

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

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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 | | | | - | | |