

Appendix I

Landfill Gas Monitoring Equipment Calibration Certificate



香港新界葵涌葵昌路58-70號永祥工業大廈10樓B室

Unit B, 10/F., Wing Cheung Industrial Building, 58-70 Kwai Cheong Road, Kwai Chung, New Territories, HK. Tel: (852) 2751 7770 Fax: (852) 2756 2051 E-mail: rotter@rotter.com.hk

Calibration Report - Gas Detector

PGM-2500 (QRAÉ III) --- LEL/02/CO/H2S

UNIT INFORMATION:

Customer:	Penta Ocean Construction Co Ltd	Serial # :	M02A001708	Model:	QRAE III
		Firmware :	V2.12	Sensor :	LEL/O2/CO/H2S
		Cal date :	28-Jul-2021	Inspected:	Teddy

SENSOR DATA :

	LEL sensor (ME)	O2 sensor	CO sensor (Tox1)	H2S sensor (Tox2)		
Calibration dates:	28-Jul-2021	28-Jul-2021	28-Jul-2021	28-Jul-2021		
After Calibration levels	50%	17.90%	50 ppm	10.1 ppm		
Alarm levels (Low):	10.00%	19.50%	35 ppm	10 ppm		
Alarm levels (High):	20.00%	23.50%	200 ppm	20 ppm		
TWA Level ;			35 ppm	10 ppm		
STEL Level :			100 ppm	15 ppm		
Status:			<i>i</i> t			
Pump Speed	. Low	Back Light	Manual			
Clock	Yes	Measure	Average	-		
LEL Gas Selection				- . *		
LEL Calibration Gas	Methane	LEL measurement Gas	Methane]		
LEL Custom Gas	LEL_custom_gas	LEL Custom Factor	1.0			
-				-		
Gas types used : 4-Ga	as Mix: (18% O2, 50ppm	CO, 10ppm H2S, 50% LE	L CH4, BAL N2)	Gas lot #1412983 Cyl# 15		
*** Fresh Air Calibrat	ion is highly recommende	d to proceed prior for mea	surement each time.			
,				•		
Replaced Parts:						
Notes:						

The unit was calibrated and checked under good working condition

**Next calibration due on or before 27 July 2022

Serviced by Rotter International Ltd

Honeywell Protection Through Detection 1349 Moffett Park Drive,

1349 Moffett Park Drive, Sunnyvale, CA 94089 USA Main: 408-952-8200

www.raesystems.com

Calibration and Test Certificate

Product Name:

Model Number:

Serial Number:

MultiRAE Lite PGM-6208 M01C031772 6/4/2021

Calibration Gases:

Calibration/Inspection Date:

#	Gas	Concentration	Balance	Lot#
1	Hydrogen Sulfide(H ₂ S)	10ppm		
2	Carbon Monoxide(CO)	50ppm	Nitrogen(N2)	20210508
3	Oxygen(O ₂)	18%	_	
4	Methane(CH ₄)	50%LEL		
5	Sulfur Dioxide(SO2)	5ppm	Nitrogen(N ₂)	20210114
6	Carbon Dioxide(CO2)	5000ppm	Nitrogen(N2)	20201203

Test Results:

#	Sensor	Span	UOM
1	LEL	51	%LEL
2	SO,	5.2	ppm
3	COSH (H2S / CO)	10.1/51	ppm
4	Pb O,	17.8	. %
5	CO ₂	4900	ppm

This instrument has been calibrated using valid calibration gases and instrument manual operation procedures. Test and calibration data is on file with the manufacturer, RAE Systems.

Approved By:



		Ca	libration C	Cert	ificate		GDJ	7
	Cer	t. Ref. No.: BW/	XT/4TH/16428	Date	: 2021 06	08 🧧	×12-081	106/202
Customer:	Victory Trenchless E	ngineering Co., Ltd.		Pur	chase Order N	lo.: P-17-048	3	
	Lot 1477B, 77 Ping Che,			l net				
				Date 2017 11 09 INVOICE NO: AP Email: emily@vtechk.com				
Fanling, N.T.								
Attn:	Ms Emily Fung	Tel: 35	25 8826	Fax: 3525 1088			Mobile Phone	
User Detail	ls:							
Gas Detect Calibration	or Model: XT-XW Record:	HM-Y-OR	Serial No.: MA217-0)22158	Pu	Imp S/N: 563	310]
	Inpectio	n before calibrat	tion		Visual in	spection	Fund	tional Test
Basic Unit	- Case, Clip & Dis	splay etc.			0	K		OK
Battery an	d charge etc.				0	K		OK
Motorized	Pump				0	K		OK
Other item	s							
Т	ype of Sensor			Expiry Date				
Oxygen Se	ensor							
CO & H2S :	Sensor							
Combustib	ele(LEL) Sensor							
Туре о	f calibration	Date of calibratio	n H2S (ppm)		CO (ppm)	0	2 (%)	LEL (%)
th Calibratio	di i	2021 06 08	25		100	1	18	50
	Result of Calib	oration	ок		ок о		ок	ок
Calibration	n Cost: (As per a	ttached invoice)	F.O.C]				
alibration	remarks: Oxygen s Warranty	ensor replaced by new : Oxygen Sensor 1 yes	v one ars warranty					
	L,							
Next cali	bration date o	of this instrum	ent will be :	202	2 0	6 08		
		IMPORTANT	NOTES TO BY	V GA	S DETECT	OR USER	s	
JSERS MU			MANUAL THORO					UIPMENT
			PERVISOR'S INST					
All gas dete	ection instrument	ation on the mark	cet requires periodi	c calib	pration to accu	irately meas	ure gas. Calil	bration is only
S.T. Stand	lards.	eu. Dw Technolo	ogies quality test g	ases ar	e made to the	nignest acc	uracy and tra	ce-ability to N.
on our	and Mild's		and and					
Calibrate	d By:	Sara Tse	Service	ne Hot	line: 2592 21	20 Me Te	e - Service F)ent
vanistate	d by.	Jaia 150	Gervic	Je not	. 2002 Z	LU NIS. 15	e - Gervice L	Johr.
Asi	a Pacific I	ndustrial S	Safety Equi	pme	ent	Asia T	echnolog	ies
	Unit B, 1/F.	, Hing Yip Centre, 3	31 Hing Yip Street,				臣洲科技	
		In Tong, Kowloon, I 1:2592 2100 Fax: 3				-		