

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 708
Waynesburg, OH 44688
Ph: 330-888-3435
Fax: 330-888-3488

Ticket # **247023**
Date **08/07/2011**
Time: **7:34:10 AM**

Customer Name

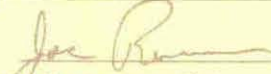
~~Kurtz Brothers~~


Precision

Customer #	806 204 yck	Gross Weight	70,000
Transporter	Kurtz Brothers	Tare Weight	34,000
Truck Type	Tandem dump	Net Weight(tons)	18Ton
Truck License #	185	Volume Received(yards)	35
Location	OH, Euclid	Waste Type:	Enable Asbestos
Generator	Former Cleveland	Minerva Job #	10819

ME REP/P.O.# **srd**

Accepted: Yes No. If No, this material was rejected for the following reasons: _____

Driver: 

Minerva Enterprises Representative: 

I certify that all materials meet Stark County/Ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

PRECISION ENVIRONMENTAL CO.
REGULATED ASBESTOS MATERIAL: EPA WASTE SHIPMENT RECORD
RQ, Waste, Asbestos, 9, NA2212, PGIII

06094

247086

G E N E R A T O R	1. Work site name and mailing address FURBER CLEVELAND TRUCKER 20180 ST CLAIR AVE ENCLID, OH 44105205		Owner's name EMY THOMAS, TRUSTEE 21 CUTLER AVE ARSON, OH 44308	Owner's telephone number 330-782-7377	
	2. Operator's name and address PRECISION ENVIRONMENTAL CO. 3500 OH Brucker/He Road Independence, Ohio 44131		Operator's telephone number (216) 642-6040		
	3. Waste disposal site (WDS) name, mailing address, and physical site location MINERVA ENTERPRISES 9880 MINERVA RD WATERSBURG, OH 44688			WDS phone number 330-665-3435	
	4. Name, and address of responsible agency (Local, District or EPA office where notification was sent) CLEVELAND DIV OF AIR, 78 ERIEVIEW BLVD, CLEVELAND, OH				
T R A N S P O R T E R	5. Description of materials ACM BUILDING DERRIS		6. Containers Number: 1 Type: DUMP TRUCK		7. Total quantity cubic meters or cubic yards 35 YARDS
	8. Special handling instructions and additional information EMERGENCY CONTACT: PRECISION ENVIRONMENTAL (216) 642-6040				
	9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations KENNY YATES SUPERVISOR <i>[Signature]</i> 9-7-11 Printed/typed name Title Signature Date (MM/DD/YY)				
W A S T E	10. Transporter 1 (Acknowledgment of receipt of materials) Address and telephone no Joe Russo DRIVER <i>[Signature]</i> 9-2-11 Printed/typed name Title Signature Date (MM/DD/YY)		11. Transporter 2 (Acknowledgment of receipt of materials) Address and telephone no WITZ ERIC 6415 GRANGER RD INDEPENDENCE, OH 44131 Printed/typed name Title Signature Date (MM/DD/YY)		
	12. Discrepancy indication space				
S I T E	13. Waste disposal site owner or operator. Certification of receipt of asbestos materials by this manifest except as noted in item Shawn Dune <i>[Signature]</i> 9/7/11 Printed/typed name Title Signature Date (MM/DD/YY)				

Generator - M/S/In

Transporter - Vol/In

1 Independent Area - Print

Project Site - Grid

JLLP-PRECISION 000210

643

MINERVA ENTERPRISES, IN
9000 Minerva Rd, P.O. Box 709
Weynasburg, OH 44888
Ph: 330-888-3435
Fax: 330-888-3488

Ticket # 247088
Date 08/07/2011
Time 1:44:34 PM

Customer Name

~~Kurtz Brothers~~
Decision

Customer # ~~000~~ 224 ydk

Gross Weight 76,000

Transporter Kurtz Brothers

Tare Weight 34,000

Truck Type Tandem dump

Net Weight(tons) 18TON

Truck License # 185

Volume Received(yards) 35

Location OH, Euclid

Waste Type Enable Asbestos

Generator Former Cleveland

Minerva Job # ~~10510~~

ME REP/PO # srd

Accepted: Yes If No, this material was rejected for the following reasons

Driver

I certify that all materials meet Stark
County/Ohio EPA specifications

Minerva Enterprises Representative

This certifies that the waste specified on this ticket has been properly
disposed of in accordance with all local, state and federal regulations.

Oct 31 2011 4:16PM

33URBB34RB

P.3

Truck Maintenance - C.M.C.

File Edit Options Help

Truck Id COPRG +

Tare Weight 31900

Last Tared 10/4/2011

Legal Max

Home Plant 19

Truck Class

Customer Id

Owner Id

Default Driver

Incl. on Reports Yes

Internal? Yes

In Service Yes

Truck Capacity

Inactive

Vehicle Info Notes

GROSS WEIGHT 51040 31900 19140 9.57

F3 Delete F2 OK

JLIP-PRECISION 000213

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 43085 Ph: 330-888-3488 Fax: 330-888-3488		Ticket # 248814 Date 10/11/2011 Time 2:46:24 PM
Customer Name Precision Environmental Company		

Customer #	224	Gross Weight	58800
Transportation	Cooper Disposal	Tare Weight	32800
Truck Type	20 cuyd Roll-off	Net Weight(tons)	12.65
Truck License #	6.8	Volume Recycled(yards)	20
Location	OH, Euclid	Waste Type	Friable Asbestos
Generator	Former Cleveland	Minerva Job #	ave*euclid,oh*1-ac
ME REP/PO #	KE		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: [Signature] Minerva Enterprises Representative: [Signature]

I certify that all materials meet Stark County Ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

PRECISION ENVIRONMENTAL CO.
REGULATED ASBESTOS MATERIAL: EPA WASTE SHIPMENT RECORD
RQ, Waste, Asbestos, 9, NA2212, PGIII

06199

248814

G E N E R A T O R	1. Work site name and mailing address CLEVELAND TRENCHER 20100 ST CLAIR CLEVELAND, OH 1408205		Owner's name MARY THOMAS, TRUSTEE 71 COTTER AVE AKRON, OH		Owner's telephone number 330-762-7377
	2. Operator's name and address PRECISION ENVIRONMENTAL CO. 5500 Old Breakville Road, Independence, Ohio 44131				Operator's telephone number (216) 642-6040
	3. Waste disposal site (WDS) name, mailing address, and physical site location MINERVA ENTERPRISES 9000 MINERVA RD WAYNESBURG, OH 44688				WDS phone number 330-866-3435
	4. Name, and address of responsible agency (Local, District or EPA office where notification was sent) CLEVELAND DIV OF AIR, 75 ERIEVIEW PLAZA, CLEVELAND, OH				
T R A N S P O R T E R	5. Description of materials		6. Containers		7. Total quantity cubic meters or cubic yards
	ACM BUILDING DEBRIS		Number 1	Type DUMPSTER	20 YARDS
W A S T E S I T E	8. Special handling instructions and additional information EMERGENCY CONTACT- PRECISION ENVIRONMENTAL (216) 642-6040				
	9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations KENNY YATES SUPERVISOR Printed/typed name Title Signature Date (M/DD/YY) 9-30-11				
W A S T E S I T E	10. Transporter 1 (Acknowledgment of receipt of materials) Address and telephone no MURTE BROS Printed/typed name Title Signature Date (M/DD/YY) 9-30-11 ARRANGER INDEPENDENCE, OH				
	11. Transporter 2 (Acknowledgment of receipt of materials) Address and telephone no Steve D... Printed/typed name Title Signature Date (M/DD/YY) 10-11-11				
12. Discrepancy indication space					
13. Waste disposal site owner or operator Certification of receipt of asbestos materials by this manifest except as noted in item Kristina... Printed/typed name Title Signature Date (M/DD/YY) 10-11-11					

Precision - White

Transporter - Yellow

Unloading Area - Pink

Project Site - Gold

Oct 31 2011 4:18PM

20241

Truck Maintenance - D.M.C.		Inactive	
File Edit Options Help	Truck Id C0007	Customer Id	In Service Yes
Tare Weight 32900	Last Tared 10/5/2011	Owner Id	Truck Capacity
Legal Max	Home Plant 19	Default Driver	
Truck Class		Inc. on Reports Yes	
		Internal? Yes	
Vehicle Info Notes			
GROSS WEIGHT 58800 32900 25900 12.95			
		F3 Delete	F2 OK

3308663488

P.14

JLLP-PRECISION 000216

097

MINERVA ENTERPRISES, IN
 9000 Minerva Rd. P.O. Box 709
 Waynesburg, OH 44688
 Ph: 330-868-3435
 Fax: 330-868-3488

Ticket # 247128
 Date 08/08/2011
 Time 8:48:24 AM

~~Customer Name~~
Precision
Yok

Customer # ~~800~~ **204**
 Transporter: Kurtz Brothers
 Truck Type: Trailer dump
 Truck License #: 187
 Location: OH, Euclid
 Generator: Former Cleveland
 ME REP/P.O.# xii
 Accepted: Yes

Gross Weight: 0 70,060
 Tare Weight: 0 34,000 **Yok**
 Net Weight (tons): 0 18 Ton **Yok**
 Volume Reclaimed (yards): 60
 Waste Type: Fugite Asbestos
 Minerva Job #: ~~3500~~

If No, this material was rejected for the following reasons:

Driver: David L. Miller Minerva Enterprises Representative [Signature]

I certify that all materials meet Stark County/Ohio EPA specifications
 This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

Oct 31 2011 3:38PM

3308663488

p. 6

Shipper:
KBI EPG-NOH (ZZ120)
6415 GRANGER ROAD
INDEPENDENCE, OH
(216) 986-7000

Trip Summary Sheet
9/7/2011 11:55:32
Order# 138880
Movement: 139171
Trip Segment: 148840
Segment Ref:

Consignee:
PRE1003-0964 (PR2205)
20100 ST. CLAIR AVE
CLEVELAND TRENCH
CLEVELAND, OH
(000) 000-0000

Page 1/1

Tractor: K0187 Ref # REF 11249.0055-008 SOPNUM 120S00493474 REF 11249.0056-C
Driver 1: MILDA MILLER, DAVID
Driver 2: UNKNOWN UNKNOWN
Status: Dispatcher

Remarks: Order # 138880 - HAULING MATERIAL TO MINERVA [NET30: 425.61000]

Truck Attribute: 6 AXLE, QUAD, SE

Haul: UNKNOWN

Bill-To: PRECISION ENVIRONMENTAL CO. (PRE1003)
5500 OLD BRECKSVILLE ROAD
INDEPENDENCE, OH
(216) 642-6040

Event	Count	Weight	Cmd	Description	Miles	Earliest Date	Latest Date	Arrival Date Est	Freight Ref #
LLD	1 EA	0 UNK	11003000	CARTAGE ONLY-KB		09/06 06:28	09/06 06:29	E	
					Trailer 1:	UNKNOWN	Trailer 2:	UNKNOWN	

KBI EPG-NOH (ZZ120)
6415 GRANGER ROAD
INDEPENDENCE, OH
(216) 986-7000

Event	Count	Weight	Cmd	Description	Miles	Earliest Date	Latest Date	Arrival Date Est	Freight Ref #
LUL	1 EA	0 UNK	11003000	CARTAGE ONLY-KB	8	09/06 06:30	09/06 16:30	E	
					Trailer 1:	UNKNOWN	Trailer 2:	UNKNOWN	

PRE1003-0964 (PR2205)
20100 ST. CLAIR AVE
CLEVELAND TRENCH
CLEVELAND, OH
(000) 000-0000

Total Miles: 8

Load Requirements:

JLLP-PRECISION 000219

EAB CERCLA 106(b) 12-01 001454

092

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-688-3435
Fax: 330-688-3488

Ticket # 247024
Date: 08/07/2011
Time: 7:34:03 AM

Customer Name
~~Kurtz Brothers~~
Precision

Customer #	800 224 yck	Gross Weight	70,000
Transporter	Kurtz Brothers	Tara Weight	34,000
Truck Type	Tandem dump	Net Weight(tons)	18TON
Truck License #	184	Volume Reclered(yards)	35
Location	OH, Euclid	Waste Type	Friable Asbestos
Generator	Former Cleveland	Minerva Job #	2500
ME REP/P.O #	kil		
Accepted:	Yes	If No, this material was rejected for the following reasons: _____	

Driver: George K. Lina Minerva Enterprises Representative: [Signature]

I certify that all materials meet Stark County/ohio EPA specifications
This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

650

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330-868-3488

Ticket # **247205**
Date: **08/09/2011**
Time: **9:49:27 AM**

Customer Name _____
Precision Environmental Company

Customer #	224	Gross Weight	52180
Transporter:	Southside Environ	Tare Weight	40540
Truck Type:	Trailer dump	Net Weight(tons)	5.77
Truck License #	S3	Volume Received(yards)	30
Location:	OH, Euclid	Waste Type:	Friable Asbestos
Generator:	Former Cleveland	Minerva Job #	2000
ME REPP.O.#	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: *[Signature]* Minerva Enterprises Representative: *[Signature]*

I certify that all materials meet State
County/ohio EPA specifications

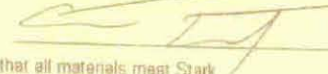
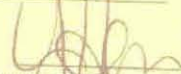
This certifies that the waste specified on this ticket has been properly
disposed of in accordance with all local, state and federal regulations.

1240

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Weynasburg, OH 44686 Ph 330-888-3435 Fax 330-888-3488	Customer Name Precision Environmental Company	Ticket # 247884
		Date 09/24/2011
		Time 7:44:40 AM

Customer #	224	Gross Weight	77800
Transporter:	Cooper Disposal	Tare Weight	32500
Truck Type:	30 cuyd Roll-off	Net Weight(tons)	22.65
Truck License #:	01	Volume Reclavad(yards)	30
Location:	OH, Cleveland	Waste Type:	friable Friable Asbestos
Generator:	Cleveland Trancher	Minerva Job #	2000
ME REP/P.O.#	ydh		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver:  Minerva Enterprises Representative: 

I certify that all materials meet Stark County/ohio EPA specifications This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

EXHIBIT 4



**RCS Environmental
Group, Ltd.**

2812 Shakercrest Blvd.
Beachwood, Ohio 44122

Phone (216) 378-0997
FAX (216) 464-6290

ASBESTOS MONITORING REPORT

CLEVELAND TRENCHER
20100 St. Clair Ave
Euclid, Ohio

Prepared For:

Precision Environmental Company
5500 Old Brecksville Road
Independence, Ohio 44131

Prepared By:

RCS Environmental Group, Ltd.
2812 Shakercrest Blvd,
Beachwood, Ohio 44122
(216) 378-0997

Date:

October 31, 2011

Project No.

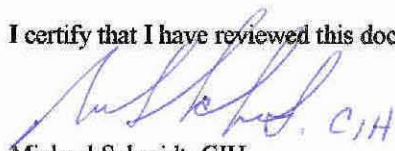
201128

CERTIFICATE OF ACCURACY AND COMPLETENESS

RCS Environmental conducted the Asbestos Monitoring in a manner consistent with sound engineering practice and with professional judgment. The conclusions and recommendations presented in the Asbestos Monitoring Report are based on the level of effort and investigative techniques defined under the scope of work by Precision Environmental and RCS Environmental. No other warranty or guarantee, expressed or implied, is made.

Qualified consultants performed the sampling and analysis with diligence and in accordance with regulatory and/or accepted industry practice. RCS Environmental Group, Ltd. certifies that the information presented herein is accurate and complete as described.

I certify that I have reviewed this document.



Michael Schmidt, CIH,
President



TABLE OF CONTENTS

<u>SECTIONS</u>	<u>Page Number</u>
<i>Summary Report</i>	1
<i>Section I</i> Summary of Asbestos Abatement Work	2
<i>Section II</i> Description of Protective Controls	2
<i>Section III</i> Air Sampling Plan	3
<i>Section IV</i> Comments and Follow-up Action	4

SECTION

<i>Section 1</i>	TEM Air Monitoring Data Sheets
<i>Section 2</i>	PCM Air Monitoring Data Sheets
<i>Section 3</i>	Daily Field Logs
<i>Section 4</i>	Certifications



ASBESTOS AIR MONITORING SUMMARY

Consultant: **RCS Environmental Group, Ltd.**
2812 Shakercrest Blvd.
Beachwood, Ohio 44122

Contractor: **Precision Environmental Company**
5500 Old Brecksville Road
Independence, Ohio 44131

Location: **Cleveland Trencher**
20100 St. Clair Ave.
Euclid, Ohio

Scope of Work: Removal of asbestos debris from abandon concrete pads
from demolished buildings and soil.

Project Monitors: Michael Schmidt, CIH
Ohio Department of Health
Asbestos Hazard Evaluation Specialist
Asbestos Project Designer

Cecil Brannon
Ohio Department of Health
Asbestos Hazard Evaluation Specialist

Project Date(s): August 23 through October 4, 2011



I. Summary Asbestos Abatement Work

The asbestos decontamination work performed during this project consisted of the following:

The former **Cleveland Trencher** property (20100 St. Clair Ave.) is located on 14.1 acres including 140,000 square feet of building in the heart of Euclid's industrial zone.

From the 1920s until around 2000, the site was used by Cleveland Trencher to fabricate, paint and assemble metal components for trenching and excavating equipment. In 2007, asbestos abatement of the property was initiated and demolition of several buildings was conducted by others. The asbestos abatement activities were deemed inadequate and the project has halted. Asbestos remained in existing buildings, on the ground, and on the demolished building concrete pads. The US EPA reports indicate that OEPA found not only asbestos at the location, but also 120 drums and containers of materials, primarily lead paints, oils, and solvents.

Precision Environmental was contracted to finish the abatement activities abandoned by others. This included the completion of the asbestos abatement activities and the proper removal and disposal of the identified drums.

II. Description of Protective Controls

- A. **Decontamination Facility:** A Decontamination Facility (DF) was constructed within the Support Zone of the project. The DF consisted of a clean room, shower room, and an equipment (dirty) room. Each chamber was separated by air locks using a series of polyethylene flaps and/or doors.

All workers were required to decontaminate each time they left the work area. All equipment was showered out or wet wiped before being removed from the decontamination facility. Wastewater was removed from the shower by a two-stage filtering pump fitted with a 5-micron final filter.

A separate area was constructed for the decontamination of the waste trucks. A concrete pad was constructed with a drain for wastewater. Each truck had its tires and under carriage washed with water from pressure washers before leaving the project site. All wastewater was collected and filtered by a two-stage filtering pump fitted with a 5-micron final filter.

- B. **Personal Protective Equipment:** During removal activities workers donned half-face air purifying respirators equipped with High Efficiency Particulate Air (HEPA) filters. In addition, workers wore full body Tyvek suits with head and foot coverings. Safety equipment also included the use of safety glasses and work boots. All personal protective equipment was disposed of or decontaminated prior to the worker leaving the work area.



III. Air Sampling Plan

The Asbestos Sampling Plan (ASP) was used as a guide for the abatement and cleanup activities being conducted at Cleveland Trencher. The ASP is the framework for conducting environmental monitoring during a complex asbestos abatement project.

The ASP determined the exposure pathways of potential receptor populations. It was important to consider multiple pathways, age and duration of exposure of said populations.

The site location is located in an industrial area with a significant portion of the buildings being vacant. Directly east southeast, is a large grassy/wooded area. No residential properties are located in the immediate area of the project work area. Based on visual inspections of field conditions the follow distinct receptor populations were considered:

- Asbestos Workers
- Authorized Visitors to the Site
- Inspectors
- Down Wind Occupants of Industrial Buildings.

A. Air Monitoring General

All laboratory analysis was conducted by International Asbestos Testing Laboratories (IATL). IATL is certified by AHIA and NAVLAP. All samples were sent to the laboratory under Chain of Custody procedures. All sampling equipment was calibrated daily in the field with a rotameter which has been calibrated by a primary standard.

B. Daily Perimeter Air Monitoring

Perimeter Air Monitoring was conducted on a daily basis. Perimeter samples were collected upwind from the days planned abatement work. In addition, samples were collected within the Support Zone of the project. Additional perimeter samples were collected downwind as close to the day's work area as possible. The exact location of the perimeter sampling was determined daily based on wind direction and planned abatement activities.

All perimeter sampling was conducted using 25 millimeter mixed cellulose ester cassettes (MCE) with a pore size of 0.8 micrometers. Samples were analyzed using the NIOSH Method 7400 Phase Contrast Microscopy (PCM) techniques.

Any PCM result greater than 0.005 fibers per square centimeter was further analyzed using NIOSH Method 7402. The NIOSH 7400 Method uses a transmission electron microscope (TEM) for the specific determination of asbestos fibers and bundles. The NIOSH 7402 method uses the fiber counting rules of the NIOSH 7400 PCM method (PCMe), therefore a more direct correlation can be made between the two methods.

All perimeter air monitoring results were less than 0.005 fibers per cubic centimeter of air



C. **Daily Personal Air Monitoring**

RCS Environmental conducted personal air monitoring of the abatement contractor's personnel. Samples were conducted on approximately 25% of the contractor's workforce. Personal samples were collected using calibrated low flow pumps. Samples were analyzed using the NIOSH 7400 PCM method. Samples were collected in a manner consistent with OSHA regulations for determining a Permissible Exposure Limit (PEL) and a 30-minute excursion limit.

All personal air monitoring results were below the OSHA PEL of 0.10 f/cc.

D. **Final Clearance Evaluation**

All work areas were visual inspected by an ODH certified Asbestos Hazard Evaluation Specialist. The inspection was thorough and complete as to identify any remaining asbestos dust or debris.

At the completion of the final visual inspection, the abatement activities for that work area was deemed complete.

IV. ***Comments and Follow-up Action***

All specified asbestos contaminated materials were removed and all work conformed to the work plan.

Based on the field notes, visual inspections, observations of work practices, inspection of work areas and air sample results, it is RCS Environmental's opinion that the project was conducted in compliance with regulatory and industry standards.



1	
2	
3	
4	
5	

SECTION 1

TEM Air Monitoring Data Sheets

JLLP-PRECISION000235

EAB CERCLA 106(b) 12-01 001471

CERTIFICATE OF ANALYSIS

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

TEM AIR SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location</u>	<u>Volume</u>	<u>Result</u>	<u>Asbestos Types</u>
4429701A	01A/01B	WestSideOfProperty SouthPastEndOfBldg. 082311/082411	1576 Liters	<11.0 Fibers/mm ² <0.0027 Fibers/cc	None Detected
4429702A	02A/02B	WestSideOfProperty @WestSideGate 082311/082411	1572 Liters	<11.0 Fibers/mm ² <0.0027 Fibers/cc	None Detected
4429703A	03A/03B	SouthwestCorner OfProperty 082311/082411	1566 Liters	<11.0 Fibers/mm ² <0.0027 Fibers/cc	None Detected
4429704A	04A/04B	South Center Of Property 082311/082411	1562 Liters	<11.0 Fibers/mm ² <0.0027 Fibers/cc	None Detected
4429705A	05A/05B	East Side East Of Property 082311/082411	1554 Liters	11.0 Fibers/mm ² 0.0027 Fibers/cc	Chrysotile
4429706A	06A/06B	North End Inside Decon Area 082311/082411	1552 Liters	<11.0 Fibers/mm ² <0.0027 Fibers/cc	None Detected

NIST-NVLAP No. 101165-0

AIHA Lab No. 100188

NYS-DOH No. 11021

Methodology: NIOSH 7402

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.
IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).
These results are not blank corrected.*

Analysis Performed By: C. Liska

Approved By: 

Date: 9/21/2011

Page 1 of 2

Frank E. Ehrenfeld, III
Laboratory Director

JLLP-PRECISION000236

EAB CERCLA 106(b) 12-01 001472

CERTIFICATE OF ANALYSIS

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

TEM AIR SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location</u>	<u>Volume</u>	<u>Result</u>	<u>Asbestos Types</u>
4429707A	07A/07B	Field Blank 082311/082411	NA Liters	<11.0 Fibers/mm ³ NA Fibers/cc	None Detected

NIST-NVLAP No. 101165-0

AIHA Lab No. 100188

NYS-DOH No. 11021

Methodology: NIOSH 7402

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.
IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).
These results are not blank corrected.*

Analysis Performed By: C. Liska

Date: 9/21/2011

Page 2 of 2

JLLP-PRECISION000237

EAB CERCLA 106(b) 12-01 001473



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429701A
Client Sample No.: 01A/01B

Description/ Location: WestSideOfProperty
SouthPastEndOfBldg.
082311/082411

Volume: 1576 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0027 Fibers/cc

ASBESTOS FIBERS: None Detected
≥0.5µm to <5.0µm: None Detected
≥5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 fcc). These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429702A
Client Sample No.: 02A/02B

Description/ Location: WestSideOfProperty
@WestSideGate
082311/082411

Volume: 1572 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 μm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0027 Fibers/cc

ASBESTOS FIBERS: None Detected
≥0.5 μm to <5.0 μm: None Detected
≥5.0 μm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429703A
Client Sample No.: 03A/03B

Description/ Location: Southwest Corner
Of Property
082311/082411

Volume: 1566 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0027 Fibers/cc

ASBESTOS FIBERS: None Detected
>=0.5µm to <5.0µm: None Detected
>=5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429704A
Client Sample No.: 04A/04B

Description/ Location: South Center
Of Property
082311/082411

Volume: 1562 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0027 Fibers/cc

ASBESTOS FIBERS: None Detected
≥0.5µm to <5.0µm: None Detected
≥5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429705A
Client Sample No.: 05A/05B

Description/ Location: East Side
East Of Property
082311/082411

Volume: 1554 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0027 Fibers/cc

ASBESTOS FIBERS: 1
>=0.5µm to <5.0µm: 1
>=5.0µm: None Detected
Fibers/Area: 11.0 Fibers/mm²
Concentration: 0.0027 Fibers/cc
Types Identified: Chrysotile
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L. (0.0074 f/cc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429706A
Client Sample No.: 06A/06B

Description/ Location: North End Inside
Decon Area
082311/082411

Volume: 1552 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 μm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0027 Fibers/cc

ASBESTOS FIBERS: None Detected
≥0.5μm to <5.0μm: None Detected
≥5.0μm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0027 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.
IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).
These results are not blank corrected.*

Analysis Performed By: C. Liska

Date: 9/21/2011

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:IATL No.: 4429707A
Client Sample No.: 07A/07BDescription/ Location: Field Blank
082311/082411Volume: NA Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: NA Fibers/ccASBESTOS FIBERS: None Detected
>=0.5µm to <5.0µm: None Detected
>=5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: NA Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: NA Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLP, AIHA or any agency of the U.S. government.**IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.**Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).**These results are not blank corrected.*

Analysis Performed By: C. LiskaDate: 9/21/2011

Page 7 of 7

JLLP-PRECISION000244

EAB CERCLA 106(b) 12-01 001480



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

-Airborne Asbestos -

<u>Contact Information</u>	
Client Company: <u>RCS ENVIRONMENTAL</u>	Project Number: _____
Office Address: <u>2012 SHAKERCREST</u>	Project Name: <u>CLEVELAND TRENCH</u>
City, State, Zip: <u>BEACHWOOD, OH 44122</u>	Primary Contact: <u>MIKE SCHMIDT</u>
Fax Number: _____	Office Phone: <u>216-378-0997</u>
Email Address: <u>R</u> <u>RCSenvironmental@msn.com</u>	Cell Phone: _____

<u>Analysis/Instructions:</u>
<input checked="" type="checkbox"/> PCM
<input checked="" type="checkbox"/> TEM - <u>NIOSH 7402</u>
<input type="checkbox"/> PLM
<input type="checkbox"/> Other _____
<u>Method (specify): PLEASE USE METHOD 7400 AND 7402 ON EACH CASSETTE</u>
<u>Special Instructions:</u>

<u>Turnaround Time</u>
Preliminary Results Requested Date: _____ <input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
<div style="text-align: center; font-size: small;">Specific date / time</div> <input type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**
Note: Viable/Culturable samples may require several days in order to establish countable colony forming units (CFU) of fungi. * End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

<u>Chain of Custody</u>			
Relinquished (Name/Organization): <u>MSH LLC</u>	Date: <u>9/6/11</u>	R E C E I V E D	Time: <u>5PM</u>
Received (Name / IATL): _____	Date: _____		Time: <u>SEP 20 2011</u>
Sample Login (Name / IATL): <u>OH 9/6/11</u>	Date: _____		Time: _____
Analysis (Name(s) / IATL): <u>MSH</u>	Date: <u>9-27-11</u>		Time: _____
QA/QC Review (Name / IATL): <u>MSH</u>	Date: _____	IATL	Time: <u>By</u>
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

Sample Log

–Airborne Asbestos–

Client: ~~RCS~~ RCS ENVIRONMENTAL Project: CLEVELAND TRENCHER

Sampling Date: 8/23-24/11

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft ²) Volume (L)	Results ()
082411-01B 082311-01A	4429701					1576	
082411-02B 082311-02A	4429702					1572	
082411-03B 082311-03A	4429703					1566	
082411-04B 082311-04A	4429704					1562	
082411-05B 082311-05A	4429705					1554	
082411-06B 082311-06A	4429706					1552	
082411-07B 082311-07A	4429707	BLANK					

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

BATCH / SAMPLE MANAGEMENT REPORT

Customer No.: RCS486 **Batch Number:** 252487
Customer: RCS Environmental Group **Project:** Cleveland Trencher
2812 Shakercrest Blvd
Beachwood OH 44122 **Project Number:**
Customer Rep: SC **TAT:** 3 Day
of Samples: 7 **Analysis:** TEM NIOSH **Date/Time Rec'd:** 9/16/2011
Time/Date Due: 9/21/2011

E-MAILED

Initials Signaling Acknowledgement RTP: _____ To PLM NOB _____ To TEM NOB _____

Special Instructions:

Admin Notes: rcsevironmental@msn.com

Shipping Error:

- _____ Samples were not received in a sealed container. Bulk samples not double bagged.
- _____ Air Cassettes received open in bag... sample integrity compromised, possible contamination.
- _____ Samples received wet.
- _____ Samples received covered with dust... possible cross contamination.
- _____ Sample containers damaged, contents spilled... possible cross contamination.
- _____ Paperwork received in the same bag as samples possible contamination.
- _____ No / Incomplete Chain of Custody Received.
- _____ No / Incomplete Sample Log Received.
- _____ Sample container IDs do not match the client's sample log.
- _____ No Turnaround Time indicated.
- _____ PCM Re-prep for TEM NIOSH 7402. Cassettes previously opened and portion of filter removed.
- _____ Blank(s) not submitted as required by the requested analytical method.
- _____ Minimum shipping requirements not attained. See attached Carrier Air Bill.
- _____ Other: _____

Batch Error:

- _____ Wrong Client ID Listed:
- _____ Wrong Client Location Listed:
- _____ Wrong Project ID Listed:
- _____ Wrong TurnAround Time Listed:
- _____ Wrong Due Date Listed:
- _____ Wrong Date/Time Received Listed:
- _____ Wrong Analysis Method Listed:
- _____ Wrong Number of Samples Listed:

Login Error:

- _____ Sample Log Stamped Incorrectly:
- _____ Sample Containers Mislabeled:
- _____ Duplicate / Extra Samples Not Stamped:
- _____ Analyst Bench Sheet Error:



RCS Environmental Group

ASBESTOS AIR MONITORING REPORT

Date 8/23/2011[Ⓟ]
 Client _____
 Project _____
 Project No. _____
 Analytical Method _____

DESCRIPTIVE INFORMATION

SAMPLE I.D.	SAMPLE TYPE	WORKERS NAME	SOCIAL SECURITY #	LOCATION	ACTIVITY	RESPIRATOR TYPE
082311-01A	BGD			Westside of Property South past end of Builts		
082311-02A	BGD			Westside of Property @ Westside Gate		
082311-03A	BGD			Southwest corner of Property		
082311-04A	BGD			South center of Property		
082311-05A	BGD			Eastside East of Property		
082311-06A	BGD			Northend inside Decon Area		
082311-07A	FB			Field Blank		

ANALYTICAL INFORMATION

SAMPLE I.D.	PUMP #	CALIB. FLOW RATE (L/min)			RUNNING TIME (min)			VOLUME (Liters)	FIBERS/ FIELDS	FIBERS/ mm ³ (Blank Corr)	LOG FIBERS/ cm ³	FIBER/cm ³ (Blank Corr)
		BEGINNING	END	AVERAGE	START	STOP	DURATION					
082311-01A	20	2.0	2.0	2.0	0808	1449	401	802				
082311-02A	76	2.0	2.0	2.0	0810	1452	402	704				
082311-03A	49	2.0	2.0	2.0	0813	1435	402	804				
082311-04A	99	2.0	2.0	2.0	0819	1458	399	798				
082311-05A	87	2.0	2.0	2.0	0824	1500	396	792				
082311-06A	54	2.0	2.0	2.0	0832	1506	394	788				
082311-07A	NA	NA	NA		NA							

KEY TO ABBREVIATIONS

SAMPLE TYPE	ACTIVITY	RESPIRATOR
PRS = personal	FC = final clearance	HM = half mask
HEX = hepa exhaust	BXC = excursion	FF = full face
FB = field blank	IWA = inside work area	P = powered
		APR = air purifying resp.
	REM = removal	
	CLN = clean-up	
	GLBG = glovebag	
	WA, O = waste load-out	

Comments _____
 Sampled by [Signature] Date 8/23/2011
 Analyzed by _____ Date _____

JLLP-PRECISION000248



RCS Environmental Group

ASBESTOS AIR MONITORING REPORT

Date 8/24/2011 (8)
 Client _____
 Project _____
 Project No. _____
 Analytical Method _____

DESCRIPTIVE INFORMATION

SAMPLE I.D.	SAMPLE TYPE	WORKERS NAME	SOCIAL SECURITY #	LOCATION	ACTIVITY	RESPIRATOR TYPE
082411-01B	BGD			Westside of Property South West end of Building		
082411-02B	BGD			Westside of Property @ Westside Gate		
082411-03B	BGD			South West Corner of Property		
082411-04B	BGD			South Center of Property		
082411-05B	BGD			Eastside East of Property		
082411-06B	BGD			North end inside Decon Area		
082411-07B	FB			Field Blank		

ANALYTICAL INFORMATION

SAMPLE I.D.	PUMP #	CALIB. FLOW RATE (L/min)			RUNNING TIME (min)			VOLUME (Liters)	FIBERS/FIELDS	FIBERS/mm ³ (Blank Corr)	LOG FIBERS/cm ³	FIBER/cm ³ (Blank Corr)
		BEGINNING	END	AVERAGE	START	STOP	DURATION					
082411-01B	20	2.0	2.0	2.0	0825	1452	387	771				
082411-02B	79	2.0	2.0	2.0	0820	1454	384	768				
082411-03B	99	2.0	2.0	2.0	0824	1455	381	762				
082411-04B	99	2.0	2.0	2.0	0829	1501	382	764				
082411-05B	87	2.0	2.0	2.0	0842	1506	384	762				
082411-06B	54	2.0	2.0	2.0	0850	1512	382	764				
082411-07B	NA	NA	NA	NA	NA	NA						

KEY TO ABBREVIATIONS

SAMPLE TYPE	ACTIVITY	RESPIRATOR
PRB = personal	FC = final clearance	HM = half mask
HEX = hepa exhaust	BXC = excursion	FF = full face
FB = field blank	IWA = inside work area	P = powered
	WLO = waste load-out	APR = air purifying resp.

Comments _____
 Sampled by [Signature] Date 8/24/2011
 Analyzed by _____ Date _____

JLLP-PRECISION000249

PRELIMINARY RESULTS
Airborne Asbestos Analysis
TEM NIOSH

REVISED
10:30 AM

Client: RCS Environmental Group
2812 Shakercrest Blvd.
Beachwood OH 44122
Client No.: RCS486

Project: Cleveland Trencher 9-21-11 JA
Project No.: _____
PCM Reprep(y/n) y
Turn-Around Time: _____ 3 Day

Client Contacts:		Laboratory Contacts:	
Contacts:	<u>Mike Schmidt</u>	Contacts:	<u>Frank E. Ehrenfeld III</u>
Phone:	_____	Phone:	<u>(856) 231-9449</u>
Fax:	<u>0</u>	Fax:	<u>(856) 231-9818</u>
Cell/Pager:	<u>216-378-0997</u>	Cell/Pager:	<u>(856) 727-8904</u>
E-Mail:	<u>0</u>	E-Mail:	<u>frankehrenfeld@iatl.com</u>

Chain of Custody:			
Samples Taken in Field:	_____	Date:	_____ Time: _____
Samples Rec'd at Laboratory:	<u>DMD</u>	Date:	<u>9/16/11</u> Time: _____
Samples Analyzed:	<u>CL</u>	Date:	<u>9/21/11</u> Time: _____
Preliminary Results Faxed:	_____	Date:	_____ Time: _____
Preliminary Results E-Mail:	_____	Date:	_____ Time: _____

Summary Data
Transmission Electron Microscopy
NIOSH 7402

Client Sample ID #	IATL Sample ID #	Volume (L)	Comments	¹ Results f/mm ²	² Results f/cc	³ Results f/cc
082411-01B	4429701	1576	None Detected	< 11	< 0.0027	< 0.0027
082311-01A						
082411-02B	4429702	1572	None Detected	< 11	< 0.0027	< 0.0027
082311-02A						
082411-03B	4429703	1566	None Detected	< 11	< 0.0027	< 0.0027
082311-03A						
082411-04B	4429704	1562	None Detected	< 11	< 0.0027	< 0.0027
082311-04A						
082411-05B	4429705	1554	Chrysotile	11	0.0027	0.0027
082311-05B						
082411-06B	4429706	1552	None Detected	< 11	< 0.0027	< 0.0027
082311-06A						

1 - Total Asbestos Fibers in relation to area analyzed. 2 - Total Asbestos Fibers of all sizes as a function of the volume of air sampled. 3 - Same as for 2 for fibers > 5.0 µm in length.

Grid Box #: 7169
Instrument (I, II): I

These preliminary results are issued by IATL to expedite procedures by the clients based upon the above data. IATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificates of Analysis will follow these preliminary results. The signed COAs are to be considered the official results.

TEM/NIOSH Prekm.001

JLLP-PRECISION000250

EAB CERCLA 106(b) 12-01 001486

CERTIFICATE OF ANALYSIS

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

TEM AIR SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location</u>	<u>Volume</u>	<u>Result</u>	<u>Asbestos Types</u>
4429708A	01A/01B	1/5Bldg.SouthEndBy CtrOfStandingBldg. 082511/082611	1522 Liters	<11.0 Fibers/mm ² <0.0028 Fibers/cc	None Detected
4429709A	02A/02B	WestSideOfProperty @WestSideGate 082511/082611	1520 Liters	<11.0 Fibers/mm ² <0.0028 Fibers/cc	None Detected
4429710A	03A/03B	SouthEndOfProperty NearCtrOfSouthSide 082511/082611	1514 Liters	<11.0 Fibers/mm ² <0.0028 Fibers/cc	None Detected
4429711A	04A/04B	EastSideIn TheSouthEnd 082511/082611	1502 Liters	<11.0 Fibers/mm ² <0.0028 Fibers/cc	None Detected
4429712A	05A/05B	EastSideOfProperty NearCtrOfEastSide 082511/082611	1500 Liters	<11.0 Fibers/mm ² <0.0028 Fibers/cc	None Detected
4429713A	06A/06B	South Side Of Decon Area 082511/082611	1490 Liters	<11.0 Fibers/mm ² <0.0028 Fibers/cc	None Detected

NIST-NVLAP No. 101165-0

AIHA Lab No. 100188

NYS-DOH No. 11021

Methodology: NIOSH 7402

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.
IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).
These results are not blank corrected.*

Analysis Performed By: C. Liska

Approved By: 

Date: 9/21/2011

Frank E. Ehrenfeld, III
Laboratory Director

JLLP-PRECISION000259

CERTIFICATE OF ANALYSIS

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

TEM AIR SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location</u>	<u>Volume</u>	<u>Result</u>	<u>Asbestos Types</u>
4429714A	07A/07B	NorthSideOfProperty EastOfOfficeBldg. 082511/082611	1486 Liters	<11.0 Fibers/mm ² <0.0028 Fibers/cc	None Detected
4429715A	08A/08B	Field Blank 082511/082611	NA Liters	<9.6 Fibers/mm ² NA Fibers/cc	None Detected

NIST-NVLAP No. 101165-0

AIHA Lab No. 100188

NYS-DOH No. 11021

Methodology: NIOSH 7402

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.
IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).
These results are not blank corrected.*

Analysis Performed By: C. Liska

Date: 9/21/2011

Page 2 of 2

JLLP-PRECISION000260

EAB CERCLA 106(b) 12-01 001496



Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429708A
Client Sample No.: 01A/01B

Description/ Location: I/SBldg. SouthEndBy
CtrOfStandingBldg.
082511/082611

Volume: 1522 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 μm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0028 Fibers/cc

ASBESTOS FIBERS: None Detected
>=0.5μm to <5.0μm: None Detected
>=5.0μm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 fcc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122**Report Date:** 9/21/2011
Project: Cleveland Trencher
Project No.:**IATL No.:** 4429709A
Client Sample No.: 02A/02B**Description/ Location:** WestSideOfProperty
@WestSideGate
082511/082611Volume: 1520 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm**ANALYSIS RESULTS:**Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0028 Fibers/cc**ASBESTOS FIBERS:** None Detected
>=0.5µm to <5.0µm: None Detected
>=5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:**NON-ASBESTOS FIBERS:** None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NYLAB, AIHA or any agency of the U.S. government.**IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.**Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc). These results are not blank corrected.***Analysis Performed By:** C. Liska**Date:** 9/21/2011



Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429710A
Client Sample No.: 03A/03B

Description/ Location: SouthEndOfProperty
NearCtrOfSouthSide
082511/082611

Volume: 1514 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0028 Fibers/cc

ASBESTOS FIBERS: None Detected
≥0.5µm to <5.0µm: None Detected
≥5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc). These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429711A
Client Sample No.: 04A/04B

Description/ Location: EastSideIn
TheSouthEnd
082511/082611

Volume: 1502 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 μm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0028 Fibers/cc

ASBESTOS FIBERS: None Detected
≥0.5μm to <5.0μm: None Detected
≥5.0μm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429712A
Client Sample No.: 05A/05B

Description/ Location: EastSideOfProperty
NearCtrOfEastSide
082511/082611

Volume: 1500 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 μm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0028 Fibers/cc

ASBESTOS FIBERS: None Detected
≥0.5μm to <5.0μm: None Detected
≥5.0μm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 fcc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122**Report Date:** 9/21/2011
Project: Cleveland Trencher
Project No.:**IATL No.:** 4429713A
Client Sample No.: 06A/06B**Description/ Location:** South Side
Of Decon Area
082511/082611Volume: 1490 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm**ANALYSIS RESULTS:**Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0028 Fibers/cc**ASBESTOS FIBERS:** None Detected
>=0.5µm to <5.0µm: None Detected
>=5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:**NON-ASBESTOS FIBERS:** None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).

These results are not blank corrected.

Analysis Performed By: C. Liska**Date:** 9/21/2011



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429714A
Client Sample No.: 07A/07B

Description/ Location: NorthSideOfProperty
EastOfOfficeBldg.
082511/082611

Volume: 1486 Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 7
Opening Area: 0.013 mm²
Area Analyzed: 0.091 mm²
Sensitivity: 11.0 Fibers/mm²
Detection Limit: 0.0028 Fibers/cc

ASBESTOS FIBERS: None Detected
>=0.5µm to <5.0µm: None Detected
>=5.0µm: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <11.0 Fibers/mm²
Concentration: <0.0028 Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc).

These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011

Transmission Electron Microscopy - Sample Data

Client: RCS Environmental Group
2812 Shakercrest Blvd
Beachwood OH 44122

Report Date: 9/21/2011
Project: Cleveland Trencher
Project No.:

IATL No.: 4429715A
Client Sample No.: 08A/08B

Description/ Location: Field Blank
082511/082611

Volume: NA Liters
Filter Type: MCE
Filter Size: 385 mm²
Pore Size: 0.80 µm

ANALYSIS RESULTS:

Grid Openings: 8
Opening Area: 0.013 mm²
Area Analyzed: 0.104 mm²
Sensitivity: 9.60 Fibers/mm²
Detection Limit: NA Fibers/cc

ASBESTOS FIBERS: None Detected
>=0.5µm to <5.0µm: None Detected
>=5.0µm: None Detected
Fibers/Area: <9.6 Fibers/mm²
Concentration: NA Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:

NON-ASBESTOS FIBERS: None Detected
Fibers/Area: <9.6 Fibers/mm²
Concentration: NA Fibers/cc
Types Identified: None Detected
Type 2:
Type 3:
Type 4:

Micrograph Number:
X-Ray Spectrum Number:

Methodology: NIOSH 7402

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, ALHA or any agency of the U.S. government.

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.

Method requires submittal of blanks for analysis. Detection Limit (Reporting Limit) is dependent upon the volume of air sampled. NIOSH guidelines recommend a minimum of 400 L (0.0074 f/cc). These results are not blank corrected.

Analysis Performed By: C. Liska

Date: 9/21/2011



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

- Airborne Asbestos -

<u>Contact Information</u>	
Client Company: <u>RCS ENVIRONMENTAL</u>	Project Number: _____
Office Address: <u>2812 SHAKERCROST</u>	Project Name: <u>CLEVELAND TRENCH</u>
City, State, Zip: <u>BEACHWOOD, OH 44122</u>	Primary Contact: <u>MIKE SCHMIOT</u>
Fax Number: _____	Office Phone: <u>216-378-0997</u>
Email Address: _____	Cell Phone: _____
<u>RCSENVIRONMENTAL@MSN.COM</u>	

<u>Analysis/Instructions:</u>
<input checked="" type="checkbox"/> PCM
<input checked="" type="checkbox"/> TEM - NIOSH 7402
<input type="checkbox"/> PLM
<input type="checkbox"/> Other _____
Method (specify): <u>PLEASE USE USE METHOD 7400 AND 7402 ON EACH CASSETTE.</u>
Special Instructions: _____

<u>Turnaround Time</u>
Preliminary Results Requested Date: _____ <input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
<div style="text-align: center; font-size: small;">Specific date / time</div> <input type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**
Note: Viable/Culturable samples may require several days in order to establish countable colony forming units (CFU) of fungi. * End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

<u>Chain of Custody</u>	
Relinquished (Name/Organization): <u>M. Schmiot (RCS)</u>	Date: <u>9/14/07</u>
Received (Name / IATL): _____	Time: _____
Sample Login (Name / IATL): <u>207 911644</u>	Date: _____
Analysis (Name(s) / IATL): _____	Time: _____
QA/QC Review (Name / IATL): _____	Date: _____
Archived / Released: _____	Time: _____
QA/QC InterLAB Use: _____	Date: _____

RECEIVED

IATL - BY [Signature]



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Airborne Asbestos –

Client: RCS ENVIRONMENTAL Project: CLEVELAND TRENCHER

Sampling Date: 8/25-26/11

Client Sample #	iATL #	Location/Description	Flow Rate	Start End	Sampling time (min)	Area (62) Volume (L)	Results ()
082611-01B 082511-01A	4429708					1522	
082611-02B 082511-02A	4429709					1520	
082611-03B 082511-03A	4429710					1514	
082611-04B 082511-04A	4429711					1502	
082611-05B 082511-05A	4429712					1500	
082611-06B 082511-06A	4429713					1490	
082611-07B 082511-07A	4429714					1486	
082611-08B 082511-08A	4429715	BLANK				N/A	

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)
 ** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.
 These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.



RCS Environmental Group

ASBESTOS AIR MONITORING REPORT

Date 8/25/2011
 Client _____
 Project _____
 Project No. _____
 Analytical Method _____

DESCRIPTIVE INFORMATION

SAMPLE I.D.	SAMPLE TYPE	WORKERS NAME	SOCIAL SECURITY #	LOCATION	ACTIVITY	RESPIRATOR TYPE
082511-01A	BGD			Inside Building Southend of Center of standing Building		
082511-02A	BGD			Westside of Property @ Westside Gate		
082511-03A	BGD			Southend of Property Near Center of Southside		
082511-04A	BGD			Eastside in the Southend		
082511-05A	BGD			Eastside of Property Near Center of Eastside		
082511-06A	BGD			Southside of Decan Area		
082511-07A	BGD			Northend of Property East of Office Building		
082511-08A	FB			Field Blank		

ANALYTICAL INFORMATION

SAMPLE I.D.	PUMP #	CALIB. FLOW RATE (L/min)			RUNNING TIME (min)			VOLUME (Liters)	FIBERS/FIELDS	FIBERS/mm ³ (Blank Corr)	LOG FIBERS/cm ³	FIBER/cm ³ (Blank Corr)
		BEGINNING	END	AVERAGE	START	STOP	DURATION					
082511-01A	49	2.0	2.0	2.0	0817	1451	396	792				
082511-02A	20	2.0	2.0	2.0	0820	1454	394	788				
082511-03A	54	2.0	2.0	2.0	0826	1458	392	784				
082511-04A	99	2.0	2.0	2.0	0833	1459	386	772				
082511-05A	87	2.0	2.0	2.0	0837	1503	396	792				
082511-06A	79	2.0	2.0	2.0	0841	1505	384	768				
082511-07A	P02	2.0	2.0	2.0	0849	1509	380	760				
082511-08A	NA	NA	NA	NA	NA	NA	NA					

KEY TO ABBREVIATIONS

SAMPLE TYPE	ACTIVITY	RESPIRATOR
PRS = personal HEX = haps exhaust FB = field blank BGD = background	FC = final clearance EXC = excursion IWA = inside work area OWA = outside work area	REM = removal CLN = clean-up GLBG = glovebag WLO = waste load-out

Comments _____
 Sampled by [Signature] Date 8/25/2011
 Analyzed by _____ Date _____

JLLP-PRECISION000271



RCS Environmental Group

ASBESTOS AIR MONITORING REPORT

Date 8/26/2011
 Client _____
 Project _____
 Project No. _____
 Analytical Method _____

DESCRIPTIVE INFORMATION

SAMPLE I.D.	SAMPLE TYPE	WORKERS NAME	SOCIAL SECURITY #	LOCATION	ACTIVITY	RESPIRATOR TYPE
B2611-01B	BGD			Tinside Building Southend by Center of Stanley Buid		
B2611-02B	BGD			Westside of Property @ Westside Gate		
B2611-03B	BGD			Southend of Property Near Center of South		
B2611-04B	BGD			Eastside in the Southend		
B2611-05B	BGD			Eastside of Property Near Center of Eastside		
B2611-06B	BGD			Southside of Daxon Area		
B2611-07B	BGD			Northend of Property East of Office Building		
B2611-08B	FB			Field Blank		

ANALYTICAL INFORMATION

SAMPLE I.D.	PUMP #	CALIB. FLOW RATE (L/min)			RUNNING TIME (min)			VOLUME (Liters)	FIBERS/FIELDS	FIBERS/mm ² (Blank Corr)	LOG FIBERS/cm ³	FIBER/cm ³ (Blank Corr)
		BEGINNING	END	AVERAGE	START	STOP	DURATION					
B2611-01B	49	2.0	2.0	2.0	0730	1335	363	730				
B2611-02B	20	2.0	2.0	2.0	0732	1338	366	732				
B2611-03B	54	2.0	2.0	2.0	0735	1340	365	730				
B2611-04B	99	2.0	2.0	2.0	0737	1342	365	730				
B2611-05B	87	2.0	2.0	2.0	0740	1344	364	728				
B2611-06B	79	2.0	2.0	2.0	0744	1345	361	722				
B2611-07B	P02	2.0	2.0	2.0	0747	1350	363	726				
B2611-08B	NA	NA	NA	NA	NA							

KEY TO ABBREVIATIONS

SAMPLE TYPE	ACTIVITY	RESPIRATOR
PRS = personal HEX = hepa exhaust FB = field blank	FC = final clearance EXC = excursion IWA = inside work area	REM = removal CLN = clean-up GLBG = glovebag WR = waste bag-out
		HM = half mask FF = full face P = powered APR = air purifying resp.

Comments _____

Sampled by Cliff Date 8/26/2011

JLLP-PRECISION000272

BATCH / SAMPLE MANAGEMENT REPORT

Customer No.: RCS486 Batch Number: **252489**
Customer: RCS Environmental Group Project: **Cleveland Trencher**
2812 Shakercrest Blvd Beachwood OH **44122** Project Number:
Customer Rep: SC TAT: **3 Day**
Date/Time Rec'd: **9/16/2011**
of Samples: **8** Analysis: **TEM NIOSH** Time/Date Due: **9/21/2011**

Initials Signaling Acknowledgement RTP: _____ To PLM NOB _____ To TEM NOB _____

Special Instructions:

Admin Notes: rcsenvironmental@msn.com

Shipping Error:

- _____ Samples were not received in a sealed container. Bulk samples not double bagged.
- _____ Air Cassettes received open in bag... sample integrity compromised, possible contamination.
- _____ Samples received wet.
- _____ Samples received covered with dust... possible cross contamination.
- _____ Sample containers damaged, contents spilled... possible cross contamination.
- _____ Paperwork received in the same bag as samples possible contamination.
- _____ No / Incomplete Chain of Custody Received.
- _____ No / Incomplete Sample Log Received.
- _____ Sample container IDs do not match the client's sample log.
- _____ No Turnaround Time indicated.
- _____ PCM Re-prep for TEM NIOSH 7402. Cassettes previously opened and portion of filter removed.
- _____ Blank(s) not submitted as required by the requested analytical method.
- _____ Minimum shipping requirements not attained. See attached Carrier Air Bill.
- _____ Other: _____

Batch Error:

- _____ Wrong Client ID Listed:
- _____ Wrong Client Location Listed:
- _____ Wrong Project ID Listed:
- _____ Wrong TurnAround Time Listed:
- _____ Wrong Due Date Listed:
- _____ Wrong Date/Time Received Listed:
- _____ Wrong Analysis Method Listed:
- _____ Wrong Number of Samples Listed:

Login Error:

- _____ Sample Log Stamped Incorrectly:
- _____ Sample Containers Mislabeled:
- _____ Duplicate / Extra Samples Not Stamped:
- _____ Analyst Bench Sheet Error:

PRELIMINARY RESULTS
Airborne Asbestos Analysis
TEM NIOSH

9-21-11 TH
12:20 PM

Client: RCS Environmental Group
2812 Shakercrest Blvd.
Beachwood OH 44122

Client No.: RCS486

Project: Cleveland Trencher
Project No.: _____
PCM Reprep(y/n) y
Turn-Around Time: _____ 3 Day

Client Contacts:	Laboratory Contacts:
Contacts: <u>Mike Schmidt</u>	Contacts: <u>Frank E. Ehrenfeld III</u>
Phone: _____	Phone: <u>(856) 231-9449</u>
Fax: <u>0</u>	Fax: <u>(856) 231-9818</u>
Cell/Pager: <u>216-378-0997</u>	Cell/Pager: <u>(856) 727-8904</u>
E-Mail: <u>0</u>	E-Mail: <u>frankehrenfeld@iatl.com</u>

Chain of Custody:			
Samples Taken in Field:	_____	Date: _____	Time: _____
Samples Rec'd at Laboratory:	<u>DMD</u>	Date: <u>9/16/11</u>	Time: _____
Samples Analyzed:	<u>CL</u>	Date: <u>9/21/11</u>	Time: _____
Preliminary Results Faxed:	_____	Date: _____	Time: _____
Preliminary Results E-Mail:	_____	Date: _____	Time: _____

Summary Data
Transmission Electron Microscopy
NIOSH 7402

Client Sample ID #	IATL Sample ID #	Volume (L)	Comments	¹ Results f/mm ²	² Results f/cc	³ Results f/cc
082611-01B	4429708	1522	None Detected	< 11	< 0.0028	< 0.0028
082611-02B	4429709	1520	None Detected	< 11	< 0.0028	< 0.0028
082611-03B	4429710	1514	None Detected	< 11	< 0.0028	< 0.0028
082611-04B	4429711	1502	None Detected	< 11	< 0.0028	< 0.0028
082611-05B	4429712	1500	None Detected	< 11	< 0.0028	< 0.0028
082611-06B	4429713	1490	None Detected	< 11	< 0.0028	< 0.0028
082611-07B	4429714	1486	None Detected	< 11	< 0.0028	< 0.0028
082611-08B	4429715	FB	None Detected	< 9.62	< NA	< NA

1 - Total Asbestos Fibers in relation to area analyzed. 2 - Total Asbestos Fibers of all sizes as a function of the volume of air sampled. 3 - Same as for 2 for fibers > 5.0 µm in length.

Grid Box #: 7170
Instrument (I, II): I

These preliminary results are issued by IATL to expedite procedures by the clients based upon the above data. IATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificates of Analysis will follow these preliminary results. The signed COAs are to be considered the official results.

SECTION 2

PCM Air Monitoring Data Sheets

JLLP-PRECISION000283

EAB CERCLA 106(b) 12-01 001519