

### Northeast Region

76 South Orange Avenue

Suite 107

South Orange, NJ 07079 Tel: (973) 394-1330

Fax: [973] 394-1331

Email: hbi@hbiamerica.com Web Site: www.hbiamerica.com

IAQ Consulting Excellence Since 1980

## EQ Credit 3.2: Construction IAQ Management Plan, Before Occupancy, Option B

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DEAN TYLER , declare that after construction ends and prior to occupancy, baseline IAQ testing, using protocols consistent with the U.S. Environmental Protection Agency "Compendium of Methods for the Determination of Air Pollutants in Indoor Air" and as additionally detailed in the CI Reference Guide, has been conducted and that all areas tested do not exceed the maximum allowable concentration limits as follows:

Contaminant	Maximum Concentration
Formaldehyde	50 parts per billion
Particulates (PM10)	50 micrograms per cubic meter
Total Volatile Organic Compounds (TVOC)	500 micrograms per cubic meter
* 4-Phenylcyclohexene (4-PCH)	6.5 micrograms per cubic meter
Carbon Monoxide (CO)	9 part per million and no greater than 2 parts per million above outdoor levels

AND

I have attached a copy of the IAQ testing results for each area tested identifying the EPA testing method used.

AND/OR if alternative testing protocols are used

I have attached a copy of the documentation and rationale demonstrating that the measured results meet the intent of the EPA testing methods.

AND I confirm that:

All measurements were conducted

prior to occupancy

during normal occupied hours

with the building ventilation system starting at the normal daily start time with the building ventilation system operated at the minimum outside air flow rate

for the occupied mode throughout the duration of the air testing

X

The building shall have all interior finishes installed, including but not limited to millwork, doors, paint, carpet and acoustic tiles. Non-fixed furnishings such as workstations and partitions are required to be in place for the testing.

For each portion of the building served by a separate ventilation system, the number of sampling points was not less than one per 25,000 ft2, or for each contiguous floor area, whichever is larger, and included areas with the least ventilation and greatest presumed source strength.

Air samples were collected between 4 feet and 7 feet from the floor to represent the breathing zone of occupants and over a minimum 4 hour period.

**Points Documented** 

EQ Cr 3.2 Option B (1 point): Construction IAQ Management Plan, Before Occupancy

Name:

Organization:

HEALTHY BUZLOWUS INTL.

Role in project:

Signature:

Date:

LEED C



Integrated IAQ, Engineering & Commissioning Services to meet the consulting requirements of the U.S. Green Building Council's LEED™ rating system





### **ANALYTICS CORPORATION**

Concentration Analysis

10329 Stony Run Lane Ashland, Virginia 23005 804-365-3000 Phone 800-888-8061 Phone 804-365-3002 Fax www.analyticscorp.com

Group No. Account No.

M246-012 29819025

Report Date: 09/03/08

DEAN TYLER HEALTHY BUILDINGS INTERNATIONAL SUITE 107 76 SOUTH ORANGE AVENUE SOUTH ORANGE, NJ 07079

\*\*\*\* FINAL REPORT \*\*\*\*

Date Received: 09/02/08

Sample Type: 2 - Air Sample(s)

Volume

Project: 0808029N

PO Number:

Amount

Analytical Results

Lab Parameter

	1
-001 #1- DUST Samp Date: 08/29/08 PW PTFE(225-1709),2UM,37MM - PM10 Part 2430 L < 100 ug 100 ug < 41 ug/M3 No field blank submitted with sample.	09/02/08

LOQ

-002	#T- HCHO	samp Da	.te: 08/	29/08	DNPH	-Silica	Gel	with (	)3 Scrubbe	r
-	HCHO-Fron	.t		0.792	ug	.4 ug				09/03/08
****	HCHO-Rear			ND		.4 ug				09/03/08
-	HCHO-Tota	.1	49.5 L	0.792	ug	.4 ug		0.013	3 ppm	09/03/08

Abbreviations: uq = micrograms, mq = milligrams, mq/M3 = milligrams per cubic meter of air, g = grams, ug/M3 = micrograms per cubic meter of air, L = liters, all Volumes given in liters, ppm = parts per million, ppb = parts per billion, Areas given in square feet; ND = Not Detected; ug/wp = ug/wipe; NVG = No Volume Given. NAG = No Area Given, LOQ = Limit of Quantitation.



### **ANALYTICS CORPORATION**

10329 Stony Run Lane Ashland, Virginia 23005 804-365-3000 Phone 800-888-8061 Phone 804-365-3002 Fax www.analyticscorp.com

Group No. M246-012 Account No. 29819025 Report Date: 09/03/08

DEAN TYLER
HEALTHY BUILDINGS INTERNATIONAL
SUITE 107
76 SOUTH ORANGE AVENUE
SOUTH ORANGE, NJ 07079

Final Report

Summary of Analytical Methods		
Compound Name	Analytical Method	Abbreviation
Formaldehyde PM10 Particulates	NIOSH 2016 EPA IP-10A	HCHO PM10 Part

Notes

Results provided in this report relate only to the items tested.

Attached are the results we obtained on the analysis of your samples. Any Chains-of-Custody associated with this sample group are also enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical Air Volumes for passive monitors are calculated using the sampling time submitted and the manufacturer's listed sampling rate for each compound.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for that analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on the final page of this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our client services department (800-888-8061).

James A. Calpin, CI Laboratory Director

End of Report Page 2

# LABORATORY TEST REQUEST

Do you want to print a test (Y/N)? N HEALTHY BUILDINGS INTERNATIONAL

SUITE 107

76 SOUTH ORANGE AVENUE SOUTH ORANGE, NJ 07079

Phone: 973-394-1330 Fax: 1-973-394-1331

PROJ#: 29819025

ANALYTICS

10329 Stony Run Lane Ashland, VA 23005 (804) 365-3000 TOLL FREE (800) 888-8061 FAX (804) 365-3002

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DATE SHIPPED	# OF SAMPLES	SAMPLE TYPE/		PROJECT NA		
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			SIGNATURE	(LAD)		SIGNATURE(LAB)

# MARYLAND SPECTRAL SERVICES, INC.

1500 Caton Center Drive Baltimore, MD 21227

### VOLATILE ORGANICS BY EPA GC/MS METHOD IP-1B

CLIENT SAMPLE ID:	0808029N-1 13F-NE-PERIM	HBIBLK0903D1	
LAB SAMPLE ID: SAMPLE DATE:	08/29/08	METHOD BLANK	
RECEIVED DATE:	09/02/08	00,407,400	
ANALYSIS DATE:	09/03/08	09/03/08	
FILE NAME:	090201 MSD	0903HBIBLK MSD	
INSTRUMENT ID: MATRIX:	AIR	AI <u>R</u>	
UNITS:	ug/M <sup>3</sup>	ug/M <sup>3</sup>	
VOLATILE COMPOUNDS	ug/ n	ug/ H	
Benzene	1.0 U	1.0 U	
Carbon Disulfide	1.0 ປ	1.0 U	
Carbon Tetrachloride	1.0 U	1.0 U	
Chlorobenzene	1.0 U	1.0 U	
Chloroethane	2.1 U	2.0 U	
Chloroform	1.0 U	1.0 U	
1,4-Dichlorobenzene	1.0 U	1.0 U	
1,1-Dichloroethane	1.0 U	1.0 U	
1,2-Dichloroethane	1.0 U	1.0 U	
1,1-Dichloroethene	1.0 U	1.0 U	
Ethylbenzene <sup>-</sup>	1.5	1.0 U	
Limonene	1.9	1.0 U	
Naphthalene	2.1	1.0 U	
4-Phenylcyclohexene	1.0 U	1.0 U	
alpha-Pinene	1.0 U	1.0 U	
Styrene	1.0 U	1.0 U	
Tetrachloroethene	1.0 U	1.0 U	
Toluene	11	1.0 U	
1 1 1-Trichlenesthere	1.0 U	1.0 (	
1,1,1-Trichloroethane Trichloroethene	1.0	1.0 U 1.0 U	
112-Trichlorotrifluoroethane	1.0 U	1.0 U	
1,2,4-Trimethylbenzene	1.2	1.0 U	
1,3,5-Trimethylbenzene	1.0 U	1.0 U	
Vinyl Chloride	2.1 U	2.0 U	
Villy Cartor ide	2.7 0	2.0 0	
Xylene (total)	7.8	1.0 U	•
Aliphatic Hydrocarbons	76	10 U	
Total VOCs (BP 80-200)	122	10 U	

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1055 Parsippany Blvd, Suite 102 Parsippany, NJ 07054 Phone 973.394.1330 FAX 973.394.1331 E-mail dtyler@hbiamerica.com

# TVOC/4-Phenylcyclohexene SAMPLE COLLECTION & CHAIN OF CUSTODY FORM

Client: ING

Job #: 0808292

Volume 24.23 (liters) 4:05 Stop | Total 17:71 Start Time 8:12 2.50 Avg 99.7 Begin | End Analysis | Collection | Flow Rate Lab= MARKIND SPECTURE 40.86 876 E-11759 Media # 0 ER4-CP-18 Type Pump Code Address: 230 PARK Avenue 134 NE PENMONON OFFICE, E. STEWEKF Location description STEWEKE 08-0902-01 Sample :: 8

Received at Lab by: \_ Date: Name of Lab: MAKYUNO SPECTURE Shipped via: たのふん

Date: 3/29/08

Date:

Signed:

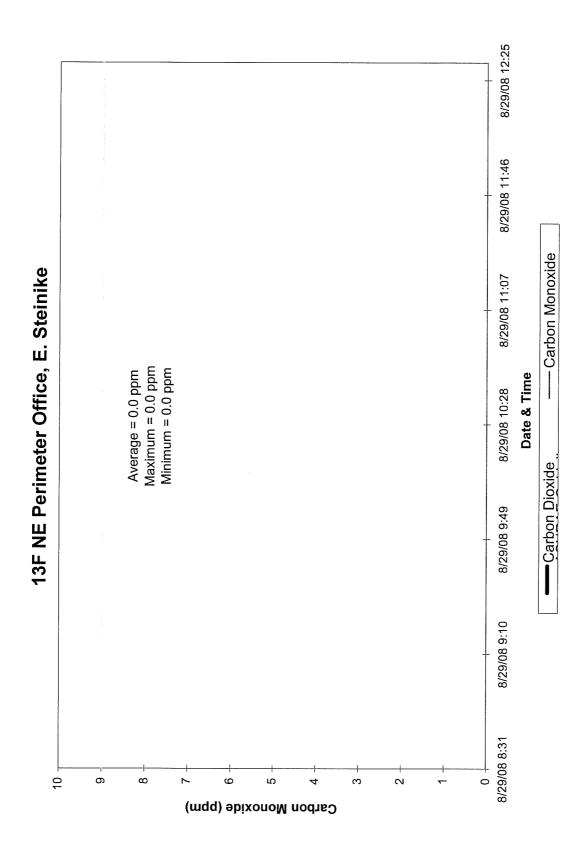
Samples collected by: Law Trich

Transferred to HBI lab tech:

Signed

Signed:

Date: 9/2/08





# LEED CI Version 2.0 Credit EQ-3.2 Field Work Sheet (one sheet for each area tested)

Client: ING (	Clarion Realty	/ Serv	ices		, 2	<b>~</b>			Job#: 080	)8029N
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Job dates (p	eriod work p	erforn	ned): From	_2/.	28to_			( <	5 FLOOK 1574	s, Dovc
Description	of and size o	f area	: <u>New Ko</u>	UNITE	DN, & CAVE	200 F	Everner	en Otte	C3 314	7
, ONE CO	Nouveric K	en e	1 DUC 13	PROHK	OUT DOWN	4 Apr	ww Ri	ons,	1 CMGG	Peril
Are all furnis	shings install	led pe	r LEED CI S	Standa	rds: YES _	<u>X</u>	NO			
Briefly expla	ain HVAC sys	tem a	nd unit or ເ	ınits s	erving the are	ea to be	tested	:		
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Instrument	Manufactur	er	Serial#		Start	Stop		Max	Min	Avg
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HBI Technic	ian: <u>LEA</u>	J 10	7137			<del>\</del>	+			
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# TSI<sub>®</sub> $\equiv$

# CERTIFICATE OF CALIBRATION AND TESTING

TSI Model	8551	TSI Serial No <i>50571</i>
Description		Q-Trak Indoor Air Quality Meter

	CALIBRATION V	/ERIFICATION	RESULTS =====	
Calibration <u>Standard</u>	Instrument Output	Difference -1	Difference as a Percent of Tolerance 00% 0	+100%
496 ppm 1194 ppm 3068 ppm	481 ppm 1214 ppm 3030 ppm	-3.02 % 1.68 % -1.24 %	* • • * * •	
50.0°F (10.0°C) 104.0°F (40.0°C)	49.8°F (9.9°C) 104.2°F (40.1°C)	-0.2°F (-0.1°C) 0.2°F (0.1°C)	* •	
34.1 %rh 73.2 %rh 55.1 %rh 18.7 %rh	33.4 %rh 72.0 %rh 53.7 %rh 18.7 %rh	-0.7 %rh -1.2 %rh -1.4 %rh 0.0 %rh	* • * • * •	
36 ppm 102 ppm	37 ppm 101 ppm	1 ppm -1 ppm	• * * •	

Tolerance

CO2:  $\pm 3\%$  of reading  $\pm 50$ ppm

Temperature:  $\pm 1.0$ °F ( $\pm 0.6$ °C) Humidity:  $\pm 3.0\%$  rh

CO:  $\pm 3\%$  of reading or  $\pm 3ppm$ , whichever is greater

Calibration Environment -

Ambient Temperature: 73.4 °F (23.0 °C)

Barometric Pressure: 726.5 mmHg

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. Furthermore, all test and calibration data supplied by TSI has been obtained using standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. Calibration procedures for this instrument comply with MIL-STD-45662A with an exception of the humidity calibration standard which has a calibration accuracy ratio of 2:1 with respect to the accuracy specifications of the instrument.

# Applicable Test Report

Barometric Pressure Temperature

(-8-32°C) (25-55°C)

Dew Point

Date Last Verified

05-04-07 01-23-07

01-23-07

09-29-06

Function Check

APR 11, 2008

Calibration Date TSI Incorporated

Mailing Address: P.O. Box 64394 St. Paul, MN 55164 USA Shipping Address: 500 Cardigan Road St. Paul, MN 55126 USA Phone: (800) 926-8378 or (651) 490-2760 Fax: (651) 490-2704

### AS FOUND STATUS **TSI**<sub>®</sub> <u>∃</u>

8551 TSI Model TSI Serial No. 50571

Q-Trak Indoor Air Quality Meter Description

# = CALIBRATION VERIFICATION RESULTS=

	CILDIDIGITION	, Didi tollioli	TUDOLIO-	1
Calibration <u>Standard</u>	Instrument Output	Difference -10	Difference as a Percent of Tolerance 00% 0	+100%
496 ppm 1194 ppm 3003 ppm	638 ppm 1255 ppm 2978 ppm	28.63 % 5.11 % -0.83 %	* •	*
50.0°F (10.0°C)	50.2°F (10.1°C)	0.2°F (0.1°C)	• *	
72.6 %rh 18.5 %rh	72.4 %rh 19.0 %rh	-0.2 %rh 0.5 %rh	*• • *	
36 ppm 102 ppm	*27 ppm 76 ppm	-9 ppm -26 ppm	.•	

Tolerance

- Calibration Environment

CO2:  $\pm 3\%$  of reading  $\pm 50$ ppm Temperature:  $\pm 1.0$ °F ( $\pm 0.6$ °C)

Humidity:  $\pm 3.0\%$  rh

CO:  $\pm 3\%$  of reading or  $\pm 3ppm$ , whichever is greater

Ambient Temperature:

73.4 °F (23.0 °C)

Barometric Pressure:

739.9 mmHg

# Applicable Test Report

Barometric Pressure (-8-32°C) (25-55°C) Temperature

Dew Point

Date Last Verified

05-04-07 01-23-07 01-23-07 09-29-06

APR 9, 2008

Test Date

Mailing Address: P.O. Box 64394 St. Paul, MN 55164 USA Shipping Address: 500 Cardigan Road St. Paul, MN 55126 USA Phone: (800) 926-8378 or (651) 490-2760 Fax: (651) 490-2704

TSI Incorporated

# CERTIFICATE OF CALIBRATION AND TESTING

TSI Model 8762

TSI Serial No. 54060147

Description IAQ Meter with CO2 and CO

Calibration Standard Multi-Gas Calibration Bench #127

Calibration Standard	— CALIBRATION  Instrument Output	Difference	Error Compared to Tole	
			Limit- 0	Limit +
5009 PPM	5026 PPM	0.3 %	. *	
3000 PPM	3006 PPM	0.2 %	.*	
1000 PPM	1004 PPM	4 PPM	.*	
500 PPM	473 PPM	-27 PPM	* .	
0 PPM	-12 PPM	-12 PPM	* .	
140.0°F	140.0°F	0.0°F	*	
41.0°F	41.4°F	0.4°F	. *	
15.0 %rh	16.0 %rh	1.0 %rh	*	
30.0 %rh	30.8 %rh	0.8 %rh	. *	
50.0 %rh	51.0 %rh	1.0 %rh	: *	
70.0 %rh	70.8 %rh	0.8 %rh	. *	
90.0 %rh	90.3 %rh			
0.0 PPM		0.3 %rh	. *	
	1.3 PPM	1.3 PPM	*	İ
100.0 PPM	99.1 PPM	-0.9 용	* -	
			•	
			Tolerance Limits:	

CO2: 50PPM or 3% of reading

rh: ± 3%rh

Temp: ± 1°F CO: 3PPM or 3% of reading

TSI Incorporated does hereby certify that the above described instrument conforms to the original manufacturers specifications (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology within the limitations of NISTs calibration services or have been derived from accepted values of natural physical constants or have been derived by the ratio type of self calibration techniques. The calibration ratio for this instrument is at least 6.7:1 for barometric pressure and 3:1 for differential pressure. TSIs calibration system meets ISO-9001:2000 and completes with ISO 10012:2003, Quality Assurance Requirements for Measuring Equipment. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Applicable Test Report	Report Number	Date Last Verified
DC Voltage Barometric Pressure Pure Nitrogen CO2 1000 PPM in N2 CO2 5000 PPM in N2 Temperature 0 C Temperature 60 C Humidity CO 200 PPM in N2	E001550 E001992 NI34380 CC174496 0301SA08 E000822 E001806 E002008 EB0006918	10-10-07 10-29-07 02-04-08 05-15-07 03-07-07 10-11-07 10-11-07 10-02-07 03-18-08
¥.		

Function Check

Apr 15, 2008 Calibration Date

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 800-874-2811 651-490-2874 FAX: 651-490-2121 www.tsi.com

# TSI CERTIFICATE OF CALIBRATION AND TESTING

TSI Model	8762				TSI	Serial	No. 5	40	6014	17		
Description_	IAQ Me	eter	with (	CO2	and	CO					 	
Calibration St	tandard	Mult	i-Gas	Cal	ibra	tion	Bench	#	127			 

ourioution Standard		Calibration			
C 117	= CALIBRATIO	ON VERIFICA	ATION R	ESULTS=====	
Calibration Standard	Instrument	Differ	ence	Error Compared to Tole:	rance
<u> </u>	<u>Output</u>		— Limii		Limit+
5009 PPM	5680 PPM	13.4 %		_	₩
3000 PPM	3290 PPM	9.7 %			<b>‡</b>
1000 PPM	934 PPM	_	PM X		1
500 PPM	356 PPM	-144 P			
0 PPM	-9 PPM	-9 P		* .	
140.0°F	140.0°F	0.0°F	F 1.1	*	
41.0°F	41.2°F	0.2°F		- *	
10.0 %rh	10.4 %rh	0.4 %	rh	• *	
30.0 %rh	29.6 %rh	-0.4 %		* .	
50.0 %rh	49.7 %rh	-0.3 %	T I	*.	
70.0 %rh	69.7 %rh	-0.3 %		*.	
90.0 %rh	90.0 %rh	0.0 %:	- 1	*	
0.2 PPM	0.0 PPM	-0.2 P		*.	1
100.0 PPM	72.3 PPM	-27.7		•	
	W. 1000 1000 1000 1000 1000 1000 1000 10			•	
***** AS	FOUND DATA	*****			ļ
	ALIBRATION	CHECK)			
			L.		
				Tolerance Limits:	
				OPPM or 3% of reading	
			rh: ± 3     Temp: ±		
				PM or 3% of reading	
				of catalog	

TSI Incorporated does hereby certify that the above described instrument conforms to the original manufacturers specifications (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology within the limitations of NISTs calibration services or have been derived from accepted values of natural physical constants or have been derived by the ratio type of self calibration techniques. The calibration ratio for this instrument is at least 6.7:1 for barometric pressure and 3:1 for differential pressure. TSIs calibration system meets ISO-9001:2000 and complies with ISO 10012:2003, Quality Assurance Requirements for Measuring Equipment. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Applicable Test Report	Report Number	Date Last Verified
DC Voltage	E001550	10-10-07
Barometric Pressure	E001992	10-29-07
Pure Nitrogen	NI34380	02-04-08
CO2 1000 PPM in N2	CC174496	05-15-07
CO2 5000 PPM in N2	0301SA08	03-07-08
Temperature 0 C	E000822	10-11-07
Temperature 60 C	E001806	10-11-07
Humidity	E002008	10-02-07
CO 200 PPM in N2	EB0006918	03-18-08
Calibrated by	Final Function Check	Apr 9, 2008 Calibration Date

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 800-874-2811 651-490-2874 FAX: 651-490-2121 www.tsi.com