Maeda Corporation



Upgrading of Ting Kok Road Pumping Station No. 5

First Monthly EM&A Report (January 2006)

February 2006

Report no: 01284R0062

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First Monthly EM&A Report (January 2006)

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Approver:	Guiyi Li		
Report no:	EA01284R0062	Date:	February 2006

This report has been prepared for in accordance with the terms and conditions of Maeda Corporation appointment for the Upgrading of Ting Kok Road Pumping Station No. 5 in October 2005. Hyder Consulting Ltd (Incorporated in Hong Kong with limited liability—COI Number 126012) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.





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1 Executive Summary

Drainage Services Department awarded the contract for the Upgrading of Ting Kok Road Pumping Station No. 5 to Maeda Corporation in September 2005. Maeda appointed Hyder Consulting Limited as the Contractor's Landfill Gas (LFG) Team during the construction period. The construction contract commenced in September 2005 and the total construction period is approximately 28 months.

This report recorded the results and findings of the required EM&A works undertaken during January 2006. All relevant mitigation measures and requirements were implemented. No exceedance of the monitoring parameters was found.

Event and Action Levels

The baseline monitoring results documented in the baseline monitoring report for the Project (our report ref.: EA01284R0022) provided the Action and Limit (A/L) Levels for LFG impact monitoring and also the Action Plan. For methane, A/L Levels are 0.5%/1.0%; for carbon dioxide, A/L Levels are 0.5%/1.5%; and for oxygen, A/L Levels are 19.0%/18.0%.

Complaint Log

There were no non-compliances during the reporting period and no complaints regarding LFG were received.

Reporting Changes

There have been no reporting changes during the reporting period.

Future Key Issues

Based on anticipated construction activities for next month, on the construction programme and on the review of relevant Contractor's method statements by the LGT, no significant future key issues in terms of LFG have been identified at this time.



2 Introduction

2.1 Basic Project Information

Upgrading of Ting Kok Road Pumping Station No. 5 (TKRPS) under North District and Tolo Harbour Sewerage, Sewage Treatment and Disposal – High Priority Works is implemented based on the findings of the Study *Review of North District and Tolo Harbour Sewerage Master Plan*.

The purpose of the Project is to upgrade the existing TKRPS to cope with the sewerage needs of both existing and future developments along Ting Kok Road up to Tai Mei Tuk. The design pumping capacity of TKRPS has to be increased from 2,888m³/day to 11,520m³/day in order to serve the increasing sewage flow along Ting Kok Road. The Project is of high priority and needs to commence as soon as possible because full commissioning of the upstream sewerage facilities along Ting Kok Road is dependent on the completion of this Project.

The proposed scope of works includes construction of a new pumping station, laying of about 350m long twin 450mm diameter rising mains and 250m long 600mm diameter gravity sewer, and demolition of the existing pump pit. The main pumping station, transformer room, gravity sewers, manholes and boundary wall (except the twin rising mains) will be located outside the existing passive vent trench of Shuen Wan Landfill and the three existing Landfill Gas (LFG) monitoring probes within the Project site will not be affected by the works.

There are six village houses located about 60m away from the boundary of the proposed pumping station. The proposed pumping station upgrading works therefore constitutes a Designated Project under type F.3(b)(i) in Schedule 2 of the Environmental Impact Assessment Ordinance. A Project Profile (PP) for direct application of the Environmental Permit (EP) (Application No.DIR-115/2005) was approved by the Environmental Protection Department (EPD) in March 2005 and an EP (EP-212/2005) was granted in April 2005, prior to the commencement of the upgrading works.

Drainage Services Department awarded the contract for the upgrading of TKRPS to Maeda Corporation in September 2005. Maeda appointed Hyder Consulting Limited as the Contractor's Landfill Gas Team (LGT) during the construction period. The construction contract commenced in September 2005 and the total construction period is approximately 28 months.

Close proximity of the Project to Shuen Wan Landfill (within the 250m Consultation Zone of Shuen Wan Landfill) may also suggest the possibility of landfill gas being released during excavation works for substructure of pumping station, transformer room and associated rising mains and gravity sewers. As such, a *Report on Landfill Gas Hazard Assessment* has been prepared previously (as Appendix E to the PP) in accordance with EPD's *Landfill Gas Hazard Assessment Guidance Note* and the *Practice Note for Professional Persons – Landfill Gas Hazard Assessment for Development Adjacent to Landfills*.

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2.2 Management Structure and Project Organisation

The Engineer (DSD) is responsible for overseeing the construction works and ensuring that they are undertaken by the Contractor (Maeda) in accordance with the specification and contractual requirements. The Contractor shall report to the Engineer. The LGT is employed by the Contractor and responsible for conducting the EM&A programme. The IC(LG) shall advise the Engineer on LFG issues related to the Project.

The key personnel contact names and telephone number are summarised in Table 2-1. The project organisation is shown in Appendix 1.

Party	Position	Name:	Tel. No.:
Project Proponent – DSD	Project Manager	Raymond LEE	2594 7457
	Engineer's Representative	Tim TSOI	2594 7460
Contractor – Maeda	Site Agent	George CHEUNG	9268 1918
LGT – Hyder Consulting	LGT Leader	Alexi BHANJA	2911 2916
IC(LG) – CH2M-IDC	IC(LG)	Aldex LEE	2507 2203

Table 2-1 Contact Details for Key Project Personnel

2.3 Construction Programme

Construction programme of the Project is attached in Appendix 2. As can be seen, all works carried out during the reporting period have been carried out with the required LFG control measures in place (e.g. LFG monitoring for "hot works").

2.4 Works Undertaken during the Month

Works undertaken during the reporting period included:

- Construction of mini-pile
- Driving of sheet pile
- Excavation for trial pit

3 Environmental Status

3.1 Works Undertaken during the Month with Illustrations

Works undertaken during the reporting period are identified in Section 2.4. Illustrations of these works, such as location of works, are provided in Appendix 3.



3.2 Project Area and Monitoring Locations

The site is located at Ting Kok Road in Tai Po, and the major items to be constructed are located outside the existing passive vent trench of the adjacent Shuen Wan Landfill.

The impact monitoring locations specified in the *Report on Landfill Gas Hazard Assessment* comprise "utilities' manholes and chambers" (i.e. fixed locations for purposes of environmental protection) and at excavations of 1m depth or more (i.e. variable locations for purposes of worker safety), which vary from month to month.

In terms of fixed monitoring locations, the Baseline Report identified two existing manholes. A third location – a deep borehole – was installed by the Contractor to provide further coverage.

The fixed monitoring locations are summarised in Table 3-2:

Monitoring Station ID		Description
	M1	New Deep Borehole (11m deep)
	M2	Existing Manhole (2m deep)
	M3	Existing Manhole (2m deep)

Table 3-2 Monitoring Locations for LFG EM&A

Project area is shown in Appendix 3 and the fixed monitoring locations are shown in Appendix 4.

4 Brief Summary of EM&A Requirements

4.1 Monitoring Parameters

During the construction phase, impact monitoring of LFG is to be carried out in accordance with the *Report on Landfill Gas Hazard Assessment* at the selected locations. LFG parameters to be monitored comprise oxygen, methane and carbon dioxide. Temperature is also recorded but this is not a LFG parameter.

4.2 Monitoring Equipment

Table 4-3 shows the equipment list for LFG monitoring.

Equipment	Manufacturer / Serial Nos.			
Gas Analyser GA 2000	Geotechnical Instruments / GA 08277			

Table 4-3 Equipment List for LFG Monitoring

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4.3 Event and Action Levels/Plans

The baseline monitoring results documented in the baseline monitoring report for the Project (our report ref.: EA01284R0022) provided the Action and Limit (A/L) Levels for LFG impact monitoring and also the Action Plan. As per the *Report on Landfill Gas Hazard Assessment*, and in keeping with the standard presentation of LFG EM&A in other projects, both the A/L Levels and Action Plan are shown in the same table.

Table 4-4 shows the combined A/L Level and Action Plan for the Project, to be triggered if the LFG criteria are exceeded:

Parameter	A/L Level		Action Plan
	<19%	_	Ventilate to restore oxygen to > 19%
Oxygen	<18%	_	Stop works
onygon		-	Evacuate personnel/prohibit entry
		_	Increase ventilation to restore oxygen to >19%
	>10% LEL	_	Prohibit hot works
	(i.e. > 0.5 % by volume)	_	Ventilate to restore methane to < 10% LEL
Methane	> 20% LEL	_	Stop works
	(i.e. > 1% by volume)	_	Evacuate personnel/prohibit entry
		_	Increase ventilation to restore methane to < 10% LEL
	>0.5%	_	Ventilate to restore carbon dioxide to <0.5%
Carbon Dioxide	>1.5%	_	Stop works
Carbon Bloxide		-	Evacuate personnel/prohibit entry
		_	Increase ventilation to restore carbon dioxide to $>0.5\%$

Table 4-4 Action and Limit Levels and Action Plan for Landfill Gas

4.4 Mitigation Measures and Requirements in Contract Documents

Measures for mitigating LFG hazards during the construction works have been stated clearly in the *Report on Landfill Gas Hazard Assessment*, which forms part of the contract documents Specification. Relevant excerpts could be referred to the Project Profile for Upgrading of Ting Kok Road Pumping Station No. 5.

Section 5 and Appendix 5 summarise the mitigation measures and requirements as well as the implementation status.

5 Implementation Status of Landfill Gas Hazard Control Measures

The status of the mitigation measures implemented by the Contractor is listed in Appendix 5. All LFG hazard control measures have been implemented as stipulated in the contract documents and in the *Report on Landfill Gas Hazard Assessment*.

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6 Monitoring Results

Calibration records for the equipment used for LFG monitoring are provided in Appendix 6. *Original Field Measurement Recording Sheets* for both fixed locations and variable locations are provided in Appendix 7.

6.1 Fixed Locations

During the reporting period, LFG was monitored at the three fixed locations for purposes of environmental protection). These are shown in Table 6-5, below (**bold** indicates an exceedance of Action Level and **bold** indicates an exceedance of Limit Level):

Fixed Monitoring		Ga	s Concentration (Temperature		
Station ID	Date	Methane	Carbon Dioxide	Oxygen	(°C)	Remarks
M1	04/01/06	0.0	0.3	20.3	24.6	
M2	04/01/06	0.0	0.0	20.3	23.5	Nil
М3	04/01/06	0.0	0.1	20.3	23.8	

Table 6-5 Monitoring Results at Fixed Locations

Appendix 4 shows the position of each fixed monitoring station. There were no exceedances for Action or Limit Level at any fixed locations during the reporting period.

6.2 Variable Locations

During the reporting period, LFG was monitored at ten variable locations (for purposes of worker safety). These comprised Portions 4, 5 and 7, MP6, 21, 22, 29, 30, 44 and at the pumping station, as shown in Appendix 3.

A total of 68 no. readings at the ten variable locations were taken for safety-related reasons, including hot work, sheet piling and excavation. There were no exceedances for Action or Limit Level at any variable locations during the reporting period.

The LFG monitoring results for variable locations are provided on the *Field Measurement Recording Sheets* in Appendix 7.

7 Report on Non-Compliance and Complaints

There were no non-compliances during the reporting period and no complaints regarding LFG were received.



8 Others

8.1 Future Key Issues

Construction activities for next month are anticipated to include:

- Construction of rising main
- Construction of permanent mini-piles

Based on the above, on the construction programme (shown in Appendix 2) and on the review of relevant Contractor's method statements by the LGT, no significant future key issues in terms of LFG have been identified at this time.

LFG monitoring will be continued and the monitoring schedule for the next three months is shown below:

- 3 February 2006
- 1 March 2006
- 1 April 2006

8.2 Comments, Recommendations and Conclusions

The LFG mitigation measures adopted by the Contractor during the reporting period are considered to have been implemented in a satisfactory manner and there have been no exceedances in A/L Levels at either fixed or variable monitoring locations.

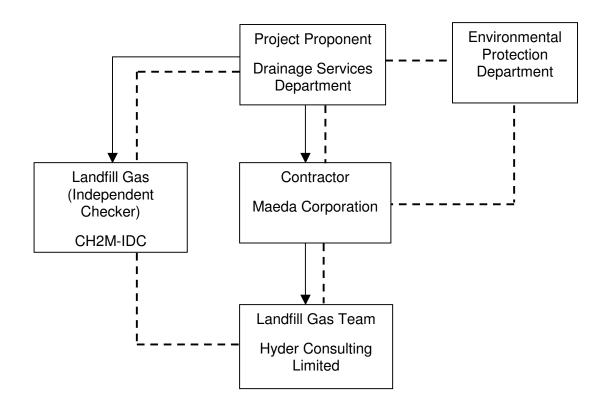
The EM&A programme is considered to performed acceptably and there are no recommendations for improvements or modifications at this time.

In conclusion, there have been no significant issues relating to LFG hazard during the reporting period.



Project Organisation





--- Line of communication

Line of Authority

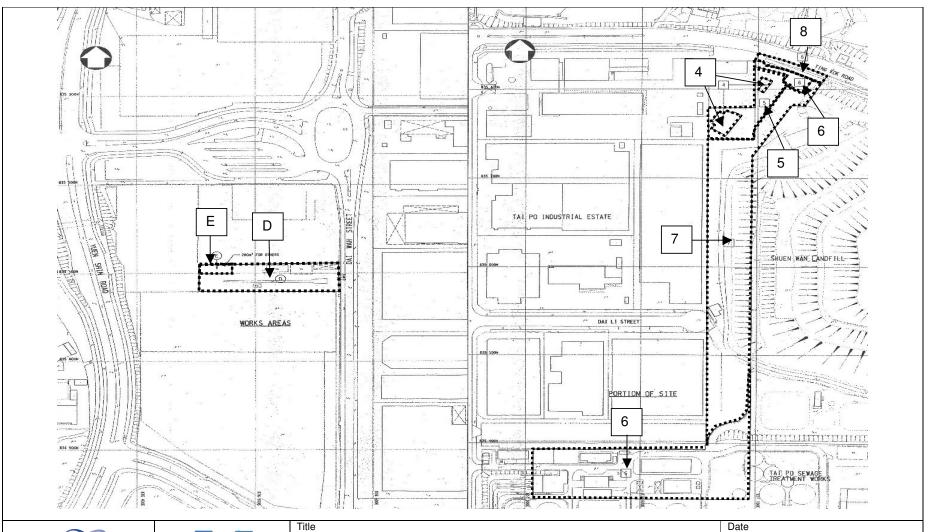


Construction Programme

Activity ID	Activity Description	Orig Early Dur Start	Early Finish	Predecessors		J F M A M			A M J	07 J A S O N D	JA
DC0758	Cover for Sedimentation took No. 1.9	28 11/07/		DC0754*							
C0760 C0762	Cover for Sedimentation tank No. 1-8 Cover for Sludge Hoarding Tank No. 1-4		7 29/11/07 7 30/01/08								
oadwork		1 1	'	'							
	In	=======================================	0 00/00/00	D00=00+							
DC0764 DC0766	Portion 1 Portion 2&3		8 28/03/08 8 10/07/08		 						
	scaping Works										
	In		_]	I=							
DC0770 DC0772	Planting works (Portion 2) Hydroseeding		8 12/08/08 8 19/08/08		 						
	nent Works	0 10/00/	0 10/00/00	1200110							
	General establishment works	30 20/08/	8 24/09/08	DC0772*							
Key Date											
DC07K5	Completion of the Section 5	0	24/09/08	D004*, DC0772,							
pgradin	g of Ting Kok Road Pumping Stati	ion No.5									
N08: Sec	ction 6 of Works										
umping S	Station										
DC0806	Initial Survey	22 27/09/	5 24/10/05	D004*							
DC0808	Site Clearance + Tree Felling		5 31/10/05		—						
DC0810	Hoarding Erection		5 07/11/05								
DC0812 DC0814	Demolition of Existing Boundary Wall (partial) G.I./Pre-drilling	7 08/11/0 30 01/11/0	5 15/11/05 5 05/12/05	DC0810* DC0808*	_						
DC0818	Prelim Pile (1no) (Pile Installation+Setting up)	40 06/12/0	5 21/01/06	DC0814*	_ -						
DC0820 DC0822	Mini Piling (66 nos.) Pile Load Test (1 nos) (Selection of Piles)		5 23/03/06 6 28/04/06		 - -						
DC0822 DC0830	Sheetpiling + Wailing + Excavation (ELS)		6 28/04/06			T <u> </u>					
DC0840	Substructure	125 29/06/	6 24/11/06	DC0830*							
DC0842 DC0844	Backfilling Superstructure (incl. roof)		6 20/11/06 6 22/02/07	DC0840* DC0840*, DC0842			'				
DC0848	Internal Finishes (Plumbing, Cat ladder, etc)		7 24/03/07								
ransform	er House										
DC0852	Site Clearance+Tree Felling+Tree Transplanting	24 00/44/	5 05/12/05	DC0810*							
DC0852 DC0854	G.I./Pre-drilling		5 05/12/05		— <u> </u>						
DC0856	Prelim Pile (1no) (Pile Installation+Setting up)			DC0852*, DC0854*							
DC0858	Mini Piling (10 nos.) Pile Load Test (1 nos) (Selection of Piles)		5 23/03/06 6 28/04/06		 -						
DC0860											
	Excavation (Open excavation) (2.05m depth)		6 30/05/06								
DC0862 DC0864	Excavation (Open excavation) (2.05m depth) Substructure	26 31/05/0	6 30/06/06	DC0862*		-	_				
DC0862 DC0864 DC0866	Excavation (Open excavation) (2.05m depth)	26 31/05/0 11 03/07/0 50 15/07/0	6 30/06/06 6 14/07/06 6 11/09/06	DC0862* DC0864* DC0866*		-	• •				
DC0862 DC0864 DC0866 DC0868 DC0870	Excavation (Open excavation) (2.05m depth) Substructure Backfilling	26 31/05/0 11 03/07/0 50 15/07/0	6 30/06/06 6 14/07/06	DC0862* DC0864* DC0866*		-	- .				
DC0860 DC0862 DC0864 DC0866 DC0868 DC0870 Key Date	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes	26 31/05/0 11 03/07/0 50 15/07/0 12 12/09/0	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06	DC0862* DC0864* DC0866* DC0868*	70		-				
DC0862 DC0864 DC0866 DC0868 DC0870 Key Date	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6	26 31/05/0 11 03/07/0 50 15/07/0	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06	DC0862* DC0864* DC0866*	70		- .	•			
DC0862 DC0864 DC0866 DC0868 DC0870 Key Date	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6	26 31/05/0 11 03/07/0 50 15/07/0 12 12/09/0	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06	DC0862* DC0864* DC0866* DC0868*	70		- .	•			
DC0862 DC0864 DC0866 DC0868 DC0870 Key Date DC08K6 N09: Sec	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works ising Mains (by Open Excavation)	26 31/05/0 11 03/07/0 50 15/07/0 12 12/09/0	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06 24/03/07	DC0862* DC0864* DC0866* DC0868* D004*, DC0848*, DC087	70		•	•	•		
DC0862 DC0864 DC0866 DC0868 DC0870 Key Date DC08K6 N09: Sec	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 etion 7 of Works ising Mains (by Open Excavation) Initial Survey	26 31/05/0 11 03/07/0 50 15/07/0 12 12/09/0 0	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06 24/03/07	DC0862* DC0864* DC0866* DC0868* D004*, DC0848*, DC087	70		- .	•	•		
DC0862 DC0864 DC0866 DC0868 DC0870 Key Date DC08K6 N09: Sec Sewers, R	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works ising Mains (by Open Excavation)	26 31/05/0 11 03/07/0 50 15/07/0 12 12/09/0 0 0 24 25/10/0 120 02/11/0	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06 24/03/07 5 21/11/05 5 22/03/06	DC0862* DC0864* DC0866* DC0868* D004*, DC0848*, DC087	70		•	•			
DC0862 DC0864 DC0866 DC0868 DC0870 Key Date DC08K6 N09: Sec Sewers, R DC0922 DC0924 DC0928	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works ising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5	26 31/05/6 11 03/07/6 50 15/07/6 12 12/09/6 0 0 24 25/10/6 120 02/11/6 10 28/04/6 30 10/05/6	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06 24/03/07 5 21/11/05 5 22/03/06 6 09/05/06 6 15/06/06	DC0862* DC0864* DC0866* DC0868* D004*, DC0848*, DC087 DC0806* DC0922* DC0906*, DC0924 DC0926*	70			•	•		
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DC0862 DC0864 DC0866 DC0868 DC0870 Key Date DC08K6 N09: Sec Sewers, R DC0922 DC0924 DC0926 DC0928 DC0930 DC0932	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works ising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5	26 31/05// 11 03/07// 50 15/07// 12 12/09// 0 24 25/10// 120 02/11// 10 28/04// 30 10/05// 20 16/06// 17 11/07//	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06 24/03/07 5 21/11/05 5 22/03/06 6 09/05/06 6 15/06/06 6 10/07/06 6 29/07/06	DC0862* DC0864* DC0866* DC0868* D004*, DC0848*, DC087 DC0806* DC0922* DC0906*, DC0924 DC0926* DC0928* DC0932*	70			•	•		
DC0862 DC0864 DC0866 DC0868 DC0870 Cey Date DC08K6 N09: Sec DC0922 DC0924 DC0926 DC0928 DC0930 DC0932 DC0936 DC0938	Excavation (Open excavation) (2.05m depth) Substructure Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works ising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5 Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m)	26 31/05// 11 03/07// 50 15/07// 12 12/09// 0 24 25/10// 120 02/11// 10 28/04// 30 10/05// 20 16/06// 17 11/07// 9 31/07//	6 30/06/06 6 14/07/06 6 11/09/06 6 26/09/06 24/03/07 5 21/11/05 5 22/03/06 6 09/05/06 6 15/06/06 6 10/07/06 6 29/07/06 6 09/08/06	DC0862* DC0864* DC0866* DC0868* D004*, DC0848*, DC087 DC0922* DC0906*, DC0924 DC0926* DC0928* DC0932* DC0932* DC0936*	70			•			
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Location of Works and Project Area





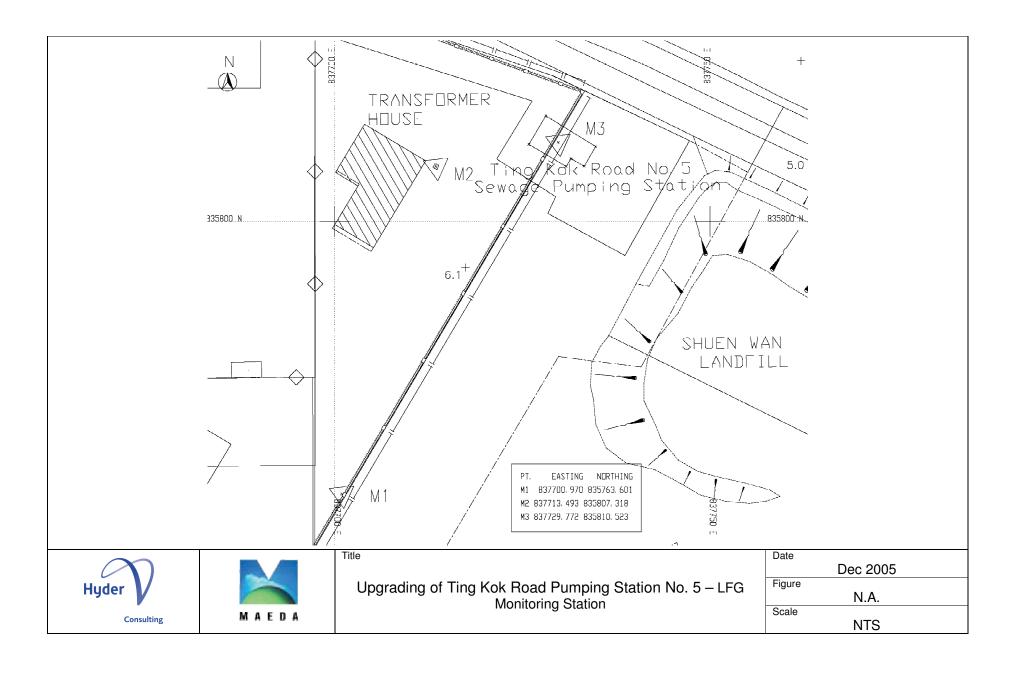


Upgrading of Ting Kok Road Pumping Station No. 5 – Portion of Site and Works Area

Date		
- 4.5		
	Dec 2005	
	Dec 2005	
-		
Figure		
	N.A.	
	1 4.7 %	
Scale		
Julie		
	NITO	
	NTS	



Fixed Monitoring Locations





Updated Implementation Schedule

Section	Environmental Protection Measure	Status	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
6.1	Safety officer, trained in the use of gas detection equipment and landfill gas-related hazards should be appointed on site throughout the ground works phase. The Safety Officer should be provided with intrinsically safe portable instruments, appropriately calibrated and capable of measuring the following gases in the ranges indicated: methane 0-100% LEL and 0-100% by volume; carbon dioxide 0-100%;and oxygen 0-21%	Y				Code of practice on Safety and Health at Work in Confined Space. Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)
6.2	No smoking and naked flames should be allowed.	Υ				
6.2	No worker should work alone at any time in the confined area or any excavation trenches.	Υ	Within the work site	Contractor	Construction	
6.2	Construction equipment should be equipped with a vertical exhaust at least 0.6m above ground level and/or with spark arrestors	Υ				Landfill Gas
6.2	Electrical motors and electrical extension cords should be explosion-proof or intrinsically safe.	Υ				Hazard Assessment Guidance Note
6.2	Welding, flame-cutting or other hot works should only be carried out in trenches or confined spaces when controlled by a 'permit to work' procedure, properly authorized by the Safety Officer.	Y				(EPD/TR8/97)
6.2	Forced ventilation should be required for workers, if in a trench deeper than 1m.	N/A				

Section	Environmental Protection Measure	Status	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
6.2	During piping assembly or conducting construction, all valves/seals should be closed as installed to prevent the migration of gases through the pipeline/conduit. Forced ventilation and gas monitoring should be performed before staff entering and working in large diameter pipe.	N/A	Within the work site	Contractor	Construction	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)
6.2	The Safety Officer should set down the monitoring frequency and areas prior to commencement of construction works.	Y				
6.2	Daily and routine monitoring should be carried out in all excavations.	Y				
6.2	All measurements in excavations should be made with the extended monitoring tube located not more than 10mm form the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters the area.	Y				
6.2	For excavations deeper than 1m, measurement should be carried out:	N/A				
	 at the ground surface before excavation commences; 					
	 immediately before any worker enters the excavation; 					
	 at the beginning of each half working day (i.e morning and afternoon) for the entire period the excavation remains open; and 					
	 periodically through the working day whilst works are in the excavation. 					

Section	Environmental Protection Measure	Status	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
6.2	For excavations between 300mm and 1m deep, measurements should be carried out:	Y				
	 Directly after the excavation has been completed; and 					
	 Periodically whilst the excavation remains open. 					
6.2	The landfill gas precautionary measures involved with excavation and piping works should be included in the Safety Plan.	Y	Within the work site	Contractor	Construction	Landfill Gas Hazard Assessment
6.3	The cracks on the ground level at the working area should be monitored during ground-works construction	N/A				Guidance Note (EPD/TR8/97)
6.4	Where there are any temporary site offices, or any other buildings the have enclosed spaces with the capacity to accumulate landfill gas, then they should either:	Y				
	 Be located on an area which has been proved to be free of landfill gas and monitored manually by the Safety officer or an approved and appropriately qualified person to ensure that hazardous concentration of landfill gas does not occur; or 					
	 Be raised clear of the ground. If buildings are raised clear of the ground, a minimum, clear separation distance should be 500mm. 					
6.5	Such offices or buildings should be provided with some kinds of control of gas by mechanical means e.g. forced ventilation using fans or blowers.	Y				
6.6	Adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site.	Y				

Section	Environmental Protection Measure	Status	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
6.7	Periodic environmental monitoring report with LFG control measures evaluation during construction phase should be provided by contractor and submitted to SP/DSD and EPD.	Y				
7.1	When service voids, manholes or inspection chambers within the proposed site are entered for maintenance, monitoring and a checklist system of safety requirements should be performed before entry.	N/A	Manhole/ chamber	DSD	Operation	Code of Practice on Safety and health at Work in Confined Spaces
7.2	A procedure should be developed as part of the station operation to respond to gas detector alarms. The detection system should be maintained and calibrated regularly in accordance with the manufacturer's recommendations. In the event of a power failure, the detectors should have an 8-hour battery back-up system, and the procedures should indicate for manual monitoring in the station in the event of prolonged power failure (or longer than 8 hours).	N/A	Pumping station			
7.3	Forced ventilation should be used if methane of more than 0.5% (by volume) in the internal atmosphere (e.g. in service voids, manholes, inspection chambers or rooms as mentioned above) in detected.	N/A	Manhole/ chamber/ pumping station			
7.4	No person should enter or remain in a confined spaces or trenches where the carbon dioxide concentration exceed 1.5% (by volume).	N/A				
7.5	Oxygen concentration should be monitored and no person should enter or remain in any confined spaced or trenches where the oxygen content of air has fallen below 18% by volume.	N/A				

Section	Environmental Protection Measure	Status	Location	Implementation Agent	Implementation Stage	Relevant Legislation & Guidelines
7.6	All the access to these confined spaces would be restricted only to authorize personnel who should be aware of the LFG hazard. No member of general public should be permitted or allowed to access these confined spaces, manholes or inspection chambers.	N/A				

Note:

Y – Implemented

 $N-Not\ Implemented$

N/A - Not Applicable



Calibration Records



Verification Checklist

Product Type: Gas Analyser

GA 2000

Serial Number: GA 08277

Checks and pro	ocesses to be carried out	(✓) or (n/a)				
Documents	All paperwork has been completed and signed	_				
	Solenoid by-pass - signed as reconnected (GEM-500 only)	NIA				
Functions,	Anemometer set (refer Precal Sheet)	~				
options	H2 warning level set (compensated CO only, refer Project 1 or Precal Sheet)	NIA				
& settings	Baud rate set to 19200+HS (2K ONLY)					
	Barometer set (± 5mbar of actual)	<u></u>				
	Internal Gas sensors fitted Cell 1	HIM				
	Cell 2	NIA				
	Cell 3	NIA				
	Oxy cell	-				
	Current software version correct (write current version)	V 2.35				
	Current time correct	(UK) USA				
	Date format correct					
	Company logo correct					
	Instrument type correct (refer to opening title screen)	· .				
	Lifetime guarantee					
	Service due date set (current date + 6 months)	· ·				
	Last gas check date set (refer outward gas check)	-				
Sample flow	Vacuum tested at inlet port	<u> </u>				
	Flow correct					
	Flow fail operates correctly	-				
Ancillary	Temperature probe registers correct temperature					
readings	Analyser recognises gas pod correctly	~				
	Analyser recognises flow pod correctly	/				
Pressure	Check 5psi relative pressure transducer set using DPI					
transducer	Check 1psi differential pressure transducer set using DPI (GEM ONLY)	NIA				
Labels	All relevant product labels are fitted correctly	~				
	'Ex' screen printing/label is clear/correct for product	~				
	Battery cover sealing tape fitted (Hyperbaric units only)	MIA				
Accessories	All relevant accessories included correct	/				
Memory	Update EPROM database (2K only)	<i>\sigma</i> .				
& battery	Update GA Production database	_				
	Memory clear (unless client requests otherwise)	~				
	New batteries fitted as standard (NMRI Hyperbaric units only)	NIA				
	Battery life tested by logging (If new 2k battery fitted only)	14 Hrs				
Comments		- 1-2				

Verified By: L. Gists (ref. F10002) Date: O& 11. OS.

Signed Printed



CERTIFICATE OF CALIBRATION

Certificate number: GA08277L0041105

Date of Calibration: 04/11/05 Product: GA 2000 Serial number: GA08277

CALIBRATION CHECK RESULTS

Primary Gas Channels

Met	hane	Carbon Dioxide				
Certified Gas %	Reading %	Certified Gas %	Reading %			
0.0	0.0	0.0	0.0			
0.5	0.4	0.5	0.4			
5.0	5.0	5.0	4.5			
14.8	14.7	14.8	14.2			
59.5	59.9	40.5	37.8			
50.1	50.9	49.9	47.5			
100.0	99.0	0.0	0.0			

Oxygen Channel

Certified Gas	0% O ₂	4.95 % O ₂	Air (20.9% nominal)
Reading	0.0 %	4.8 %	20.9 %

Approved by:	L. Gibbs	(Name)
	e. Gubb	(Signature)

All gases are certified to traceable National Standards.

This unit must be serviced at regular 6 monthly intervals by a Geotechnical Instruments Ltd approved service facility.



Field Measurement Recording Sheets

DC/2005/01

Checked by:

ANNEX A

Landfill Gas Monitoring – Field Measurement Recording Sheet (Sample)

Name of site: DC/2005/01 Ting tok Road Pumping
Date of measurement:
4/1/06

Sampling equipment used:	Dates calibrated
GA 2000	04/11/05
Engl an GA Of297	7 7
301 W - 11	

Annex A

			Perimeter on-site and/or off-site monitoring holes						
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
MOL	4/1/06	13:50	Sunny	79.2	0.0	0.3	20.3	24.6	
MOZ	4/1/06	13:53	Swany	79.8	0,0	0,0	70.5	23.5	
mD3	4/1/06	4:50	Grany	79.4	0.0	Ð,]	20,3	23.8	
	/ '		J						
		•	-						
						<u> </u>			
			-			1			

Field Technician:

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PS/APP 1.18-

DC/2005/01

P. 02

ANNEX A	
Landfill Gas Monitoring — Field Measurement Recording Sheet ((Sample)

Name of site: DC/2005/01 Ting tok Road Pumping Station

See Golow

Sampling equipment used:	Dates calibrated
GA 7000	
dental us. 64 of 77	04/11/05
	701

	T								
			Perimeter on-site and/or off-site monitoring holes						
Sample location	Date of measurement	Sampling time	Weather condition	·	Flammable gas	Carbon			Remark
Porteon 4	25/1/2006	08:05	Cloud.	78.2	o	a	2:0.7	13.4	
Mnr-Ala	\1	9B=06	4./	19.1	α	0	Zs.7	<i>(</i> 3.4	The work
Partin 7	75/1/2006	08:08	Cloudy	39,1	o	Q	20.7	13.4	7 5 6 -1
\1		08:09	^	19.1	ø	•	20.7	13.4	Jord planet
		-							· Created Car
Patron 4	ES 1/ 2016	12:56	Franç	79.2	O	0	20.6	17.6	Z1. 4
40- pel-e		12:57		79.2	a	o	20.7	17.6)HOT WORK
Poten7	75/1 (206	(3,00	Fre	79.2	Q	e	2.7	7-6	1 Sheetak
		13:01	-1	79.1	0	0	20.7	17.6	Excavation
porbat	26/1/06	8-00	Fre	19.7	e	0	Zn.6	128 3	1L A
White ple	2/1//	8:02	٠:	49.2	•		20.6	12.8	THOC WAR
Poton 4	361/06	13:09	Fine	79.	0	0	7.65	18.5	Hotrak
7 1-4-1		13:11		794		0	707	18.5	I sal to wit -

Field Technician: Jeggge

Checked by: ___

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Annex A

+852 2724 4046

Annex A

ANNEX A Landfill Gas Monitoring - Field Measurement Recording Sheet (Sample)

Name of site: D/clob/o| Ting Cole Road Pumpshy Station Date of measurement: See below

Dates calibrated
20/11/40

			Perimeter on-site and/or off-site monitoring holes							
Sample	Date of	Sampling	Weather		Plammable gas	Carbon	<u>-</u>			
location	measurement	time		Balance gas (%)	(methane %)	dioxide (%)	Oxygen (%)	Temp (°C)	Remark	
Postost	73-1-06	13:15	Fine	79.1	0	0	20.7	12.3	Hot work.	
MP47	~	Ball	Fre	79.2	6	3	20.6	15.6	Hotwork	
Datan	3-1-06	13219	<u>\</u>	79.2	O	O	4.06	15:6	Stut pity.	
, ,	(,	13:21		79.2	U	<u>U</u>	205	13.5	Branton	
Perticit	24-1-06	3:34	Fine	79,4	<u> </u>	0,1	20.4	11.8	Hot	
MP43	.(1	8:25	٠,	79.4	<u>ა</u>	01.	20.4	1/8	Work.	
Portin 7	94-1-06	8,31	FM	79.2	0	2	20.5	11.1	Shot piting	
	l 1	8-38	<u> </u>	79.2	0	2	23,6	11.	Example	
Patro 4	24-1-06	13:16	Fine	79.	٥	0	20.7	17.6	Hot	
MP4)	41	13:7	- \	79.1	0	٥	20.8	16.8	work.	
Port to 7	94-1-95	7:25	N)	79.3	<u> </u>	٥	30,6	16.6	sted with	
11	(,	17:20	(a ,: -,	79.1		0	7.67	16.6	Examples	
							1			
			-		_					

Field Technician:

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T 1511	PGU Y	* #	. TD !IT !	_ [1]4
Langin Cas Pionicolin	r — rijein	-weasurement	: Kecorani	o Sheer i
Landfill Gas Monitorin		212020,0220220		6

Name of sile: DC(2003 (0) Ting Kok Good Runging Statter
Date of measurement: See below

Sampling equipment used:	Dates calibrated
GA roov	
Serial us. GA of 277	64/11/05
	

			·		J		Ш.		~		- 1
	-	-	-		Pei	imeter ou-s	ea	nd/or off-site 1	nonitoring hol	es	
Sample location	Date of measurement	Sampling time		Balance g		Flammable (methane)		Carbon dioxide (%) ^t	Ovrgen (%)	Temp (°C)	Remark
Patron4	21/1/06	13:00	July		10 (70)	(montano)	-	D D	20.7	16.6	Art
Mp29.	21/1/06	13:01	<u> </u>	79.		p ·	1	0 .	20.7	16,6.	Work
Portzon T	· 、、 .	13:03	1	79.	<u>\$</u>	6	\parallel	O ·	25.6	16.6	Stat orle
3 	1	13:05	1		-	ß	<u> </u>	٥	20.6	16.7.	Exchiotion.
竹瓜十	23/1/06	8:30	Unda	79.	2.	0		. 0	<u> 20,6</u>	103	1. 1.
MPZ9	- 1:11	8.31	. (,	7.9	 	0 0	1	0	7.5/	12)	Work
TOT TO	23/1/06	8:32	Condy	79.5	,	(· (·)	<u> </u>	. 0	20.6	10.1	Sheet ofle
٠, ١	()	8734		79.	<u>≯</u>	O	#	U	501	10.	Excarton
					<u> </u>		#	· · · · · · · · · · · · · · · · · · ·	-		
	<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>		• • •	1	· · · · · · · · · · · · · · · · · · ·			· ;
· · · · ·		-			<u> -</u>	i	#	ļ			
·		-	•		1		- -				
<u> </u>	· · · · · · · · · · · · · · · · · · ·	-			1	•	#			<u> </u>	. :,
İ		<u> </u>			<u> </u>				٠.		

· Field Technician: _

Checked by:

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Landfill Gas Monitoring - Field Measurement Recording Shee	t
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Name of sile: Tek Date of measurement: fee below

Sampling equipment used:	Dates calibrated
6A 2000	OK/11/05
renal as GA Of>77	7/1-1
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					-			<u> </u>			.
	,	-		,	Per	imeterion-sit	e a	ud/or off-site r	nonitoring hol	es ·	
Sample	Date of	Sampling	Weather			Flammable			-		
location	measurement	time	condition	Balance g	as (%)	(methane)	<u>6) </u>	dioxide (%)*	Oxygen (%)	Temp (°C)	Remark
Botron 4	20/1/06	98.60	Para	77.	2	0	:	C	20.6	_19.2	7 Hot
HP22, 44	((0803	ېد	29.	2	9		0	20.7	19.2	Wark
Potaz	20/1/06	08,02	Rain	75	٧ .			0	20.6	(9.1	3 sheet ple
, , , , , , , , , , , , , , , , , , ,	^	08104			<u> </u>	8		•	70.7	[9.1	Exerction
					ļ. ·- ·				-	<u>.</u>	
portront	20/1/00	17=54	Rain	79.	2	0		0	20.6	17.6	7. Hot work
HP30,44		12-58		18	[[0	#	0	. 20.7	17.6	J
Portron 7	20(1106	12:55	ROYN	79.			1	0	10.7	17.5	2 Breet Mez
~		12:57		19	1	O	1	0	10.7	H.4.	2 Bhect Mey Sexulation
Porton4	21/1/06	8:32	Ran	79	1	0	\parallel	0	20.8	13,8	7 Hot
WF32-44	١, .	8:34	(, ,	1.79			<u> </u>	. 0	20,8	13,7	hork.
Porton	. 1	8:35	Ran "	79.	<u>þ</u>	σ		0	20.7	B.7 -	Shut pile.
	- 14	8:36	٠,	79	1	0		U	23.7	13.8	Exculation
			<u> </u>			-					P : 1

Field Technician:

Landfill Gas Monitoring – Field Measurement Recording S	reet

Name of site: True lot road Purpsy Statem No. 5
Date of measurement: per below

Sampling equipment used:	Dates calibrated
GA rovo	06/11/x
serial w. GA ofst)	~/~/
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		-						[<u> </u>			· i	
						Per	imeter on-s	te	and/or off-site n	nonitoring hol	es		
	Sample	Dale of	Sampling	Weather	· ·		Flammable	ga	s Carbon			1	
	location	measurement	time	condition	Balance g	as (%)	(methane	%)	dioxide (%)	Oxygen (%)	Temp (°C)	Remark	
$\int \!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	Porten 4	18/1/06	12:55	Cloudy	79.	ζ <u>.</u>	0	1	9	20.7	21-0	Total Hore	
`	Morl	(((3 = 05		79.	Z	9		Q .	20.7	21.9	1 det Hare	
	Potins 17	18/1/06	12:56	cloudy	79	2	la		Q	20.7	209	7 Excavetant	
	- 4	ν.	(3>07	٠, ١	79	12	0		0	20.6	21.0	I sheetpite	
										;			
	Portion 4	19/1/06	8:00	Rem	79	1	06		0	20.7	19.7	7100	
	MPZZ, 44		8:05	, u	79	ŀ	0		<u>a</u>	20-7	19.7.	I Hot war	
	Portum5,7	19/1/06	3:02	Rem	79	1 .	0		0	20-6	19-6	7 Exceveten	R
		19/1/06	B=06	1	79	1.2	0		a	20-6	18.6	I short rike	•
	-			-							-	. !	
	Portron 4	19/1 (06	12:52	Rein:	79	14	8		Q	20.6	19, 1	2 Hot were	•
	H9 22, MP	44 (9/1/06	12:54	7	74	1, .	0		0	70.7	19.1	J	i
l	Portan 7	19/1/06	12:55	Rain	75	2	o		- 0	20.7	19.1.	3 Sheet polo	•
	u	M	12:57		75	1	. 0		0	70.7	19.2	I excevetem	

Field Technician:

Checked by:

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Annex A

PS/APP 1.18-15

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ANNEX A Landfill Gas Monitoring - Field Measurement Recording Sheet (Sample)

Name of site: Ting Kek Road Pumpy statem No.5
Date of measurement: Lee hulow

Sampling equipment used:	Dates calibrated
GA 2000	84/11/51
Cenial an 6A 08297	
7)	-

ſ				Perimeter on-site and/or off-site monitoring holes						
	Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
$\sqrt{ }$	Portra 4	17/1/06	a8:10	Rath	79.1	0	0	20.8	183	Hot work
١	HPZI	<u> </u>	98=11	· G	79.1	9.		20,7	18,1	by the state of
Ì	porten5	17/1/06	08:13	Ram	19-1		0	20.7	18./	Excevation/
	<i>\</i> \	- u	08:14	-1	79.1	٥	0	20-7	18.1	Sheet pole
	<u></u>			•	•					
\mathcal{J}	Portra4	17/1/06	12:55	Cloudy	19.2	0	0	20.7	19.3	That work
	MP21		12:58		79.2	Q.	0	207	19.3	5
		(7 /110b			79.1		e	20.8	19.4	Excevation/
	1 04 (de) (L)	(1)	(3 - 5)	7	79.2	0	0	20.7	19.4	sheet ple
			1 2 .					20.8		,
\int	Potra4	18/1/06	8:05	Paza	79.2	0	o	19:30	19.5	Hot work
٧	MPZI	10117-0	9:30		28,1	. 0	. 0	20.8	20.0	
!	podwis a	18/1/06	8:06	1	75.1	9	o	20.7	19.6	Excavater &
	~	<u> </u>	8:31	-	71.1	. 0	a	20.8	20-0	shed pite

Field Technician:

Annex A

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PS/APP 1.18-15

ANNEX A Landfill Gas Monitoring - Field Measurement Recording Sheet (Sample)

Name of site: Try Kok Red pampty Station No.5.

Date of measurement:

13 Jan 06 to 16 Jan 06

Sampling equipment used:	Dates calibrated			
AA 2020	04/11/5			
Serial us: GA OPOMY				
Jemos W. Off Offil)				

			Perimeter on-site and/or off-site monitoring holes						
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
Poton 5	13-1-05	13:45	Fare	79.3	0	0	20.6	294	Hot have
ME	11	[3:47]	F	79.4	0	0	204	28.	• •
Postano	٤(1425	Fine	79.3	<i>b</i>	O	20.6	27.0	5 courting
857 Bald	L ()	1450	۷,	79.3	O	0	23.5	36.8	- /
Portin I	14-1-03	०४६८३	For	79.5	O		20,8	19.8	Hotrok
MP6	1.	08:34	Fin	79.2	0	J	201	19.7	` .
Patras	16-1-95	م لا: 32	tru	79.1	O	0	<u> 2</u> 0, 8′	202	Hot work
	W	28.39	()	7902	6	0	2017	20	Anot work
Portion 4	16/1/06	1 ^ \	The	79.2	0	9	20.6	27.7	Hot-Works
Plum stokes		13:35	41	19-3	0	0	2000	28.1	Con cton
Porton 5			Fine	(19.1)	0	0	20.8	27.4	sheet ple
(1	\ \(\(\frac{1}{2}\)	13.35		79.2	. 0	0	30-7	28.2	4
Portron-	16/1/06			79.2	G	٥	20.6	28.3	Short poly
	υr .	(3:32		79.2	. 0	0	70.5	28.3	(,'

ANNEX A Landfill Gas Monitoring - Field Measurement Recording Sheet (Sample)

Name of site: Try Kok road Panyong station W.J. Date of measurement:

10-1-2006 / 11-JAN-06/12 Janos

Sampling equipment used:	Dates calibrated
(+ A 2000	20/11/05
Seriel W. GA OP-77	7 1

Annex A

13 Jan 06

Γ			(5000	Perimeter on-site and/or off-site monitoring holes							
	Sample location	Date of measurement	Sampling time	Weather condition		Flammable gas	Carbon	Oxygen (%)	Temp (°C)	Remark	
Λ	Parting	10-1-06	[]=25	timo	70 /	0	Ο .	20.9	20.8	Hotwork	
	MP6	[(1(;28	Fine	79.1	O	0	207	20,6	Moture	
		•		•							
1	Parta4	12-105	8:39	Fino	79,1	. <i>O</i>	0	20,8	17.7	Hot. Hork	
	MP6.	17	8241	Fine	7912	0	۵	20,7	17.8	Hotworke	
	Porten4	12-1-06	8:40	T-The	79.1	0	O	20.8	18-6	Hot- Work	
	MP6		8:31	13	79,1	. 0	0	. 20.8	18.4	1951 work	
	Portion 4	12-1-06	12-55	Fine	79.3	0	6	20.6	26.2	Hot-work	
	MP 6	ζ.,	13:15	€ T	79.2	o	o	20.7	26.5	Hot work	
1									-		
1	Portin4	13-1-26	8:35	Fire	79.2	0	0	205	186	Hat hove	
	MPG	17 .	8138	6	79.3	δ	ల	≥ ₀ ∴	18.7	1387 Work	

Field Technician: