EnviroMed

Cleaner environment. Safer workplaces.

Monthly Compliance Report
Lead Health Protection Program

June 2017

CT Project No. #0063-699-700-701
I-84 over Corner of Capitol Ave. & Laurel Street
Hartford, Connecticut

Blast All, Incorporated

EnviroMed Services Project # IH-17-214

Approved by _____
Lawrence J. Cannon
Certified Industrial Hygienist

7/6/2017
Date

EnviroMed Services, Inc.

CT Project No. #0063-699-700-701
I-84 over Corner of Capitol Ave. & Laurel Street
Hartford, Connecticut

COMPLIANCE REPORT

June 2017

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EnviroMed Services, Inc.

CT Project No. #0063-699-700-701
I-84 over Corner of Capitol Ave. & Laurel Street
Hartford, Connecticut

COMPLIANCE REPORT

June 2017

I. Site Organizational Structure

Overall responsibility for workers health and safety rests with the site's Competent Person for Blast All Incorporated. The Competent Person has the authority to implement the required health and safety programs, initiate any needed disciplinary actions, and to stop any operation, which has not been adequately evaluated or controlled.

Each supervisor of contractor and subcontractor employees is responsible for following the directives of the Competent Persons and ensuring that the workers under his/her supervision follow appropriate procedures as identified in site specific programs and described during site training programs. The EnviroMed site Industrial Hygienist and Certified Industrial Hygienist act as consultants to the Competent Person.

II. Description of Operations

EnviroMed Services, Inc. monitored the following:

- **Needle Gunning Operations**

- **Location: I-84 over Corner of Capitol Ave. & Laurel Street Hartford, Connecticut**

III. Engineering and Work Practice Controls

Engineering and work practice controls were utilized as a means of reducing the workers' exposures to airborne lead dust and fumes prior to placing the workers in respiratory protection.

The proper protective work clothing and the appropriate respiratory protection deemed necessary by the site industrial hygienist were made available to the

workers performing lead work activities. The hand wash facility and shower trailer have been requested to be located adjacent to the job site to enable workers to wash their hands and face before breaks and shower at the end of the work shift.

EnviroMed Services, Inc. representatives observed specific procedures and practices deployed for maintenance of protective equipment and decontamination facilities.

IV. Worker Training

All workers potentially exposed to lead above the action level have participated in the lead health and safety training program.

V. Respiratory Protection Program

Blast All Incorporated and their representatives who will be required to wear respirators have received initial training in the protection factors, uses and limitation of the respirator styles, which have been selected for this project. Negative and positive pressure fit checks were described and demonstrated. During the training program daily inspections of valves, straps, face pieces, and filter cartridges were discussed.

All personnel who are required to wear a respirator have been evaluated by an approved clinic and are medically qualified to wear a respirator. All medical and training records can be found on file at EnviroMed Services Inc. or from the onsite industrial hygienist.

As noted in the respiratory protection program for this site all the employees performing lead related tasks wore the level of protection listed below:

1. Blasting/Support Operations (vacuum blasting or inside a containment): A Bullard Lancer Blast Hood will be utilized during these operations.
2. Raising and Lowering Containment Tarps: A 1/2-face air-purifying respirator with HEPA filters will be worn for this operation.
3. Equipment Operation: A 1/2-face air-purifying respirator with HEPA filters will be worn for this operation.
4. Filters Changing on Dust Collectors: A full-face powered air-purifying respirator with HEPA filters will be worn for this operation.

5. HEPA Needle Gunning, Drilling and Pneumatic Wrench Work on Painted Surfaces: 1/2 face air purifying respirators equipped with HEPA filters such as 3M or Wilson dual cartridge respirators, will be worn during these operations.

6. Torch Cutting, Carbon Gouging, and Welding on Cleaned Steel: for torch cutting operations on cleaned steel (lead previously removed by needle gun or grinder) it is acceptable to perform these operations in 1/2 or full face PAPRs, equipped with HEPA filters.

VI. Medical Surveillance

All workers having the potential to be exposed to airborne lead concentrations above the action level (30 $\mu g/m^3$) participate in a medical surveillance program. The contractor is responsible for all blood lead levels and medical requirements.

VII. Air Monitoring Data

1. Area Air Monitoring

The area exposure monitoring for lead was performed per the National Institute of Occupational Safety and Health (NIOSH) method 7082 with the use of 37 millimeter cellulose filter cassettes attached to the monitoring pump calibrated at a flow rate of between 1 to 2 liters per minute. Samples were placed at breathing zone height to determine the true concentration that employees would incur through inhalation. At the end of sampling period, the monitors were retrieved and the samples were transported to an approved laboratory for analysis. All area air monitoring samples should be below the OSHA action level of 30 micrograms per cubic meter (30 $\mu g/m^3$), and below the OSHA permissible exposure limit (PEL) of 50 micrograms per cubic meter (50 $\mu g/m^3$).

No area air samples were collected or analyzed in June.

2. Personal Air Monitoring

In Reference to OSHA Section 1926.62 personal air monitoring samples must be below the action level of 30 µg/m^3 and below the OSHA PEL of 50 µg/m^3.

Two (2) personal air samples and two (2) field blanks were collected and analyzed during the month of June. Each of the two (2) total personal air monitoring TWA samples measured below the action level of 30 µg/m^3 and also below the permissible exposure limit (PEL) of 50 µg/m^3.

Personal air monitoring results are located in Appendix A.

3. Ambient Air Quality

The National Ambient Air Quality Standard (NAAQS) as stated in 40 CFR 50.12 for lead are limits set by the EPA to protect the health and welfare of the people and the environment. The standard for lead is 0.15 µg/m^3 calculated as a maximum arithmetic mean over a calendar quarter. The State of Connecticut also has an ambient air quality standard for lead stated in 22a-174-24(1). This is set at 3.0 µg/m^3 for lead in a maximum eight-hour period.

There were two (2) ambient air samples collected and analyzed during the month of June. Each of the two (2) samples measured above the NAAQS daily limit of 0.15 µg/m^3, and below the State of Connecticut maximum of 3.0 µg/m^3. However, when the standard for lead (0.15 µg/m^3) is calculated as a maximum arithmetic mean over a calendar quarter considering the amount of days worked, the levels calculated for these operations would be lower than NAAQS established 0.15 µg/m^3 limit.

Ambient air sampling results can be found in Appendix B.

VIII. Surface Dust Samples

Surface dust samples were performed on workers' hands and face, on and associated work equipment to check levels of contamination. The post wipe hand results should be below the established limit of 50 micrograms per square foot (µg/ft^2), and all post wipe equipment results should be below the established limit of 100 µg/ft^2.

Four (4) surface dust samples and two (2) field blanks were collected and analyzed during the month of June. Two (2) of the samples were obtained from decontamination equipment, including the wash shower and wash station. The wipe sample retrieved from the wash station tested well in excess of the established limit of 100 µg/ft^2 for equipment. To promote more effective workplace hygiene, greater attention must be devoted to cleaning the equipment used in the decontamination process following blasting operations.

Two (2) post-wash personal surface dust samples were obtained from the face and hands of Blast All Employees. Of the two (2) samples, the one (1) post-wash hand wipe exceeded the 50 micrograms per square foot limit for personal lead samples. To limit lead exposure and prevent harmful ingestion of lead, greater care must be taken decontamination to remove surface residue on the face and hands.

Surface dust sampling results are located in Appendix C.

IX. Water Samples

The wastewater generated by the decontamination trailers and hand wash facility is stored in 55-gallon drums. When the drums are full, wastewater that potentially contains lead will be sampled and analyzed for lead. If the lead concentration is above 5 ppm or 5 mg/L, the wastewater is a characteristic hazardous waste and must be disposed at a disposal facility licensed under RCRA. If lead is present at any measurable concentration below 5 mg/L, the wastewater is a Connecticut Regulated Waste (type CR04), which must be disposed at a Waste Facility permitted under CGS Section 22a-454. If the sample taken exceeds the groundwater protection criteria for lead, it should be disposed of as Connecticut Regulated Waste, CR04.

No water samples were collected or analyzed during the month of June.

X. Soil Samples

No soil samples were collected or analyzed in June.

XI. Schedule for Program Implementation

Blast All Incorporated supplied all the necessary lead health and safety supplies and equipment needed to comply with the CT DOT Lead Health Protection Program. This equipment includes the following:

Decontamination Facility
Hand Wash Facility
Protective Clothing
Lead Waste Storage Drums
Cleaning Agents
Other Necessary Items

XII. Hazard Communication

The written Hazard Communication Program and Material Safety Data Sheets are available at the site trailer, as specified by the CT DOT Lead Health and Safety Program and OSHA Hazard Communication requirements. Employees have been informed of the chemicals to be used on-site and that information can be obtained from the site Industrial Hygienist or the contractor.

XIII. Laboratory Results

Laboratory Results are located in Appendix D.

XIIII. Site Inspections

The EnviroMed Inc. site Industrial Hygienist conducted site inspections at each location where lead work activities took place. The site Industrial Hygienist checked to observe that lead warning signs and hand wash stations were present at each lead work area. Workers performing lead work activities were checked to observe that they were wearing the proper personal protective equipment.

Site inspection logs are located in Appendix E.

XV. Report Summary

The results summary of the industrial hygiene sampling for this June site visit are as follows. Each of the two (2) total personal air monitoring TWA samples measured below the OSHA established action level of 30 $\mu g/m^3$ and also below the OSHA established permissible exposure limit (PEL) of 50 $\mu g/m^3$.

One (1) of the two (2) equipment wipe samples was retrieved from the employee wash station, and the results from laboratory analysis yielded lead concentrations well above the established limit of 100 $\mu g/ft^2$ for equipment. To promote more effective workplace hygiene, better care must be implemented when cleaning the decontamination equipment used following blasting operations.

Of the two (2) personal dust samples, the one (1) hand wipe exceeded the 50 micrograms per square foot limit for lead concentration on personal surfaces. To limit lead exposure and prevent harmful ingestion of lead, greater care must be taken in the decontamination process to remove all surface residue on the face and hands.

Finally, the ambient air sample results for lead were well below the State of Connecticut eight-hour limit of 3.0 $\mu g/m^3$, and above the EPA recommended NAAQS – Ambient Air Standard of 0.15 $\mu g/m^3$ on a daily basis. When these samples are weighted over a calendar quarter 90-day moving average in accordance with the NAAQS considering the actual blasting days worked, the levels calculated for these operations would be lower than NAAQS established 0.15 $\mu g/m^3$ limit. These ambient air results for lead indicate that the community environmental health is being protected by the effective engineering and work practice controls utilized by the Blast All, Inc. management and field personnel assigned to the project.

Appendix A

Personal Air Sampling Results

EnviroMed

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Laboratory Analysis Report

Lead in Personal Air

Company/Client: **Blast All, Inc**

Project #: IH-17-214

Bridge Location: I-84 over Capitol Ave. & Laurel St., Hartford, CT

SanAir ID: 17024290

Date Received: 6/29/2017

Date Reported: 7/5/2017

Sampler's Name: Vladyslav Zdyr

Sample #	Activity	Personnel	Date	Protection Worn	Protection Factor	Result in(µg/m3)	*TWA in (µg/m3)
1	Blasting	Dane Stoddard	6/12/2017	Half Face Respirator	10	22.4	23.8
2	Blasting	Erik Inglesby	6/12/2017	Half Face Respirator	10	<10	10.4
3	Field Blank	Field Blank	6/12/2017	-	-	<10	-
4	Field Blank	Field Blank	6/12/2017	-	-	<10	-

Appendix B

Ambient Air Sampling Results

EnviroMed
Cleaner environment. Safer workplaces.
470 Murdock Avenue, Meriden, Connecticut 06450
Phone: (203) 238-4846 Fax: (203) 238-4243

Lead in Ambient Air

Company/Client: **Blast All, Inc**
Project #: IH-17-214
Bridge Location: I-84, Corner of Capitol Ave and Laurel St., Hartford, CT
Activity: Blasting
TSP Model/Serial#: Grasby MB-2300
Sampler Elevation (ft): 59

SanAir ID # **17023302**
Date SanAir Received: 6/22/2017
Date Reported: 6/27/2017
Sampler's Name: Vladyslav Zdyr

TSP Motor#: 2300
Cali. Slope for Motor #0.331 = 1.5440
Cali. Intercept for Motor #0.331 = 0.0107
Correlation Coefficient = 0.9993

Date	Filter #	Sample Location	Temp. (°F)	Seasonal Temp. (K)	Sea Level Pressure (inch)	Corrected Pressure (mm Hg)	Elapsed Sample Time (min.)	Manometer H_2O (inch)	Corrected Flow Rate (m^3/min)	Corrected Flow Rate (CFM)	Volume (m^3)	Lead Content (µg)	Lead Content (µg/m^3)
06/12/17	9446255	Southwest of I-84	80	299	29.94	759	530	3.0	1.112	39.2	589.1	437.0	0.74
06/12/17	9246257	Northeast of I-84	80	299	29.94	759	535	3.0	1.112	39.2	594.7	1190.0	2.00

Appendix C

Surface Dust Sampling Results

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Laboratory Analysis Report

Lead in Wipe

Company/Client:	**Blast All, Inc.**	SanAir ID:	17024289
		Date Received:	6/28/2017
Project #:	IH-17-214	Date Reported:	7/5/2017
Site Location:	I-84 over Capitol Ave. & Laurel St.	Sampler's Name:	Vladyslav Zdyr
	Hartford, CT		

			Result in µg*	Result in µg*
Sample #	**Location**	**Date**	**Pre Clean**	**Post Clean**
1	Wash Station	6/12/2017	813	
2	Wash Shower	6/12/2017	44	
6	Erik Inglesby - Hands	6/12/2017		178
7	Erik Inglesby - Face	6/12/2017		24
12	Field Blank	6/12/2017	<5	
13	Field Blank	6/12/2017	<5	

Appendix E

Laboratory Results

SanAir Technologies Laboratory

Analysis Report

prepared for

EnviroMed Services, Inc.

Report Date: 6/27/2017
Project Name: CT DOT# 0063-699-700-701 Amended 07/10/7012
Project #: IH-17-214
SanAir ID#: 17023302

NVLAP LAB CODE 200870-0

AIHA LAP, LLC ACCREDITED LABORATORY LAB # 162952

Virginia SBE Certification # 652931

Texas Licensed Mold Analysis Laboratory License # LAB0166

SanAir Technologies Laboratory

804.897.1177 www.sanair.com

SanAir Technologies Laboratory, Inc.
1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

EnviroMed Services, Inc.
470 Murdock Avenue
Meriden, CT 06450

June 27, 2017

SanAir ID # 17023302
Project Name: CT DOT# 0063-699-700-701 Amended 07/10/7012
Project Number: IH-17-214

Dear Vladyslav Zdyr,

We at SanAir would like to thank you for the work you recently submitted. The 2 sample(s) were received on Thursday, June 22, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 1, 2.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Doug Peery
Industrial Hygiene Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
2 sample(s) in Good condition

SanAir
Technologies Laboratory
1551 Oakbridge Drive, Suite B - Powhatan, VA 23139
804-897-1177 / 888-895-1177 / Fax 804-897-0070
www.sanair.com

Metals & Lead Chain of Custody

SanAir ID Number: 17023302

Company: EnviroMed Services, Inc.		Project #: IH-17-214	Phone #: 203-238-4846
Address: 470 Murdock Avenue		Project Name:	Phone #:
City, St., Zip: Meriden, CT 06450		Date Collected: 6/12/17	Fax #: 203-238-4243
Samples Collected By: Vladyslav Zdyr		P.O. Number:	Email:

CT DOT # 0063-699-700-701

Matrix Types

- ☐ Air ☐ Aqueous ☐ Bulk
- ☐ Paint ☐ Sludge ☐ Soil
- ☐ Dust ☐ Wipe ☐ Potable Water
- ☐ Non-Potable Water ☐ Wastewater
- ☐ Other:

Metals Analysis Types

- ☐ Total Concentration of Lead
- ☐ Total Concentration of RCRA 8 Metals
- ☐ TCLP for Lead
- ☐ TCLP for RCRA 8 Metals
- ☐ TCLP Full (w/ Organics)
- ☐ ICP-total concentration of metals (please list metals):
- ☐ Other:

*Turn Around Times				
	Same Day ☐	1 Day ☐	2 days ☐	3 Days ☐
	☐ Standard (5 day)	☐ Full TCLP (10d)		

*Courier charge for same day and 1 day TAT for offsite work.

Sample #	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) or Area (Sq ft)
1	South West of I-84	34.2 ft³/m	7:10	4:00	539 LG
2	North East of I-84	34.2 ft³/m	7:15	4:15	595 LG

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
			MC	JUN 22 2017	0830AM

Unless scheduled, the turn around time for all samples received after 3 pm will begin at 8 am the next business morning.
Weekend or Holiday work must be scheduled ahead of time and is charged for rush turn around time.
Work with standard turn around time sent Priority Overnight and Billed To Recipient will be charged a $10 shipping fee.

Page ___ of ___

170233 02

Date and Time: 6/12/17
EnviroMed Project #: IH-17-214
DOT Project #: 0063-699-700-701
Location: Corner of Capitol Ave & Laurel St. Hartford
Contractor: Blast All
Samples collected by: Vladyslav Zdyr
TSP Model/Serial#:
Sampler Elevation (feet): 54'
Activities:

TSP Motor#:

Filter #
944G255
944G257

Date	Sample Filter #	Sampler Number and Location	Average Temperature (F) Hi+Low/2	Sea Level Pressure (inch)	Start Manometer H2O (inch) reading	End Manometer H2O (inch) reading	Average Manometer H2O (inch) reading	Start Time	Stop Time	Elapsed Sample Time (min.)
6/12/17	1	South-west of I-84	79.5	29.94	4.5	1.5	3	7:10	16:00	530
6/12/17	2	North-East of I-84	79.5	29.94	4.5	1.5	3	7:20	16:15	535

MC JUN 29 2017 10:30AM

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

TSP Lead Analysis Report

Client: San Air Technologies
1551 Oakbridge Dr. Suite B
Powhatan, VA 23139

Report Number: 17-06-03283
Received Date: 06/22/2017
Reported Date: 07/07/2017

Project/Test Address: 17023302, IH-17-214; CT

Client Number: 201219

Fax Number:

Laboratory Results

Lab Sample Number	Client Sample Number	Analyzed Date	Air Volume (m^3)	Total Metal (ug)	Concentration (ug/m^3)	Narrative ID
17-06-03283-001	1	06/27/2017	589	437	0.74	
17-06-03283-002	2	06/27/2017	595	1190	2.0	

Analyst: Elaine King

Method: 40 CFR Part 50, Appendix G

Reviewed By Authorized Signatory: Tiffany Stone

Tiffany Stone
QA/QC Clerk

Sample Results denoted with a "less than" (<) sign contain less than 72 ug total lead, based on a 40mL sample volume.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Unless otherwise noted, samples are reported without a dry weight correction. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

LEGEND ug = microgram; ug/m^3 = micrograms per cubic meter; m^3 = cubic meter; mL = milliliter; L= Liters

Rev 1.0 (Revised On: 07/07/2017): Changed Sample Volumes Per Client Request.

Lead Chain-of-Custody Form

EHS Laboratories™

Environmental Hazards Services, LLC

SHIP TO: 7469 Whitepine Rd. Richmond, VA 23237
Phone: (800) 347-4010 FAX: (804) 275-4907
ONLINE CLIENT PORTAL AVAILABLE FOR ANALYSIS RESULTS AT:
www.leadlab.com

17-06-03283

Due Date:
06/27/2017
(Tuesday)
AE

KB

Company Name: SanAir Technologies Laboratory Account Number:

Address: 1551 Oakbridge Drive, Suite B City/State/Zip: Powhatan, VA 23139

Phone : 804-897-1177 Email : IAQ@sanair.com Fax:

Project Name / Testing Address: IH-17-214 Project City/State (Required): CT

Collected By: VZ Certification Number: P.O. #: 17023302

Do wipe samples submitted meet ASTM E1792 requirements? Yes No

Sample Type - Key For Grid			
Single Dust Wipe	= DW	Air	= A
Paint Chip	= PC	Soil	= S
Composite Soil	= CS		

Sample Location Abbreviations - Key For Grid					
FR = Family Room	F = Front	1 = 1st FL	BA = Bath	BR = Bedroom	
LR = Living Room	R = Rear	2 = 2nd FL	DR = Dining Room	O = Basement	
DN = Den	LT = Left	RT = Right	KT = Kitchen		

Surface Type for Dust Wipes – Key For Grid			
FL = Floor		SL = Window Sill	
CP = Carpet		WW = Window Well	

TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 DAY TAT.

1 Day | 2 Day | X | 3 Day | * Same Day – Must Call Ahead | * Weekend - Must Call Ahead

No.	Client Sample ID	Collection Date	Collection Time	Sample Type	Collection Location (LR, KT, LTFBR, RTRBR, etc.)	Surface Type	Area Length X Width in inches (Provide paint chip area only if requesting mg/cm2)	Paint Chip mg/cm²	Paint Chip % by weight	Air Total Time (minutes)	Air Flow Rate (L/min)	Air Volume Total (Liters)	Comments
1	1	6/12/17		TSP	South West Of I-84		X					1110.02	9446255
2	2	〃	A.M. / P.M.	〃	North East Of I-84		X					1110.02	9446257
3			A.M. / P.M.				X						
4			A.M. / P.M.				X						* Per Jordan
5			A.M. / P.M.				X						filter #'s
6			A.M. / P.M.				X						provided
7			A.M. / P.M.				X						6/27/17 (S)
8			A.M. / P.M.				X						
9			A.M. / P.M.				X						
10			A.M. / P.M.				X						

Released by:		Signature:	Date/Time:
Received by:	SNicolella	Signature: SNicolella	Date/Time: 6/22/17 2:05pm

SanAir Technologies Laboratory

Analysis Report

prepared for

EnviroMed Services, Inc.

Report Date: 7/5/2017
Project Name: Capitol Ave & Laurel St, Hertford
Project #: IH-17-214
SanAir ID#: 17024290

NVLAP LAB CODE 200870-0

AIHA LAP, LLC ACCREDITED LABORATORY LAB # 162952

Virginia SBE Certification # 652931

Texas Licensed Mold Analysis Laboratory License # LAB0166

SanAir Technologies Laboratory

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Web: http://www.sanair.com E-mail: iaq@sanair.com

EnviroMed Services, Inc.
470 Murdock Avenue
Meriden, CT 06450

July 5, 2017

SanAir ID # 17024290
Project Name: Capitol Ave & Laurel St, Hertford
Project Number: IH-17-214

Dear Larry Cannon,

We at SanAir would like to thank you for the work you recently submitted. The 5 sample(s) were received on Thursday, June 29, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 1, 2, 3, 4, 5.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Doug Peery
Industrial Hygiene Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
5 sample(s) in Good condition

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number
17024290
FINAL REPORT

Name: EnviroMed Services, Inc.
Address: 470 Murdock Avenue
Meriden, CT 06450

Project Number: IH-17-214
P.O. Number:
Project Name: Capitol Ave & Laurel St, Hertford

Collected Date: 6/12/2017
Received Date: 6/29/2017 8:00:00 AM
Report Date: 7/5/2017 8:31:44 AM
Analyst: Peterson, Chelsea

Lead Air Analysis

Test Method: NIOSH 7082M

Sample	Description	µg Pb in Sample	Sample Size	Units	Calculated RL	Sample Result	Units
17024290-001	1 / Danes Torso	23	1020	Liters	9.8 µg/m3 TWA: 23.78	22.4	µg/m3

Test Method: NIOSH 7082M

Sample	Description	µg Pb in Sample	Sample Size	Units	Calculated RL	Sample Result	Units
17024290-002	2 / Eriks Torso	< 10	1018	Liters	9.8 µg/m3 TWA: 10.39	<9.8	µg/m3

Test Method: NIOSH 7082M

Sample	Description	µg Pb in Sample	Sample Size	Units	Calculated RL	Sample Result	Units
17024290-003	3 / Field Blank	< 10	0	Liters			

Test Method: NIOSH 7082M

Sample	Description	µg Pb in Sample	Sample Size	Units	Calculated RL	Sample Result	Units
17024290-004	4 /	< 10	0	Liters			

Test Method: NIOSH 7082M

Sample	Description	µg Pb in Sample	Sample Size	Units	Calculated RL	Sample Result	Units
17024290-005	5 /	< 10	0	Liters			

Certification

SanAir Technologies Laboratory, Inc. participates in the certification for environmental lead analysis programs as administered by AIHA-ELLAP (Lab ID 162952), and has met the EPA's NLLAP program standards.

Signature: C. Peterson
Date: 6/29/2017

Reviewed: [signature]
Date: 6/29/2017

SanAir Technologies Laboratory
1551 Oakbridge Dr STE B
Powhatan, VA 23139
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Metals & Lead Chain of Custody

SanAir ID Number: 1702490

Company: EnviroMed Services Inc	Project #: IH - 17 - 214	Phone #: 203 238 4846
Address: 470 Murdock Ave #B	Project Name: Capitol Ave & Laurel st, Hartford	Phone #:
City, St., Zip: Meriden CT 06450	Date Collected: 6/12/17	Fax #:
Samples Collected By: Vladyslav Zdyc	P.O. Number:	Email: lcarson@environedservices.com
Account #: 2421	U.S. State Collected in: Connecticut	Email:

Matrix Types

- [x] Air (ug/m³)
- [ ] Wipe (ug/ft²)
- [ ] Paint [ ] Soil [ ] Bulk (ug/g or ppm)
- [ ] Other:

Metals Analysis Types

- [x] Total Concentration of Lead
- [ ] Total Concentration of RCRA 8 Metals
- [ ] TCLP for Lead
- [ ] TCLP for RCRA 8 Metals
- [ ] ICP-total concentration of metals (please list metals):

Turn Around Time				
	Same Day [ ]	1 Day [ ]	2 days [ ]	3 Days [ ]
	[x] Standard (5 day)	[ ] Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
1	6/12/17	Danés Torso	2.0	6:55	15:25	1020
2	6/12/17	Eriks Torso	2.0	6:57	15:26	1018
3	6/12/17	Field Blank				

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
	6-27-2017		CEV	06/29/17	9:40AM

Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or Holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of $100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work.

SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges.

Page ___ of ___

Disclaimer

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- Results are not corrected for blanks
- All quality control results are acceptable unless otherwise noted
- SanAir Technologies Laboratory, Inc is not responsible for sample collection or interpretation made by others
- This report does not constitute endorsement by AIHA/NVLAP and/or any other U.S. governmental Agencies; and may not be certified by every local, state or federal regulatory agencies
- SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior to SanAir's receipt of the the sample.
- SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using wipe materials meeting ASTM-E1792. The MDL and RL may not be relevant or applicable for other forms of wipe materials.

Lead Exposure Limits

Air

1.5 µg/m^3	EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
30 µg/m^3	OSHA Action Level (8-hour time weighted average)
50 µg/m^3	OSHA Permissible Exposure Limit (General Industry)
50 µg/m^3	OSHA Permissible Exposure Limit (Construction)

Dust

10 µg/ft^2	HUD Clearance Level for Floors
100 µg/ft^2	HUD Clearance Level for Interior Window Sills
100 µg/ft^2	HUD Clearance Level for Window Troughs
40 µg/ft^2	HUD Clearance Level for Porch Floors

Water

15 ppb (µg/liter)	EPA Maximum Containment Level

Paint

0.5% by weight	HUD definition of lead based paint
1.0 mg/cm^2	
5000 ppm	

Soil

400 ppm	HUD-Play areas and high-contact areas for children

TCLP EPA Limits

5.0 mg/L	Silver (Ag)
5.0 mg/L	Arsenic (As)
100 mg/L	Barium (Ba)
1.0 mg/L	Cadmium (Cd)
5.0 mg/L	Chromium (Cr)
0.2 mg/L	Mercury (Hg)
5.0 mg/L	Lead (Pb)
1.0 mg/L	Selenium (Se)

17024290

EnviroMed

Cleaner environment. Safer workplaces.

470 Murdock Avenue
Meriden, Connecticut 06450

CHAIN OF CUSTODY FORM

Lead in Air Analysis

CT DOT # 0063-699-700-701

Lab # 15386

Tel: (203)238-4846
Fax: (203)238-4243

Company Name and Address	Project/Job#	Purchase Order #	Sampling Information
Corner of Capitol Ave & Laurel St. Hartford	I-H-17-214	Sampler's Name: Vladyslav Zdyr	☐ Area ☑ Personal
Personal Information Name:	Title:	Protective Equipment ☐ Tyvek Suit ☐ Other	Respirator Type/Brand ☐ Full face ☑ Half Face

Sample #	Date	Pump Location	Activity	Sampling Time (Min)			Flow Rate (Liters/Min)				Concentration	
				Start	Stop	Total	Begin	End	Avg.	Total Volume	µg/m³	*T.W.A.
1	6/12/17	Danes Torso	Lead Blasting	6:55	15:25	510	2.0	2.0	2.0	1,020	22.4	23.8
2	6/12/17	Eriks Torso	Lead Blasting	6:57	15:26	509	2.0	2.0	2.0	1,018	<10.0	10.4
3	6/12/17	Field Blank									<10.0	–
4	6/12/17	Field Blank									<10.0	–

*Note C = Concentration T = Time of Exposure

$$TWA = \frac{[C1][T1] + [C1][T1] + [Cn][Tn]}{480}$$

Field Personnel		Lab Personnel			
Relinquished by: VZ	Date: 6-21-17	Analyzed by: SanAir	Date: 7/5/17	Received by: I	Date: 6/21/2017
Additional Comments: Pump Model and Serial #:		Approved by:	Date:	☐ QC ☐ Re-checked Calculation	

Accredited for Lead Analysis by AIHA #100120 CT Lab #PH-0571

CTL 10/29/17

SanAir Technologies Laboratory

Analysis Report

prepared for

EnviroMed Services, Inc.

Report Date: 7/5/2017
Project Name: Capitol Ave & Laurel St, Hartford
Project #: IH-17-214
SanAir ID#: 17024289

NVLAP LAB CODE 200870-0

AIHA LAP, LLC ACCREDITED LABORATORY LAB #162952

Virginia SBE Certification # 652931

Texas Licensed Mold Analysis Laboratory License # LAB0166

SanAir Technologies Laboratory

804.897.1177 www.sanair.com

SanAir Technologies Laboratory, Inc.
1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

EnviroMed Services, Inc.
470 Murdock Avenue
Meriden, CT 06450

July 5, 2017

SanAir ID # 17024289
Project Name: Capitol Ave & Laurel St, Hartford
Project Number: IH-17-214

Dear Larry Cannon,

We at SanAir would like to thank you for the work you recently submitted. The 6 sample(s) were received on Wednesday, June 28, 2017 via FedEx. The final report(s) is enclosed for the following sample(s): 1, 2, 6, 7, 12, 13.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Doug Peery
Industrial Hygiene Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:
- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:
6 sample(s) in Good condition

SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: http://www.sanair.com E-mail: iaq@sanair.com

SanAir ID Number
17024289
FINAL REPORT

Name: EnviroMed Services, Inc.
Address: 470 Murdock Avenue
Meriden, CT 06450

Project Number: IH-17-214
P.O. Number:
Project Name: Capitol Ave & Laurel St, Hertford

Collected Date: 6/12/2017
Received Date: 6/28/2017 9:40:00 AM
Report Date: 7/5/2017 8:32:10 AM
Analyst: Peery, Doug

Lead Wipe Analysis

Test Method: SW846/M3050B/6010C

Sample	Description	µg Pb In Sample	Sample Size		Calculated RL	Sample Result	Units
17024289-001	1 / Wash Station	813	1	Sq. Ft.	5 µg/ft2	813.3	µg/ft2

Test Method: SW846/M3050B/6010C

Sample	Description	µg Pb In Sample	Sample Size		Calculated RL	Sample Result	Units
17024289-002	2 / Shower Station	44	1	Sq. Ft.	5 µg/ft2	44	µg/ft2

Test Method: SW846/M3050B/6010C

Sample	Description	µg Pb In Sample	Sample Size		Calculated RL	Sample Result	Units
17024289-003	6 / Eriks Post Hand	178	1	Sq. Ft.	5 µg/ft2	177.5	µg/ft2

Test Method: SW846/M3050B/6010C

Sample	Description	µg Pb In Sample	Sample Size		Calculated RL	Sample Result	Units
17024289-004	7 / Eriks Pre - Face	24	1	Sq. Ft.	5 µg/ft2	24.4	µg/ft2

Test Method: SW846/M3050B/6010C

Sample	Description	µg Pb In Sample	Sample Size		Calculated RL	Sample Result	Units
17024289-005	12 / Field Blank	< 5	1	Sq. Ft.	5 µg/ft2	<5	µg/ft2

Test Method: SW846/M3050B/6010C

Sample	Description	µg Pb In Sample	Sample Size		Calculated RL	Sample Result	Units
17024289-006	13 / Field Blank	< 5	1	Sq. Ft.	5 µg/ft2	<5	µg/ft2

Certification

SanAir Technologies Laboratory, Inc. participates in the certification for environmental lead analysis programs as administered by AIHA-ELLAP (Lab ID 162952) and the State of New York-ELAP (Lab Id 11983), and has met the EPA's NLLAP program standards.

Signature: Doug Peery
Date: 7/4/2017

Reviewed: C. Peterson
Date: 7/5/2017

SanAir Technologies Laboratory
1551 Oakbridge Dr STE B
Powhatan, VA 23139
804.897.1177 / 888.895.1177
Fax 804.897.0070
sanair.com

Metals & Lead Chain of Custody

SanAir ID Number: 17024289

Company: EnviroMed Services INC	Project #: IH - 17 - 214	Phone #: 203 238 4846
Address: 470 Murdock Ave	Project Name: Capitol Ave & Laurel st, Hartford	Phone #:
City, St., Zip: Meriden CT 06450	Date Collected: 6/12/17	Fax #:
Samples Collected By: Vladyslav Zdyr	P.O. Number:	Email: lcarson@environmentalservicesinc.com
Account #: 2421	U.S. State Collected in: Connecticut	Email:

Matrix Types

- ☐ Air (ug/m³)
- ☒ Wipe (ug/ft²)
- ☐ Paint ☐ Soil ☐ Bulk (ug/g or ppm)
- ☐ Other:

Metals Analysis Types

- Total Concentration of Lead ☒
- Total Concentration of RCRA 8 Metals ☐
- TCLP for Lead ☐
- TCLP for RCRA 8 Metals ☐
- ☐ ICP-total concentration of metals (please list metals):

Turn Around Time				
	Same Day ☐	1 Day ☐	2 days ☐	3 Days ☐
	☒ Standard (5 day)	☐ Full TCLP (10d)		

Sample #	Collection Date & Time	Sample Identification/Location	Flow Rate	Start Time	Stop Time	Volume (L) Area (Sq ft)
1	6/12/17	Wash Station				
2	"	Shower Station				
6	"	Enks Post Head				
7	"	Enks Post Face				
12	"	Field Blank				
13	"	Field Blank				

Special Instructions

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6-27-17		CW	6/28/17	9:40 am

Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or Holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of $100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work.

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Page ___ of ___

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Lead Exposure Limits

Air

1.5 µg/m^3	EPA National Ambient Air Quality Standard (Quality Time – Weight Average)
30 µg/m^3	OSHA Action Level (8-hour time weighted average)
50 µg/m^3	OSHA Permissible Exposure Limit (General Industry)
50 µg/m^3	OSHA Permissible Exposure Limit (Construction)

Dust

10 µg/ft^2	HUD Clearance Level for Floors
100 µg/ft^2	HUD Clearance Level for Interior Window Sills
100 µg/ft^2	HUD Clearance Level for Window Troughs
40 µg/ft^2	HUD Clearance Level for Porch Floors

Water

15 ppb (µg/liter)	EPA Maximum Containment Level

Paint

0.5% by weight	HUD definition of lead based paint
1.0 mg/cm^2	
5000 ppm	

Soil

400 ppm	HUD-Play areas and high-contact areas for children

TCLP EPA Limits

5.0 mg/L	Silver (Ag)
5.0 mg/L	Arsenic (As)
100 mg/L	Barium (Ba)
1.0 mg/L	Cadmium (Cd)
5.0 mg/L	Chromium (Cr)
0.2 mg/L	Mercury (Hg)
5.0 mg/L	Lead (Pb)
1.0 mg/L	Selenium (Se)

17024209

EnviroMed

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470 Murdock Avenue
Meriden, Connecticut 06450

CHAIN OF CUSTODY FORM

Lead in Wipe/Soil/Chip Analysis

Lab # 15385

Tel: (203)238-4846
Fax: (203)238-4243

CTDOT# 0063-699-700-701

Company Name and Address	Project/Job #	Sampler's Name	Purchase Order #
Blast All. Inc Corner of Capitol Ave & Laurel St. Hartford, CT	IH-17-214	Vladyslav Zdyr	

Sample #	Sample Location	Date of Collection	Time of Collection	Sample Type Wipe/Soil/Chip	Area wiped (ft^2)	Remarks	Concentration Soil (mg/kg)	Concentration Chip (% by wt.)	Concentration Wipe (µg)
1	Wash Station	6/12/17	16:05	Wipe	1				813.3
2	Shower Station	6/12/17	16:10	wipe	1				44
3									
4									
5									
6	Eriks Post-Hand	6/12/17	12:05	wipe					177.5
7	Eriks Post Face	6/12/17	12:07	wipe					24.4
8									
9									
10									
11									
12	Blank	6/12/17							<5
13	Blank	6/12/17							<5

Field Personnel

Lab Personnel

Relinquished by:	Date:	Analyzed by:	Date:	Received by:	Date:
VZ	6/21/17	San A.r	7/5/17		6/21/17
Additional Comments:		Approved by:	Date:	☐ QC ☐ Re-checked Calculation	

Accredited for Lead Analysis by AIHA #100120 CT Lab #PH-0571

Appendix F

Site Inspection Logs

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DAILY LOG REPORT

Connecticut:
470 Murdock Avenue
Meriden, CT 06450
Phone: 203.238.4846
Fax: 203.238.4243

New York:
68 Jay Street, Suite 402
Brooklyn, NY 11201
Phone: 718.237.4065
Fax: 718.237.4884

www.enviromedservices.com

Client: Blast All. Inc
Work Site:
Specific Location(s):
Address: Corner of Capitol Ave & Laurel St. Hartford
Additional Info: (I-84) CTDOT # 0063-699-700-701

EnviroMed Job#: IH-17-214
Date: 6/12/17
EnviroMed Personnel: Vladyslav Zdyr

Time:	Comments:
6:30	EnviroMed Services (EMS) arrives on site. Blast All workers are already on site. Blast All has already began working.
6:50	EMS sets up personal pumps, they are then delivered to the workers that are working under the bridge.
7:10	EMS sets up 2 TSP's. One southwest of bridge and the other northeast of Bridge.
	BlastAll advised to use a secondary generator which was located farther from the area of blasting. The TSP's were not placed in ideal locations due to this change.
12:00	Two post wash samples (wipes) were taken. Some of the workers did not comply in taking pre-cleaning samples.
12:10	BlastAll worked take lunch
12:40	BlastAll workers return from lunch and return to work.
3:30	BlastAll workers finish Blasting
3:50	Blast All workers begin vacuuming the containment
4:30	EMS and Blast All workers leave site.

Signature: _____

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Connecticut:
470 Murdock Avenue
Meriden, CT 06450
Phone: 203.238.4846
Fax: 203.238.4243

New York:
68 Jay Street, Suite 402
Brooklyn, NY 11201
Phone: 718.237.4065
Fax: 718.237.4884

www.enviromedservices.com

JOB SITE SIGN-IN

Client: Blast All. Inc	EnviroMed Job#: IH-17-214
Work site:	Date: 6/12/17
Specific Location(s): I-84	EnviroMed Personnel: VLADYSLAV ZDYR
Address: Corner of Capitol Ave & Laurel St. Hartford, CT	
Additional Info: CTDOT # 0063-699-700-701	

Name	Representing	Arrival Time	Out to Lunch	In from Lunch	Departure Time
VLADYSLAV ZDYR	EnviroMed Services, Inc	6:30	12:10	12:40	4:30
Dane Stoddard	Blast All	6:00	12:10	12:40	4:30
Jeff Lukowski	Blast All	6:00	12:10	12:40	4:30
Erik Ingelsby	Blast All	6:00	12:10	12:40	4:30
Keith Lawson	Blast All	6:00	12:10	12:40	4:30

Signature: _____

EnviroMed

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JOB DRAWING

Connecticut:
470 Murdock Avenue
Meriden, CT 06450
Phone: 203.238.4846
Fax: 203.238.4243

New York:
68 Jay Street, Suite 402
Brooklyn, NY 11201
Phone: 718.237.4065
Fax: 718.237.4884

www.enviromedservices.com

Client: Blast All. Inc

Work Site:

Specific Location(s):

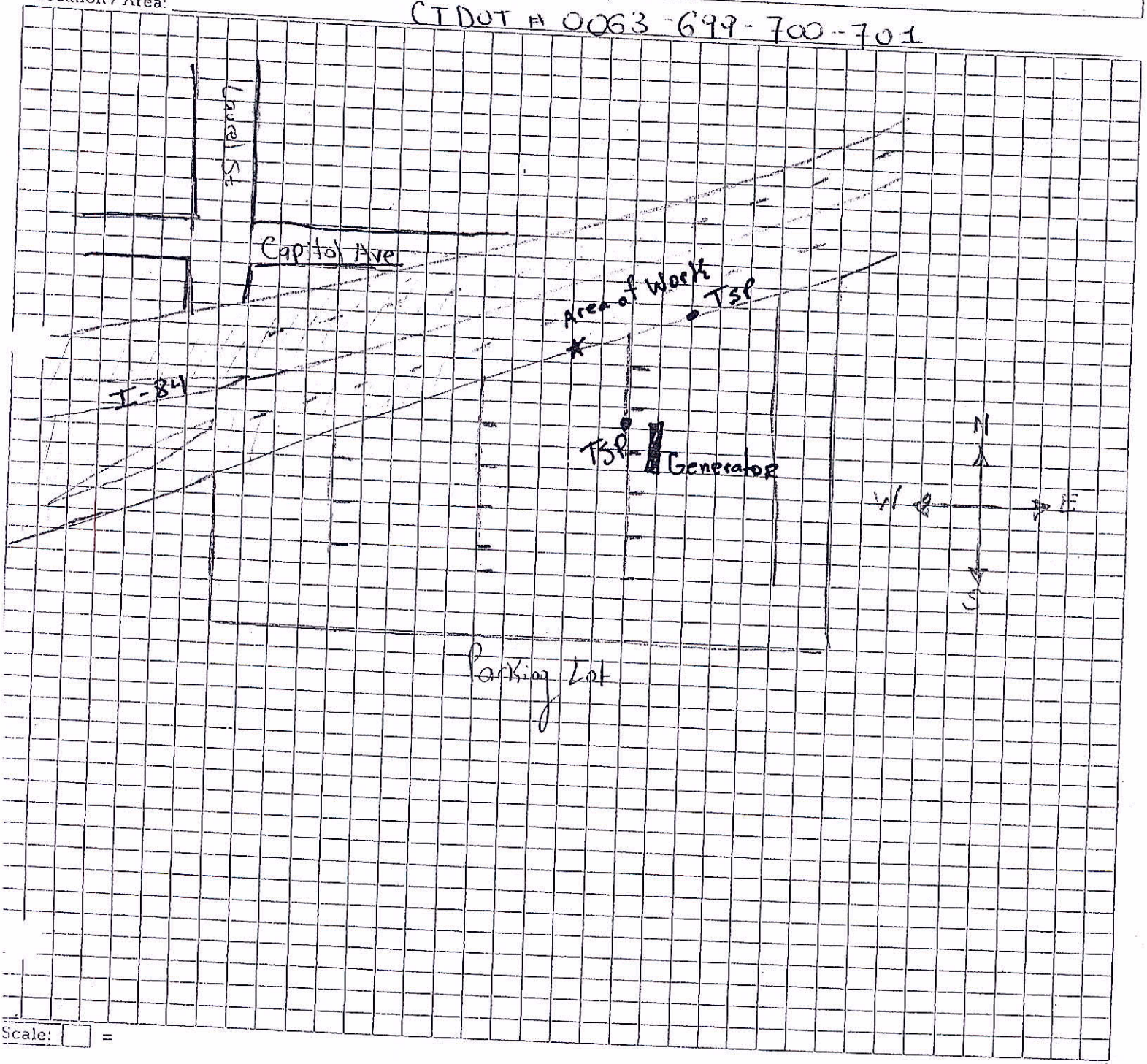
Address: Corner of Capitol Ave & Laurel St. Hartford, CT

EnviroMed Job#: IH-17-214

Date: 6/12/17

EnviroMed Personnel: Vladyslav Zdyr

Location / Area: CTDOT # 0063-699-700-701



Scale: [ ] =

Date and Time: 6/12/17
EnviroMed Project #: IH-17-214
DOT Project #: 0063-699-700-701
Location: Corner of Capitol Ave & Laurel St. Hartford
Contractor: Blasti All
Samples collected by: Vladyslav Zdyr
TSP Model/Serial#:
Sampler Elevation (feet): 54'
Activities:

TSP Motor#:

TSP Motor#:

Date	Sample Filter #	Sampler Number and Location	Average Temperature (F) Hi+Low/2	Sea Level Pressure (inch)	Start Manometer H2O (inch) reading	End Manometer H2O (inch) reading	Average Manometer H2O (inch) reading	Start Time	Stop Time	Elapsed Sample Time (min.)
6/12/17	1	South-west of I-84	79.5	29.94	4.5	1.5	3	7:10	16:00	530
6/12/17	2	North-East of I-84	79.5	29.94	4.5	1.5	3	7:20	16:15	535

Filter #
144G255
144G257