Mr. Dave Gutterud
Indoor Environment Group
2487 7th Ave. E
North St. Paul, MN 55109

December 31, 2013

DOH ELAP# 11626 Account# 23406 Login# L307847
AIHA # 100324

Dear Mr. Gutterud:

Enclosed are the analytical results for the samples received by our laboratory on December 20, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Patty Gregorich at (888)-432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

Mary G Unangst

Mary G. Unangst
Laboratory Director

Enclosure(s)

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : Indoor Environment Group
Site : Scandia
Project No. : 4055-002

Date Sampled : 17-DEC-13
Date Received : 20-DEC-13
Date Analyzed : 27-DEC-13
Report ID : 813160

Account No.: 23406
Login No. : L307847

Diesel Particulate Matter as Carbon

Sample ID	Lab ID	Air Vol liter	Analyte	Total ug	Conc ug/m3
DP1-01	L307847-6	871.2	Organic Carbon	15	18
			Elemental Carbon	<3	<3
			Total Carbon	15	18
DP2-01	L307847-7	861.3	Organic Carbon	15	17
			Elemental Carbon	<3	<3
			Total Carbon	15	17
DP3-01	L307847-8	847.4	Organic Carbon	12	14
			Elemental Carbon	<3	<3
			Total Carbon	12	14
DP4-01	L307847-9	859.3	Organic Carbon	14	16
			Elemental Carbon	<3	<3
			Total Carbon	14	16

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 3ug OC & EC; 5ug TC
Analytical Method : mod. NIOSH 5040; TOA
OSHA PEL : NA
Collection Media : 37mm QtzFt

Submitted by: JAR
Approved by : JGC
Date : 31-DEC-13 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

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Report ID : 813160

Account No.: 23406
Login No. : L307847

Diesel Particulate Matter as Carbon

Sample ID	Lab ID	Air Vol liter	Analyte	Total ug	Conc ug/m3
DP5-01	L307847-10	847.4	Organic Carbon	13	15
			Elemental Carbon	<3	<3
			Total Carbon	13	15

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 3ug OC & EC; 5ug TC
Analytical Method : mod. NIOSH 5040; TOA
OSHA PEL : NA
Collection Media : 37mm QtzFt

Submitted by: JAR
Approved by : JGC
Date : 31-DEC-13 NYS DOH # : 11626
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NA -Not Applicable
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Client : Indoor Environment Group
Site : Scandia
Project No. : 4055-002

Date Sampled : 17-DEC-13
Date Received : 20-DEC-13
Date Analyzed : 23-DEC-13
Report ID : 812689

Account No.: 23406
Login No. : L307847

Nitrogen Dioxide

Sample ID	Lab ID	Time minutes	Total ug	Conc mg/m3	ppm
NO1-01	L307847-11	444	<0.5	<0.06	<0.03
NO2-01	L307847-12	437	<0.5	<0.06	<0.03
NO4-01	L307847-13	428	<0.5	<0.07	<0.03
NO5-01	L307847-14	427	<0.5	<0.07	<0.03

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.5 ug
Analytical Method : In-house: IC-SOP-14; IC
OSHA PEL : 5 ppm CEIL
Collection Media : 500-200

Submitted by: tmk
Approved by : dnf
Date : 31-DEC-13 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

LABORATORY ANALYSIS REPORT

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Client : Indoor Environment Group
Site : Scandia
Project No. : 4055-002

Date Sampled : 17-DEC-13
Date Received : 20-DEC-13
Date Analyzed : 23-DEC-13 - 27-DEC-13
Report ID : 812461

Account No.: 23406
Login No. : L307847

Respirable Dust and Crystalline Silica: Quartz

Sample ID	Lab ID	Analyte	Air Vol l	mg	%	mg/m3	Dust P E L mg/m3
RD1-01	L307847-1	Dust	1074.06	<0.050		<0.047	5.0
		Quartz	1074.06	<0.010	ND	<0.0093	
RD2-01	L307847-2	Dust	1061.91	<0.050		<0.047	5.0
		Quartz	1061.91	<0.010	ND	<0.0094	
RD3-01	L307847-3	Dust	1040.04	<0.050		<0.048	5.0
		Quartz	1040.04	<0.010	ND	<0.0096	
RD4-01	L307847-4	Dust	1054.62	<0.050		<0.047	5.0
		Quartz	1054.62	<0.010	ND	<0.0095	
RD5-01	L307847-5	Dust	1032.75	<0.050		<0.048	5.0
		Quartz	1032.75	<0.010	ND	<0.0097	

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: Dust 0.050mg Q:0.010mg
Analytical Method : mod. NIOSH 0600/7500/mod. OSHA ID-142; Gr
OSHA PEL : see 1910.1000 (Table Z-3)
Collection Media : PVC PW

Submitted by: MNS/AJD/LCC
Approved by : KRK
Date : 30-DEC-13 NYS DOH # : 11626
QC by: Tony D'Amico

< -Less Than
> -Greater Than
NA -Not Applicable
mppcf -Million Particles per Cubic Foot
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

LABORATORY FOOTNOTE REPORT

6601 Kirkville Road
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Client Name : Indoor Environment Group
Site : Scandia
Project No. : 4055-002

Date Sampled : 17-DEC-13
Date Received: 20-DEC-13
Date Analyzed: 23-DEC-13 - 27-DEC-13

Account No.: 23406
Login No. : L307847

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L307847 (Report ID: 813160):
SOPs: ic-n5040(16)

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Diesel Particulate Matter as Carbon	+/-7.1%	102%

L307847 (Report ID: 812689):
SOPs: IC-SOP-14(6)
Total ug corrected for a desorption efficiency of 102%.

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Nitrogen Dioxide	+/-16.7%	100%

L307847 (Report ID: 812461):
Dust analytical accuracy is within +/- 0.010 mg (95% confidence interval or k=2). The estimated uncertainty applies to the media, technology, and SOP(s) referenced in this report and does not account for any uncertainty associated with the sampling process.
SOPs: GRAV-SOP-5(5), GRAV-SOP-6(4), ix-calibrate(8), ix-xrdashprep(19), ix-xrdreview(9), ix-xrdstdprep(20)

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Quartz	+/-13.4%	95.1%

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	

GALSON LABORATORIES

6601 Kirkville Rd
East Syracuse, NY 13057-9672
Tel: 315-432-5227
888-432-5227
Fax: 315-437-0571
www.galsonlabs.com

☐ New Client?

Client Account No.*: DNA 23406

Report To*: DAVE GUTTERUD
INDOOR ENVIRONMENT GROUP
2487 7TH AVE E
NORTH ST PAUL MN 55109

Phone No.*: 651-779-4300 x6

Cell No.: 651-333-0065

Email Results To: DAVE GUTTERUD

Email Address: DAVE@INDOORWEB.COM

Invoice To*: SAME

Phone No.:

Email:

Purchase Order No.: 4055-002

Credit Card: ☐ Credit Card on File ☐ Call for Credit Card Info

☒ Samples submitted using the FreePumpLoan™ Program. ☐ Samples submitted using the FreeSamplingBadges™ Program.

Need Results By*:	(surcharge)
☒ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name: SCANDIA Project: 4055-002 Sampled By: DAVE GUTTERUD

Comments:

List description of industry or process/interferences present in sampling area:

State samples were collected in (ex. NY):

Please indicate which OEL this data will be used for: ☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA ☐ MSHA ☐ Other (specify):

Sample Identification* (Maximum of 20 characters, ID's longer than 20 characters will be abbreviated.)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Volume, Sample Time, or Sample Area*	Sample Units*: L, ml, min., in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (ex. welding, plating, painting, etc.)*
Example	01/01/11	2pc UW PVC	960	L	Hexavalent Chromium (Cr6)	mod. OSHA ID-215	Welding
RD1-01	12/17/13	37mm PVC	1074.06	L	RESP DUST/SILICA	NIOSH 0600/7500	
RD2-01		"	1061.91	L	" CRYSTALLINE QUARTZ	MOD OSHA ID-142	
RD3-01		"	1040.04	L	"	"	
RD4-01		"	1054.62	L	"	"	
RD5-01		"	1032.75	L	"	"	
DP1-01		37mm QFF	871.2	L	DIESEL PARTICULATES	MOD OSHA 5040	(225-401)
DP2-01		"	861.3	L	"	"	
DP3-01		"	847.4	L	"	"	
DP4-01		"	859.3	L	"	"	
DP5-01		"	847.4	L	"	"	

^Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ please indicate if the lower LOQ is required (only available for certain analytes see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date/Time		Print Name/Signature	Date/Time
Relinquished by:	DAVE GUTTERUD	12/18/13 5:17PM	Received by:	C Marchetti	12/20/13 1109
Relinquished by:			Received by:		

Samples received after 3pm will be considered as next day's business.
*Required fields, failure to complete these fields may result in a delay in your samples being processed.

LAB ORIGINAL

Report Reference: Generated:31-DEC-13 16:04

GALSON LABORATORIES

6601 Kirkville Rd
East Syracuse, NY 13057-9672
Tel: 315-432-5227
888-432-5227
Fax: 315-437-0571
www.galsonlabs.com

☐ New Client?

Report To* : Dale Gifford
Indoor Environment Group

Invoice To* :

Client Account No.* : 23406

96

Phone No.* :

Phone No. :

Cell No. :

Email :

Email Results To :

Purchase Order No. :

Email Address :

Credit Card : ☐ Credit Card on File ☐ Call for Credit Card Info

☒ Samples submitted using the FreePumpLoan™ Program. ☐ Samples submitted using the FreeSamplingBadges™ Program.

Need Results By*:	(surcharge)
☒ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name : Project : 4055-002 Sampled By:

Comments:

List description of industry or process/interferences present in sampling area:

State samples were collected in (ex. NY):

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

500-200

Sample Identification* (Maximum of 20 characters, ID's longer than 20 characters will be abbreviated.)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Volume, Sample Time, or Sample Area*	Sample Units*: L, ml, min., in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (ex. welding, plating, painting, etc.)*
Example	01/01/11	2pc UW PVC	960	L	Hexavalent Chromium (Cr6)	mod. OSHA ID-215	Welding
N01-01	12/17/13	N02BADGE	444.0	MIN	NITROGEN DIOXIDE	MOSHA ID-182	(500-200)
N02-01			437.0	MIN	"		
N04-01			428.0	MIN	"		
N05-01			427.0	MIN	"		

^Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ please indicate if the lower LOQ is required (only available for certain analytes see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date/Time		Print Name/Signature	Date/Time
Relinquished by :	Dale Gifford	12/18/13 5:15PM	Received by:	C Marchetti/2	12/20/13 1109
Relinquished by :			Received by:		

Samples received after 3pm will be considered as next day's business.
***Required fields, failure to complete these fields may result in a delay in your samples being processed.**

LAB ORIGINAL

Page 8 of 8 Report Reference:1 Generated:31-DEC-13 16:04