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Sang Hing Civil Contractors Co Ltd

CONTRACT NO. CV/2016/04 TEMPORARY CONSTRUCTION WASTE SORTING FACILITIES, 2017-2018

AT TSEUNG KWAN O AREA 137

MONTHLY EM&A REPORT NO.26

(FEBRUARY 2019)

Prepared by:

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Checked by:

LAU, Chi Leung Environmental Team Leader

Issue Date: 01 March 2019

Report No.: ENA91443

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Ref.: CEDPFRSFEM02_0_0566L.19

19 March 2019

By Email and Fax No.: 2695 3944

ETS-Testconsult Limited 8/F, Block B, Veristrong Industrial Centre 34-36 Au Pui Wan Street Fo Tan, Hong Kong

Attention: Mr. C L Lau

Dear Mr. Lau,

Re: Contract No. CV/2016/04 Temporary Construction Waste Sorting Facilities, 2017 – 2018

Monthly EM&A Report (No. 26) for February 2019 for the CWSF at Tseung Kwan O Area 137

Reference is made to your submission of the draft Monthly EM&A Report for February 2019 for the CWSF at TKO Area 137 by email on 13 March 2019 and the subsequent revision on 18 March 2019.

We are pleased to inform you that we have no further comment on the captioned report.

Thank you for your attention. Please do not hesitate to contact our Jason Lai or the undersigned should you have any queries.

Yours sincerely, For and on behalf of Ramboll Hong Kong Limited

after Beaf

F. C. Tsang Independent Environmental Checker

c.c. CEDD Sang Hing Attn: Mr. P C Leung Attn: Mr. Kenny Chan

Fax No.: 2714 0113 Fax No.: 2403 1162

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東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

Contract No. CV/2016/04 Temporary Construction Waste Sorting Facilities, 2017-2018 TKO CWSF

Report No. ENA91443 Monthly EM&A Report No.26

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EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.26 was prepared by ETS-Testconsult Ltd (ET) for the "Contract No: CV/2016/04 – Temporary Construction Waste Sorting Facilities (CWSF), 2017-2018, at Tseung Kwan O (TKO) Area 137" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of TKO CWSF in February 2019

Site Activities

As informed by the Contractor, the site activities in this reporting month were as below:

- Operation of CWSF's;
- Maintenance of CWSFs ;
- Disposal of sorted waste at designated landfills and public fill reception facilities
- Replacement of Combined Reception Exit Office (CREO) at TKO CWSF

Environmental Monitoring Progress

The summary of the monitoring activities in this monitoring month is listed below:

- 24-hour TSP Monitoring: 5 Occasions at 1 designated location
- 1-hour TSP Monitoring: 13 Occasions at 1 designated location
- Weekly-site inspection: 4 Occasions

Air Quality Monitoring

No exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in the reporting month.

Weekly Site Inspection

In general, performance on environmental mitigation measures implemented was found to be satisfactory during the weekly site inspections in this reporting month. The major findings observed during site inspections are presented in the Section 5.0.

Environmental Complaints, Notification of summons and successful prosecutions

No complaint, notification of summons or successful prosecutions with respect to environmental issues was received in this reporting month.

Future Key Issues

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Air quality impact due to site works;
- Maintain all drainage and desilting facilities properly;
- Remove the stagnant water or provide pesticide for the stagnant water in the permanent desilting chambers, if any;
- Sufficient drip trays for all oil drums / chemical containers;
- Implement all necessary preventive measures to avoid oil leakage. In the event an oil leakage happens, the Contractor should properly remove the leaked oil and handle the contaminated soil and all materials using for this cleaning works as chemical waste;
- Maintain good site practice and waste management to minimize environmental impacts at the site; and
- Follow-up improvements on waste management issues.



1.0 INTRODUCTION

Sang Hing Civil Contractors Co Ltd (Sang Hing) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) works for the "Contract No: CV/2016/04 – Temporary Construction Waste Sorting Facilities (CWSF), 2017-2018, at Tseung Kwan O (TKO) Area 137" (The Project).

The latest Environmental Permit (No.: EP-134/2002/M) was granted to the Project on 17 December 2018. The scale and scope of this project as stated in the EP include:

- Site clearance;
- Construction of a temporary storm water system;
- Stockpiling of 6 million m³ of public fill;
- Setting up two barging points: one at the TKO Basin and one at the Construction and Demolition Material Sorting Facility (C&DMSF) for transporting the stockpiled public fill by barges;
- Setting up a temporary barging point at the existing Explosives Off-loading Barging Point located in the south-eastern part of TKO Area 137 for the month of May 2004 to December 2004 for transporting the stockpiled public fill by barge;
- Construction and operation of a C&DMSF;
- Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin; and
- Remove the temporary fill bank.

Under the EP, construction and operation of the construction and demolition material sorting facility is within the scope. Therefore, the said activities in the temporary CWSF in TKO Area 137 are under the governance of the EP.

According to the updated EM&A Manual for "Contract CV/2004/13 – Temporary Construction Waste Sorting Facilities at Tseung Kwan O Area 137 and Tuen Mun Area 38" (the EM&A Manual), air quality monitoring (1-hr and 24-hr TSP) and site inspections are necessary to carry out until the completion of the contract month of the Project. The EM&A programme, or any part of it., will be terminated upon approval from the ER, IEC and EPD.

In accordance with the Section 25.40(1) of the Particular Specification of the Project, the baseline conditions as well as action and limit levels of the Project was established based on the baseline data collected by Fill Bank at TKO Area 137 from October 2004 to December 2004.

This report presents a summary of the environmental monitoring and inspection works carried out by the ET for the temporary CWSF at TKO Area 137 in February 2019.

2.0 PROJECT INFORMATION

2.1 Site Description

TKO CWSF is located at TKO Area 137 which is located at the southern end of Wan Po Road. Sang Hing shall comply with all control measures in accordance with the PS for providing the service within the TKO CWSF (Portion A, AA, B1, B2, B3 and B4 of the affected property).

2.2 Work Programme

Details of work programme are shown in Appendix E.

2.3 Project Organization and Management Structure

The organization chart is shown in Appendix A.



2.4 Contact Details of Key Personnel

The key personnel contact names and telephone numbers are shown in Table 2.1.

Organization Name of Key Staff Project Role		Tel. No.	Fax No.			
CEDD	CEDD Mr. P C Leung Engineer's Representative		2762 5514	2714 0113		
IEC (Ramboll)	F C Tsang	IEC	3465 2888	3465 2899		
Contractor (Sang Hing) Mr. Edwin		Contractors Manager	2403 1118	2403 1162		
ET (ETL)	Mr C. L. Lau	ET Leader	2946 7791	2695 3944		

Table 2.1	Contact Details of Key Personnel

3.0 WORK PROGRESS IN THIS REPORTING MONTH

As informed by the Contractor, the activities in the reporting month include:

- Operation of CWSF's;
- Maintenance of CWSFs ;
- Disposal of sorted waste at designated landfills and public fill reception facilities
- Replacement of Combined Reception Exit Office (CREO) at TKO CWSF

4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

TSP levels were monitored in the reporting month in accordance with the EM&A Manual. Table 4.4 shows the Action and Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

Table 4.1 summarizes the equipment used in the air quality monitoring programme. A copy of the calibration certificates for the HVS and calibrator are attached in Appendix B1.

Table 4.1 Air Qua	lity Monitoring Equipment
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Parameter	Model and Make
1-hr TSP and 24-hr TSP	Greasby GMWS-2310 High Volume Air Sampling System
HVS Calibration	Tisch Environmental TE-5025A High Volume Air Sampler Calibrator

4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

Table 4.2	Monitoring parameters,	duration, f	requency	of air c	uality	monitoring
	U 1 <i>'</i>					

Parameter	Duration	Frequency
24-hr TSP	24 hr	Once every six days
1-hr TSP	1 hr	Three times per day every six days

4.4 Monitoring Locations

The location for the air quality monitoring station TKO2 is provided in Table 4.3 and depicted in Figure 1.

Monitoring station	Location
TKO2	Combined Reception & Exit Office in Area B1



4.5 Monitoring Methodology

Instrumentation

High volume sampler, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets were employed for both 1-hour and 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Air was drawn through HVS fitted with a pre-conditioned and pre-weighted filter paper at a controlled rate. After sampling for 1 hour / 24 hours, the filter paper with retained particles was collected and returned to the laboratory for drying in a desiccators followed by accurate weighting. The laboratory was HOKLAS accredited or other internationally accredited laboratory. 1-hr TSP and 24-hr TSP levels were then calculated from the ratio of the mass of particulates retained on the filter paper to the total volume of air sampled. The balance was regularly calibrated against a certified standard.

Relevant data including temperature, pressure, weather condition and elapsed-time before the start and after the stop of the monitoring, identification and weight of the filter paper, and work activities of the site during the monitoring were also recorded.

Installation

The installation of HVS refer to the requirement stated in EM&A Manual.

Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS is as below:

- Prior to the commencement of dust sampling, the following specification of HVS should be used:
 - 0.6m³/min 1.7m³/min.) (20-60 SCFM) adjustable flow range;
 - equipped with a timing/control device with +/- 5 minutes accuracy for 24-hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406cm2 (63in²);
 - 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 horizontal position;
 - Easy to change the filter;
 - capable of operation continuously for 24-hr period.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling month of 1 hour or 24 hours. Information was recorded on the record sheet, which included the start and end time, elapsed-time meter reading for the start and stop. Initial flow rate, final flow rate, average flow rate, total volume, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recoded.
- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of 25°C <u>+</u> 3°C and the relative humidity (RH) <50% <u>+</u>5%.



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 All measurement procedures in Section 2.3 of the EM&A Manual were followed during the reporting month.

Maintenance & Calibration

- HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- Both HVS should be calibrated at bi-monthly intervals.

Wind Data Monitoring

Wind data (wind speed and wind direction) were directly extracted from Tseung Kwan O Station of Hong Kong Observatory. All wind data during this reporting month are shown in Appendix C.

4.6 Action and Limit Levels

Table 4.4 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.

Table 4.4 Action and Limit Levels for 24-hr TSP and	1-hr TSP
---	----------

Monitoring Location	24-hr TSP (μ g/m ³)		1-hr TSP (μg/m³)		
Monitoning Location	Action Level	Limit Level	Action Level	Limit Level	
TKO2	260	260	383	500	

4.7 Event-Action Plans

Please refer to Appendix D for details.

4.8 Results

Monitoring data of both 1-hr TSP and 24-hr TSP monitoring carried out in this reporting month are summarized in Appendix B2. Graphical presentation of 1-hr TSP and 24-hr TSP monitoring results for the reporting month is shown in Appendix B3. Wind data included wind speed and wind direction was extracted from Tseung Kwan O Station of Hong Kong Observatory during this reporting month and is presented in Appendix C.

No exceedance of Action and Limit Level of 1-hr TSP and 24-hr TSP monitoring results was recorded during the reporting month.

Besides the construction activities inside the Project site, other potential dust sources included the dump truck traffic, dumping and manual sorting of inert waste inside the Fill Bank of TKO Area 137.

5.0 ENVIRONMENTAL AUDIT

Weekly ET Site Inspections

Weekly site inspections were carried out by ET to monitor the timely implementation of proper environmental pollution control and mitigation measures for the Project. In this reporting month, four weekly site inspections were conducted (04, 11, 18 and 25 February 2019). The details of weekly site inspections are summarized in Table 5.1.



Table 5.1	able 5.1 Key Findings of Weekly ET Site Audits in this reporting month										
Date	Key Findings	Key Findings Action(s) Taken recommended by ET Contractor									
04 February No defective work or observation was recorded during the weekly ET site inspection. 2019											
11											
February 2019	No defective work or obser	vation was recorded dເ	uring the weekly ET site in	nspection.							
18	No defective work or obser	vation was recorded du	uring the weekly ET site in	nspection.							
February 2019											
25 February 2019	No defective work or obser	vation was recorded du	uring the weekly ET site in	nspection.							

6.0 Review of Environmental Monitoring Procedures

The monitoring works conducted by the ET were inspected regularly. The observations for the monitoring works were recorded and summarised as follows:

- The monitoring team recorded the observations around the monitoring stations within and outside of the construction site.
- The monitoring team recorded the temperature, air pressure and general weather condition on the monitoring day.

7.0 Assessment of Environmental Monitoring Results

All monitoring results were audited against the A/L levels and any exceedances would be validated.

The monitoring results in this reporting month were comparable with the established action and limit levels.

8.0 Advice on the Solid and Liquid Waste Management Status

As advised by the Contractor, there were disposal of sorted inert and non-inert waste in the reporting month. The actual amounts of different types of waste generated by the activities of the Project in the month are shown in Table 8.1.

		ig month
Waste Type	Actual Amount	Disposal Locations
Public fill collected (ton)	16,469.16	-
Sorted inert material (ton)	10,370.85	TKO Fill Bank
Sorted non-inert material (ton)	9,996.23	SENT Landfill
Recycling (Metal) ('000kg)	0	Recycling companies
C&D waste (e.g papar / cardboard packaging and plastic) (in tonne)	0	WENT Landfill
Chemical waste (kg / L)	0	Chemical Waste Treatment Centre
Hard Rock and Large Broken Concrete (tonne)	0	TKO Fill Bank

Table 8.1 Actual Amounts of Waste Generated in this reporting month

The Contractor should provide sufficient drip trays for all the oil drums/chemical containers. Besides, these drip trays should be covered by tarpaulin sheet to minimize rainfall accumulation.

The Contractor should use suitable containers with proper labels to store chemical wastes inside a designated chemical waste store in accordance with Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. The Contractor should also advise their workers of the proper procedures



in handling the chemical waste. All the trip tickets for chemical waste disposal were properly kept in the site office.

The Contractor should provide sufficient preventive measures during equipment maintenance works so as to avoid oil leakage on the ground. In the event of any oil leakage, the Contractor should clean up the polluted soil and handle all the materials using for this cleaning works as chemical waste.

9.0 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting month are summarized in Table 9.1.

Description	Permit	Valid	Month	Details
	No.	From	То	
Environmental Permit	EP- 134/2002/ M	17/12/18		 Site clearance Construction of a temporary storm water system Stockpiling of 6 million m3 of public fill Setting up two barging points for transporting the stockpiled public fill by barges Setting up a temporary barging point at the existing Explosive Off-loading Barging Point for the month of May 2004 to December 2004 for transporting the stockpiled public fill by barge Construction of operation of a construction and Demolition Material Sorting Facility (C&DMSF) Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin Remove the temporary fill bank
Effluent Discharge License	WT00027 622-2017	07/04/17	30/04/22	 Effluent, Surface run-off, and other wastewater discharges from the premises
Chemical Waste Producer	5213-839- S3993-01	18/01/17	End of Project	Spent Lubricating Oil
Billing Account for Disposal of Construction Waste	7026885	10/01/17	End of Project	•

 Table 9.1
 Summary of environmental licensing and permit status

10.0 ENVIRONMENTAL NON-CONFORMANCE

10.1 Summary of air quality

No Action and Limit level exceedance of 1-hour and 24-hour TSP monitoring was recorded in this reporting month.

10.2 Summary of Environmental Complaints

No complaint was received in this reporting month.

10.3 Summary of Notification of Summons and successful Prosecution

There was no notification of summons and successful prosecution respect to environmental issues registered in this reporting month.

11.0 IMPLEMENTATION STATUS



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11.1 Implementation Status of Environmental Mitigation Measures

An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix G. Most of the necessary mitigation measures were implemented properly. Any deficiencies were noted in the remarks of the schedule.

11.2 Implementation Status of Event and Action Plan

Since no exceedance of Action and Limit level of air quality monitoring results was recorded for this reporting month, no further action was required.

11.3 Implementation Status of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

No complaint, notification of summon and successful prosecution was received in this reporting period. A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 11.1 and further details of the complaint could be found in the Complaint Log (Appendix J).

Table 11.1	Summary	of Environmental Complaints and Prosecutions

Complain	ts logged	Summor	is served	Successful prosecution received			
February 2019	Cumulative	February 2019	Cumulative	February 2019	Cumulative		
0	0	0	0	0	0		

12.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Impact monitoring of air quality was carried out at a designated location in accordance with the EM&A Manual in this reporting period.

No Action and Limit level exceedance of 1-hour and 24-hr TSP monitoring was recorded in this reporting period.

No complaint, prosecutions and notifications of summons was received in this reporting period.

According to the ET weekly site inspections carried out in this reporting period, the Contractor generally implemented sufficient dust mitigation measures, including operation of the mist spraying systems, dampening of haul roads and stockpiling areas.

Recommendations

According to the environmental site inspections performed in the reporting period, the following recommendations were provided:

Air Quality

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Conduct road sweeping on the public road and the main haul roads outside and near the site egress by the road sweeper;
- Undertake water spraying on stockpiling area by water bowsers;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;
- Operate mist spraying systems and automatic water sprinklers in the temporary CWSF;
- Implement the dust mitigation measures for the construction activities;
- Designate proper haul roads to ensure effective water spraying; and



• Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

Construction Noise

• Conduct noisy activities at a farther location from the NSR.

Water Quality

- Maintain the drainage system, including the trapezoidal channels;
- Operate and maintain the treatment system for the site toilet; and
- Remove the stagnant water or provide pesticide for the stagnant water in the permanent desilting chambers, if any.

Chemical and Waste Management

- Remove waste materials from site regularly to avoid accumulation;
- Handle and store chemical wastes properly;
- Remove unwanted material in the existing stockpiles and avoid further dumping of such material;
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain good housekeeping at the workshop area;
- Ensure sufficient tarpaulin sheets are provided to cover drip trays;
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any, and
- Provide a proper chemical waste store.

Landscape and Visual

• Erect all the site hoardings/chaining fences in accordance with agreed design at proper location.

13.0 FUTURE KEY ISSUES

13.1 Work Programme for the Coming Month

As informed by the Contractor, the activities to be conducted by them in the next month included:

- Operation of Construction Waste Sorting Facilities (CWSFs);
- Maintenance of CWSFs;
- Disposal of sorted waste at designated landfills and public fill reception facilities.
- Replacement of Combined Reception Exit Office (CREO) at TKO CWSF

13.2 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

- Chemical and waste management;
- Treatment of runoff and wastewater prior to discharge;
- Dust generated from loading and unloading activities; and
- Dust generated from dump trucks traffic.

Mitigation measures to be required in the coming month:

Air Quality

- To prohibit any open burning on site;
- To provide adequate water spraying on haul roads and working platforms;
- To operate and maintain automatic wheel washing facilities properly;
- To dampen the fill material prior to unloading or movement;
- To provide road sweeping on all paved haul roads and the public roads outside site egress;
- To provide proper maintenance for equipment and vehicles on site;
- To ensure implementation of the dust mitigation measures for the construction activities, if any;
- To maintain proper operation of the mist spraying systems;



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- To ensure vehicle speed below 10 km/hr in the temporary CWSF;
- To investigate any other dust sources around the air sensitive receivers; and
- To follow up any exceedance, if any, caused by the temporary CWSF operation.

Noise

- To identify the noise sources inside and outside of the site;
- To follow up any exceedance caused by the temporary CWSF operation;
- To switch off equipment if not in use;
- To operate silent equipment; and
- To re-schedule the work activities in the event of valid noise exceedance.

Water Quality

- To operate and maintain the wastewater treatment facility for the site toilet;
- To provide covers for the drip trays to avoid stagnant water ponding due to rainfall;
- To ensure cleanliness of oil interceptor bypass tank and all the drainage channels;
- To maintain the existing silt trap to ensure sufficient treatment of wheel wash water frequently;
- To maintain the drainage system in the temporary CWSF; and
- To avoid formation of any stagnant water or provide insecticide to avoid mosquito breeding in the temporary CWSF

Chemical and Waste Management

- To remove waste from the site regularly;
- To properly store and handle chemical wastes on site;
- To implement trip ticket system for all the imported public fill and general refuse disposal;
- To provide and manage sufficiently sized drip trays for diesel drums or chemical containers;
- To maintain proper housekeeping at the workshop area;
- To provide all the preventive measures during equipment maintenance;
- To remove the oil stains in the event of leakage and handle all the materials using for this cleaning works as chemical waste; and
- To identify C&D material by packaging, labelling, storage, transportation and disposal in accordance with statutory regulations.

13.3 Monitoring Schedule for the Coming Month

The proposed EM&A program of the coming month is attached in Appendix I.

- END OF REPORT -



Appendix A

Organization Chart





Organization Chart for Environmental Management



Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipment



東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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Calibration Report of

		<u>High Volum</u>	e Air Sampler					
Manufacturer	:	Tisch TE-5009X	Date of Calib	ration	:	10 De	ecember 20)18
Serial No.	o. : 2185 (ET / EA / 003 / 24) Calibration Due Date : 09 February 2019							9
Method : Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Manual								
Results	:	Flow recorder reading (cfm)	48	43		42	32	29
		Qstd (Actual flow rate, m ³ /min)	1.75	1.56		1.42	1.10	0.90
		Pressure : 768.81 r	nm Hg	Temp. :		287	к	

Sampler 2185 Calibration Curve Site: Sorting TKO (TKO2)



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable* / unacceptable* for use.

Calibrated by :

LIAO, Yun Chao (Technician)

Checked by

LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -



東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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Calibration Report

of <u>High Volume Air Sampler</u>

Manufacturer	:	Tisch TE-5009X	Date of Calib	ration	:	08 Fe	bruary 201	9
Serial No.	:	2185 (ET/EA/003/24)	Calibration D	ue Date	:	<u>07 Ap</u>	oril 2019	
Method	:	Five-point calibration by using standard of Operations Manual	calibration kit	Tisch TE-8	502	5A refe	er to the	
Results	:	Flow recorder reading (cfm)	48	44		39	31	28
		Qstd (Actual flow rate, m ³ /min)	1.71	1.54		1.38	1.07	0.88
		Pressure : 768.81 mm H	ła	Temp. :		297	К	

Sampler 2185 Calibration Curve Site: Sorting TKO (TKO2)



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable* / unacceptable* for use.

Calibrated by :

TANG, Chung Hang (Envrionmental Officer)

Checked by

LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -

						1	REC	ALIBRATION
				A			D	UE DATE:
							Mar	rh 21 2019
			Receiption of the second se			l	8 W 8 C.4 B (ter til her dag hav da af
<u>nvir</u>	<u>o n m</u>	<u>ent</u>	al					
		7	0	\sim		00		
	Y	· tol					£	
	0e	UGU	CAUE (0p	Oan	evra	non	
			Calibration	/ Certificatio	on Informat	ion		
Cal. Date:	March 21.	2018	Rootsr	meter S/N:	438320	Ta:	293	°K
Operator	lim Tisch					Pa:	756.9	mm Hø
Calibration.			Calib	under C/N.	2/100		750.5	
Calibration	ivioaei #:	TE-5025A	Calit	brator S/N:	3400			
	<u> </u>	Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔP	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4200	3.2	2.00	
	2	3	4	1	1.0000	6.4	4.00	
	3	5	6	1	0.8950	7.9	5.00	
	4	7	8	1	0.8570	8.8	5.50	
	5	9	10	1	0.7070	12.7	8.00	
			C	Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	<u>)(Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-axi	is)	Va	(x-axis)	(y-axis)	
	1.0087	0.7103	1.423	33	0.9958	0.7012	0.8799	
	1.0044	1.0044	2.012	29	0.9915	0.9915	1.2443	
	1.0024	1.1200	2.250)5	0.9896	1.1057	1.3912	
	1.0012	1.1682	2.360)3	0.9884	1.1533	1.4591	
	0.9959	1.4087	2.846	57	0.9832	1.3907	1.7598	
	ACTO		2.041	.13	^		1.2/812	
	USID	D= r=	-0.030	1940	UA	v- r=	0.01079	
	LI			Coloulation	L			
	Vetd-		Pstd)(Tstd/Ta		13 Va-l)/Pa)	
	Ostd=	Vstd/ATime	/1300/1300/10	<u>''</u>	Oa=	Va/ATime	<i>,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			For subsequ	ent flow rat	te calculation	15:		
	Qstd=	1/m ((\	Pa <u>(Tstd</u> Pstd Ta))-b)	Qa=	1/m ((√ΔH	(Ta/Pa))-b)	
Г	Standard	Conditions	and a substantian and a substance of the substantian substantian substance of the substantian substantia					
Tstd	298.15	°K		Γ		RECAL	IBRATION	
Pstd	760	mm Hg			LIC EDA	mmonde	bud roadibusti-	n nor 1009
ALL:	N	(ey			US EPA reco	of Fodoral P	nual recalibratio	50 to 51
AP: rootsm	or manomet	er reading (i	(mm Hg)		40 CODE	ui reaerai K	Poforonce Marth	od for the
Ta: actual a	bsolute tem	perature (°K)	(11111 CLR)		Appendix t	ion of Sucr	neierence Wieth	Nottor in
Pa: actual b	arometric pr	ressure (mm	Hg)		Determinat	Atmosphe		
b: intercept			51		LUI6	- Aunosphe	e, 5.2.17, page :	
m: slope				-	an a			e vy za se official de la construction de la co

Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

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Appendix B2

Impact Air Quality Monitoring Results



Summary of 24-hr TSP Monitoring Results

Monitoring Station : TKO2

Sta	art	Fin	ish	Elapse	e Time	Compling	Flow Rate	e (m ³ /min.)	Avorago	Filter W	eight (g)	Conc	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	(μg/m ³)	(260µg/m ³ Exceedance	(260µg/m ³ Exceedance
03/02/2019	08:00	04/02/2019	08:00	18491.95	18515.95	24.00	1.0509	1.0509	1.0509	2.7035	2.8248	80	No	No
09/02/2019	08:00	10/02/2019	08:00	18518.95	18542.95	24.00	1.0787	1.0787	1.0787	2.5864	2.8381	162	No	No
15/02/2019	13:00	16/02/2019	13:00	18545.95	18569.95	24.00	1.0787	1.0787	1.0787	2.4828	2.7127	148	No	No
21/02/2019	08:00	22/02/2019	08:00	18572.95	18596.95	24.00	1.0787	1.0787	1.0787	2.6568	2.8974	155	No	No
27/02/2019	14:00	28/02/2019	14:00	18599.95	18623.95	24.00	1.1189	1.1189	1.1189	2.6478	2.8266	111	No	No



Summary of 1-hr TSP Monitoring Results

Monitoring Station :TKO2

Sta	art	Fin	ish	Elapse	e Time	Sampling Time (hrs)	Flow Rate	e (m ³ /min.)	Average (m ³ /min.)	Filter Weight (g)		Conc. (µg/m³)	Action Level (383µg/m ³ Exceedance	Limit Level (500µg/m ³ Exceedance
Date	Time	Date	Time	Initial	Final		Initial	Final		Initial Final				
01/02/2019	09:56	01/02/2019	10:56	18490.95	18491.95	1.00	1.0509	1.0509	1.0509	2.7286	2.7383	154	No	No
08/02/2019	10:44	08/02/2019	11:44	18515.95	18516.95	1.00	1.1189	1.1189	1.1189	2.7204	2.7317	168	No	No
08/02/2019	13:00	08/02/2019	14:00	18516.95	18517.95	1.00	1.1189	1.1189	1.1189	2.7033	2.7138	156	No	No
08/02/2019	14:17	08/02/2019	15:17	18517.95	18518.95	1.00	1.1189	1.1189	1.1189	2.7270	2.7365	142	No	No
11/02/2019	09:20	11/02/2019	10:20	18542.95	18543.95	1.00	1.1189	1.1189	1.1189	2.6475	2.6660	276	No	No
11/02/2019	10:25	11/02/2019	11:25	18543.95	18544.95	1.00	1.1189	1.1189	1.1189	2.6108	2.6285	264	No	No
13/02/2019	09:15	13/02/2019	10:15	18544.95	18545.95	1.00	1.0787	1.0787	1.0787	2.6744	2.6881	212	No	No
18/02/2019	09:47	18/02/2019	10:47	18569.95	18570.95	1.00	1.1189	1.1189	1.1189	2.7369	2.7518	222	No	No
18/02/2019	14:08	18/02/2019	15:08	18570.95	18571.95	1.00	1.1189	1.1189	1.1189	2.6888	2.7057	252	No	No
20/02/2019	10:45	20/02/2019	11:45	18571.95	18572.95	1.00	1.0787	1.0787	1.0787	2.7068	2.7253	286	No	No
22/02/2019	15:06	22/02/2019	16:06	18596.95	18597.95	1.00	1.1189	1.1189	1.1189	2.6429	2.6545	173	No	No
22/02/2019	16:10	22/02/2019	17:10	18597.95	18598.95	1.00	1.1189	1.1189	1.1189	2.6357	2.6468	165	No	No
25/02/2019	10:20	25/02/2019	11:20	18598.95	18599.95	1.00	1.1189	1.1189	1.1189	2.6320	2.6418	146	No	No



Appendix B3

Graphical Plots of Impact Air Quality Monitoring Data





1-hour TSP level at TKO2



24-hour TSP level at TKO2



Appendix C

Weather Condition

	Eu	ing Battinger	n nieceoi oi	ogical observe									
Dav	Mean Pressure (hPa)		Air Tempera	ture	Mean Dew Point	Mean Relative Humidity	Total Rainfall (mm)	Prevailing Wind Direction	Mean Wind Speed				
Day		Absolute Daily Max	Mean (deg.C)	Absolute Daily Min	(deg. C)	(%)		(degrees)	(km/h)				
		(deg. C)		(deg. C)			_						
1	***	19.9	17.6	15.8	11.7	69	0	60	7.5				
2	***	19.3	17.7	16.3	14.4	81	0	360	7.5				
3	***	25.8	20.9	18.2	18.3	85	0	70	2.9				
4	***	26.6	20.7	17.6	18.1	86	0	70	5				
5	***	22	19.3	17.2	16.8	85	0	20	5.9				
6	***	25.6	21.5	19.5	19.3	88	0	190	3.3				
7	***	25.8	21.7	18.8	19.7	89	0	190	3.5				
8	***	25.2	20.1	18.7	18.8	92	0	50	6.7				
9	***	19.4	18.4	17.7	17.1	92	1	10	8.1				
10	***	18	17.3	16.7	16	92	1	40	9.6				
11	***	19	17.3	16	15.1	87	0.5	40	6.2				
12	***	21.2	17.7	15.3	15.4	87	2	20	6				
13	***	25.4	19.5	16.1	17.1	87	0	70	3.5				
14	***	23	19.6	17.7	16.9	85	0.5	20	8.3				
15	***	20.8#	19	17.6#	17.2	90	0.5	360	5.3				
16	***	27	21.4	18	18.2	84	0	60	6.5				
17	***	18.9	17.8	17	16.1	90	0.5	40	11.5				
18	***	17.7	16.9	16.2	16.1	95	19.5	60	7.8				
19	***	22.9	19.4	17.5	18.5	95	24.5	10	3.6				
20	***	24.6	21.5	19.8	20.6	95	0	360	3.1				
21	***	21	20	19.3	19.7	98	0	360	3.6				
22	***	24.7	20.7	18.4	17.1	81	1	60	5.7				
23	***	19.2	17	14	15.1	89	11	60	8.9				
24	***	18.7	16	13.3	13.4	85	3	70	5				
25	***	18.4	16.9	15	14.6	87	0	20	4.2				
26	***	18.8	17.7	16.4	16.4	92	2	50	8.2				
27	***	21.7	19.4	17.4	17.6	89	0	60	4.1				
28	***	27.3	22.2	19.3	19.7	87	0	180	3.1				

Daily Extract of Meteorological Observations . February 2019 - Tseung Kwan O

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected



Appendix D

Event-Action Plans

		Contractor		 Rectify any unacceptable practise Amend working methods if appropriate 	 Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 		 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate.
LITY EXCEEDANCE		ER		1. Notify Contractor	 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures property implemented 		 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented
:VENT/ACTION PLAN FOR AIR QUAI	ACTION	IC(E)	ACTION LEVEL	 Check monitoring data submitted by the ET Check contractor's working method 	 Check monitoring data submitted by the ET Leader Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	LIMIT LEVEL	 Check monitoring data submitted by the ET Leader Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures
		ET Leader		 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, IC(E) and Contractor Repeat measurement to confirm finding Increase monitoring frequency to daily 	 Identify source, investigate the causes of exceedance and propose remedial measures Inform IC(E) and Contractor Repeat measurements to confirm finding Increase monitoring frequency to daily Increase monitoring frequency to daily Discuss with IC(E) and Contractor on remedial actions If exceedance continues, arrange meeting with IC(E) and ER. If exceedance stops, cease additional monitoring 		 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm finding Reseas the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results
EVENT		1		1. Exceedance for one sample	2. Exceedance for two or more consecutive samples		1. Exceedance for one sample

EVENT			EVENT/ACTION PLAN FOR AIR QUA	ПТΥ	EXCEEDANCE			
			ACTION					-
		ET Leader	IC(E)		ER		Contractor	1
2. Exceedance	÷	Identify source, investigate the causes	1. Discuss amongst ER, ET and Contractor on	-	Confirm receipt of notification	*	Take immediate action to	_
for two or		of exceedance and propose remedial	the potential remedial actions	U	of failure in writing		avoid further exceedances	<u></u>
more		measures	2. Review Contractor's remedial actions	ۍ بې	Votify Contractor	r,	Submit proposals for remedial	
consecutive	2.	Notify IC(E), ER, EPD and Contractor	whenever necessary to assure their		n consultation with the IC(E).		actions to IC(E) within 3	
samples	1	Repeat measurement to confirm	effectiveness and advise the ER accordingly	•0	igree with the Contractor on		working days of notification	
		finding	Supervise the implementation of remedial	م ـب	he remedial measures to be	က်	Implement the agreed	
	4	Increase monitoring frequency to daily	measures		mplemented		proposals	
	<u>ن</u>	Carry out analysis of contractor's		4. I	Ensure remedial measures	4	Resubmit proposals if	-
		working procedures to determine		.0	are properly implemented		problem still not under control	
		possible mitigation to be implemented		ۍ. ۱	f exceedances continues,	ທ່	Stop the relevant activity of	
	ö.	Arrange meeting with IC(E) and ER to		Ĵ	consider what portion of the		works as determined by the	
		discuss the remedial actions to be			vork is responsible and		ER until the exceedance is	
		taken			nstruct the Contractor to stop		abated	
	~	Assess effectiveness of Contractor's			hat portion of work until the		4	
		remedial actions and keep IC(E), EPD	*	Ť	exceedance is abated			
		and ER informed of the results						
	യ്	If exceedance stops, cease additional						14 7 547
		monitoring						٣٦

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Appendix E

Works Programme

CON TEM SOR	TRACT NO. CV/2016/04 PORARY CONSTRUCTION WASTE TING FACILITIES, 2017-2018				
ID	Task Name	Duration	Start	Finish	

Three-Month Rolling Programme (22.01.2019)

	T 1 N		01 1	F ² 2 4	
טו	lask name	Duration	Start	Finish	Qtr 1, 2
1	1 - 44 - m - f A m 4 - m	1 401		E=: 00/10/16	Dec Jan Peb
1	Letter of Acceptance	i uay	FII 09/12/10	FII 09/12/10	
2	Starting Date	1 day	Fri 23/12/16	Fri 23/12/16	
3	Date for commencement of Operation	1 day	Wed 28/12/16	Wed 28/12/16	
4					
5	Master Programme of the Works	820 days	Fri 23/12/16	Fri 22/03/19	
6					
7	Possession of Site	1 dav	Wod 28/12/16	Wod 28/12/16	
		1 uay	Wed 20/12/10	Wed 20/12/10	
0	Politions A, AA, B I, B2, B3, B4, C, D I & D2	i day	vveu 28/12/16	wed 28/12/16	
9	Handed over of Portion AA	1 day	Fri 23/06/17	Fri 23/06/17	
10					
11	A. Preliminary	815 days	Wed 28/12/16	Fri 22/03/19	
12	1. Setting out of works	1 dav	Wed 28/12/16	Wed 28/12/16	
13	2 Engineer's Site Accommodation	815 dave	Wed 28/12/16	Fri 22/03/19	
14	2.1. Bringing & Secondary Site Offices	915 days	Wed 20/12/16	Eri 22/02/10	
14	2.1 Principal & Secondary Sile Onices	orouays	Weu 20/12/10	FII 22/03/19	
15	a. Laking over	1 day	Wed 28/12/16	Wed 28/12/16	
16	b. Servicing	815 days	Wed 28/12/16	Fri 22/03/19	
17	c. Handover	1 day	Wed 20/03/19	Wed 20/03/19	
18	3. Contractor's Site Accommodation	815 days	Wed 28/12/16	Fri 22/03/19	
19	3.1 Erection / Take over	1 dav	Wed 28/12/16	Wed 28/12/16	
20	3.2 Servicing & Maintenance	815 days	Wed 28/12/16	Eri 22/03/19	
20	3.3 Removal & Reinstatement of the sites	30 days	Thu 21/02/10	Eri 22/03/10	
21	ס.ט וופוווטימו ע וופוווטוונ טו נווב שונש	Juays	110 21/02/19	111 22/03/19	
22		64E -		F.: 00/00//	
23	B. The works and Operation at TKO Area 137 & TM Area 38	815 days	Wed 28/12/16	Fri 22/03/19	
24	1. Carrying out environmental mitigation & monitoring measures	815 days	Wed 28/12/16	Fri 22/03/19	
25	2. Disposal of sorted waste at designated landfills & public fill reception	815 days	Wed 28/12/16	Fri 22/03/19	
26					
27	C. Section 1 of works at Portions A. AA. B1.B2. B3. B4 of the site	815 days	Wed 28/12/16	Fri 22/03/19	
28	1 Construction Waste Sorting Facilities including SCDP System	815 days	Wed 28/12/16	Fri 22/03/10	
20	1 1 Taking over	1 dov	Wed 28/12/10	Wed 29/10/19	
29		i day	vveu 20/12/10	vveu 20/12/16	
30	1.2 Handing over	1 day	Fri 22/03/19	Fri 22/03/19	
31	2. Associated infrastructure, equipment and plant	815 days	Wed 28/12/16	Fri 22/03/19	
32	2.1 Taking over	1 day	Wed 28/12/16	Wed 28/12/16	
33	2.2 Operation and maintenance	815 days	Wed 28/12/16	Fri 22/03/19	
34	2.3 Handing over	1 dav	Fri 22/03/19	Fri 22/03/19	
35	3 Temporary toilet	815 days	Wed 28/12/16	Fri 22/03/19	
36	3.1 Taking over	1 day	Wed 28/12/16	Wed 28/12/16	
27	2.2. Operation and maintenance	915 dovo	Wed 20/12/10	Eri 22/02/10	
37		orbuays	Vieu 20/12/10	FII 22/03/19	
30			FII 22/03/19	FII 22/03/19	
39	4. Wheel washing facilities	815 days	Wed 28/12/16	Fri 22/03/19	
40	4.1 Taking over	1 day	Wed 28/12/16	Wed 28/12/16	
41	4.2 Operation and maintenance	815 days	Wed 28/12/16	Fri 22/03/19	
42	4.3 Handing over	1 day	Fri 22/03/19	Fri 22/03/19	
43					
44	5. Compensation Event CE.	736 days	Fri 03/03/17	Fri 08/03/19	
45	CE. No.1 (Enhancement of CWSF)	50 davs	Fri 03/03/17	Fri 21/04/17	
46	CE, No.2 (Modification of New Access Opening)	14 days	Mon 06/03/17	Sun 19/03/17	
47	CE. No 3 (Change of Opening Hour for TKO Affected Property and	21 days	Mon 03/04/17	Sun 23/04/17	
19	CE. No.4 (Poplacement of Weightbridge, No.4 and the associated	55 days	Sup 02/07/17	Eri 25/09/17	
40	CE. No.4 (Replacement of Sentia Tank and esseciated Farth works	01 days	Map 21/09/17	FII 23/00/17	
49	CE. No.5 (Replacement of Septic Tank and associated Earth works	ZTdays	IVION 21/06/17	Sun 10/09/17	
50	CE. No.6 (Replacement of Wheel Washing Machine No.4 and	7 days	Wed 11/04/18	Tue 17/04/18	
51	CE. No.7 (Replacement of Vibrating Grizzly Feeder and 37.5kW	14 days	Mon 16/04/18	Sun 29/04/18	
52	CE. No.8 (Replacement of CCTV Display System at TM CWSF)	21 days	Mon 24/12/18	Sun 13/01/19	
53	CE. No.12 (Replacement of Toilet Facilities & Enhancement of	30 days	Mon 24/12/18	Tue 22/01/19	
54	CE. No.16 (Replacement of Weighbridge Nos. 2 & 3 and CREO in	75 days	Mon 24/12/18	Fri 08/03/19	
55	CE. No.18 (Removal of Fallen Trees and Debris in Tai Po)	28 days	Fri 05/10/18	Thu 01/11/18	
56	CF. No 19 (Replacement of SCDR System in TKO CWSE and TM	45 days	Mon 24/12/18	Wed 06/02/10	
57		io duys		1.04 00/02/10	
58	D. Section 2 of works at Portions C. D1 and D2 of the site	815 days	Wed 29/12/16	Eri 22/02/40	
50 E0	Construction Waste Serting Excilition including CODP System	915 days	Wod 20/12/10	Eri 22/03/19	
- 59	1.1 Taking over	o io uays	Wed 20/12/10	Mod 29/40/40	
00		I day	Eri 20/02/40	Er: 20/02/42	
61	I.2 Handing over	1 day	Fri 22/03/19	Fri 22/03/19	
62	2. Associated infrastructure, equipment and plant	815 days	Wed 28/12/16	Fri 22/03/19	
63	2.1 Taking over	1 day	Wed 28/12/16	Wed 28/12/16	
64	2.2 Operation and maintenance	815 days	Wed 28/12/16	Fri 22/03/19	
65	2.3 Handing over	1 day	Fri 22/03/19	Fri 22/03/19	
66					
67	E. Checking of sorting plants and facilities	810 davs	Wed 28/12/16	Sun 17/03/19	
68	December 2016	3 davs	Wed 28/12/16	Fri 30/12/16	
69	March 2017	3 dave	Fri 31/03/17	Sun 02/04/17	
70	June 2017	3 dave	Sup 02/07/17		
70	Sentember 2017	3 days	Tue 03/10/17	Thu 05/10/17	
70	December 2017	o uays	The 03/10/17	File 03/10/17	
12		o days	0 -4 07/01/18	Sat 00/01/18	
/3		3 days	Sat 07/04/18	IVION U9/04/18	
74	June 2018	3 days	Mon 09/07/18	Wed 11/07/18	
75	September 2018	3 days	Wed 10/10/18	Fri 12/10/18	<u>→</u>
76	December 2018	3 days	Fri 11/01/19	Sun 13/01/19	
77	March 2019	3 days	Fri 15/03/19	Sun 17/03/19	
				-	
Ihree	Page 1 of 1	lask		Split	Milestone Milest
Proie	ct: Contract No. CV/2016/04				
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	SANG HING CIVIL CONTRACTORS CO. LTE).
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Appendix F

Weekly ET's Site Inspection Record

			Signature:
Ę	Contractor / Sub-Contactor	CEDD	Inspected by
		: (High / Moderate / Low	Humidity
		7. 22 :	Temperature
		: Calm / Light / Breeze / Strong	Wind
	zle / Rain / Storm / Hazy	: Sunny / Fine / Cloudy / Overcast / Driz	Weather
		: /0:00	Time
		: 04 February 2018	Inspection Date
		struction Waste Sorting Facilities, 2017-20	Temporary Const
東業簽数溯試驗國有限公司 ETS-TESTCONSULT LIMITED		No.: CV/2016/04	CEDD Contract N



Page 1 of 6



Ugitive Dust Emission Outifier zone of all least norme surves shall be provided to prevent dust nuisance. A buffer zone of all least norme surves shall be provided to maintice the fugitive dust emissions. All vehicles shall be provided and used to dampen materials. Regular cleaning and watering the site shall be provided to maintice the fugitive dust emissions. All vehicles shall be provided and used to armying area used for moving materials. Any vehicles with open load carrying area used for moving materials which has the potential to create dust shall not be loaded to a level higher than the side and tall beards, and since the fugitive dust emissions. All vehicles shall be restrict to a maximum speed of 10 km per hour. Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly futh and the signated site main haul road shall be pareted or regular watering: The designated site main haul road shall be pareted or regular watering: Fequent watering the shall be advected by materials from its body and wheels before leaving the fill bank. All plant and equipment obuid be well maintained e.g. without black smoke emission. Open burning sould be proholded by potend by protone by CEDD. Frant stope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or spraye water and which shall the adjusted surface shall be covered by CEDD. Frant stope surfaces at a consplucture weany dusty materials is maintained anop and a		Environmental Checklist
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		Noisy equipment and mobile plant shall always be site away from NSRs.



Temporary Construction Waste Sorting Facilities, 2017-2018 - TKO CWSF

	Environmental Checklist	Imple	mentation tages*	Remark
Wa	ter Quality			
8	Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	ح		
•	The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	2		
•	Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.	~		
8	Manholes should be covered and sealed.	~		
8	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	<		
•	A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	۲		
8	A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	ح		
	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	~		
-	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	V		
	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	۷		
æ	Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	~		
-	A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	ح		
	The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	~		
•	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	~		
•	Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.	~		
	Oil interceptor shall be provided at work shop.	~		
•	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	~		
	The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	~		
-	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	~		
	Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	<		
8	Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	<		
	The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	<		
9	Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	~		
•	A waste collection vessel shall be deployed to remove floating debris.	7		

Page 3 of 5



	Environmental Checklist	Implementation Stages* Yes No N/A	Remark
La	ndscape and Visual		
-	The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	~	
	The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	~	
	Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	~	
•	The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	ν	
õ	her Environmental Factors	<u></u>	nin o Second Second Second Second
	C&D waste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	V	
	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	~	
a	Any unused materials or those with remaining functional capacity should be recycled and stored properly.	~	
	All generators, fuel and oil storage are within bundle areas.	~	
	Oil leakage from machinery, vehicle and plant is prevented.	~	
•	The Environmental Permit should be displaced conspicuously on site.	~	
	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	~	
	To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	~	

Page 5 of 5

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	Checked by	
	Frankie Tang	Name
:	ET Representative	Title
/	(Jer	Signature
	04 February 2019	Date

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Summary of the Weekly Site Inspection:

Details of defective works or observations Proposed Follow Up Action Photo Ref. Further Action Target 0 0		Item	
Proposed Follow Up Action 		Details of defective works or observations	
Photo Ref. Further Action Target Required Completion (Yes/No) Date 	 	Proposed Follow Up Action	
Further Action Required (Yes/No) 	l	Photo Ref.	
Target Completion Date	I	Further Action Required (Yes/No)	
	l	Target Completion Date	

Remark

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CEDD Contract No.: CV/2016/04 Temporary Construction Waste Sorting Facilities, 2017-2018 - TKO CWSF

● 東業德勤測試顧問有限公司 ■ ETS-TESTCONSULT LTD:

Title	Name:	Signature:	Inspected by	Humidity	Temperature	Wind	Weather	Time	Inspection Date
In / pr	T.X.DA CETA		CEDD	: High / Moderate / Low	2ª JU ::	: Calm / Light / Breeze / Strong	: Sunny / Fine / Cloudy / Overcast / Drizzl	$(\vartheta : \iota^{\circ} \vartheta$: 11/02/2019
E·0	Lang Cha		Contractor / Sub-Contactor				e / Rain / Storm / Hazy		
-1	Chow Cha	MUL	EŢ						

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Dane 1 of 6

Temporary Construction Waste Sorting Facilities, 2017-2018 - TKO CWSF

東業儀藝道試驗問有限公司 ETS-TESTCONSULT LIMITED

CEDD Contract No.: CV/2016/04

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD:

	Environmental Checklist	Implen Sta	nentatio	2 ž	Remark
Fu	gitive Dust Emission				
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	<			
8	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	7			
	Water sprays shall be provided and used to dampen materials.	~			
-	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	~			ويونونون مي والدونون ما ويونونون ما ما ويونون ما ويونونون مي الما ويونونونونونون مي ويونونونونونونونونونونون
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	~			
	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	<			
e	The designated site main haul road shall be paved or regular watering.	~			
•	Frequent watering of work site shall be at least three times per day.	7			
•	Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	۷			
	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	. ~			
*	All plant and equipment should be well maintained e.g. without black smoke emission.	<			
	Open burning should be prohibited.	<			
a	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	<			
•	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	~			
	When sorting material is transfer by sorting plant, the conveyors shall be enclosed on top and 2 sides.	<			
P	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	V			
-	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	~			
	Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non- road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).	~			
No	ise Impact				
	The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	~			
•	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	~			
•	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	~			
•	Air compressors and hand held breakers should have noise labels.	<			
•	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	~			
•	Noisy equipment and mobile plant shall always be site away from NSRs.	~			

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

	Environmental Checklist	Imple	ementation	Remark
		Yes	No N/A	
Wa	ter Quality			
•	Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	~		
•	The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	~		
•	Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.	~		
•	Manholes should be covered and sealed.	~		
•	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	~		
•	A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	~		
•	A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	~		
•	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	~		
	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	γ		
•	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	7		
8	Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	~		
•	A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	V		
	The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	7		-
•	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	~		
	Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.	V		
	Oil interceptor shall be provided at work shop.	~		
-	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	V		
	The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	2		
•	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	7		
	Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	7		
	Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	~		
	The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	~		
	Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	۷		
в	A waste collection vessel shall be deployed to remove floating debris.	7		



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	Environmental Checklist	St Inde	
La	ndscape and Visual	į	
	The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	~	
	The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	<	
	Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	<	
	The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	<	
õ	her Environmental Factors		
	C&D waste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	~	
	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	~	
α	Any unused materials or those with remaining functional capacity should be recycled and stored properly.	~	
ü	All generators, fuel and oil storage are within bundle areas.	<	
8	Oil leakage from machinery, vehicle and plant is prevented.	<	
	The Environmental Permit should be displaced conspicuously on site.	~	
	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	<	
	To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	<	

Page 5 of 5

Checked by	
⁻ rankie Tang	Vame
ET Representative	Title
e later	Signature
11 February 2019	Date

Summary	
of the	
Weekly	
/ Site In	
nspectio	
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東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

 1	Item
	Details of defective works or observations
1	Proposed Follow Up Action
 	Photo Ref.
1	Further Action Required (Yes/No)
1	Target Completion Date

Remark

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CEDD Contract No.: CV/2016/04

Name: T.X. TA INT. KILLY FUND	Signature:	Inspected by CEDD Contractor / Sub-Contactor	
Kitty Find	A. Mor	Contractor / Sub-Contactor ET	

CEDD Contract I Temporary Cons	No.: CV/2016/04 truction Waste Sorting Facilities, 2017-2018 - TKO CWSF
Inspection Date	: 18/02/2019
Time	
Weather	: Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	: Calm / Light / Breeze / Strong
Temperature	
Humidity	: High / Moderate / Low

Pane 1 of 6

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD:

Temporary Construction Waste Sorting Facilities, 2017-2018 - TKO CWSF

	Environmental Checklist	Implen Sta	ıentat ıges*	ion	Remark
		Yes	No No	Å	
Т	igitive Dust Emission				
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	<			
	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	~			
•	Water sprays shall be provided and used to dampen materials.	<			
	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	~			
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	~			
a	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	<			
	The designated site main haul road shall be paved or regular watering.	<			
	Frequent watering of work site shall be at least three times per day.	<			
•	Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	ح			
•	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	\checkmark			
•	All plant and equipment should be well maintained e.g. without black smoke emission.	~			
•	Open burning should be prohibited.	~			
-	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	~			
	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	~			
	When sorting material is transfer by sorting plant, the conveyors shall be enclosed on top and 2 sides.	~			
u	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	\checkmark			
	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	~			
•	Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non- road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).	<			
Nc	vise Impact				
٥	The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	~			
Ø	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	~			
	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	~			
	Air compressors and hand held breakers should have noise labels.	<			
•	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	<			
•	Noisy equipment and mobile plant shall always be site away from NSRs.	~			

Page 2 of 5

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD:

	Environmental Checklist	Imple	mentation I	Remark
Wa	er Quality	Yes	No N/A	
•	Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	~		
	The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	<		
-	Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.	~		
•	Manholes should be covered and sealed.	~		
•	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	~		
8	A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	~		
	A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	<		
	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	~		
a	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	Z		
-	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	~		
•	Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	2		
	A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	V		
•	The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	V		
	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	V		
	Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.	V		
8	Cil interceptor shall be provided at work shop.	V		
	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	V		
-	The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	Ą		
	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	γ		
	Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	~		
=	Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	~		
-	The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	V		
	Existing slit curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the slit curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The slit curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	~		
u	A waste collection vessel shall be deployed to remove floating debris.	~		

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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	the practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the environment.	vironmental Permit should be displaced conspicuously on site.	age from machinery, vehicle and plant is prevented.	erators, fuel and oil storage are within bundle areas.	used materials or those with remaining functional capacity should be recycled and stored properly.	d stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	aste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfi osal.	vironmental Factors	rging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact fror	• of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green once completed.	ximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	sign of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straigit slopes should be avoided.	be and Visual	Environmental Checklist	
	~	~	<	<	2	~	2		~	۷	~	<		Imple S Yes	
														mentation tages* No N/A	
-														- Remark	

Page 5 of 5

	Checked by	
	Frankie Tang	Name
	ET Representative	Title
1		Signature
	18 February 2019	Date

Summary of the Weekly Site Inspection:

	Item
	Details of defective works or observations
	Proposed Follow Up Action
	Photo Ref.
1	Further Action Required (Yes/No)
	Target Completion Date

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Remark

CEDD Contract No.: CV/2016/04 Temporary Construction Waste Sorting Facilities, 2017-2018 - TKO CWSF

東莱德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

Title	Name:	Signature:	Inspected by	Humidity	Temperature	Wind	Weather	Time	Inspection Date
I work	[- X DA LosTA		CEDD	High / Moderate /	: 20°C	: Calm / Ligh / Breeze / Strong	: Sunny / Fine / Goudy / Overcast / Drizz	: 15:00	= 25/2/19
C o	Kinny Chan		Contractor / Sub-Contactor				zle / Rain / Storm / Hazy		
E,T	Heck the Man	Hale	ц						

Temporary Construction Waste Sorting Facilities, 2017-2018 - TKO CWSF

東蘇德國巡試廠間有限公司ETS-TESTCONSULT LIMITED

CEDD Contract No.: CV/2016/04

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		Implementation	Remark
	Environmental Checklist	Stages* Yes No N/A	
Т	ugitive Dust Emission		
	Dust control / mitigation measures shall be provided to prevent dust nuisance.	V	
	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	7	
300	Water sprays shall be provided and used to dampen materials,	~	
	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	~	
	All vehicles shall be restrict to a maximum speed of 10 km per hour.	~	
(j u)	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	~	
	The designated site main haul road shall be paved or regular watering.	7	
•	Frequent watering of work site shall be at least three times per day.		
	Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	7	
	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	~	
	All plant and equipment should be well maintained e.g. without black smoke emission.	V	
	Open burning should be prohibited.	7	
	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	~	
	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	~	
	When sorting material is transfer by sorting plant, the conveyors shall be enclosed on top and 2 sides,	~	
	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	<	
	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	V	
•	Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non- road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).	~	
Z	oise Impact		
	The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	~	
	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works,	~	
	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	~	
•	Air compressors and hand held breakers should have noise labels.	~	
	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	~	
•	Noisy equipment and mobile plant shall always be site away from NSRs.	~	



	Environmental Checklist	Imple S Yes	tages No	ation N/A	Remark
Ň	ater Quality		西方に		
	Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms,	~			
•	The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	<			
	Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.	4			
•	Manholes should be covered and sealed.	2			
•	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	~			
	A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	2			
•	A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	2			
•	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	~			
()	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	2			
8 4 3	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	7			
-	Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	~			
	A wheel washing bay shall be provided at the site exit and wash-water shall have sand and sitt settled out or removed before being discharged into storm drains.	~			
•	The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	2			
	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	~			
	Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.	~			
	Oil interceptor shall be provided at work shop.	2			
:0)	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water,	2			
	The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	V			
	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	~			
•	Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	2			
2.44	Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	V			
8 4 6	The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities:	4			
(#)	Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	4			
•	A waste collection vessel shall be deployed to remove floating debris,	2			



				-
	Environmental Checklist	mpler St	nenta ages*	Ition
1		Yes	No I	NA
<u> </u>	andscape and Visual			
1	The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	<		
i li li	The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	<	_	
	Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	<		
	The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	<		
	Other Environmental Factors	1020		
	C&D waste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	<		
<u> </u>	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	4		
	Any unused materials or those with remaining functional capacity should be recycled and stored properly.	2	_	
-	All generators, fuel and oil storage are within bundle areas.	<		
	Oil leakage from machinery, vehicle and plant is prevented.	<	_	
	The Environmental Permit should be displaced conspicuously on site.	<	_	
	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	2		
	To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	<		

Remark CEDD Contract No.: CV/2016/04 ltem Temporary Construction Waste Sorting Facilities, 2017-2018 - TKO CWSF Checked by ł I Details of defective works or observations Name Frankie Tang 1 Summary of the Weekly Site Inspection: Title ET Representative Proposed Follow Up Action 1 Signature Photo Ref. 1 東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD. Date Further Action Required (Yes/No) 25 February 2019 I Target Completion Date I

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Appendix G

Implementation Schedule of Mitigation Measures



Contract No. CV/2016/04 - Temporary Construction Waste Sorting Facilities, 2017-2018 TKO CWSF

Environmental Mitigation Implementation Schedule

		Location	Implementation Status			
	Environmental Protection Measures		Implemente	Partially	Not	Not
			d	implemented	implemented	Applicable
Ai	r Quality					
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas	\checkmark			
•	A buffer zone of at least 100m shall be maintained betw een the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allow ed.	Northern Site Boundary	\checkmark			
•	Water sprays shall be provided and used to dampen materials.	All areas	\checkmark			
•	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	All areas	\checkmark			
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	All areas				
•	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	Site Egress	\checkmark			
•	The designated site main haul rout shall be paved or regular watering.	All haul roads	\checkmark			
•	Frequent watering of work site shall be at least three times per day.	All areas				
•	Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site.	Site Egress				
•	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	Site Egress				
•	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	All areas				
•	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, follow ed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	All areas	\checkmark			
•	When sorting material is transfer by sorting plant, the conveyors shall be enclosed on top and 2 sides	C&DMSF				
•	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	C&DMFS				
•	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance betw een the belt conveyor and the material landing point is maintained at no more than 1m.	C&DMFS	\checkmark			
•	All plant and equipment should be w ell maintained e.g. w ithout black smoke emission.	All areas	\checkmark			
•	Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).	All areas	\checkmark			
No	ise Impact					
•	Approved method of w orking, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	All areas	\checkmark			
•	Only well maintained plant should be operated on-site and plant should be serviced regularly during the site works.	All areas				
•	Pow ered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	All areas				
•	Air compressors and hand held breakers should have noise labels.	All areas				



Contract No. CV/2016/04 - Temporary Construction Waste Sorting Facilities, 2017-2018

TKO CWSF

•	Machines and plants that may be in intermittent use should be shut dow n betw een w ork months or should be throttled dow n to a minimum.	All areas	\checkmark		
	Noisy equipment and mobile plant shall alw ays be site aw ay from NSRs.	All areas	\checkmark		

	Location	Implementat	Implementation Status					
Environmental Protection Measures		Implemente d	Partially implemented	Not implemente d	Not Applicable			
Water Quality								
Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain st	orms. All areas							
 The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. 	All areas	\checkmark						
 Temporary intercepting drains should be used at the stockpiling area to divert polluted stormw ater to the interce Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormw ater to the intercepting of 	nannels. All areas	\checkmark						
 Manholes should be covered and sealed. 	All areas	\checkmark						
Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	All areas	\checkmark						
A buffer distance of at least 100m shall be maintained betw een the boundary of the public fill stockpiling area and t	ne sea front. All areas	\checkmark						
• A buffer distance of at least 20m shall be maintained betw een the boundary of the C&DMSF and the seafront.	All areas	\checkmark						
The stormw ater intercepting system shall be effective to collect of runoff and remove suspended solids before dis	charge. All areas							
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with imperm sprayed with water or protected by other method approved by CEDD. 	eable sheet or All areas							
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, follow ed by vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved 	hydroseeding, All areas by CEDD.							
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be main deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rains that these facilities are functioning properly at all times. 	ained, and the All areas torm to ensure	\checkmark						
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or r being discharged into storm drains.	emoved before Wheel Washing Bay							
 The section of construction road between wheel washing bay and the public road shall be paved with concr materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains 	ete, bituminous Wheel Washing Bay	\checkmark						
Sew age from toilets shall be discharged in to a foul sew er, or chemical toilets shall be provided. The chemical toilet be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	s (if use) shall All areas	\checkmark						
 Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas. 	Car Parking Area	s √						
 Oil interceptor shall be provided at w ork shop. 	Work Shop							
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	All areas				\checkmark			
The barges shall be in right size such that adequate clearance in maintained betw een the vessels and the seabed the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller w ash.	at all states of Barge Handling Area (BHA)				\checkmark			
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prev material during transport. 	ent leakage of Barge Handling Area (BHA)				\checkmark			
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the transfer. 	sea during the Barge Handling Area (BHA)							



Contract No. CV/2016/04 - Temporary Construction Waste Sorting Facilities, 2017-2018 TKO CWSF

	Location	Implementation Status					
Environmental Protection Measures		Implemente d	Partially implemented	Not implemente d	Not Applicable		
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 	Barge Handling Area (BHA)				\checkmark		
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	Barge Handling Area (BHA)				\checkmark		
Existing silt curtain at the outw ard side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service w hen there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	Barge Handling Area (BHA)						
 A waste collection vessel shall be deployed to remove floating debris. 	Barge Handling Area (BHA)				\checkmark		
Landscape and Visual							
 Construction of lighting to avoid spillage and glare 	All areas	\checkmark					
 Hydro-seeding 	All areas	\checkmark					
 Hoarding erection 	Completed slopes	\checkmark					
 Damage to surrounding area avoided 	Site boundary	\checkmark					
Other Environmental Factors							
 C&D w aste sorted from mixed C&D material shall be transfer to SENT landfill for disposal. 	All areas	\checkmark					
 Plan and stock construction materials carefully to minimise generation of waste. 	All areas	\checkmark					
 Any unused materials or those with remaining functional capacity should be recycled. 	All areas	\checkmark					
 All generators, fuel and oil storage are within bundled areas. 	All areas	\checkmark					
 Oil leakage from machinery, vehicle and plant is prevented. 	All areas	\checkmark					
 The Environmental Permit should be displaced conspicuously on site. 	Site Egress	\checkmark					
 Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. 	All areas	\checkmark					
 To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this w aste from other general refuse generated by the w orkforce. 	All areas	\checkmark					
 Provide rubbish skips at all w ork areas 	All areas	\checkmark					



Appendix H

Site General Layout plan

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	POINT	CO-ORD	INATES		
	1	EAST [NGS(m) 846210.074	NORTH   NGS ( m) 814417 766		
	2	846227.924	814373.602		
	3	846294.417	814258.686		
	4	846292.593	814251.854 814226_051		
	6	846242.285	814206.922		
	7	846260.695	814170.209		U
	8	846298.127	814113.516 814098.291		N
	10	846258.767	814081.761		
	11	846446.051	814000.000		
	12	846492.982	813904.735		
814500N	13	846284.397	813795.696		
	15	846152.649	814026.916	<b>1</b>	
	16	846248.340	814093.085		
	18	846220.731	814227.581		
	19	846246.142	814242.287		
	20	846248.644 846267.029	814237.964		
	22	846273.871	814274.227		
	23	846195.614	814409.475		
	24 25	845984.885	815365.976		
	26	845992.295	815271.503		
	31	845946.153	815228.907		
	32	845939.801	815177.851		
	34	845932.655	815161.317		
	35	845931.499	815155.241		
	36	845902.187	815150.051		
	38	845895.608	815179.263		
	39	845990.167	815259.032		
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Appendix I

Monitoring Schedule for the Coming Month



### CEDD Contract No. CV/2016/04 – Temporary Construction Waste Sorting Facilities, 2017-2018

### Tseung Kwan O

### March 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24	25 <u>1-hr TSPX1</u> Weekly SI (am)	26	27 <u>24 hr TSP</u> 24-hr RSP	28	1/3 <u>1-hr TSPX2</u>	2
3	4 <u>1-hr TSPX1</u> <u>Weekly SI (am)</u>	5 <u>24 hr TSP</u> 24-hr RSP	6 <u>1-hr TSPX2</u>	7	8 <u>1-hr TSPX1</u>	9
10	11 <u>24 hr TSP</u> <u>24-hr RSP</u> <u>Weekly SI (am)</u>	12	13 <u>1-hr TSPX2</u>	14	15 <u>1-hr TSPX1</u>	16
17 <u>24 hr TSP</u> 24-hr RSP	18 <u>1-hr TSPX1</u> <u>Weekly SI (am)</u>	19	20 <u>1-hr TSPX1</u>	21	22 <u>1-hr TSPX1</u>	23 <u>24 hr TSP</u> <u>24-hr RSP</u>
24	25 <u>1-hr TSPX2</u> <u>Weekly SI (am)</u>	26	27 <u>1-hr TSPX1</u>	28	29 <u>24 hr TSP</u> <u>24-hr RSP</u>	30
31	1/4 <u>1-hr TSPX2</u> <u>Weekly SI (am)</u>	2	3 <u>1-hr TSPX1</u>	4 <u>24 hr TSP</u> 24-hr RSP	5 <u>1-hr TSPX2</u>	6



Appendix J

**Complaint Log** 



### Complaint Logs

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status



Figure

