MATERIALAB CONSULTANTS LIMITED

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The EIA Ordinance Register Office, Environmental Protection Department 27/F., Southorn Centre, 130 Hennessy Road, Wanchai, Hong Kong Date : 24 April 2018 Our Ref. : MCL/ED/0193/2018/C

MateriaLab

BY HAND

Attn.: Mr. Matthew Tang

Dear Sir,

Agreement No. CE 21/2014 (EP) Environmental Monitoring and Audit (EM&A) for Operation of Tai Po Sewage Treatment Works Stage V Phase 2B – Investigation EP Condition 6.6 – Monthly EM&A Report

Pursuant to Condition 6.6 of the Environmental Permit (EP No. EP-265/2007/A) for the captioned contract, we are pleased to submit the certified Monthly EM&A Report for March 2017 for your retention.

Should you require further information, please do not hesitate to contact our Mr. Vincent Lu at 3565 4371 or the undersigned at 3565 4114.

Assuring you of our best attention at all times.

Yours faithfully, for and on behalf of MATERIALAB – WASTE & ENVIRONMENTAL TECHNOLOGIES JOINT VENTURE

Colin Yung Environmental Team Leader

CY/vl

c.c. DSD – Ms. Suki Pun Mott MacDonald – Ms. Dulcie Chan, Mr. Thomas Chan Mr. LEUNG Wing Yuen Chief Engineer/Sewerage Projects

MOTT MACDONALD

Drainage Services Department Projects and Development Branch Sewerage Projects Division 44/F, Revenue Tower, 5 Gloucester Road, Wan Chai, Hong Kong

Contract No. SPW 09/2016

Independent Environmental Checker for Environmental Monitoring and Audit for Operation of Tai Po Sewage Treatment Works Stage 5 Phase 2B EP Condition 6.6 – Monthly EM&A Report

Our Reference TC/DC/dc/377000/03/02/L -021

23 April 2018

Dear Sir,

20/F AIA Kowloon Tower Landmark East 100 How Ming Street Kwun Tong Kowloon Hong Kong

With reference to the ET's letter ref: MCL/ED/0178/2018/C dated 19 April 2018 associated with the revised Monthly EM&A Report for March 2017 (submitted on 18 April 2018), we have no further comment.

T +852 2828 5757 F +852 2827 1823 mottmac.hk This letter serves as verification of the captioned submission in line with the requirements as set out in the EM&A Manual.

Should you have any queries, please feel free to contact the undersigned at 2828 5970.

Yours faithfully FOR MOTT MACDONALD HONG KONG LIMITED

1/

Dulcie Chan Independent Environmental Checker T 2828 5970 Dulcie.Chan@mottmac.com

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Mott MacDonald Hong Kong Limited 20/F, AIA Kowloon Tower Landmark East 100 Hau Ming Street Kwun Tong, Kowloon Hong Kong Our Ref. : MCL/ED/0178/2018/C

: 19 April 2018

Date

MateriaLab

BY HAND

Attn.: Ms. Dulcie Chan, IEC

Dear Madam,

Agreement No. CE 21/2014 (EP) Environmental Monitoring and Audit (EM&A) for Operation of Tai Po Sewage Treatment Works Stage V Phase 2B – Investigation EP Condition 6.6 – Monthly EM&A Report

Pursuant to Condition 6.6 of the Environmental Permit (EP No. EP-265/2007/A) for the captioned contract, we are pleased to submit the certified Monthly EM&A Report for March 2017 for your on-ward submission.

Should you require further information, please do not hesitate to contact our Mr. Vincent Lu at 3565 4371 or the undersigned at 3565 4114.

Assuring you of our best attention at all times.

Yours faithfully, for and on behalf of MATERIALAB – WASTE & ENVIRONMENTAL TECHNOLOGIES JOINT VENTURE

Colin Yung Environmental Team Leader

CY/vl

Encl.



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Report No.: 0151/15/ED/0984

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

March 2017

- Client : Drainage Services Department
- Project : Agreement No. CE 21/2014(EP) Environmental Monitoring and Audit (EM&A) for Operation of Tai Po Sewage Treatment Works Stage V Phase 2B – Investigation
- **Report No.** : 0151/15/ED/0984

Prepared by:

Vincent Lu & Kelvin Kwong

Certified by:

Colin Yung Environmental Team Leader

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Report No.: 0151/15/ED/0984

EXECUTIVE SUMMARY

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Agreement No. CE 21/2014 (EP) – "Environmental Monitoring and Audit for Operation of Tai Po Sewage Treatment Works Stage V Phase 2B – Investigation" (hereafter referred to as "the Assignment") for the Drainage Services Department (DSD) of Hong Kong Special Administrative Region. MateriaLab – Waste & Environmental Technologies Joint Venture (hereafter referred to as "MLAB") was appointed as the Environmental Team by DSD.

The Assignment is part of the Tai Po Sewage Treatment Works (TPSTW) Stage V extension (hereinafter referred as "the Project") which is a Designated Project under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The Environmental Permit (EP) for TPSTW Stage V, namely No. EP-265/2007 was issued in March 2007. A Variation Environmental Permit (VEP) EP-265/2007/A was issued on 30 April 2014. These documents are available through the EIA Ordinance Register.

Commencement of the Assignment took place on 9 June 2015 while the operation phase of EM&A programme commenced on 1 March 2016.

This is the thirteenth Monthly EM&A Report for the Assignment which summaries the progress of the EM&A programme during the reporting period from 1 March 2017 to 31 March 2017 (the "reporting period"). The monthly EM&A programme was undertaken in accordance with the EM&A Manual for TPSTW Stage V. According to the EM&A Manual, air quality and marine water quality are the key environmental concerns from the Project.

Breaches of Action and Limit Levels

Air quality monitoring was carried out from 30 March 2017 to 31 March 2017. Exceedances of Action/Limit levels at one ASRs (AS4) were recorded.

There was no marine water quality impact monitoring and seawater intake monitoring conducted during this reporting period and therefore, no marine water quality monitoring and seawater intake monitoring result is reported.

Complaint Log

There were no complaints received in relation to the environmental impact during the reporting period.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

Future key issues

There were no construction activities and no future key issue is reported during this reporting period.

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1. INTRODUCTION

1.1 Background

- 1.1.1 Tai Po Sewage Treatment Works (TPSTW) is located within the Tai Po Industrial Estate. It currently comprises four Stages: I, II, IVA and IVB works. The TPSTW Stage V aims to upgrade the existing TPSTW to provide additional sewage treatment capacity from the present design flow of 88,000 m³/day to 130,000 m³/day to meet the demands of both existing and future developments and to meet the revised discharge license requirements. The TPSTW Stage V will be implemented in two phases, i.e. Phase 1 and Phase 2. The design capacity of Phase 1 is 100,000 m³/day and Phase 2 is 130,000 m³/day.
- 1.1.2 The TPSTW Stage V is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449). A study of Environmental Impact Assessment has been carried out to evaluate the environmental impacts associated with the project. An EIA Report and Environmental Monitoring and Audit (EM&A) Manual were approved by the Environmental Protection Department on 28 October 2004. An Environmental Permit (EP) No.EP-202/2007 and a Variation Environmental Permit (VEP) No. EP-202/2007A were issued on 22 March 2007 and 30 April 2014 for TPSTW Stage V Phase 2B (hereafter referred to as "the Project") to DSD as the Permit Holder. The EP stipulates that an EM&A programme is required to ensure the mitigation measures recommended in the EIA Report and the EM&A Manual, are implemented during the construction and operation of the Project.

1.2 **Project Description**

1.2.1 MateriaLab – Waste and Environmental Technologies Joint Venture (MLAB) was commissioned by DSD to undertake the EM&A services of the Project including Odour Monitoring, Odour Complaint Register and Marine Water Quality Monitoring during the operation phase, under the Agreement No. CE 21/2014 (EP) Environmental Monitoring and Audit for Tai Po Sewage Treatment Works Stage V Phase 2B – Investigation (hereafter referred to as "the Assignment").

1.3 **Project Organisation**

1.3.1 The Project Organisation for Environmental Works is shown in **Appendix A**. The contact person and telephone numbers of key personnel for the captioned project are shown in **Table 1.1**.

Party	Role	Position	Contact Person	Telephone No.	Fax No.
DSD	SP Division	Engineer	Ms. Suki Pun	2594 7472	2519 3615
Mott MacDonald	IEC	IEC	Ms. Dulcie Chan	2828 5970	2827 1823
MLAB	Environmental Team	Environmental Team Leader	Mr. Colin Yung	3565 4114	2450 8032

 Table 1.1 Contact Persons and Telephone Numbers of Key Personnel

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2. AIR QUAILITY MONITORING

2.1 Methodology

2.1.1 The H₂S analyzer, type Jerome 631-X, was used for the air quality monitoring. The analyzer is capable of measuring H₂S concentration in the range of 1 ppb to 50 ppm, with a resolution of 1 ppb. The analyzer operates within a temperature range of 0°C to 40°C, at an air flow rate of 0.15 L/min. Grab air sample is drawn by built-in suction pump of the analyzer and passes through a gold film sensor. The electrical resistance of the gold film changes according to the change in mass of hydrogen sulphide in the gas sample. **Table 2.1** summaries the equipment used in air quality (H₂S) monitoring.

Equipment	Manufacturer / Model	Serial Number	Sensor Number	Calibration Date	Next Calibration Date
Gold Film Hydrogen Sulphide Analyzer	JEROME X631 0003	2966	14-11-23- R2D	24 June 2016	23 June 2017
Gold Film Hydrogen Sulphide Analyzer	JEROME X631 0003	2967	16-4-13- V2DS	23 June 2016	22 June 2017

Table 2.1 Equipment for Air Quality (H₂S) Monitoring

2.2 Monitoring Locations

2.2.1 Five monitoring stations were set up inside and outside of TPSTW. **Table 2.2** and **Figure 2.1** show the description and location of the H₂S monitoring stations. The level for odour monitoring agreed with the DSD and EPD is 1.5m from the ground.

ID No.	EM&A Ref.	Monitoring Location	Description
PRI 2031	OSM1	Stage I/II Primary Sedimentation Tank	Source
PRI 401 ¹	OSM2	Stage IV Primary Sedimentation Tank	Source
AS 12 ^{1,2}	OAM1	Government Staff Quarter (Inside)	ASR
AS 4 ^{1,2}	OAM2	Interpac Containers Ltd (Outside)	ASR
AS 1 ^{1,2}	OAM3	Watson's Water Centre (Outside)	ASR

Table 2.2 Air Quality (H₂S) Monitoring Stations

¹EIA Reference No. ²Air Sensitive Receiver

2.3 Monitoring Frequency and Duration

2.3.1 The sampling duration and frequency of air quality (H₂S) monitoring is summarised in **Table 2.3**.

Sampling Duration		Frequency
0.11	Year 1	Once every three months after operation of Stage V Phase 2B works; frequency would increase to monthly interval if exceedances are recorded.
24 hour	Year 2 and Year 3	Once every six months after operation of Stage V Phase 2B works; frequency would increase to monthly interval if exceedances are recorded.

Table 2.3 Air Quality (H₂S) Monitoring Programme

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- 2.3.2 A 15-min integrated gaseous H₂S sample was collected every 3 hours for a period of 24 hours at the monitoring locations. Maximum and minimum H₂S levels for each monitoring station were recorded.
- 2.3.3 The monitoring schedule for the present and next reporting period is provided in Appendix B.

2.4 Action / Limit Level

2.4.1 **Table 2.4** shows the Action and Limit Levels for air quality (H₂S) monitoring at ASRs.

Table 2.4 Action and Limit Levels for Air Quality Monitoring at ASRs

Action Level	Limit Level*
2.5 ppb	2.5 ppb

*Limit Level at ASRs only.

2.4.2 The event and action plan for air quality monitoring is provided in **Appendix C**.

2.5 Quality Assurance / Quality Control

- 2.5.1 In order to ensure the analyzer is functioning properly, manual sensor regeneration and zero adjustment were performed before each set of odour monitoring.
- 2.5.2 Calibration of the analyzer is conducted every year at the laboratory of the manufacturer. The calibration certificates for the analyzers are shown in **Appendix D**.
- 2.5.3 To obtain accurate results from the H₂S monitoring at Stage IV Primary Sedimentation Tanks, sulphide formation at the bottom shall be cleaned and minimised.

2.6 Monitoring Results and Observations

- 2.6.1 The tenth odour impact monitoring was carried out from 30 March 2017 to 31 March 2017 after the commissioning of the Project.
- 2.6.2 The meteorological data including temperature, wind speed and direction of the monitoring period obtained from the HKO's Tai Po weather station is summarised in **Table 2.5**.

Date	Mean Temperature(°C)	Prevailing Wind Direction	Mean Wind speed (km/h)
30 March	21.4	South East	10.7
31 March	19.7	South East	8.6

Table 2.5 Summary of meteorological data of the monitoring period#

The meteorological data was extracted from the website of HKO.

2.6.3 The monitoring results are summarised in **Table 2.6**. Graphical plots of results and details of monitoring data are shown in **Appendix E** (24-hour average, maximum and minimum H₂S concentration) and **Appendix F** (site record).

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ID No.	EM&A Ref.	Monitoring Location	24-hour Average H ₂ S Concentration (ppb)
PRI203 ¹	OSM1	Stage I Primary Sedimentation Tank	25
PRI401 ¹	OSM2	Stage IV Primary Sedimentation Tank	25.7
AS12 ^{1,2}	OAM1	Government Staff Quarter (Inside)	1.7
AS4 ^{1,2}	OAM2	Interpac Containers Ltd (Outside)	16.3
AS1 ^{1,2}	OAM3	Watson's Water Centre (Outside)	1.4

 Table 2.6 Summary of Monitoring Results

¹EIA Reference No. ²Air Sensitive Receiver

2.6.4 Comparison of the average H₂S concentration for ASRs and the corresponding Action/Limit levels established in the odour baseline study is shown in **Table 2.7**.

	H₂S C	oncentration (p	pb)	Exce	eedance
Location	Odour Impact monitoring	Action Level	Limit Level	Action Level	Limit Level
AS12	1.7	2.5	2.5	N	Ν
AS4	16.3	2.5	2.5	Y	Y
AS1	1.4	2.5	2.5	N	Ν

Table 2.7 Comparison of Average H₂S Concentration with Action/Limit Levels

- 2.6.5 Exceedances of A/L levels of 2.5 ppb H₂S concentration at one Air Sensitive Receivers (AS4) were recorded.
- 2.6.6 Odour mitigation measures such as the use of weir launders at Stage I/II and Stage IV Primary Sedimentation Tanks and addition of chemical (calcium nitrate) at Tai Yuen Sewage Pumping Station Package No. 4 were implemented during the odour impact monitoring. However, exceedances of A/L levels of H₂S were resulted.
- 2.6.7 Even though specific sources of odour that would contribute to the odour nuisance at ASRs was not observed in this monitoring exercise. It is important to consider the location and surrounding environment of the Tai Po Sewage Treatment Works. Located at the Tai Po Industrial Estate, the TPSTW is surrounded by different industrial buildings. Exceedances of A/L levels at ASRs might be attributed to other sources such as nearby Refuse Collection Station and the industrial nature of the surrounding environment. These potential sources may cause odour nuisance to the Air Sensitive Receivers and hence, the high H₂S levels measured at ASRs may be contributed by the emissions from sources other than that of the TPSTW.
- 2.6.8 In accordance with the Event and Action Plan for Operation Phase Air Quality Monitoring, the following actions have been taken in response to the exceedance of limit level.
- 2.6.9 The ET had repeated measurement to confirm exceedance. Then they had tried to identify the causes of exceedance and took photos for record. The operation team and DSD/SPD had been notified immediately when exceedance was recorded. After finishing the odour monitoring, the operation team was reminded to have better housekeeping of the TPSTW.

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3. MARINE WATER QUALITY MONITORING

Tel

3.1 **Monitoring Requirements**

Tolo Harbour Marine Water Quality Impact Monitoring

There was no marine water quality impact monitoring conducted during the reporting period and 3.1.1 therefore, no marine water quality monitoring result is reported.

Water Quality Monitoring at Seawater Intakes

3.1.2 There was no water quality monitoring conducted during the reporting period and therefore, no water quality monitoring result is reported.

Tel

Fax

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4. ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 4.1.1 TPSTW had registered as a chemical waste producer for this Project. The license number of Chemical Waste Producer Registration is 0014-727-D2226-15 which is presented in Appendix Η.
- 4.1.2 TPSTW is reminded that chemical waste should be properly handled and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. TPSTW should also engage a licensed waste collector to collect the chemical waste for proper disposal.
- 4.1.3 Sludge cake of TPSTW was temporarily stored within the dewatering house. Normally, all the sludge cake was disposed to Sludge Treatment Facility (STF). If STF breaks down, the sludge cake will be disposed to WENT landfill.

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5. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

- 5.1.1 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) for operation phase is presented in Appendix G. Most of the necessary mitigation measures at this stage of works were implemented properly.
- 5.1.2 Implementation status of operational landfill gas monitoring was confirmed with operation team of TPSTW. There is no accumulation of landfill gas at area for normal occupation inside TPSTW. When confined space works were being conducted, gas monitoring was performed before entry in accordance with Code of Practice on Safety and Health at Work in Confined Spaces.



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6. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

6.1.1 There was no complaint received in relation to the environmental impact or notifications of summons or prosecutions received during this reporting period.

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7. CONCLUSION AND RECOMMENDATIONS

- 7.1.1 The tenth odour impact monitoring was carried out from 30 March 2017 to 31 March 2017 during this reporting period in accordance with the EM&A requirements.
- 7.1.2 Air quality monitoring of hydrogen sulphide (H2S) was conducted at five monitoring stations including three Air Sensitive Receivers around TPSTW. Exceedances of A/L levels of 2.5 ppb at one ASRs (AS4) were recorded.
- 7.1.3 There was no marine water quality impact monitoring conducted during this reporting period and therefore, no marine water quality impact monitoring result is reported.
- 7.1.4 There was no water quality monitoring conducted during this reporting period and therefore, no water quality monitoring result is reported.

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Figure 2.1

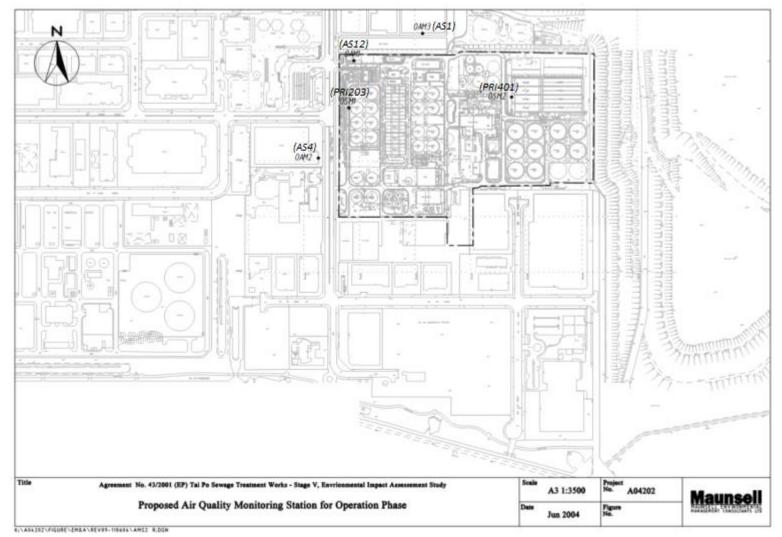
Air Quality (H2S) Monitoring Stations

MateriaLab – Waste & Environmental Technologies Joint Venture

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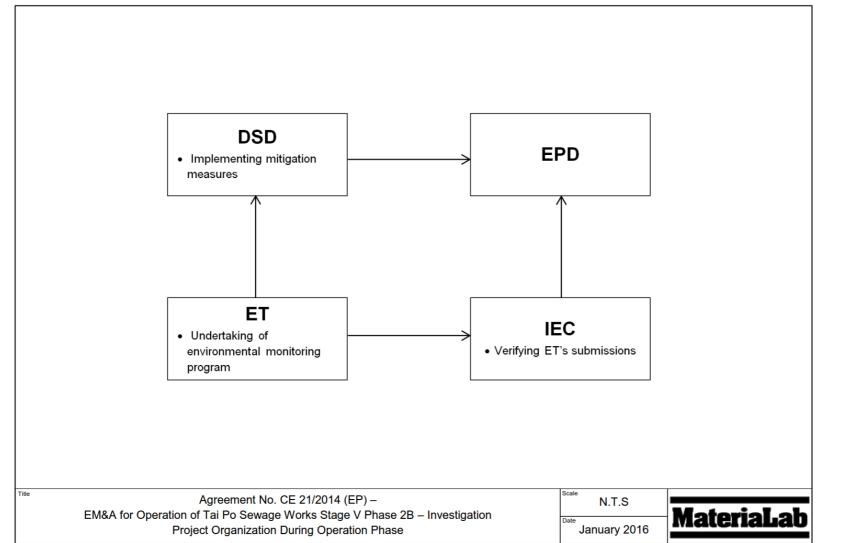
Appendix A

Project Organisation Chart

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Appendix B

Monitoring Schedule

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			Mar-2017			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30 Air Quality (H ₂ S) Monitoring	31 Air Quality (H ₂ S) Monitoring	

Air Quality Monitoring Schedule for March 2017

Note: There was no marine water quality monitoring conducted during March 2017

Tentative Air Quality Monitoring Schedule for April 2017

Mon	Tue	Apr-2017 Wed	2 Thu	Fri 3	4 Sat
		1	2	3	4
6	7	8	9	10	11
13	14	15	16	17	18
20	21	22	23	24 Air Quality (H ₂ S) Monitoring	25 Air Quality (H₂S) Monitoring
	3	13 14 20 21	13 14 15 20 21 22	13 14 15 16 20 21 22 23	$\begin{array}{c cccc} & & & & & & & \\ \hline 13 & & 14 & & 15 & & 16 & & 17 \\ \hline 20 & & & & & & \\ \hline 20 & & & & & & \\ \hline 21 & & & & & & & \\ \hline 22 & & & & & & & \\ \hline 23 & & & & & & & \\ \hline 31 & & & & & & & \\ \hline 31 & & & & & & \\ \hline 24 & & & & & & \\ \hline 31 & & & & & & \\ \hline 22 & & & & & & \\ \hline 31 & & & & & & \\ \hline 23 & & & & & & \\ \hline 31 & & & & & \\ \hline 31 & & & & & \\ \hline 32 & & & & & \\ \hline 31 & & & & & \\ \hline 32 & & & & & \\ \hline 31 & & & & & \\ \hline 31 & & & & \\ \hline 32 & & & & & \\ \hline 31 & & \\ \hline 31 & & & \\ \hline 31 & & \\ $

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Appendix C

Event / Action Plan for Air Quality Monitoring (Operation Phase)

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		Action	
Event	TPSTW Enginneer –in-charge of Odour Monitoring	DSD ST1	DSD/SP / E &MP (*)
Exceedance of action level or receipt of any odour complaints	 Identify source/ reason of exceedance or odour complaints; and Repeat measurement confirm finding. 	 carry out investigation to identify the source / reason of exceedance or complaints. Investigation shall be completed within 1 week; rectify any unacceptable practice; amended working methods if required; inform DSD SP/E&MP if cause of complaints or exceedance is considered to be caused by civil or E &M design problems; Correspond to the complaints within 10 days to inform the cause of nuisance and action taken; and cause of nuisance; and Implement amended working methods. 	
Exceedance of Limit level or receipt of two or more complaints in 3 months	 Identify source / reason of exceedance or odour complaints; Repeat measurements to confirm findings ; Increase monitoring frequency to monthly; and If exceedance stops, cease additional monitoring. 	 Carry out investigation to identify the source / reason of exceedance or complaints. Investigation shall be completed within 1 week; rectify any unacceptable practice; amended working methods if required; notify DSD SP / E&MP formulate remedial actions; ensure amended working methods and remedial actions properly implemented; if exceedance continues, consider what portion of the work is responsible and stop that protion of work until the exceedance is abated; and correspond to the complaints within 10 days to inform the cause of the nuisance and action taken. 	 Assist ST1 to find the root cause of the complaint or exceedance; modify or improve design as appropriate; and formulate remedial actions in association with ST1

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Appendix D

Calibration Certificate

ARIZONA INSTRUMENT LLC 3375 N. Delaware St., Chandler, AZ 85225 (800) 528-7411 • (602) 470-1414

www.azic.com • customerservice@azic.com

Certification of Instrument Calibration

Guyline (Asia) Ltd Rm 1611, Eastern Harbour Centre Quarry Bay,

This is to certify that the Jerome X631 0003 Gold Film Hydrogen Sulfide Analyzer, Serial Number 2966, with Sensor Number 14-11-23-R2D, was calibrated with standard units traceable to NIST.

Calibration Status as Received:			Out of Calibration				
		Actual		Calibr	ation Gas	Allowable Range	
Incoming:	Range 1 RSD %	0.378 4.02	ppm H2S	0.500	ppm H2S	+/- 6% <5%	
Outgoing:	Range 1 RSD %	0.496 1.84	ppm H2S	0.500	ppm H2S	+/- 6% <5%	

Calibration Status as Left:

In Calibration

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 24-Jun-2016

Temperature °F: 73.40

Recalibration Date: 23-Jun-2017

% Relative Humidity: 41.10

Title: Cheryl Hradek - Quality Control

Date Approved: 27-Jun-2016

Equipment Used:

Approved By:

H2S Calibration Standard: CC-128282 NIST#: 1323407 Calibration Date: 07-Jan-2015 Calibration Date Due: 08-Jan-2018

Mass Flow Controller B: 124606 NIST#: 130142 Calibration Date: 18-Nov-2015 Calibration Date Due: 18-Nov-2016

Mass Flow Controller D: 124609 NIST#: 130128 Calibration Date: 18-Nov-2015 Calibration Date Due: 18-Nov-2016

Digital Multimeter: 33390673WS NIST#: 7002611 Calibration Date: 24-Mar-2016 Calibration Date Due: 24-Mar-2017

Flowmeter: US04H25956 NIST#: 1813; 1817; 1796 Calibration Date: 18-Nov-2015 Calibration Date Due: 18-Nov-2016

Calibration Procedure Used: 730-0032

Arizona Instrument certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques

Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, Arizona Instrument LLC WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications

As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

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RMA # 2352086

ARIZONA INSTRUMENT LLC

3375 N. Delaware St., Chandler, AZ 85225 (800) 528-7411 • (602) 470-1414 www.azic.com • customerservice@azic.com

Certification of Instrument Calibration

Date Approved: 23-Jun-2016



RMA# 2352084

Guyline (Asia) Ltd Rm 1611, Eastern Harbour Centre Quarry Bay,

This is to certify that the Jerome X631 0003 Gold Film Hydrogen Sulfide Analyzer, Serial Number 2967, with Sensor Number 16-4-13-V2DS, was calibrated with standard units traceable to NIST.

Calibration Status as Received:				Out of Calibration					
			Actual		Calibrat	tion Gas	Allowable Rang	e	
	Incoming:	Range 1 RSD %	0.210 13.62	ppm H2S	0.500	ppm H2S	+/- 6% <5%		
	Outgoing:	Range 1 RSD %	0.496 1.18	ppm H2S	0.500	ppm H2S	+/- 6% <5%		

Calibration Status as Left: In Calibration

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 23-Jun-2016

Recalibration Date: 22-Jun-2017

Temperature °F: 74.30

% Relative Humidity: 38.30

tradel

Title: Cheryl Hradek - Quality Control

Equipment Used:

Approved By:

H2S Calibration Standard: CC-128282 NIST#: 1323407 Calibration Date: 07-Jan-2015 Calibration Date Due: 08-Jan-2018

Mass Flow Controller B: 124606 NIST#: 130142 Calibration Date: 18-Nov-2015 Calibration Date Due: 18-Nov-2016

Mass Flow Controller D: 124609 NIST#: 130128 Calibration Date: 18-Nov-2015 Calibration Date Due: 18-Nov-2016

Digital Multimeter: <u>33390673WS</u> NIST#: <u>7002611</u> Calibration Date: <u>24-Mar-2016</u> Calibration Date Due: <u>24-Mar-2017</u>

Flowmeter: <u>US04H25956</u> NIST#: <u>1813</u>; <u>1817</u>; <u>1796</u> Calibration Date: <u>18-Nov-2015</u> Calibration Date Due: <u>18-Nov-2016</u>

Calibration Procedure Used: 730-0032

Arizona Instrument certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.

Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, Arizona Instrument LLC WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications.

As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

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Report No.: 0151/15/ED/0984

Appendix E

Air Quality (H₂S) Monitoring Data and Graphical Plots

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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		H ₂ S concentration (ppb)*								
			1(D th Odour Im	pact Monito	ring (30-3	31 March 2017)			
Location	Time Interval	15-minute integrated average	24-hour average	Maximum	Minimum	Action Level	Exceedance	Limit Level	Exceedance	
	0700-1000	5.7								
	1000-1300	1.3								
	1300-1600	0.0								
AS12 ^{1,2}	1600-1900	3.0	1.7	5.7	0.0	2.5	No	2.5	No	
7.012	1900-2200	0.0	1.7	0.7	0.0	2.0	110			
	2200-0100	0.3								
	0100-0400	2.0								
	0400-0700	1.3								
	0700-1000	13.7								
	1000-1300	3.7								
	1300-1600	0.0		61.7			Yes	2.5	Yes	
AS4 ^{1,2}	1600-1900	25.0	16.3		0.0	2.5				
	1900-2200	1.7	10.5		0.0	2.5				
	2200-0100	1.7								
	0100-0400	61.7								
	0400-0700	23.0								
	0700-1000	3.0								
-	1000-1300	1.3								
	1300-1600	0.0								
AS1 ^{1,2}	1600-1900	2.0	1.4	3.0	0.0	2.5	No	2.5	No	
	1900-2200	0.0				2.5		2.0		
	2200-0100	1.3								
	0100-0400	1.7								
	0400-0700	2.0								
	0700-1000	112.7								
	1000-1300	30.7					NA			
	1300-1600	1.3								
PRI401	1600-1900	10.7	25.7	112.7	1.3	NA		NA	NA	
F 1\1401	1900-2200	3.0	25.7	112.1	1.5					
	2200-0100	10.3								
	0100-0400	12.3								
	0400-0700	24.3								
	0700-1000	106.0								
	1000-1300	61.3								
	1300-1600	2.0								
PRI203	1600-1900	21.7	25.0	106.0	1.7	NA	NA	NA	NA	
FILLOS	1900-2200	2.0	20.0	100.0	1.7	NA	NA	IN/A	NA	
	2200-0100	3.0								
	0100-0400	2.0								
	0400-0700	1.7								

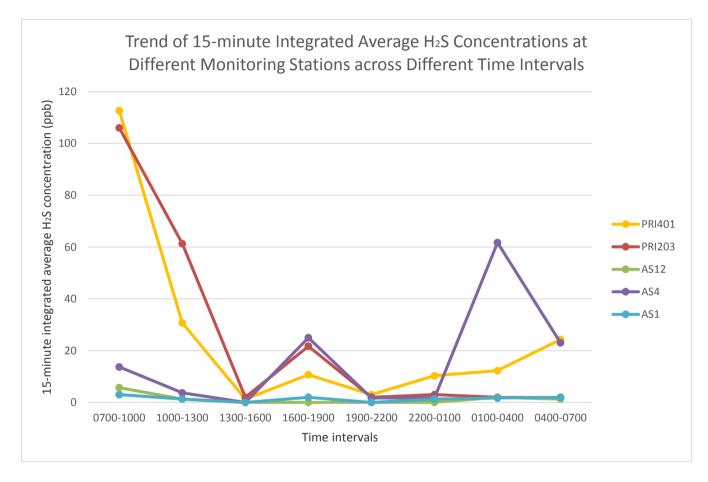
*Accuracy is not guaranteed by the manufacturer for readings that are lower than 0.003 ppm (3 ppb).

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	0700-1000	1000-1300	1300-1600	1600-1900	1900-2200	2200-0100	0100-0400	0400-0700
PRI 401	112.7	30.7	1.3	10.7	3.0	10.3	12.3	24.3
PRI203	106.0	61.3	2.0	21.7	2.0	3.0	2.0	1.7
AS12	5.7	1.3	0.0	3.0	0.0	0.3	2.0	1.3
AS4	13.7	3.7	0.0	25.0	1.7	1.7	61.7	23.0
AS1	3.0	1.3	0.0	2.0	0.0	1.3	1.7	2.0



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Report No.: 0151/15/ED/0984

Appendix F

Site Record

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Form 3.1

 $\widehat{}$

Air Quality (H₂S) Monitoring Data Record Sheet

		Ge	neral Informa	tion				
Monitoring S	tation		AS4					
Date			30-3-	30-3-2017				
Weather			Cloudy	<u> </u>				
		M	onitoring Resu	ılts				
Sample No.	1	lime	Wind Speed	Wind Direction	Level(ppm)			
Sample 1	Start: ()	1 <i>l t</i>	0	/	0.020, 0.006,			
		126	D		0.015	~		
Sample 2	Start: 17	LOT	0		0.005, 0.002,			
	Stop: 12	-15	0		0.004			
Sample 3	Start: 10	457	0	/	0,0,0			
	Stop: / S	507	0	-	نى بى			
Sample 4	Start: V	1:30	Ó		0.008,0.038,	651-2966		
<u>A</u>	Stop: 1	740	6		1029			
Sample 5	Start: 20	1:07	0		0.002,0.002,0.001			
	Stop: 20	5=17	6					
Sample 6	Start: こと	530	0	/	0.003, 0.001,0.001	° OLAN		
ан ж. М . ^{Ал Т}	Stop: _>>	40	0	/		0 51 296 /		
Sample 7	Start: 02-20	2	0.1		0.003, 0.001, 0.001	E.		
	Stop:		01		0,00	\$) 63 (
Sample 8	Start: (5-;	10	6		0.033, 0.035,) 2966		
	Stop: 05-	20	0		0.00)			
Other Observ	ations				Market.			

Name & Designation Signature Recorded by: Felix, A.T.C. Runne ATO Fric Run Alto

<u>Date</u> 30-3-2017

MateriaLab

		Gene	eral Informa	tion		
Monitoring St	tation		ASI			
Date	<u></u>		30-3-2			
Weather	<u></u>		Cloudy			
		Mor	nitoring Resu			**
Sample No.		Time	Wind Speed	Wind Direction	Level(ppm)	
Sample 1	Start: (1859	0		0.004.0.002	7131.2966
	Stop: O	909	0	/	0.003	
Sample 2	Start:	143	D	/	0.002,0.001,	
	Stop:	53	0		0.001	1
Sample 3	Start: 🔩	SEE 1443	0	shit /	frages agented	61-2967
	Stop:	1453	0	/	0,0,0	
Sample 4	Start:	1713	δ		0.002, 0.002,	6 631 - 2966
	Stop:	1723	Õ		0.002	
Sample 5	Start:	3000-1951	Ò		0.002 0.002,0.002, 0.002,0.00 0.002,0.00 0.002,0.00 0.002,0.00 0.002	(21)4667
	Stop:	20165	Ó		0.0000000	Jost- Juny
Sample 6	Start:	+23:00	0	/	0,0.003,0.00/	151.0.
	Stop:	1370	д	/		6512467
Sample 7	Start:	72-17	()- I	/	0.002,0.001,	621 2960
	Stop:	2:27	0		0.002	
Sample 8	Start:	051:23	0		0.003,0.00	6313960
	Stop:	045=33	0		0.002	001-100
Other Observ	ations					
						• •

Form 3.1 Air Quality (H₂S) Monitoring Data Record Sheet

	Name & Designation	Signature	Date
Recorded by:	Felix A.T.C. Runne ATTO FTC	Un of	30-3-2017

MateriaLab

		Gene	eral Informat	tion		
Monitoring St	tation		A512	~		
Date		30	- 3- 2017	7		
Weather		(cloudy	, <u>, , , , , , , , , , , , , , , , , , </u>		
		-	nitoring Resu	ılts		
Sample No.	Г	l'ime	Wind Speed	Wind Direction	Level(ppm)	
Sample 1	Start: 08	42	0		0.003,0.004	131-2966
	Stop: 08		D		0.0/0	
Sample 2	Start: []]	22	Ç		0.001, 0.002,	11
		32-	Q		Deer land	0.001
Sample 3	Start: 14	27	0		P. D. D	631-29(7
	Stop: 14 3		0			
Sample 4		57	ð		0.002,0.002,0.005	2631-2966
	Stop: 17t		0		····	2 031-2100
Sample 5	Start: 122	2638	0		0.000_0_000_0_000	631-2967
! 	Stop: 24	19.48	0			
Sample 6	Start:	05:25	0		0,0,0.001	631 367
	Stop: 🐊	05753	0	/	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	101-10/
Sample 7	Start: 017		0		0.002,0.002	
	Stop: 02:0	00	Ď		0.002	\$ 631-296
Sample 8			OFFIT		0,001	1)
	Stop:	03:47	0		D.002	/
Other Observa	'ations	·····		······································		
	·····				*****	J

Form 3.1 Air Quality (H₂S) Monitoring Data Record Sheet

Name & Designation Signature Recorded by: Felix, A.I.O. Ronnie, ATO Eric Un A

<u>Date</u> 30-3-2017

MateriaLa

Form 3.1

Air Quality (H₂S) Monitoring Data Record Sheet

		Gene	eral Informat	ion]		
Monitoring St	tation		PRI4	01				
Date	Date			PRI 401 30-3-2017				
Weather			cloudy					
<u></u>		Mon	Monitoring Results					
Sample No.		Time	Wind Speed	Wind Direction	Level(ppm)			
Sample 1	Start: C	0717	0		0.28,0.037,	631-2966		
	Stop: (17-17	Õ		0.021 -			
Sample 2	Start:	000	0	/	900.0,800.0	7		
	Stop:	010	D	/	0.076 11			
Sample 3	Start:	第1300	Ref O	SE /	Mars . Re	10.		
	Stop:	13to	00	NH /	@ 0.001, 0.001; 0.002	L 631-2967		
Sample 4	Start:	J600	Ö		1.002 1.002 1.002 1.003 1.003 0.001,005 0.001,005	631-2961		
	Stop:	1210	Ô		10008, 0.013;	65(-256)		
Sample 5	Start:	19-00	δ	<u> </u>	D007 0.001,000	631-2967		
	Stop:	19:10	0					
Sample 6	Start:		Ð		0.001, 0.025,	631 2967		
	Stop: 굴	STO_	Ø		0.005			
Sample 7	Start: 03	0:20 M	0		0.002,0.002	1-1		
	Stop: 03	:19	0		p.005, p.012, 0.1	20 (631		
Sample 8	Start: 4.	:17	0		0.002,0.002	12966		
	Stop: 43	27	Ø		0.069			
Other Observ	rations							

Name & Designation Signature Felix, A.T.O. RUMM INTO File UM A

<u>Date</u>

Recorded by:

MateriaLab

		Ger	eral Informa	tion		
Monitoring St	tation		PRJ2	.03		
Date			30-3-20			
Weather			Cloudy			
		Mo	nitoring Resu	ults		
Sample No.	Tù	me	Wind Speed	Wind Direction	Level(ppm)	
Sample 1	Start: 0	827	0		0.18,0.076	1631-2966
	Stop: 0	837	0		0.062	
Sample 2	Start: []	8	0	1 -	0:030, 0.044,	
	Stop: 111	8	0.) (19)	ANN	0.11	
Sample 3	Start: 14	轩14	Q		0.002,0.001	631-2967
	Stop: 14	24	0		0.005	
Sample 4	Start: 17	:46	ð		0.020,0.029,	631-29/6
	Stop: \7	2 2 P	ð		0.016	
Sample 5	Start: 20	.)3	6		0.016 0.002,0.002,0.002 0.004, 0.003,0.00 0.002,0:003 0.001 0.001 0.002 0.002	(31-286)
	Stop: 20	<i>ک</i> ر کر	Ô			
Sample 6	Start: 00:	40	0	and the second s	0.004, 0.003, 0.00	2 631
	Stop: 003	150	0			2967
Sample 7	Start: 037.	37	0		0.002,0:003	
	Stop: 03=	47	Ø		0.001	25+63
Sample 8	Start: 03;	49	0		D-001, D.002) 2766
	Stop: 03	: 59	0		0.002	
Other Observ	ations					

Form 3.1

Air Quality (H₂S) Monitoring Data Record Sheet

Name & DesignationSignatureDateFelix, A.1.C. Rohnic ATO EricUm R70-3-2017

.

Recorded by:

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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Report No.: 0151/15/ED/0984

Hourly Temperature of the Monitoring Period:

Date	Time	Temperature (°C)
	7:00	21
	8:00	21
	9:00	21
	10:00	21
	11:00	22
	12:00	22
	13:00	22
	14:00	22
30-Mar-17	15:00	22
	16:00	22
	17:00	21
	18:00	21
	19:00	21
	20:00	21
	21:00	21
	22:00	21
	23:00	21
	0:00	21
	1:00	21
	2:00	21
31-Mar-17	3:00	21
	4:00	21
	5:00	21
	6:00	21
	7:00	21

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Report No.: 0151/15/ED/0984

Appendix G

Implementation Schedule of Environmental Mitigation Measures (EMIS) for Operation Phase

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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Report No.: 0151/15/ED/0984

EIA Ref.	Environmental Protection Measures	Location of the measures	Implementation Status
Air Quality			
S3.7.5 & 3.7.8	Exposed area at Stage I/II & IV of inlet pumping stations, sludge digestion tank outlet chambers should be covered, with the foul air drawn through deodorization units and discharged after treatment. The grit removal & flume channel at Stage I/II inlet works and the grit removal at Stage IV inlet works should be covered.	TPSTW	Completed
\$3.7.6	Weir launders of the Stage I/II and Stage IV primary sedimentation tanks should be covered to control odour emission. Chemical should also be added to the sewage at Tai Yuen Sewage Pumping Station No.4 for the control of odour at Stage IV inlet pumping station, screen house and primary sedimentation tanks.	TPSTW	Completed
\$3.7.7	The sludge gravity thickeners, sludge consolidation tanks, screening unit (next to dewatering house), exposed area of wet well of Stage I/II returned activated sludge pumping station and wet well of Stage I/II sludge pumping station should be enclosed to ensure no leakage of odorous gas whereas foul air from the sludge gravity thickeners and sludge consolidation tanks would be discharged via deodorizers.	TPSTW	Completed
Water Qualit	y		·
S4.8.10	Silt curtains should be installed at the Shatin and Tai Po Seawater Intakes. Relevant government departments including EPD and WSD should be informed of then maintenance.	TPSTW	Not applicable in this reporting month.
S4.8.11	Dual power supply or ring main supply from CLP should be provided for the Project to avoid any loss of electrical supply. In addition, standby facilities for the main treatment units, standby parts/accessories to the equipment should also be provided in order to minimize the chance of emergency discharge.	TPSTW	Completed
S4.8.10 S4.8.12	Shutdown of the THEES, if unavoidable, should be shortened as far as possible. The relevant procedures established in the contingency plan as attached in Appendix 4.5 of the EIA report should be properly followed.	TPSTW	Not applicable in this reporting month.
S4.8.13	Dye test is recommended for detection of pipe leakage.	Submarine pipeline at Tolo Harbour	Not applicable in this reporting month.
S4.10.1	Effluent monitoring is recommended to ensure the effectiveness of the proposed treatment process. Details of the monitoring requirements are specified in the EM&A.	Exit of disinfection facilities	Completed
\$4.10.2	A post project monitoring (PPM) programme for Victoria Harbour should be implemented to confirm the predictions of the water quality made in the EIA report. The PPM would consist of one- year baseline monitoring before commissioning and one-year impact monitoring after commissioning of the Project. The extent of PPM programme is subject to the prevailing environmental conditions at the time before commissioning of the Project. A more detailed description of the PPM requirements is given in the standalone EM&A Manual	Victoria Harbour	Not applicable in this reporting month.
S4.10.3	A PPM programme will be also implemented in the Tolo Harbour during the operational phase. The PPM would involve water quality monitoring at the Tai Po and Sha Tin seawater intake during the first wet season (June to August) after full commissioning of the Project. Marine water quality parameters including SS and NH3-N should be monitored. The water quality monitoring frequency shall be twice per month and should cover the effects of different tidal status (at least one for high tide and one for low tide) for each seawater intake.	Tolo Harbour	Completed

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Report No.: 0151/15/ED/0984

S4.8.10 &S4.10.4 Waste Mana	Marine water quality monitoring should be carried out under emergency condition or during maintenance of the THEES tunnel to verify the findings of the water quality modelling. It is recommended that the maintenance of the THEES tunnel, if unavoidable, should be conducted during winter season or low flow periods and to avoid the "blooming" season of algae (normally from April to June)if practicable. Details of the monitoring requirements are specified in the EM&A Manual.	Tolo Harbour	Not applicable in this reporting month.
S5.5.9	<u>Chemical Waste</u> For the disposal of spent UV lamps, the STW operator would be required to register with the EPD as a Chemical Waste Producer and to follow the requirements stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. A chemical waste producer must engage a licensed waste collector to transport and dispose of the chemical wastes in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	TPSTW	Completed
Landfill Gas S6.6.9	S Hazard When service voids, manholes or inspection chambers within the proposed site are entered for maintenance, monitoring and a checklist system of safety requirements should be performed before entry in accordance with Code of Practice on Safety and Health at Work in Confined Spaces.	Area of TPSTW within 250m consultation zone	Completed
S6.6.10	For newly built permanent structures, gas- resistant polymeric membranes shall be incorporated into floor or wall construction to act as a continuous sealed layer for the structure. In addition, forced ventilation shall be installed in such rooms or buildings. Gas detection systems should also be proposed where there is an organization involved in the long-term or frequently use of the development in order to monitor internal spaces inside buildings.	Area of TPSTW within 250m consultation zone	Completed
S6.6.11	Forced ventilation should be used if methane of more than 0.5% (by volume) in the internal atmosphere (e.g. In service voids, manholes, inspection chambers or rooms as mentioned above) is detected.	Area of TPSTW within 250m consultation zone	Completed
S6.6.12	No person should enter or remain in any confined spaces or trenches where the carbon dioxide concentration exceeds 1.5% (by volume).	Area of TPSTW within 250m consultation zone	Completed
S6.6.13	Oxygen concentration should be monitored and no person shall enter or remain in any confined spaces or trenches where the oxygen content of air has fallen below 18 % by volume.	Area of TPSTW within 250m consultation zone	Completed
S6.6.14	All the access to these confined spaces should be restricted only to authorized personnel who should be aware of the LFG hazard. No member of general public should be permitted or allowed to access these confined spaces, manholes or inspection chambers.	Area of TPSTW within 250m consultation zone	Completed

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Report No.: 0151/15/ED/0984

Appendix H Chemical Waste Producer Registration License

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

Tel : (852)-24508238 Fax : (852)-24508032 Email : mcl@fugro.com **MateriaLab**

Report No.: 0151/15/ED/0984

to produce to the second secon	MEMO	39
From : <u>Director of Environmental Pro</u>		
Ref. : _() in <u>EP CW/D2226/727/3</u>	(Attn. Mr. Ho Wai Hung) 2/5 15 / Tai Po STW	
Tel. : <u>2634 3884</u> Fax 2685 1155	Your Ref. : inTP/A57	
Date : 19 APRIL , 2000	dated : Fax no 26660207	

Waste Disposal Ordinance (Cap.354) Waste Disposal (Chemical Waste) (General) Regulation Registration as a Chemical Waste Producer Tai Po Sewage Treatment Works

I refer to your memo under reference.

2. Our records show that there are duplicate registration as a chemical waste producer (CWP) for the Tai Po Sewage Treatment Works. As per your request, we have removed one of the CWP registration (WPN of 0014-727-D2158-02 dated 26.10.1992) from the register with effect from the date of this memo. As a result, the registration form (Form EPD 130) with WPN of 0014-727-D2158-02 dated 26.10.1992 for the above premises is no longer valid.

3. On the other hand, I am pleased to inform you that your revised registration (WPN of 0014-727-D2226-15) with this Department as a CWP has been completed. Your assiged Waste Producer Number (WPN) and the particulars of your establishment are printed in the enclosed form (EPD 130). Please check these entries in the form and notify this Department immediately in any irregularities are detected. Please note that this registration is not transferable and will be valid only in respect of the applicant and the premises registered. In case of any change in the registration particulars, you should inform this Department as soon as possible so that our record so that our record can be amended accordingly.

4. Should you have any queries, please contact our Mr. YIU on 26851156 or the undersigned.

(W.C. SUN) Local Control Office (Territory North) for Director of Environmental Protection

Encl.

MateriaLab

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

Tel : (852)-24508238 Fax : (852)-24508032 Email : mcl@fugro.com

Report No.: 0151/15/ED/0984

	Environmental Protection Department 環境保護署
	Waste Disposal Ordinance (Chapter 354) 香港法例第 354 章廢物處理條例
	Waste Disposal (Chemical Waste) (General) Regulation 廢物處理(化學廢物)(一般)規例 Registration of Waste Producer 廢物產生者登記證
Waste Producer 廢物產生者	Full Name (English) DIRECTOR OF (Chinese) 运 務署長 全 名:(英文)_DRAINAGE_SERVICES (中文) 木務署長 I.D. Card No. (if any) 身份證號碼:(如有者) (如有者)
	Business Reg. Cert. No. (if any) 商業登記證號碼: (如有者) Address for Correspondence
	通訊地址:DSD, TAI PO_SEWAGE TREATMENT WORKS,
	7 DAI KWAI STREET, TAI PO INDUSTRIAL ESTATE, TAI PO, N.T. Tel. No. Fax No.
	電話:26640011 圖文傳真:26660207
於 <u>二000</u> 廢物產生者 Location	_年 <u>三</u> 月 <u>力</u> 日根據廢物處理(化學廢物)(一般)規例而來信,申請登記為廢物產生者,茲特配 編號第 <u>[0101114]-[71217]-[D12121216]-[115]</u> 號,予下開地點或樓字:—— Name of Establishment
ted below:- (於 <u>二000</u> 一麼物產生者 Location or Premises where the waste is produced 產生廢物 的地點或	_年 <u>三</u> 月 <u>力</u> 日根據廢物處理(化學廢物)(一般)規例而來信,申請登記為廢物產生者,茲特配 編號第 [0101114]-[71217]-[D12121216]-[115]號,予下開地點或樓字:——
i於 <u>000</u> 一 <u>厥物產生者</u> Location or Premises where the waste is produced 產生廢物 的地點或	_年 三 月 之」日根據廢物處理(化學廢物)(一殷)規例而來信,申請登記為廢物產生者,茲特配 編號第 <u>[0101114</u>]-[71217]-[<u>D12121216</u>]-[<u>115</u>] 號,予下開地點或樓字:—— Name of Establishment 機構名稱: <u>DSD, TAT_PO_SEWAGE_TREATMENT_WORKS</u> Business Reg. Cert. No. (if any) 商業登記證號碼: (如有者) Nature of Business 業務性質: <u>SEWAGE_TREATMENT</u> Major chemical waste types
i於 <u>000</u> 一 废物產生者 Location pr Premises where the waste is produced 產生廢物 的地點或	_年 三 月 之」日根據廢物處理(化學廢物)(一般)規例而來信,申請登記為廢物產生者,茲特配 編號第 <u>[0101114</u>] - [71217] - [D12121216] - [115] 號,予下開地點或樓字: Name of Establishment 機構名稱:DSD, TAI PO SEWAGE TREATMENT WORKS Business Reg. Cert. No. (if any) 商業登記證號碼: (如有者) Nature of Business 業務性質:SEWAGE TREATMENT Major chemical waste types 主要化學廢物種類:SPENT LUBRICATING OIL & SPENT SOLVENT
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i於 <u>000</u> 一 <u>厥物產生者</u> Location or Premises where the waste is produced 產生廢物 的地點或	年 三月之」日根據廢物處理(化學廢物)(一般)規例而來信、申請登記為廢物產生者、茲特配 獨號第 [0101114]-[71217]-[D12121216]-[115]號、予下開地點或樓字:
sted below:- 前於_ <u>=000</u>	-年 三 月 之」日根據廢物處理(化學廢物)(一般)規例而來信,申請登記為廢物產生者,茲特配 續號第 [0_10_11_14] - [7_12_17] - [D_12_12_12_16] - [1_15] 號,子下開地點或樓字: Name of Establishment 機 構 名 稱:DSD, _TAI_PO_SEWAGE_TREATMENT_WORKS_ Business Reg. Cert. No. (if any) 商業登記證號碼: (如有者) 而業登記證號碼: (如有者) Nature of Business 業務性質:SEWAGE_TREATMENT Major chemical waste types 主要化學廢物種類:SPENT_LUBRICATING_OIL & SPENT_SOLVENT Address 地址:DSD, _TAI_PO_SEWAGE_TREATMENT_WORKS, 7_DAI_KWAI_STREET, TAI_PO_INDUSTRIAL_ESTATE, _TAI_PO, N.T. Tel. No. 電話:26640011 國文傳真:26660207 Contact Person (Full Name) @ (Capacity) 聯絡人: (全名) HO_WAI_HUNG (職 位)_WORKS_MANAGER

警告:

change in his registration particulars commits an offence and is liable on conviction to a fine of \$10,000. 任何已登記的廢物產生者,若其登記資料有任何改變而不知會環境保護署署長,即屬違法,被定罪者最高 罰款港幣10,000元。

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