot of EM&A projects in Hong Kong.

2.5 Laboratory Measurement / Analysis

- 2.5.1 A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments, to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 2.5.2 If a site laboratory is set up or a non-HOKLAS accredited laboratory is hired for carrying out the laboratory analysis, the laboratory equipment shall be approved by the Design Checker and IEC and the measurement procedures (first measurement) shall be witnessed by the Design Checker and IEC.
- 2.5.3 Filter paper of size 8"x10" shall be labelled before sampling. It shall be a clean filter paper with no pin holes, and shall be conditioned in a humidity-controlled chamber for over 24-hr and be pre-weighed before use for the sampling.
- 2.5.4 After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper is then returned to the laboratory for reconditioning in the humidity-controlled chamber followed by accurate weighing by an electronic balance with a readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard. All the collected samples shall be kept in a good condition for 6 months before disposal.

2.6 Baseline Monitoring

- 2.6.1 Baseline monitoring at the designated monitoring location for at least 14 consecutive days prior to the commencement of the construction works to obtain 1-hour sampling which shall be carried out 3 times per day for 1-hr TSP. During the baseline monitoring, there should not be any decommissioning construction or dust generation activities in the vicinity of the monitoring stations. Baseline air quality was conducted at the air quality monitoring station during the period of 26 January to 8 February 2024. The monitoring result for average 1-hr TSP concentration is 125 μg/m³ (while Min: 51μg/m³ and Max: 348μg/m³).
- 2.6.2 Impact monitoring was be carried out during the course of the Works. For regular impact monitoring for 1-hr TSP monitoring, the sampling frequency of at least three times in every six-days for 1-hr TSP during normal construction works period. The copies of certificates are shown in *Appendix B*.
- 2.6.3 In case of non-compliance with the dust criteria, more frequent monitoring exercise, as specified in the Action Plan in *Section 2.7*, shall be conducted within 24 hours after the result is obtained. The additional monitoring shall be continued until the excessive dust emission or the deterioration in air quality is rectified.

2.7 Event and Action

2.7.1 The baseline monitoring results form the basis for determining the air quality criteria for the impact monitoring and compare the impact monitoring results with air quality criteria set up for 1-hour TSP. *Table 2.3* shows the dust criteria, namely Action and Limit levels to be used. Should non-compliance of the air quality criteria occur, the Design Checker, IEC, and the Contractor shall undertake the relevant action in accordance with the Action Plan in *Appendix C*.

Table 2.3 Action and Limit Levels for Dust Impact

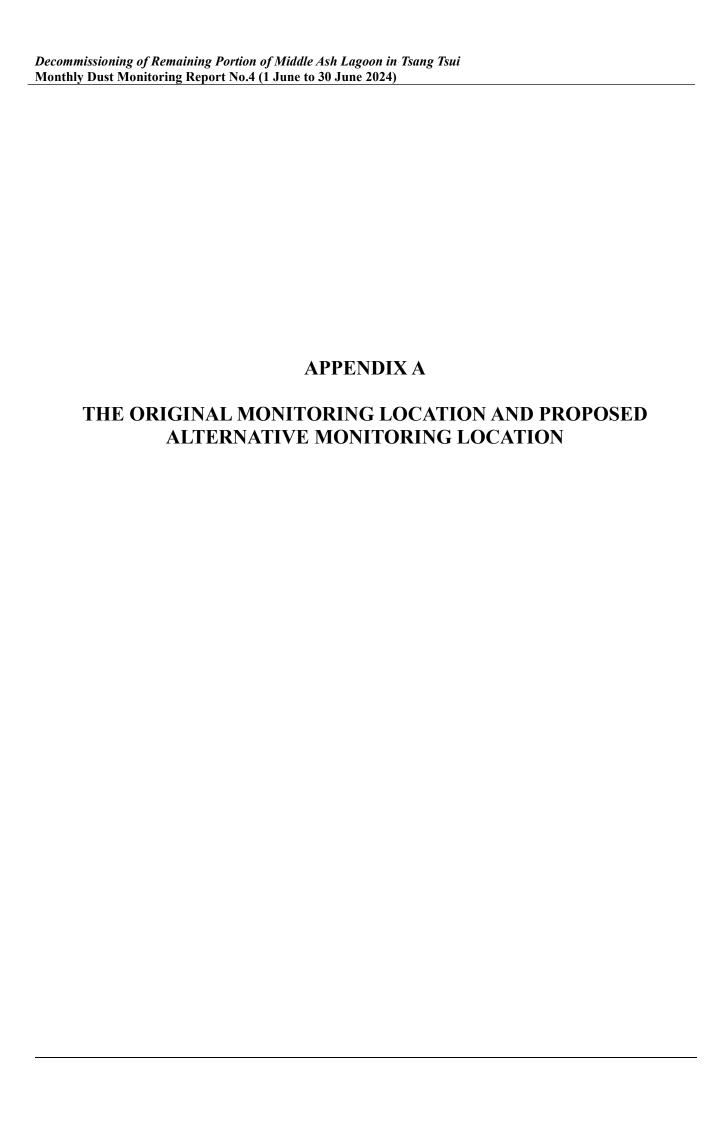
Parameters	Action Level	Limit Level
1-hour TSP Level in μg/m3	331	500

2.8 Summary of Potential Environmental Impacts and Mitigation Measures

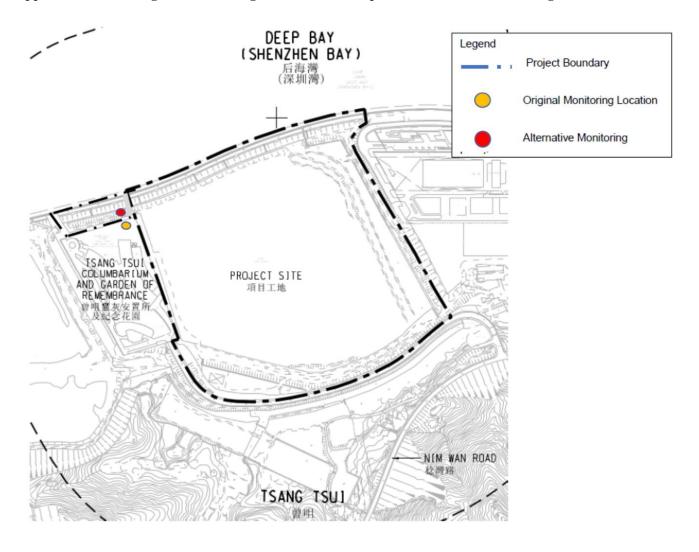
2.8.1 The potential environmental impacts and proposed mitigation measures to be incorporated during the decommissioning phase of the Project are summarized in *Appendix D*, which would be included in the construction contract document. The IEC would supervise and monitor the implementation of these measures by the Contractor. Upon completion of the decommissioning phase, the Project Site will be an open area with no human activity or equipment in operation, adverse environmental impact is not expected, and mitigation measures not considered to be required.

2.9 Results and Observations

- 2.9.1 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. The monitoring schedule is shown in *Appendix E*.
- 2.9.2 The air temperature, precipitation and the relative humidity data was extracted from "the Hong Kong Observatory Lau Fu Shan Station". The weather information for the reporting month is summarized in *Appendix F*.
- 2.9.3 The monitoring data and graphical presentation of 1-hour TSP monitoring results are shown in *Appendix G* respectively.
- 2.9.4 No Action / Limit Level exceedance was recorded for all 1-hour TSP monitoring in the reporting month.
- 2.9.5 No Complaint / Enquiry was received in the reporting period.



Appendix A - The Original Monitoring Location and Proposed Alternative Monitoring Location



APPENDIX B THE CALIBRATION CERTIFIATES

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT : MR BEN TAM WORK ORDER : HK2404344

CLIENT : ACTION-UNITED ENVIRONMENTAL

SERVICES & CONSULTING

ADDRESS : RM A 20/F., GOLD KING IND BLDG, NO. 35-41 SUB-BATCH : 1

TAI LIN PAI ROAD, KWAI CHUNG, N.T.

DATE RECEIVED : 25-JAN-2024

DATE OF ISSUE : 5-FEB-2024

PROJECT : --- NO. OF SAMPLES : 1

CLIENT ORDER +--

General Comments

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories Position

Dishard Funa

Richard Fung Managing Director

: HK2404344 WORK ORDER SUB-BATCH





ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2404344-001	2404344-001 S.N: 368418 (EQ108)		25-Jan-2024	S/N: 366418

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

 Serial No.
 366418

 Equipment Ref:
 EQ108

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)

Location & Location ID: Site boundary of Middle Tsang Tsui Ash Lagoon

Equipment Ref: HVS 022

Last Calibration Date: 16 January 2024

Equipment Verification Results:

Verification Date: 16 January 2024

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
16-Jan-24	1hr 14min	12:07 ~ 13:21	18.7	1022.1	2004.6	101333	1373.1
16-Jan-24	1hr 07min	13:40 ~ 14:47	18.7	1022.1	1604.7	78101	1162.2
16-Jan-24	1hr 07min	14:49 ~ 15:56	18.7	1022.1	464.8	21842	325.0

Sensitivity Adjustment Scale Setting (Before Calibration) 685 (CPM)

Sensitivity Adjustment Scale Setting (After Calibration) 685 (CPM)

Linear Regression of Y or X

 Slope (K-factor):
 1.4311 (µg/m³)/CPM

 Correlation Coefficient (R)
 0.9990

 Date of Issue
 25 January 2024

2500 2000 1500 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

Remarks:

- 1. Strong Correlation (R>0.8)
- Factor 1.4311 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator : _____ Gary Nq ___ Signature : ____ ___ Date : ____ 25 January 2024

QC Reviewer : Ben Tam Signature : Date : 25 January 2024

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Site boundary of Middle Tsang Tsui Ash Lagoon Location ID: AM(D)7a						sh Lagoon	Date of Calibration: 16 Jan 24 Next Calibration Date: 16 Mar 24		
					CON	DITIONS			
Sea Level Pressure (hPa) 10 Temperature (°C)						1 7	Corrected Pressure (n Temperature (k		
					CALIBRA	TION ORIFICE			
Make-> TISO Model-> 502: Calibration Date-> 15-De						3	Qstd Slope -> Qstd Intercept -> Expiry Date->	2.13163 -0.03523 15-Dec-24	
					CALI	BRATION			
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEA REGRESS		
18 3.8 -8 11.8 1.652 5 13 2.6 -6.8 9.4 1.477 5 10 1.4 -5.7 7.1 1.285 4 8 0.4 -4.5 4.9 1.071 3				8 1.652 58 58.88 4 1.477 52 52.79 1 1.285 46 46.69 9 1.071 38 38.57		Slope = 37.0901 Intercept = -1.8561 Corr. coeff. = 0.9977			
C = I[Sq Qstd = str C = corm I = actual m = calib b = calibr Ta = actu Pstd = act For subs I/m((I)[m = samp	m[Sqrt(HZ rt(Pa/Pstd andard flo- ected char- chart resp rator Qstd ator Qstd al tempera- tual pressu equent ca Sqrt(298/I	w rate t response slope intercept ature durin are durin fav)(Pav	a)] es t ing calibra n of san	oration (deg ation (mm F appler flow:	Actual chart response (IC)	70.00 50.00 50.00 40.00 20.00	FLOW RATE CHAR		
I = chart : Tav = dai	oler interce response ly average ly average	tempera				0.000	0.500 1.000 Standard Flow Rate (m3/n	1.500 2.000 nin)	



RECALIBRATION DUE DATE:

December 15, 2024

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 15, 2023 Rootsmeter S/N: 438

Rootsmeter S/N: 438320 Ta: 295 °K

Operator: Jim Tisch Pa: 748.5 mm Hg

Calibration Model #: TE-5025A Calibrator S/N: 1941

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4590	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9260	8.0	5.00
4	7	8	1	0.8840	8.9	5.50
5	9	10	1	0.7290	12.9	8.00

	Data Tabulation									
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	√∆H(Ta/Pa)					
0.9907	0.6790	1.4106	0.9957	0.6825	0.8878					
0.9864	0.9522	1.9949	0.9914	0.9570	1.2556					
0.9843	1.0630	2.2304	0.9893	1.0684	1.4037					
0.9831	1.1121	2.3393	0.9881	1.1178	1.4723					
0.9778	1.3413	2.8213	0.9828	1.3481	1.7756					
	m=	2.13163		m=	1.33479					
QSTD	b=	-0.03523	QA	b=	-0.02217					
	r=	0.99999	~.	r=	0.99999					

Calculation	ons	
Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/Pa)	
Qstd= Vstd/ΔTime	Qa= Va/ΔTime	
For subsequent flow r	ate calculations:	
$Qstd= \frac{1}{m} \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$	

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
San - 197	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (*K)
	ometric pressure (mm Hg)
b: intercept	
m: slope	

Standard Condition

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

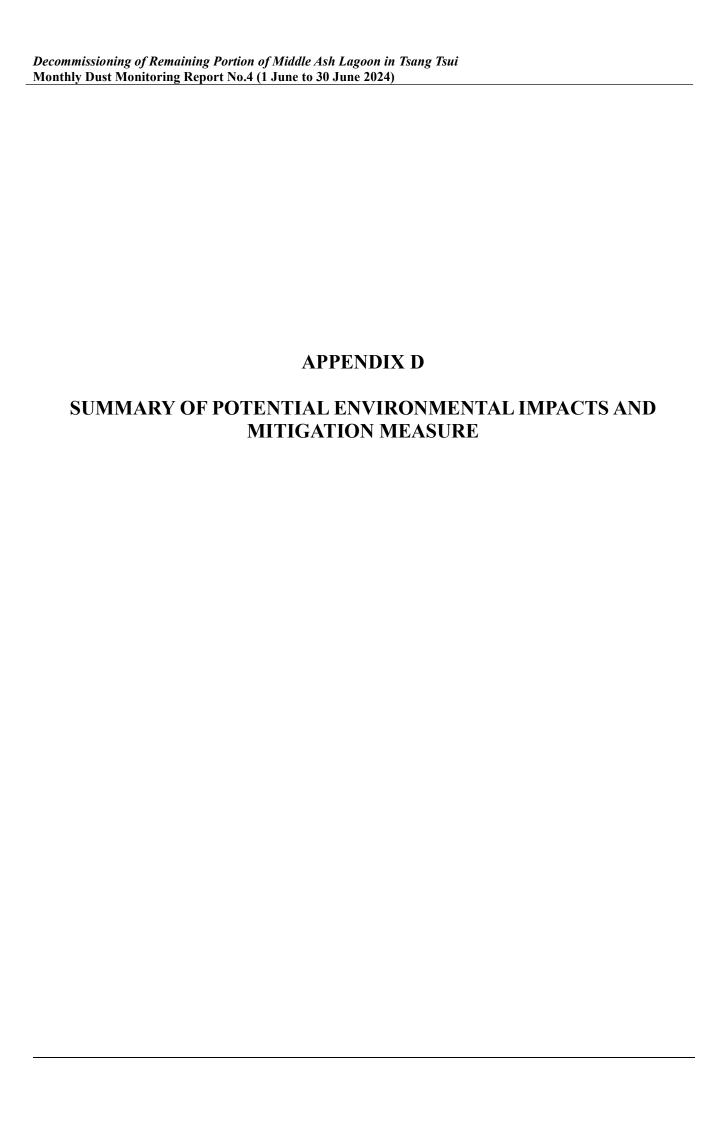
Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009

APPENDIX C EVENT / ACTION PLAN FOR DUST IMPACT

Event	TEC	Action	Contractor		
	IEC	Services Manager	Contractor		
Action level exceedance for one sample	Check monitoring data and Contractor's working methods	Notify Contractor for the identification of cause	Rectify any unacceptable practice Amend working methods if appropriate		
Action Level exceedance for two or more consecutive samples	Review monitoring data submitted by Contractor Review the investigation finding submitted by Contractor and check the Contractor's working method Review the proposed remedial measures by Contractor and advise SM accordingly Supervise the implementation of remedial measures	Confirm receipt of notification of exceedance in writing Require Contractor to propose remedial measures for the analysed dust problem Ensure remedial measures properly implemented	Rectify any unacceptable practice Amend working methods if appropriate Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate		
Limit level exceedance for one sample	Review monitoring data submitted by Contractor Discuss amongs SM, Leader and Contractor on the potential remedial actions. Supervise the implementation of remedial measure.	Confirm receipt of notification of exceedance in writing Require Contractor to propose remedial measures for the analysed dust problem Ensure remedial measures properly implemented	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		
Limit level exceedance for two or more consecutive samples	Review monitoring data submitted by Contractor Discuss amongs SM, and Contractor on the potential remedial actions. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise SM accordingly Supervise the implementation of remedial measures.	Require Contractor to propose remedial measures for the analysed dust problem Ensure remedial measures properly implemented; If exceedance continues, consider what activity of the work is responsible and instruct Contractor to stop that activity of work until the exceedance is abated	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the Contractor until the exceedance is abated.		



Potential Environmental Impacts	Mitigation Measures	Implementation Agent
Decommissioning Phase	Dust control and suppression measures stipulated in the Air Pollution Control	
	(Construction Dust) Regulation should be implemented to control dust emissions from the Project Site. Relevant dust control and suppression measures are listed below:	
	 Dust Suppression by watering of construction area at least 10 times per day; 	
	 Provide covering of 50% of open area with impervious materials or concrete paving; Provision of pavement to construction 	
	access road with concrete paving and provide wheel washing facility at entrance and exit; Skip hoist for material transport should	
	be completely enclosed by impervious sheeting; • Vehicle washing facilities should be	
Air Quality (Construction	 provided at every vehicle exit point; The area where vehicle washing takes place and the section of the road between the washing facilities and the 	Contractor
Oust)	exit point should be paved with concrete, bituminous materials or hardcore surfaces; Where a site boundary adjoining a	Contractor
	road, streets or other areas accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length	
	except for a site entrance or exit; • For site boundary near ASR3, hoarding of higher than 2.4m high	
	 from ground level should be provided; Every main construction access road should be paved with concrete and kept clear of dusty materials or sprayed with water so as to maintain 	
	the entire road surface wet; The portion of road leading only to a construction site that is within 30m of a designated vehicle entrance or exit	
	should be kept clear of dusty materials; • Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area	
	sheltered on the top and the 3 sides; All dusty materials should be sprayed with water prior to any loading,	
-	unloading or transfer operation so as to maintain the dusty materials wet; Open stockpiles should be avoided or	
	covered. Where possible prevent placing dusty material storage piles near ASRs; • Every vehicle should be washed to	
	remove any dusty materials from its body and wheels before leaving the construction sites;	
	 The load of dusty materials carried by vehicles leaving a construction site should be covered entirely by clean impervious sheets to ensure dusty 	
	materials do not leak from the vehicle; • Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading	
	points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly during dry periods/seasons;	
	 Imposition of speed limit for vehicles on unpaved site roads – the recommended limit is 10 km/hr; 	
	 Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs; and 	
	 Setting up of an environmental auditing program to monitor the construction activities in order to enforce controls and modify the method of works in the event that dusty conditions arise. 	

APPENDIX E THE MONITORING SCHEDULE

Impact Monitoring Schedule

		Air Quality Monitoring
	Date	1-Hour TSP
Sat	1- Jun -24	
Sun	2- Jun -24	
Mon	3- Jun -24	✓
Tue	4- Jun -24	
Wed	5- Jun -24	✓
Thu	6- Jun -24	
Fri	7- Jun -24	
Sat	8- Jun -24	✓
Sun	9- Jun -24	
Mon	10- Jun -24	
Tue	11- Jun -24	✓
Wed	12- Jun -24	
Thu	13- Jun -24	✓
Fri	14- Jun -24	
Sat	15- Jun -24	
Sun	16- Jun -24	
Mon	17- Jun -24	✓
Tue	18- Jun -24	
Wed	19- Jun -24	✓
Thu	20- Jun -24	
II .	21- Jun -24	
	22- Jun -24	✓
Sun	23- Jun -24	
II .	24- Jun -24	
II .	25- Jun -24	✓
II .	26- Jun -24	
	27- Jun -24	
II	28- Jun -24	✓
	29- Jun -24	
Sun	30- Jun -24	

✓	Monitoring Day
	Sunday or Public Holiday

Decommissioning of Remaining Portion of Middle Ash Lagoon in Tsang Tsui Monthly Dust Monitoring Report No.4 (1 June to 30 June 2024)
APPENDIX F
THE WEATHER INFORMATION FOR THE REPORTING MONTH

			70703303	Lau Fau Shan Station			
Date		Weather	Total Rainfall (mm)	Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Jun-24	Sat	Mainly cloudy with showers.	54.2	27.1	26	89	S/SW
2-Jun-24	Sun	Moderate to fresh easterly winds	3.2	28.4	8.7	83.5	W/SW
3-Jun-24	Mon	Showers will be heavy with a few thunderstorms at first.	8.6	25.3	11.2	93.7	E
4-Jun-24	Tue	Mainly cloudy with a few showers.	2.9	24.8	17.7	89.7	E
5-Jun-24	Wed	Mainly cloudy with a few showers.	8.5	26.6	15	85	E/NE
6-Jun-24	Thu	Mainly cloudy with a few showers and isolated thunderstorms.	Trace	27	7.5	89	E/NE
7-Jun-24	Fri	Mainly cloudy with occasional showers.	1.6	27	14.7	88.7	E
8-Jun-24	Sat	Light to moderate easterly winds.	6.8	27.9	11.2	87	E
9-Jun-24	Sun		33.5	26	13	85	S/SW
10-Jun-24	Mon	Mainly cloudy with a few showers.	0.2	28.7	15.5	86.2	S
11-Jun-24	Tue	Hot with sunny periods during the day	0.6	29.5	15.0	85.2	S/SW
12-Jun-24	Wed	Hot with sunny intervals and a few showers.	8.3	30.2	20.5	85	sw
13-Jun-24	Thu	Hot with sunny intervals in the afternoon.	4.9	31.3	17.5	82.5	sw
14-Jun-24	Fri	Mainly cloudy with occasional showers and squally thunderstorms.	32	27.3	17	93	S/SW
15-Jun-24	Sat	Moderate to freshsouthwesterly winds,	28.3	26.1	18.2	91	S/SW
16-Jun-24	Sun	Hot with sunny intervals in the afternoon.		28.4	21.5	88.7	S/SW
17-Jun-24	Mon	Hot with sunny periods during the day.	Trace	30.1	15	85	S
18-Jun-24	Tue	Hot with sunny intervals and a few showers in the afternoon.	4.6	30.2	6.1	84	S/SW
19-Jun-24	Wed	Hot with sunny periods and one or two showers.	9.4	30.1	11.7	83.5	S/SE
20-Jun-24	Thu	Very hot during the day.	5	30.3	13.7	83.7	S/SE
21-Jun-24	Fri	Very hot apart from isolated showers during the day.	0	30.9	12	79.2	S/SE
22-Jun-24	Sat	Mainly fine.Light to moderate southerly winds.	0	31.4	13.7	77.2	S/SE
23-Jun-24	Sun	Sunny intervals, a few showers and isolated thunderstorms.	4.7	29.4	17	85	S/SE
24-Jun-24	Mon	Very hot during the day.	0.3	29.5	19	87.5	S/SE
25-Jun-24	Tue	Very hot with sunny periods in the afternoon.	19	29.2	19	85.2	S/SE
26-Jun-24	Wed	Very hot with sunny periods and isolated showers.	0	29.6	11.2	80.2	S/SE
27-Jun-24	Thu	Very hot during the day.	1.4	30	13	85	W/NW
28-Jun-24	Fri	Very hot with sunny periods in the afternoon.	1.6	31	13	80	S/SE
29-Jun-24	Sat	Mainly fine apart from one or two showers.	15.5	29.3	23.5	85.0	S/SW
30-Jun-24	Sun	Moderate to fresh southerly winds	8.7	29.1	22.5	88.2	S/SW

Decommissioning of Remaining Portion of Middle Ash Lagoon in Tsang Tsui Monthly Dust Monitoring Report No.4 (1 June to 30 June 2024)
APPENDIX G
THE MONITORING DATA AND GRAPHICAL PRESENTATION OF 1- HOUR TSP MONITORING RESULT

Impact Monitoring Results for 1-hour TSP at Location ASR3

1		1-hour TSP (μg/m³)			Action	T 224	
Date	Start Time	1 st reading	2 nd reading	3 rd reading	Level (μg/m³)	Limit Level(µg/m³)	
3-Jun-24	9:15	64	70	41	331	500	
5-Jun-24	10:11	38	36	38	331	500	
8-Jun-24	9:30	58	76	31	331	500	
11-Jun-24	11:36	46	41	45	331	500	
13-Jun-24	13:00	44	36	41	331	500	
17-Jun-24	13:05	45	31	31	331	500	
19-Jun-24	13:00	44	29	31	331	500	
22-Jun-24	9:40	47	29	29	331	500	
25-Jun-24	9:30	44	22	28	331	500	
28-Jun-24	14:15	41	28	28	331	500	

Graphical Plot for 1-hour TSP Monitoring Result at Location ASR3

