

903 East Hazelwood Avenue  
Rahway, New Jersey 07065  
Phone: (732) 382-3553  
Fax: (732) 382-8840

## U.S. Laboratories



U.S. LABS

29-30107-01  
030-33387  
3004-001

To: KATHY DOLCE MODES From: MARTIN MYGRANT

Fax: 610 337 5269 Pages:

Phone: 610 337 5251 Date: 10.26.04

Re: AUDIT RESPONSE CC:

☒ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

### ● Comments:

KATHY, IT WAS NICE TALKING  
TO YOU THIS MORNING.  
GIVE ME A CALL ON MY CELL  
THIS AFTERNOON IF YOU DON'T  
GET EVERYTHING.

MARTIN  
*[Signature]*

NRC-002

000 26 04 01:11P

# HUMBOLDT SCIENTIFIC, INC. RALEIGH NC 27606 USA

UNITS: PCF

GAGE MODEL: H5001C SER: 2072

CALIB DATE: 02/28/02

CALIB BAY: 1

SOURCE TYPE: GAMMA NEUTRON

STD COUNT

DENSITY: 3771.5

SERIAL: 2824GQ NJ02112

MOISTURE: 504.1

## \*\* DENSITY CALIBRATION DATA \*\*

DEPTH	MAGNESIUM 110.8	MAGN/ALUM 138.8	ALUMINUM 169.1	LIMESTONE 135.3	GRANITE 164.1
BS	1561.4	1104.8	804.9	1002.4	793.9
2	5628.9	3955.4	2674.0	3639.3	2637.8
4	5218.0	3324.6	1965.7	3022.2	1962.7
6	4330.2	2506.4	1339.7	2276.0	1311.4
8	3232.0	1712.1	836.7	1553.1	829.1
10	2213.2	1070.4	513.0	985.9	503.3
12	1446.6	664.0	340.2	613.4	317.9

## \*\* DENSITY PERFORMANCE at 2000 kg/m<sup>3</sup> [125 pcf] \*\*

DEPTH	A	B	C	CR	PREC	CE	RMSE
BS	2.43603	0.01904	-0.09755	1.77	0.54	3.25	3.42
2	6.42578	0.01322	0.06971	1.49	0.27	2.56	2.62
4	8.21548	0.01560	0.14998	1.60	0.22	2.57	2.61
6	10.41548	0.01996	0.06651	1.82	0.21	1.90	1.95
8	11.64099	0.02387	0.02636	2.05	0.22	1.88	1.92
10	14.69959	0.03012	-0.02269	2.47	0.24	1.33	1.41
12	17.56127	0.03666	-0.04085	3.01	0.29	0.25	0.63

## \*\* MOISTURE CALIBRATION DATA \*\*

LOW W HIGH W

0.0 33.0

20.9 340.5

## \*\* MOISTURE PERFORMANCE at 160 kg/m<sup>3</sup> [10pcf] \*\*

E	F	CR	PREC	RMSE
0.04026	0.01923	3.11	0.28	0.62

## CALIBRATION REPORT

PSI Report No.: 919-007

Report Date: 1/26/01

Page: 1 of 3

### General

On January 8, 2001, Professional Service Industries, Inc. (PSI), Pittsburgh Testing Lab Division, received one (1) moisture density gauge from PSI, Champaign, IL for repair and calibration services.

### Equipment Calibrated

Manufacturer:	Humboldt	Model:	5001C
Serial Number:	2065	Calibration Date:	1/26/01

### Calibration Procedure

Calibration Equipment: Magnesium Block, Serial Number 141  
Magnesium/Aluminum Block, Serial Number 143  
Aluminum Block, Serial Number 142  
Limestone Block, Serial Number 154  
Granite Block, Serial Number 142

The above blocks have been calibrated against standards traceable to the National Institute of Standard and Technology (NIST).

Procedure:	PSI Calibration Procedure 823-818
Room Conditions:	Temperature: 73±3°F, Relative Humidity: 50±10%
Requirements:	+/- 1 lbf/cu.ft.

### Conclusion

The Humboldt Gauge, Model 5001C, Serial Number 2065 **MEETS** PSI Gauge Calibration Procedure 823-818, Section 01, and ASTM D2922, D2950, and D3017 specifications.

Re-calibration due date: 1/26/02

Respectfully submitted,  
Professional Service Industries, Inc.



Chris Ralston  
Technician, Electrical

This report relates only to the item calibrated. This report shall not be reproduced except in full, without the written approval of Professional Service Industries, Inc.