Certificate of Calibration

Calibration and Voltage Plateau

Environmental Restoration Group, Inc.
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Meter/Detector: Manufacturer: Ludlum Model Number: 2929 & 43-10-1 Serial Number: 157320 & PR157821

- [x] Mechanical Check
- [ ] F/S Response Check
- [ ] Geotropism
- [ ] Meter Zeroed
- [x] THR/WIN Operation
- [ ] Reset Check
- [x] Audio Check
- [ ] Battery Check (Min 4.4 VDC)

HV Check (+/- 2.5%): [x] 500 V [x] 1000 V [x] 1500 V

Cable Length: [x] 39-inch [ ] 72-inch [ ] Other:

Source Distance: [ ] Contact [ ] 6 inches [x] Other: In planchet

Source Geometry: [ ] Side [ ] Below [x] Other: In planchet

Alpha Threshold: 170 mV Barometric Pressure: 24.36 inches Hg

Beta Threshold: 4 mV Temperature: 76 °F

Beta Window: 46 mV Relative Humidity: 20 %

Instrument found within tolerance: [x] Yes [ ] No

Range/Multiplier	Reference Setting	Integrated 1-Min. Count "As Found" α	Integrated 1-Min. Count "As Found" β	Integrated 1-Min. Count "Reading" α	Integrated 1-Min. Count "Reading" β
x 1000	400 Kcpm	398969	398972	398969	398972
x 100	40 Kcpm	39898	39898	39898	39898
x 10	4 Kcpm	3989	3990	3989	3990
x 1	400 cpm	399	399	399	399

High Voltage	Pot. Setting	Alpha Source α	Alpha Source β	Beta Source α	Beta Source β	Background α	Background β
650	3.68	4251	299	9	2442	4	37
700	3.86	4507	306	11	3180	1	62
750	4.06	4945	579	10	4126	6	79
800	4.26	4934	930	7	5023	4	92

Comments: HV Plateau Scaler Count Time = 1-min. Recommended HV = 700, Pot. setting = 3.86

Reference Instruments and/or Sources:

Ludlum pulser serial number: [ ] 97743 [x] 201932

Fluke multimeter serial number [ ] 87490128

[x] Alpha Source: Th-230 @ 12,800 dpm (1/4/12) sn: 4098-03

[ ] Gamma Source Cs-137 @ 5.2 uCi (1/4/12) sn: 4097-03

[x] Beta Source: Tc-99 @ 17,700 dpm (1/4/12) sn: 4099-03

[ ] Other Source:

Calibrated By: [signature]

Calibration Date 5-16-16 Calibration Due: 5-16-17

Reviewed By: T. [signature]

Date: 5/16/16

ERG Form ITC. 101.D

This calibration conforms to the requirements and acceptable calibration conditions of ANSI N323A - 1997