

Soil and Debris Sampling to Determine Asbestos Content

Federal Center – Building 107
4300 Goodfellow
St. Louis, Missouri

Contract #: GX-06P-10-GX-A-0021/GS-P-06-11-GX-5188, (06020805)

Terracon Project No: 15119080

Prepared for:

General Services Administration
Heartland Region
Facilities Management Division
1500 East Bannister Rd (6PME)
Room 2101
Kansas City, Missouri 64131

Prepared by:

Terracon Consultants, Inc.
Lenexa, Kansas

Date:

April 17, 2012

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities



April 17, 2012

General Services Administration
Heartland Region
Facilities Management Division
1500 East Bannister Rd (6PME)
Room 2101
Kansas City, Missouri 64131

Attn: Mr. Gary Adams
P: [816] 823-1704
E: gary.adams@gsa.gov

Re: Soil and Debris Sampling to Determine Asbestos Content
Federal Center – Building 107
4300 Goodfellow
St. Louis, Missouri
Terracon Project Number: 15119080


Dear Mr. Adams:

Terracon Consultants, Inc. is pleased to provide this report detailing the results of soil and debris sampling conducted from the crawl space beneath Building 107 at the Goodfellow Federal Center in St. Louis Missouri. The work was initiated under contract GX-06P-10-GX-A-0021/GS-P-06-11-GX-5188, (06020805).

Asbestos was found in samples collected from debris and soil in the crawlspace of Building 107.

We appreciate the opportunity to be of service to you on this project. If there are any questions concerning the report, or if we may be of further assistance, please contact Allen R. Bartels at 913.492.7777 or by e-mail at arbartels@terracon.com.

Sincerely,
TERRACON CONSULTANTS, INC.


Allen Bartels, MBA
Department Manager Asbestos Services



Terracon Consultants, Inc. 13910 West 96th Terrace, Lenexa, KS 66215
P [913] 492 7777 F [913] 492 7443 Terracon.com

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

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SOIL AND DEBRIS SAMPLING TO DETERMINE ASBESTOS CONTENT REPORT

FEDERAL CENTER – BUILDING 107

4300 GOODFELLOW

ST. LOUIS, MISSOURI

Terracon Project No: 02119080

April 17, 2012

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted soil and debris sampling to determine asbestos content in the crawl space beneath Building 107 located on the Federal Center Complex, 4300 Goodfellow, St. Louis, Missouri. Sample collection was conducted on March 12 through March 15, 2012 by AHERA-accredited asbestos inspectors in general accordance with Terracon Proposal No: 02119080 dated February 14, 2012.

1.1 Project Objective

The purpose of the sampling is to determine the extent of asbestos-containing debris and soil contamination.

2.0 BUILDING DESCRIPTION

Building 107 is a two-story office building with a partial basement and crawlspace. The structure is constructed of brick exterior walls with concrete floor decking, and a flat built-up roof. Interior finishes are wallboard, and hard plaster walls and ceilings, and acoustical ceiling tiles; floors are covered with carpet, ceramic tile or vinyl tile. The heating, ventilation and air-conditioning system is a combination radiant heat, and forced-air heating and cooling systems. The conditioned air is produced by air-handler units located in the basement and distributed throughout the building through a galvanized duct work system.

Access to the crawl space was through a doorway along the north wall of the basement mechanical room. The crawl space has a dirt floor and contains ductwork, plumbing, and heating and chilled water pipe runs.

3.0 FIELD ACTIVITIES

The sampling was conducted by Kevin Arnold and Eric Schatz, AHERA-accredited and Missouri certified asbestos inspectors. Copies of Mr. Arnold's and Mr. Schatz's asbestos inspector certificates are attached as Appendix A.

Asbestos Survey

Federal Center – Building 107 • St. Louis, Missouri
April 17, 2012 • Terracon Project No: 15119080

Terracon

3.1 Sampling Area

The surface area of the soil within the crawlspace was determined to be approximately 9,000 (180' x 50') square feet. This area was subdivided into approximately 25 square foot (sf²) grids for sample collection. The crawl space was subdivided into 360 grids. Each grid was sequentially numbered starting at the northwest corner with number one (1).

A concrete wall along the west wall obstructed access to grids 41, 51, 61, and 71. Eight grids (45, 85, 125, 165, 205, 245, 285, and 325) were covered by concrete footings. An additional eight grids (47, 87, 127, 167, 207, 247, 287, and 327) were 90% covered by concrete footings and therefore, those grids were combined with the adjoining grid (e.g., 48) for collecting soil samples. Pieces of concrete covered twenty-two (22) grids (251, 252 through 351, 352) along the west wall and these grids were not inspected or sampled.

3.2 Debris Sampling

A visual inspection was completed of each 25 sf² grid for the presence of suspect asbestos-containing debris and, if identified, one (1) sample of the suspect asbestos-containing debris was collected. When loose soil was present and there was no visible surface debris, the soil was be delicately raked to an approximate one inch (1") depth to determine if suspect asbestos-containing debris was beneath the surface and, if identified, one (1) sample of the suspect asbestos-containing debris was collected. Once debris was identified and sampled, additional raking ceased in the remaining portion of the 25 sf² grid. No more than one (1) debris sample was collected for each 25 sf² grid. A total of 129 debris samples were collected.

3.3 Soil Sampling

Five (5) surface soil samples were collected from evenly distributed locations within each 25 sf² grid. The five (5) soil samples were combined into one (1) sample container to represent a composite sample for the entire 25 sf² grid. Each sample container contained graduated markings to ensure, as much as possible, that the same volume of soil was collected from the five locations within each 25 sf² grid. The amount of soil collected from each distributed location was approximately 25 cm³. Each of the five (5) 25 cm³ samples was composited into one (1) 125 cm³ sample or approximately ½ cup in total. No more than one (1) composite soil sample was collected from each 25 sf² grid. Due to the concrete footings soil was not present in grids 165, 205, 245, and 285. A total of 330 soil samples were collected.

Two sample containers were inadvertently labeled 175 and no sample container was labeled 176. The lab was instructed to combine both containers and the result are reported as sample number 175 & 176.

Asbestos Survey

Federal Center – Building 107 ■ St. Louis, Missouri
April 17, 2012 ■ Terracon Project No: 15119080

Terracon

3.4 Exposure Monitoring

The two (2) Terracon employees were fitted with personal air pumps to monitor airborne fiber exposure levels during the sample collection process. One 30 minute excursion sample and two eight (8)-hour TWA sample were collect for each day that sampling activities were performed. A total of 12 personal air samples were collected. The Exposure Monitoring results did not exceed the 0.1 fibers per cubic centimeter (f/cc) for an eight-hour TWA or 1.0 f/cc for a 30-minute sampling period (excursion limit).The Exposure Monitoring results and TWA calculations are presented in Appendix B.

3.5 Sample Analysis

Debris, soil and air samples were submitted under chain of custody to Bureau Veritas North America, Inc. of Kennesaw, Georgia.

Debris samples were analyzed by polarized light microscopy (PLM) with dispersion staining techniques per EPA/600/R-93/116 test method. Asbestos was identified in 93 of the 129 debris samples analyzed.

Spoil samples were analyzed using the method for semi-quantitative asbestos analysis of bulk/soil samples using transmission electron microcopy (TEM). Asbestos was identified in 59 of the 330 soil sampled analyzed.

Air samples were analyzed by phase contrast microscopy (PCM) NIOSH 7400 method "A" counting rules.

Bureau Veritas North America, Inc. of Kennesaw, Georgia is accredited under the National Voluntary Laboratory Accreditation Program NVLAP (101125-0). The laboratory reports are included in Appendix C.

4.0 REGULATORY OVERVIEW

The Occupational Safety and Health Administration (OSHA) Asbestos standard for the construction industry (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne fibers be maintained below 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight (8) hour time-weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1. f/cc) over a 30 minute time period, the excursion limit. The TWA and excursion limit together are known as the OSHA permissible exposure limits or PELs.

The Environmental Protection Agency (EPA) has determined that the definition of asbestos containing materials of greater than one percent (>1%) does not apply to soil. EPA states that asbestos found in soil when disturbed can result in harm to human health and the environment.

Asbestos Survey

Federal Center – Building 107 ■ St. Louis, Missouri

April 17, 2012 ■ Terracon Project No: 15119080

Terracon**5.0 FINDINGS AND RECOMMENDATIONS**

Asbestos-containing debris and soil were identified in samples collected. Attachment 1 provides detailed of locations where identified debris and soil is located.

6.0 GENERAL COMMENTS

This sampling was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our sampling of the crawl space beneath Building 107. The information contained in this report is relevant to the date on which this sampling was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the General Services Administration for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A
CERTIFICATIONS

Expiration Date: 8/26/2012 Certificate Number: 7118081811MOIR3156
Training Date: 8/18/2011

Missouri State Certificate for Asbestos Related Occupations

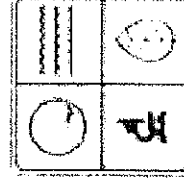
issued by Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

Kevin S. Arnold

has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

8/26/2011

Date



Director of Air Pollution Control Program

Expiration Date **2/23/2013**

Certificate Number: 7011020112MOII15757

Training Date: **2/1/2012**

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources

P.O. Box 176

Jefferson City, MO 65102

Phone (573) 751-4817

Eric A. Schatz

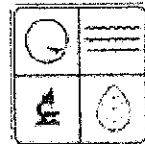
has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

2/24/2012

Date



Director of Air Pollution Control Program



APPENDIX B

EXPOSURE MONITORING RESULTS

EXCURSION MONITORING RESULTS

Federal Center – Building 107

4300 Goodfellow

St. Louis, Missouri

Terracon Project Number: 15119080

Sample No.	Date	Employee	Type	Total Minutes	Flow Rate (Liters/Min.)	Volume (Liters)	Fibers/CC	8-Hr. TWA
1	3/12/2012	KA	EX	26	2.0	52	<0.037	--
2	3/12/2012	ES	PER	96	2.0	192	0.031	0.006
3	3/12/2012	KA	PER	70	2.0	140	0.024	0.004
4	3/13/2012	ES	EX	30	2.0	60	<0.032	--
5	3/13/2012	ES	PER	275	2.0	550	0.019	0.019
6	3/13/2012	KA	PER	305	2.0	610	0.02	0.013
7	3/14/2012	ES	PER	138	2.0	276	0.012	0.003
8	3/14/2012	KA	EX	30	2.0	60	<0.032	--
9	3/14/2012	KA	PER	113	2.0	216	0.013	0.003
10	3/15/2012	ES	EX	30	2.0	60	0.036	--
11	3/15/2012	ES	PER	249	2.0	498	0.021	0.011
12	3/15/2012	KA	PER	279	2.0	558	0.018	0.01
13	--	--	Blank	--	--	--	--	--
14	--	--	Blank	--	--	--	--	--

KA = Kevin Arnold

ES = Eric Schatz

EX = Excursion sample

PER = Personal Sample

cc = cubic centimeter

TWA = Time Weighted Average

APPENDIX C

ASBESTOS LABORATORY ANALYTICAL REPORTS



March 26, 2012

Allen Bartels
TERRACON
13910 West 96th Terrace
Leneya, KS 66215

Bureau Veritas Work Order No. A1203228

Reference: 15119080 -Revised 3/26/12

Dear Allen Bartels:

Bureau Veritas North America, Inc. received 14 samples on March 19, 2012 for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a sixty-day holding period, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,

Alan M. Segrave, P.G.

Director, Laboratory Services

Electronic signature authorized through password protection

cc: Ks Arnold

Bureau Veritas North America, Inc.

Health, Safety, and Environmental Services
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144

Main: (770) 499-7701

Fax: (770) 499-7511

www.us.bureauveritas.com



CASE NARRATIVE

Date: 26-Mar-12

CLIENT: TERRACON
Project: 15119080 -Revised 3/26/12
Work Order No A1203228

Note: Project #'s changed per client request.

PHASE CONTRAST MICROSCOPY NIOSH 7400 METHOD "A" COUNTING RULES

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have been blank corrected as follows:

If a single field blank is submitted the data set is blank corrected. If multiple field blanks are submitted then the average is used to blank correct the data set. If field blanks are not submitted then the laboratory process blank is used to correct the data set. In all cases if field blank values are > 5 fibers/mm² the client is notified.

Samples are analyzed for fibers using the microscopic techniques currently specified by the National Institute for Occupational Safety and Health (NIOSH) Manual of Analytical Methods (Fourth Edition) Volume I, Method 7400, 1994. The technique consists of the following steps: a wedge-shaped section of each filter is carefully excised and mounted on a standard microscope slide, using the acetone vapor/triacetin method (or equivalent method) to render the filter transparent. Fibers are defined as those particles observable on the surface of the filter section having length-to-width aspect ratios equal to or greater than 3:1. Fibers meeting this criterion are counted using a binocular microscope equipped with 10 X eyepieces, a 40 X objective, and phase contrast illumination. Walton-Beckett (G-22) fields, selected at random on the sample, are examined and fibers longer than 5 micrometers are counted until either of two conditions is satisfied:

1. A minimum of 100 fibers is counted in 20 or more fields.
2. A maximum of 100 fields is examined.

Results of the microscopic analyses are used in conjunction with field sampling data (measured flowrates and duration of sampling) to calculate airborne fiber concentrations corresponding to each sample in units of fibers longer than 5 micrometers per cubic centimeter (cc) of air (fibers > 5 μ m in length/cc) and fibers longer than 5 micrometers per squared millimeter (mm²) of filter area (fiber > 5 μ m in



CLIENT: TERRACON
Project: 15119080 -Revised 3/26/12
Work Order No A1203228

length/mm²). (AIHA -100651, NYSDOH -11645).

References

"Asbestos and Other Fibers by Phase Contrast Microscopy (PCM)"- Manual 7400 - NIOSH Manual of Analytical Methods, 4th Edition, U.S. Department of HHS, NIOSH Publ. 94-113, 1994 (PCM).



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Work Order No.: A1203228

Client Reference: 15119080 -Revised 3/26/12

Sample Type: Air

Date Received: 03/19/2012

Method Reference: NIOSH 7400A

Report Date: 03/23/2012

RL (fibers/mm²): 5.0

Analyst: CG

Lab ID	Sample Identification	Date Sampled	Date Analyzed	Air Volume (liters)	Fiber Concentration		
					(fibers/mm ²)	(fibers/filter)	(fibers/cc)
001	1-KA-EXCURSION	03/12/2012	03/23/2012	52	<5.0	<1,900	<0.037
002	2-ES-PERSONAL	03/12/2012	03/23/2012	192	16	6,000	0.031
003	3-KA-PERSONAL	03/12/2012	03/23/2012	140	8.7	3,400	0.024
004	4-ES-EXCURSION	03/13/2012	03/23/2012	60	<5.0	<1,900	<0.032
005	5-ES-PERSONAL	03/13/2012	03/23/2012	550	27	11,000	0.019
006	6-KA-PERSONAL	03/13/2012	03/23/2012	610	32	12,000	0.020
007	7-ES-PERSONAL	03/14/2012	03/23/2012	276	8.7	3,400	0.012
008	8-KA-EXCURSION	03/14/2012	03/23/2012	60	<5.0	<1,900	<0.032
009	9-ES-PERSONAL	03/14/2012	03/23/2012	216	7.5	2,900	0.013
010	10-ES-EXCURSION	03/15/2012	03/23/2012	60	5.6	2,200	0.036
011	11-ES-PERSONAL	03/15/2012	03/23/2012	498	27	10,000	0.021
012	12-KA-PERSONAL	03/15/2012	03/23/2012	558	26	10,000	0.018
013	13-BLANK		03/23/2012	0	<5.0	<1,900	---
014	14-BLANK-FIELD		03/23/2012	0	<5.0	<1,900	---

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Work Order No.: A1203228

Client Reference: 15119080 -Revised 3/26/12

Microscope Documentation

Instrument	Manufacturer	Model	Field Area (mm ²)	Calibration Date
PCM 2	Olympus	BH-2	0.008014	3/8/2012

Laboratory Sr Values

Clint Gilbert (CG)

Range	Sr
0 - 20	0.208
20 - 50	0.241
50 - 100	0.185
> 100	0.129

Laboratory

Range	Sr
0 - 20	0.303
20 - 50	0.136
50 - 100	0.0784
> 100	0.158

Analyst(s) Name/Date:



3/26/2012

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
 Bureau Veritas Lab Project No.
A1203228



Bureau Veritas North America, Inc.

Detroit Lab
 22345 Roethel Drive
 Novi, MI 48375
 (800) 806-5887
 (248) 344-1770
 Fax (248) 344-2655

Atlanta Lab
 3380 Chastain Meadows Pkwy, Ste 300
 Kennesaw, GA 30144
 (888) 576-7522
 (847) 726-3320
 Fax (770) 499-7511

Chicago Lab
 95 Oakwood Road
 Lake Zurich, IL 60047
 (888) 576-7522
 (847) 726-3320
 Fax (847) 726-3323

RUSH ANALYSIS

Need Results by: _____ / _____ / _____
 Charges Authorized? Yes No
 (if yes, initial here)
 Email Results Fax

Name <u>Alan Bartsels</u>		Client Job. No. <u>15719080</u>			
Company <u>Terracon</u>		Dept.			
Mailing Address <u>13910 West 96th Terrace</u>					
City, State, Zip <u>Lenexa, KS 66215</u>					
Telephone No. <u>913/492-7777</u>		Fax No.			
Special Instructions and/or specific regulatory requirements: (method, limit of detection, etc.) Email Report: <u>arba-bartsels@terracon.com</u> <u>ksara@td@terracon.com</u> * GSA Pricing per Dave Hartshorn (Explanation of Preservation)					
Soils: Which state are these from?		Waters: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater			
Soils: _____		Waters: _____			
CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/MEDIA	AIR VOLUME (specify units)	FOR LAB USE ONLY
1 - KA - Excavation	3/12/12		AW	52 L	
2 - ES - Personal				192 L	
3 - KA - Personal				140 L	
4 - ES - Excavation	3/10/12			60 L	
5 - ES - Personal				550 L	
6 - KA - Personal				610 L	
7 - ES - Personal	3/14/12			276 L	
8 - KA - Excavation				60 L	
9 - ES - Personal				216 L	
10 - ES - Excavation	3/15/12			60 L	
11 - ES - Personal				498 L	
12 - KA - Personal				558 L	
Number of Containers				ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)	
				FOR LAB USE ONLY	
BILLINE/INVOICE INFORMATION				PO # _____	
				<input type="checkbox"/> Call for Credit Card Information <input type="checkbox"/> Direct Bill	
Name <u>Same</u>					
Company <u>AS</u>					
Address <u>Report TO</u>					
City, State, Zip					
Collector's Signature				Date/Time	
Received by:				Date/Time	
Received by:				Date/Time	
Received at Lab by:				Date/Time <u>3/19/12 3:17pm</u>	
Sample Condition Upon Receipt: <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain)					
Authorized by:				Date	

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



BUREAU VERITAS

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB IN ADVANCE
Need Results by: _____ / _____ / _____
Charges Authorized? Yes No
(if yes, initial here)
 Email Results Fax

Name		Client Job. No.		PO # _____		Call for Credit Card Information <input type="checkbox"/> Direct Bill <input type="checkbox"/>	
Company		Dept.		Name		Company	
Mailing Address				Address		City, State, Zip	
City, State, Zip		Fax No.		City, State, Zip			
Telephone No.							
Special Instructions and/or specific regulatory requirements: (method, limit of detection, etc.)							
Soils: Which state are these from?		Waters: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater		Number of Containers		ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)*	
DATE SAMPLED		TIME SAMPLED		MATRIX/MEDIA		AIR VOLUME (specify units)	
13 - Blank				Air		1 X	
14 - Blank-field				Air		1 X	
CLIENT SAMPLE IDENTIFICATION						FOR LAB USE ONLY	
CHAIN OF CUSTODY		Collected by:		Collector's Signature:		Date/Time	
Relinquished by:		Date/Time		Received by:		Date/Time	
Relinquished by:		Date/Time		Received by:		Date/Time	
Method of Shipment:		Received at Lab by:		Sample Condition Upon Receipt: <input type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain)		Date/Time	
Authorized by:		Date					

(Client Signature MUST Accompany Request)

LABORATORY COPY

Bureau Veritas North America, Inc.

Phase Contrast Microscopy (PCM) Summary

Run ID PCM_2_120323C

Date: 23-Mar-12

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75433	A1203228-005A	5-ES- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	22	0.22	27.452	10569.00424	550	0.019

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75434	A1203228-006A	6-KA- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	25.5	0.255	31.8193	12250.43674	610	0.02

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75435	A1203228-007A	7-ES- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	7	0.07	8.73471	3362.864986	276	0.012

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75436	A1203228-008A	8-KA- EXCURSION	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	2.5	0.025	3.11954	1201.023209	60	0.02

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75437	A1203228-009A	9-ES- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	6	0.06	7.4869	2882.455703	216	0.013

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75438	A1203228-010A	10-ES- EXCURSION	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	4.5	0.045	5.61517	2161.841777	60	0.036

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75439	A1203228-011A	11-ES- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	21.5	0.215	26.8281	10328.79960	498	0.021

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75440	A1203228-012A	12-KA- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	21	0.21	26.2041	10088.59496	558	0.018

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75441	A1203228-013A	13-BLANK	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	0	0	0	0	0	0

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75442	A1203228-014A	14-BLANK- FIELD	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	0	0	0	0	0	0

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75443	MB-22712		N7400A	MBLK	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	0	0	0	0	0	0

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75444	A1203228-001A	1-KA- EXCURSION	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	3.5	0.035	4.36736	1681.432493	52	0.032

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75445	A1203228-002A	2-ES- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	12.5	0.125	15.5977	6005.116047	192	0.031

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75446	A1203228-003A	3-KA- PERSONAL	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	7	0.07	8.73471	3362.864986	140	0.024

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75447	A1203228-004A	4-ES- EXCURSION	N7400A	Samp	3/23/2012 10:41:	0
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	2.5	0.025	3.11954	1201.023209	60	0.02

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75448	A1203228- 008AREP		N7400A	REP	3/23/2012 10:41:	75436
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	1.5	0.015	1.87172	0	0	0

Seq No	Sample ID	Client SampID	Test Code	Sample Typ	Analysis Date	RPDref
75449	A1203228- 004AREP		N7400A	REP	3/23/2012 10:41:	75447
Fields	Fibers	Blk Corrected Fibers/Field	Fiber Density	Filter Concentration	Air Volume (L)	Concentration (fibers/cc)
100	3	0.03	3.74345	0	0	0



March 26, 2012

Allen Bartels
TERRACON
13910 West 96th Terrace
Lenexa, KS 66215

Bureau Veritas Work Order No. A1203225

Reference: 15119080

Dear Allen Bartels:

Bureau Veritas North America, Inc. received 129 samples on March 19, 2012 for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a sixty-day holding period, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,



Nadiya Gapon

Senior Microscopist

Electronic signature authorized through password protection

cc: Ks Arnold

Bureau Veritas North America, Inc.

Health, Safety, and Environmental Services
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144

Main: (770) 499-7701
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www.us.bureauveritas.com



CASE NARRATIVE

Date: 26-Mar-12

CLIENT: TERRACON

Project: 15119080

Work Order No A1203225

ANALYTICAL METHOD FOR ASBESTOS IN BULK SAMPLES USING POLARIZED LIGHT MICROSCOPY (PLM)

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected unless otherwise noted.

Use of EPA/600/R-93/116 satisfies applicable requirements of the USEPA's "Interim Method for the Determination of Asbestos in Bulk Insulation Sample", EPA-600/M4-82-020, December 1982, published as Appendix E to Subpart E of 40CFR763. Bulk samples analyzed by New York State methods follow stratified point counting methods (198.1) or Method 198.6 for PLM non-friable organically bound materials (NYSDOH Lab Code -11645). Percentages are visual estimations of asbestos >10:1 aspect ratio. The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed. NESHAP requires point counting of a bulk sample when the result is <10% by a method other than point counting. EPA, however states that if 3 mounts of the sample are analyzed and the asbestos percentage is <10% by visual estimation, the client may elect to assume the amount to be greater than 1% or require verification by point counting. If the result by point counting is different than the result obtained by visual estimation, the point count result will be used. Sample friability or non-friability noted on the report is a requirement for the State of California and refers only to the condition of the sample under macroscopic examination. It does not imply friability or non-friability for the sample as collected or observed in the field as determined by the person collecting the sample. The Kennesaw, Georgia lab is accredited by NVLAP -Lab Code 101125-0.

(a) Polarized- light microscopy is not consistently reliable in detecting asbestos in floor coverings, similar non-friable organically bound materials, soil and vermiculite. Quantitative electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. When analysis of such materials by PLM yields results negative for the presence of asbestos, Bureau Veritas recommends utilizing quantitative transmission electron microscopy (TEM). For more information, contact the laboratory.

References



CLIENT: TERRACON

Project: 15119080

Work Order No A1203225

McCrone, Walter C. 1980. The Asbestos Particle Atlas. Ann Arbor, MI: Ann Arbor Science Publishers, Inc.

United States Environmental Protection Agency. Environmental Monitoring Systems Laboratory. 1982. Interim Method for the Determination of Asbestos in Bulk Insulation Samples. EPA-600/M4-82-020. Washington: GPO, December.

United States Environmental Protection Agency. Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993 (PLM)

Fed. Reg. Vol. 55, No.224, 11/20/90, p.48415 (NESHAP)
EPA Memorandum 5/8/1991 –NESHAP Clarifications

NYSDOH Methods 198.1/198.6



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON
 Work Order No.: A1203225
 Client Reference: 15119080
 Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Sample Type: Bulk
 Date Received: 3/19/2012
 Report Date: 26-Mar-12

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
001A	3D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Mineral Mixture	None Detected		Fibrous glass	< 1%	Binder/Filler
002A	4D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Mineral Mixture	None Detected		Fibrous glass	< 1%	Binder/Filler
003A	7D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Mineral Mixture	None Detected		Fibrous glass	< 1%	Binder/Filler
004A	10D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Mineral Mixture	None Detected		Fibrous glass	< 1%	Binder/Filler
005A	12D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Fiber and Mineral Mixture	Chrysotile	20%	Fibrous glass	< 1%	Binder/Filler
			Amosite	< 1%			
			Total	20%			
006A	13D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	85	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	15	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
007A	14D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	80	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	20	Homogeneous White Fiber and Mineral Mixture	Chrysotile	2%	Non-Detected		Binder/Filler
			Amosite	2%			
			Total		<1%		
008A	15D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	35	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	65	Homogeneous Gray Mineral Mixture	None Detected		Non-Detected		Binder/Filler
009A	16D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	49	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	49	Homogeneous White Mineral Mixture	None Detected		Fibrous glass	< 1%	Binder/Filler
(3)	2	Homogeneous Blue Mineral Mixture	None Detected		Non-Detected		Binder/Filler
010A	18D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	30	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	70	Homogeneous Gray Fibrous Material	Chrysotile	10%	Non-Detected		Binder/Filler
			Amosite	2%			
			Total		8%		
011A	24D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	3	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	3	Homogeneous Gray Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(3)	94	Homogeneous Brown Fibrous Material	Chrysotile	40%	Non-Detected		Binder/Filler
							Bitumen
			Total		38%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
<u>012A</u> 27D		KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/White Fibrous Material	Chrysotile	15%	Non-Detected		Binder/Filler
			Amosite	3%			
		Layer Comment: Layers inseparable.					
			Total	18%			
<u>013A</u> 29D		KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	5	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	95	Homogeneous White Fibrous Material	Chrysotile	15%	Non-Detected		Binder/Filler
			Amosite	2%			
			Total	16%			
<u>014A</u> 30D		KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Mineral Mixture	None Detected		Fibrous glass	1%	Binder/Filler
					Cellulose fiber	< 1%	
<u>015A</u> 32D		KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	5	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	95	Homogeneous Gray Fibrous Material	Chrysotile	45%	Non-Detected		Binder/Filler
			Total	43%			
<u>016A</u> 33D		KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	99	Homogeneous Gray Fibrous Material	Chrysotile	50%	Synthetic fiber	2%	Binder/Filler
					Cellulose fiber	2%	
(2)	1	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	50%			

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
<u>017A</u>	<u>37D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Fibrous Material	Chrysotile	15%	Non-Detected		Binder/Filler
			Amosite	10%			
			Total	25%			
<u>018A</u>	<u>42D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/White Fibrous Material	Chrysotile	5%	Non-Detected		Binder/Filler
		Layer Comment: Layers inseparable.	Amosite	10%			
			Total	15%			
<u>019A</u>	<u>53D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/White Fibrous Material	Chrysotile	10%	Non-Detected		Binder/Filler
		Layer Comment: Layers inseparable.	Amosite	10%			
			Total	20%			
<u>020A</u>	<u>64D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/White Fibrous Material	Chrysotile	10%	Non-Detected		Binder/Filler
		Layer Comment: Layers inseparable.	Amosite	10%			
			Total	20%			

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
<u>021A</u>	<u>67D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/Gray Fibrous Material <i>Layer Comment: Layers inseparable.</i>	Chrysotile	20%	Non-Detected		Binder/Filler
				Total	20%		
<u>022A</u>	<u>66D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/Gray Fibrous Material <i>Layer Comment: Layers inseparable.</i>	Chrysotile	20%	Non-Detected		Binder/Filler
				Total	20%		
<u>023A</u>	<u>70D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Mineral Mixture	None Detected		Fibrous glass Cellulose fiber	1% < 1%	Binder/Filler
<u>024A</u>	<u>73D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/White Fibrous Material <i>Layer Comment: Layers inseparable.</i>	Chrysotile Amosite	10% 10%	Non-Detected		Binder/Filler
				Total	20%		
<u>025A</u>	<u>76D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/Gray Fibrous Material <i>Layer Comment: Layers inseparable.</i>	Chrysotile	20%	Non-Detected		Binder/Filler
				Total	20%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
<u>026A</u>	<u>77D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Fibrous Material	Chrysotile	10%	Non-Detected		Binder/Filler
			Amosite	2%			
			Total	12%			
<u>027A</u>	<u>93D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	98	Homogeneous Brown Fibrous Material	Chrysotile	45%	Non-Detected		Binder/Filler
							Bitumen
			Total	44%			
<u>028A</u>	<u>94D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	5%	Cellulose fiber	30%	Binder/Filler
					Synthetic fiber	5%	
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	5%			
<u>029A</u>	<u>95D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	98	Homogeneous Brown Fibrous Material	Chrysotile	50%	Synthetic fiber	1%	Binder/Filler
							Bitumen
			Total	49%			

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
030A	96D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	5%	Cellulose fiber Synthetic fiber	30% 5%	Binder/Filler
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	5%		
031A	101D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	1	Homogeneous Green Paint	None Detected		Non-Detected		Binder/Filler
(2)	99	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler
032A	100D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Mineral Mixture	None Detected		Fibrous glass Cellulose fiber	< 1% < 1%	Binder/Filler
033A	102D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	98	Homogeneous Brown Fibrous Material	Chrysotile	55%	Synthetic fiber	1%	Binder/Filler Bitumen
				Total	54%		
034A	104D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/Gray Fibrous Material	Chrysotile	15%	Cellulose fiber Synthetic fiber	2% 1%	Binder/Filler
				<i>Layer Comment: Layers inseparable.</i>			
				Total	15%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
035A	106D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	99	Homogeneous Gray Fibrous Material	Chrysotile	60%	Non-Detected		Binder/Filler
(2)	1	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	59%		
036A	109D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	99	Homogeneous Gray Fibrous Material	Chrysotile	55%	Non-Detected		Binder/Filler Mold
(2)	1	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	54%		
037A	111D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	3	Homogeneous White Mineral Mixture	None Detected		Cellulose fiber	< 1%	Binder/Filler
					Synthetic fiber	1%	
(2)	97	Homogeneous Brown Fibrous Material	None Detected		Cellulose fiber	10%	Binder/Filler
					Synthetic fiber	2%	Glue
					Fibrous glass	< 1%	
038A	112D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	20	Homogeneous Light Brown Fibrous Material	Chrysotile	5%	Cellulose fiber	10%	Binder/Filler
					Synthetic fiber	1%	
(2)	60	Homogeneous Brown Fibrous Material	Chrysotile	65%	Non-Detected		Binder/Filler
							Bitumen
(3)	20	Homogeneous Gray Fibrous Material	Chrysotile	15%	Non-Detected		Binder/Filler
				Total	43%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
<u>039A</u>	<u>113D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
(2)	98	Homogeneous Brown Fibrous Material	Chrysotile	65%	Non-Detected		Binder/Filler Bitumen
			Total	64%			
<u>040A</u>	<u>114D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	20%	Non-Detected		Binder/Filler
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	20%			
<u>041A</u>	<u>120D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous White Mineral Mixture	None Detected		Cellulose fiber Fibrous glass	1% 1%	Binder/Filler
(2)	1	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(3)	1	Homogeneous Brown Fibrous Material	None Detected		Cellulose fiber	90%	Binder/Filler
<u>042A</u>	<u>121D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown Fibrous Material	Chrysotile	65%	Non-Detected		Binder/Filler Bitumen
			Total	65%			
<u>043A</u>	<u>130D</u>	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Mineral Mixture	None Detected		Cellulose fiber Fibrous glass	< 1% 1%	Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>044A</u> 133D		KC		03/22/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	1	Homogeneous White Mineral Mixture <i>Layer Comment:</i> Possible contamination between layers.	Chrysotile	< 1%	Non-Detected		Binder/Filler
(2)	48	Homogeneous Black/Gray Fibrous Material	Chrysotile	15%	Non-Detected		Binder/Filler
(3)	1	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(4)	49	Homogeneous Black/Gray Fibrous Material	Chrysotile	15%	Non-Detected		Binder/Filler
(5)	1	Homogeneous White Mineral Mixture <i>Layer Comment:</i> Possible contamination between layers.	Chrysotile	2%	Non-Detected		Binder/Filler
				Total	15%		

045A 136D

KC

03/22/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Brown Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler Bitumen
(2)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
				Total	49%		

046A 140D

KC

03/22/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous White Mineral Mixture	None Detected		Cellulose fiber	1%	Binder/Filler
(2)	2	Homogeneous Brown Fibrous Material	None Detected		Cellulose fiber	90%	Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%", "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>047A</u> 143D		KC		03/22/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Brown/Gray Fibrous Material	Chrysotile	10%	Cellulose fiber Synthetic fiber	2% 1%	Binder/Filler
(2)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
				Total	10%		

<u>048A</u> 144D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	5%	Synthetic fiber Cellulose fiber	2% 2%	Binder/Filler
(2)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
				Total	5%		

<u>049A</u> 145D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Brown Fibrous Material	Chrysotile	60%	Synthetic fiber	2%	Binder/Filler Bitumen
(2)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
				Total	59%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>050A</u> 147D		KC		03/22/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	5%	Synthetic fiber Cellulose fiber	5% 3%	Binder/Filler
(2)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
				Total	5%		

<u>051A</u> 149D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	48	Homogeneous Gray Fibrous Material	Chrysotile	10%	Synthetic fiber Cellulose fiber	5% 3%	Binder/Filler
(2)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
(3)	50	Homogeneous Brown Fibrous Material	Chrysotile	65%	Non-Detected		Binder/Filler Bitumen
				Total	37%		

<u>052A</u> 150D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Tan/White Mineral Mixture	None Detected		Cellulose fiber	1%	Binder/Filler Rock

<u>053A</u> 151D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Tan/White/Black Mineral Mixture	None Detected		Non-Detected		Binder/Filler Resin

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>054A</u> 152D		KC		03/22/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	80	Homogeneous Tan/White Mineral Mixture	None Detected		Non-Detected		Binder/Filler Resin
(2)	15	Homogeneous Brown Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler Bitumen
(3)	5	Homogeneous Gray Fibrous Material	Chrysotile	15%	Synthetic fiber	2%	Binder/Filler
				Total	8%		

<u>055A</u> 153D		KC		03/22/2012
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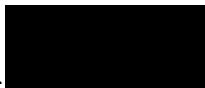
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	63	Homogeneous Brown/Gray Fibrous Material	Chrysotile	20%	Synthetic fiber Cellulose fiber	5% 2%	Binder/Filler
(2)	2	Homogeneous Brown/White Mineral Mixture	None Detected		Non-Detected		Binder/Filler
		<i>Layer Comment:</i> Layers inseparable.					
(3)	35	Homogeneous Black/White Fibrous Material	None Detected		Cellulose fiber	80%	Binder/Filler
				Total	13%		

<u>056A</u> 154D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	2	Homogeneous White Mineral Mixture	Chrysotile	< 1%	Non-Detected		Binder/Filler
(2)	95	Homogeneous Gray Fibrous Material	Chrysotile	20%	Synthetic fiber Cellulose fiber	3% 1%	Binder/Filler
(3)	3	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	19%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON **Sample Type:** Bulk
Work Order No.: A1203225 **Date Received:** 3/19/2012
Client Reference: 15119080 **Report Date:** 26-Mar-12
Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
057A	156D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	97	Homogeneous Brown Fibrous Material	Chrysotile	60%	Synthetic fiber	3%	Binder/Filler Bitumen
(2)	3	Homogeneous Brown/White Mineral Mixture	None Detected		Non-Detected		Binder/Filler
<i>Layer Comment:</i> Layers inseparable.							
				Total	58%		
058A	160D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler
059A	161D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Brown Fibrous Material	Chrysotile	45%	Synthetic fiber	1%	Binder/Filler
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	44%		
060A	162D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White/Tan Mineral Mixture	None Detected		Non-Detected		Binder/Filler Resin
061A	163D	KC		03/22/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Brown Fibrous Material	Chrysotile	55%	Synthetic fiber	2%	Binder/Filler Bitumen
(2)	2	Homogeneous Brown/White Mineral Mixture	None Detected		Non-Detected		Binder/Filler
<i>Layer Comment:</i> Layers inseparable.							
				Total	54%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>062A</u> 164D		KC		03/22/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White/Gray Fiber and Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	Chrysotile	55%	Non-Detected		Binder/Filler
				Total	55%		

<u>063A</u> 171D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	97	Homogeneous Tan Fibrous Material	None Detected		Wood	90%	Binder/Filler
(2)	3	Homogeneous Brown Fiber and Mineral Mixture	None Detected		Spider Web	2%	Binder/Filler Insect Body Parts

<u>064A</u> 172D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Brown/Gray Fibrous Material	Chrysotile	5%	Cellulose fiber Synthetic fiber	< 1% 3%	Binder/Filler
(2)	2	Homogeneous Brown/White Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Non-Detected		Binder/Filler
				Total	5%		

<u>065A</u> 173D		KC		03/22/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	65	Homogeneous Off-White Fiber and Mineral Mixture	Chrysotile Amosite	3% 15%	b		Binder/Filler
(2)	35	Homogeneous Black Fibrous Material	None Detected		Cellulose fiber	70%	Binder/Filler
				Total	12%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: [REDACTED] 3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
066A	178D	VK		03/26/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	70	Homogeneous Gray Fibrous Material	Chrysotile	30%	Synthetic fiber	5%	Binder/Filler
(2)	3	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(3)	27	Homogeneous Black Fibrous Material	Chrysotile	60%	Non-Detected		Binder/Filler Bitumen
				Total	37%		

067A	182D	VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	3	Homogeneous Brownish-gray Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	57	Homogeneous Brown Putty	None Detected		Non-Detected		Binder/Filler
(3)	40	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler

068A	183D	VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fiber and Mineral Mixture	Chrysotile	60%	Non-Detected		Binder/Filler
			Amosite	< 1%			
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	59%		

069A	184D	VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/Gray Putty	None Detected		Non-Detected		Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>070A</u> 185D		VK		03/26/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	5	Non-homogeneous White/Brown Fiber and Mineral Mixture <i>Layer Comment:</i> Layers inseparable.	None Detected		Glass Wool	70%	Binder/Filler
(2)	95	Homogeneous Black Fibrous Material	Chrysotile	60%	Non-Detected		Binder/Filler Bitumen
				Total	57%		

<u>071A</u> 186D		VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Fibrous Material	Chrysotile	40%	Non-Detected		Binder/Filler Glue Granular Minerals
				Total	40%		

Layer Comment: Glue and granular minerals inseparable.

<u>072A</u> 189D		VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	20	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	60	Homogeneous Black Fibrous Material	Chrysotile	40%	Non-Detected		Binder/Filler Bitumen
(3)	20	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	24%		

<u>073A</u> 195D		VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray/Brown Fiber and Mineral Mixture	Chrysotile Amosite	60% < 1%	Non-Detected		Binder/Filler Granular Minerals
				Total	60%		

Layer Comment: Granular minerals inseparable

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: [REDACTED] 3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>074A</u> 198D		VK		03/26/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fiber and Mineral Mixture	Chrysotile	60%	Non-Detected		Binder/Filler
			Amosite	< 1%			
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	59%		

<u>075A</u> 203D		VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	70	Homogeneous Gray Fibrous Material	Chrysotile	30%	Synthetic fiber	5%	Binder/Filler
(2)	5	Homogeneous Brown/Gray Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(3)	25	Homogeneous Black Fibrous Material	Chrysotile	60%	Non-Detected		Binder/Filler Bitumen
				Total	36%		

<u>076A</u> 206D		VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	95	Homogeneous White Fibrous Material	Chrysotile	40%	mn		Binder/Filler Glue
		<i>Layer Comment:</i> Glue inseparable.					
(2)	5	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	38%		

<u>077A</u> 208D		VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	95	Homogeneous Gray Fibrous Material	Chrysotile	10%	Cellulose fiber	10%	Binder/Filler
(2)	5	Homogeneous Off-White Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	10%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON Sample Type: Bulk
 Work Order No.: A1203225 Date Received: 3/19/2012
 Client Reference: 15119080 Report Date: 26-Mar-12
 Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
<u>078A</u>	<u>212D</u>	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	1	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	59	Homogeneous Brown Putty	None Detected		Non-Detected		Binder/Filler
(3)	40	Homogeneous Gray Putty	None Detected		Non-Detected		Binder/Filler
<u>079A</u>	<u>213D</u>	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	99	Homogeneous Gray Putty	None Detected		Non-Detected		Binder/Filler
(2)	1	Homogeneous Brownish-gray Mineral Mixture	None Detected		Non-Detected		Binder/Filler
<u>080A</u>	<u>221D</u>	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	10	Homogeneous Off-White Skim Coat	None Detected		Non-Detected		Binder/Filler
(2)	90	Homogeneous Gray Plaster	None Detected		Non-Detected		Binder/Filler Quartz
<u>081A</u>	<u>222D</u>	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White/Brown Fiber and Mineral Mixture	Chrysotile	2%	Non-Detected		Granular Minerals Binder/Filler
			Amosite	15%			
<i>Layer Comment:</i> Granular minerals inseparable.			Total		17%		
<u>082A</u>	<u>223D</u>	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White/Brown Fiber and Mineral Mixture	Chrysotile	2%	Non-Detected		Granular Minerals Binder/Filler
			Amosite	15%			
<i>Layer Comment:</i> Granular minerals inseparable.			Total		17%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: [REDACTED] 3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
<u>083A</u>	225D	VK		03/26/2012

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	5	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	85	Homogeneous White Fibrous Material	Chrysotile	40%	Non-Detected		Binder/Filler
(3)	10	Homogeneous Off-White/Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	34%		

<u>084A</u>	226D	VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler

<u>085A</u>	228D	VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/Gray Fibrous Material	Chrysotile	30%	Synthetic fiber	3%	Binder/Filler Granular Minerals
		<i>Layer Comment:</i> Granular minerals inseparable.					
				Total	30%		

<u>086A</u>	229D	VK		03/26/2012
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Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous White Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	49%		

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
087A	230D	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	20	Homogeneous Cream/White Skim Coat	None Detected		Non-Detected		Binder/Filler
(2)	5	Homogeneous Gray Plaster	None Detected		Non-Detected		Binder/Filler Quartz
(3)	60	Homogeneous White Gypsum Board	None Detected		Cellulose fiber Fibrous glass	1% < 1%	Binder/Filler
(4)	15	Homogeneous Gray Fibrous Material	Chrysotile	30%	Non-Detected		Binder/Filler
			Total	5%			
088A	231D	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown/White Fiber and Mineral Mixture	Chrysotile	2%	Non-Detected		Granular Minerals Binder/Filler
			Amosite	15%			
		<i>Layer Comment:</i> Granular minerals inseparable.	Total				17%
089A	232D	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	95	Homogeneous White Fiber and Mineral Mixture	Chrysotile	2%	Non-Detected		Binder/Filler Binder/Filler
			Amosite	15%			
(2)	5	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	16%			
090A	234D	VK		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White/Brown Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler Granular Minerals
			Amosite	< 1%			
		<i>Layer Comment:</i> Granular minerals inseparable.	Total				50%

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed				
<u>091A</u>	235D	VK		03/26/2012				
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate	
(1)	100	Homogeneous White/Brown Fiber and Mineral Mixture	Chrysotile	2%	Non-Detected		Granular Minerals Binder/Filler	
			Amosite	15%				
		<i>Layer Comment:</i> Granular minerals inseparable.						
			Total	17%				
<u>092A</u>	236D	VK		03/26/2012				
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate	
(1)	100	Homogeneous Brown Mineral Mixture	Chrysotile	< 1%	Cellulose fiber	2%	Binder/Filler Resin	
			Total	<1%				
<u>093A</u>	239D	VK		03/26/2012				
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate	
(1)	100	Homogeneous White/Brown Fiber and Mineral Mixture	Chrysotile	3%	Non-Detected		Granular Minerals Binder/Filler	
			Amosite	5%				
		<i>Layer Comment:</i> Granular minerals inseparable.						
			Total	8%				
<u>094A</u>	240D	VK		03/26/2012				
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate	
(1)	100	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler	
<u>095A</u>	241D	KC		03/26/2012				
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate	
(1)	100	Homogeneous Gray Fibrous Material	Chrysotile	10%	Mineral wool	1%	Binder/Filler	
			Total	10%				

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
096A	248D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous White Fiber and Mineral Mixture	Chrysotile	10%	Non-Detected		Binder/Filler
			Amosite	10%			
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	20%			
097A	253D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	2	Homogeneous White Mineral Mixture	Chrysotile	< 1%	Non-Detected		Binder/Filler
(2)	97	Homogeneous Brown Fibrous Material	Chrysotile	65%	Synthetic fiber	2%	Binder/Filler
							Bitumen
(3)	1	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	63%			
098A	254D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	95	Homogeneous Black/Gray Fibrous Material	Chrysotile	80%	Non-Detected		Binder/Filler
							Glass Slag
(2)	5	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	76%			
099A	255D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	35%	Non-Detected		Binder/Filler
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	34%			

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%", "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
100A	259D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	99	Homogeneous Gray Fibrous Material	Chrysotile	40%	Non-Detected		Binder/Filler
(2)	1	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	40%		
101A	263D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Fibrous Material	Chrysotile	20%	Synthetic fiber Hair	5% < 1%	Binder/Filler
				Total	20%		
102A	264D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Tan Mineral Mixture	None Detected		Non-Detected		Binder/Filler Resin
103A	265D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Mineral Mixture	None Detected		Non-Detected		Binder/Filler
104A	266D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	80	Homogeneous Brown Fiber and Mineral Mixture	None Detected		Cellulose fiber	80%	Binder/Filler
(2)	20	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
105A	269D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	35%	Synthetic fiber Hair	4% 1%	Binder/Filler
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	34%		
106A	270D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Fibrous Material	Chrysotile	80%	Non-Detected		Binder/Filler
				Total	80%		
107A	273D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Mineral Mixture	None Detected		Fibrous glass	1%	Binder/Filler
108A	274D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Tan/White Mineral Mixture	None Detected		Non-Detected		Binder/Filler Resin
109A	275D	KC		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Fibrous Material	Chrysotile	40%	Synthetic fiber	3%	Binder/Filler
(2)	2	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
				Total	39%		
110A	283D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Mineral Mixture	None Detected		Cellulose fiber Fibrous glass	10% 10%	Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
111A	288D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	20	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	80	Homogeneous White Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler
			Total	40%			
112A	289D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	15	Homogeneous Tan Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	80	Homogeneous Brown Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler
(3)	5	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
			Total	40%			
113A	290D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	20	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	80	Homogeneous White Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler
			Total	40%			
114A	294D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Tan Fiber and Mineral Mixture	Chrysotile	25%	Fibrous glass	10%	Binder/Filler
			Amosite	10%			
Layer Comment: Layers inseparable.							
			Total	35%			
115A	295D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Tan Resinous Material	None Detected		Non-Detected		Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
116A	298D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown Fibrous Material	Chrysotile	50%	Non-Detected		Binder/Filler
			Total	50%			
117A	300D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Fiber and Mineral Mixture	Chrysotile	50%	Non-Detected		Binder/Filler
			Total	50%			
118A	318D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Fiber and Mineral Mixture <i>Layer Comment: Layers inseparable.</i>	Chrysotile	40%	Non-Detected		Binder/Filler
			Total	40%			
119A	323D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Fibrous Material	Chrysotile	60%	Non-Detected		Binder/Filler
			Total	60%			
120A	330D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	95	Homogeneous White Paint & Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	5	Homogeneous Tan Mineral Mixture	None Detected		Non-Detected		Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
121A	335D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Fibrous Material	Chrysotile	60%	Non-Detected		Binder/Filler
			Total	60%			
122A	336D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Fiber and Mineral Mixture	Chrysotile	30%	Non-Detected		Binder/Filler
			Total	30%			
123A	337D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	60	Homogeneous Brown Fibrous Material	Chrysotile	20%	Cellulose fiber	60%	Binder/Filler
(2)	40	Homogeneous White Fiber and Mineral Mixture	Chrysotile	40%	Non-Detected		Binder/Filler
			Total	28%			
124A	340D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Brown Fibrous Material	Chrysotile	20%	Cellulose fiber	60%	Binder/Filler
			Total	20%			
125A	347D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Fiber and Mineral Mixture	Chrysotile	40%	Non-Detected		Binder/Filler
			Amosite	10%			
			Total	50%			

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%", "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



ANALYTICAL RESULTS

Date: 26-Mar-12

CLIENT: TERRACON

Sample Type: Bulk

Work Order No.: A1203225

Date Received: 3/19/2012

Client Reference: 15119080

Report Date: 26-Mar-12

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
126A	350D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	40	Homogeneous Brown Mineral Mixture	None Detected		Non-Detected		Binder/Filler
(2)	60	Homogeneous White Fibrous Material	Chrysotile	20%	Non-Detected		Binder/Filler
			Amosite	30%			
			Total	30%			
127A	358D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Fibrous Material	Chrysotile	20%	Cellulose fiber	40%	Binder/Filler
			Total	20%			
128A	359D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White/Brown Fiber and Mineral Mixture	Chrysotile	40%	Non-Detected		Binder/Filler
		Layer Comment: Layers inseparable.	Amosite	3%			
			Total	43%			
129A	360D	TD		03/26/2012			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White/Brown Fiber and Mineral Mixture	Chrysotile	20%	Non-Detected		Binder/Filler
		Layer Comment: Layers inseparable.	Amosite	30%			
			Total	50%			

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:



3/26/2012



Laboratory Limits

Kathy Cannon (KC)

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 26.676
1-10	100	+/- 5.928
Trace	100	+/- 1.482

Laboratory

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 22.23
1-10	100	+/- 7.41
Trace	100	+/- 1.482

Tiffany Dixon (TD)

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 26.676
1-10	100	+/- 5.928
Trace	100	+/- 1.482

Vera Khorosh (VK)

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 26.676
1-10	100	+/- 5.928
Trace	100	+/- 1.482

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: [REDACTED]

3/26/2012

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



BUREAU VERITAS

Bureau Veritas North America, Inc.

Detroit Lab
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Fax (248) 344-2665

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Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB IN ADVANCE

Need Results by _____
Charges Authorized? Yes No
(If yes, initial here)
 Email Results Fax

Handwritten: H1203322

CLIENT INFORMATION Name: <u>Alma Bartels</u> Client Job No. <u>15119080</u> Company: <u>Tecolcon</u> Dept. _____ Mailing Address: <u>13910 Holt 96th Terrace</u> City, State, Zip: <u>Lenexa, KS 66215</u> Telephone No. <u>913/492-7777</u> Fax No. _____		BILLING INFORMATION PO # <u>15119080</u> <input type="checkbox"/> Call for Credit Card Information <input type="checkbox"/> Direct Bill Name: <u>Alma Bartels</u> Company: <u>Tecolcon</u> Address: <u>13910 Holt 96th Terrace</u> City, State, Zip: <u>Lenexa, KS 66215</u>	
Special Instructions and/or specific regulatory requirements: <i>Email Report to: qc.bartels@teccon.com</i> <i>Kearns@bvt.com</i> <i>* GSA Pricing per Dave Hartshorn</i> * Examination of Preservation		ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.) Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater <input type="checkbox"/> Soils: Which state are these from? _____ Wastewater: _____	
CLIENT SAMPLE IDENTIFICATION DATE SAMPLED: _____ TIME SAMPLED: _____ DATE SAMPLED: _____ TIME SAMPLED: _____ DATE SAMPLED: _____ TIME SAMPLED: _____ DATE SAMPLED: _____ TIME SAMPLED: _____ DATE SAMPLED: _____ TIME SAMPLED: _____ DATE SAMPLED: _____ TIME SAMPLED: _____ DATE SAMPLED: _____ TIME SAMPLED: _____		MATR/MEDIA: <u>BRK</u> AIR VOLUME (specify units): _____ FOR LAB USE ONLY	
CHAIN OF CUSTODY Collected by: _____ (print) Relinquished by: _____ Relinquished by: _____ Method of Shipment: <u>Fed Ex</u>		Collector's Signature: _____ Received by: _____ Received by: _____ Received at Lab by: _____ Sample Condition Upon Receipt: <input type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain) _____	
Authorized by: _____ Date: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____	

(Client Signature MUST Accompany Request)

LABORATORY COPY

Page 1 of 1

Handwritten: 21

REQUEST FOR LABORATORY ANALYTICAL SERVICES

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(847) 726-3320
Fax (847) 726-3323

Chicago Lab
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Fax (847) 726-3323

Detroit Lab
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Novi, MI 48375
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(248) 344-1770
Fax (248) 344-2655

Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

RUSH ANALYSIS

CONTACT LAB IN ADVANCE
Need Results by: _____
Changes Authorized? Yes No
(if yes, initial here)
 Email Results Fax

REPORT TO Name: <u>Allen Barkel</u> Company: <u>Terason</u> Mailing Address: <u>13910 West 96th Terrace</u> City, State, Zip: <u>Lenexa, KS 66215</u> Telephone No.: <u>913-1492-7177</u> Fax No.: _____		CLIENT INFORMATION Client Job No.: <u>15119080</u> Dept.: _____ CPO # <u>15119080</u> <input type="checkbox"/> Call for Credit Card Information <input type="checkbox"/> Direct Bill																																												
Specified instructions and/or specific regulatory requirements: <u>Contact Point: garbarkel@terason.com</u> <u>kesarnold@terason.com</u> <u>* GSA Pricing per Dave Artshorn</u> <u>* Explanation of Presentation</u>		ANALYSIS REQUESTED (Enter an X in the box below to indicate request. Enter a P if Preservative added.) <table border="1"> <tr> <td>Drinking Water</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Groundwater</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Wastewater</td> <td><input type="checkbox"/></td> </tr> </table>		Drinking Water	<input type="checkbox"/>	Groundwater	<input type="checkbox"/>	Wastewater	<input type="checkbox"/>																																					
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Authorized by: _____ Date: _____		Date: _____																																												

(Client Signature MUST Accompany Request)

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.

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22345 Roethal Drive
Novi, MI 48375
(800) 806-8887
(248) 344-1770
Fax (248) 344-2655

Chicago Lab
3380 Chastain Meadows Pkwy, Ste 300
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB BY ADVANCE
Needs Reports by: _____
Change Authorized? Yes No
(If yes, initial here) _____
 Email Reports Fax

CLIENT INFORMATION Name: <u>Allen Bartels</u> Company: <u>Tension</u> Mailing Address: <u>13910 West 96th Terrace</u> City, State, Zip: <u>Leawood, KS 66215</u> Telephone No.: <u>913-492-1777</u> Fax No.: _____		Client Job No. <u>15119080</u> Dept. _____ OPO # <u>15119080</u> <input type="checkbox"/> Call for Credit Case Information <input type="checkbox"/> Direct Bill																																																													
Special Instructions and/or specific regulatory requirements: Email Report: <u>qr.bartels@tension.com</u> <u>ksac.nrd@tension.com</u> * GSTA Pricing per Dave Hartshorn * Explanation of Reservation: _____		ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.) Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater <input type="checkbox"/>																																																													
Which state are these from? _____ Soils: _____ Wetlands: _____		AIR VOLUME (specify unit): _____ MATRIX MEDIA: <u>Bulk</u>																																																													
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<table border="1"> <thead> <tr> <th>CLIENT SAMPLE IDENTIFICATION</th> <th>DATE SAMPLED</th> <th>TIME SAMPLED</th> <th>MATRIX MEDIA</th> <th>AIR VOLUME (specify unit)</th> </tr> </thead> <tbody> <tr> <td><u>163D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>164D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>171D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>172D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>175D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>182D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>183D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>184D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>185D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>186D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>187D</u></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify unit)	<u>163D</u>					<u>164D</u>					<u>171D</u>					<u>172D</u>					<u>175D</u>					<u>182D</u>					<u>183D</u>					<u>184D</u>					<u>185D</u>					<u>186D</u>					<u>187D</u>				
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Authorized by: _____ Date: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____																																																													

(Client Signature MUST Accompany Request)

LABORATORY COPY

REQUEST FOR LABORATORY ANALYTICAL SERVICES

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Bureau Veritas North America, Inc.

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Novi, MI 48375
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Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pkwy, Ste 300
Kennesaw, GA 30144
(800) 252-9919
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Fax (770) 499-7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB IN ADVANCE
Need Results by: _____
Charges Authorized? Yes No
(If yes, initial name) _____
 Email Results Fax

CLIENT INFORMATION Name: <u>Alex Barker</u> Company: <u>TERRACON</u> Mailing Address: <u>18910 West 96th Terrace</u> City, State, Zip: <u>Lenexa, KS 66215</u> Telephone No.: <u>913-492-7777</u> Fax No.: _____		BILLING INFORMATION OPO # <u>1519080</u> <input type="checkbox"/> Call for Credit Card Information <input type="checkbox"/> Dried 800	
Special Instructions and/or specific regulatory requirements: <u>Emergency Report: arbart@bvt.com, arbart@bvt.com, arbart@bvt.com</u> <u>* GSA Pricing per Dave Hartshorn</u> * Extension of Preservation		ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.) <u>NOV 20 09 10 30 AM EST</u>	
DATE SAMPLE IDENTIFICATION <u>195D</u> <u>198D</u> <u>205D</u> <u>206D</u> <u>201D</u> <u>212D</u> <u>217D</u> <u>221D</u> <u>222D</u> <u>223D</u> <u>225D</u> <u>226D</u>		Matrix/Media <u>Bulk</u>	
DATE SAMPLED <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u> <u>11/19/09</u>		TIME SAMPLED <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u> <u>10:30 AM</u>	
Waters: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater		AIR VOLUME (specify units) _____	
Soils: Which state are these from? _____		Number of Containers _____	
Collected by: <u>[Signature]</u>		Collector's Signature: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>	
Method of Shipment: <u>[Signature]</u>		Received at Lab by: <u>[Signature]</u>	
Authorized by: <u>[Signature]</u>		Sample Condition Upon Receipt: <input type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain)	
CHAIN OF CUSTODY		Date	

(Client Signature MUST accompany Request)

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Fax (847) 726-3323

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Method Results by: Yes No
Company Authorized? Yes No
(If yes, initial here)
 Email Results Fax

REPORT TO Name: <i>Allen Barkes</i> Company: <i>Tenneco</i> Mailing Address: <i>13910 West 96th Terrace</i> City, State, Zip: <i>Lenexa, KS 66215</i> Telephone No.: <i>913-492-7777</i> Fax No.: Client Job No.: <i>1511980</i> Dept.: Billing Invoice # (optional)		PO # <i>1511980</i> <input type="checkbox"/> Call for Credit Card Information <input type="checkbox"/> Direct Bill	
Special Instructions and/or specific regulatory requirements: <i>Email Report: grbarb@tenneco.com</i> <i>Kearns@tenneco.com</i> <i>* GSA Pricing per Dave Hartshorn</i> <small>* Explanation of Preparation</small>		Waters: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater	
Which state are these from? State: <i>KS</i>		ANALYSIS REQUESTED (Enter an X in the box below to indicate request. Enter a P if Preservative added.) [Grid area for analysis requests]	
CLIENT SAMPLE IDENTIFICATION		FOR LAB USE ONLY	
DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)
<i>253D</i>		<i>Bulk</i>	
<i>257D</i>			
<i>259D</i>			
<i>263D</i>			
<i>264D</i>			
<i>265D</i>			
<i>266D</i>			
<i>269D</i>			
<i>270D</i>			
<i>273D</i>			
<i>274D</i>			
CHAIN OF CUSTODY Collected by: Relinquished by: Relinquished by: Method of Shipment:		Collector's Signature: Received by: Received by: Received at Lab by: Sample Condition Upon Receipt: <input type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain)	
Authorized by:		Date:	

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Fax (847) 726-3323

RUSH ANALYSIS
CONTACT LAB IN ADVANCE

Need Results by: _____ / _____ / _____
Changes Authorized? Yes No
(If yes, initial here)
 Email Results Fax

Name: <u>Alex Buckels</u> Company: <u>TERRACON</u> Mailing Address: <u>13910 West 96th Terrace</u> City, State, Zip: <u>Lencoy, KS 66215</u> Telephone No: <u>913/492-7777</u> Fax No: _____		Client Job No: <u>15119280</u> Dept: _____ Billing Cycle: _____ DPO # <u>15119280</u> Name: <u>Alex Buckels</u> Company: <u>TERRACON</u> Address: <u>13910 West 96th Terrace</u> City, State, Zip: <u>Lencoy, KS 66215</u>		Call for Credit Card Information <input type="checkbox"/> Direct Bill <input type="checkbox"/>							
Special Instructions and/or specific regulatory requirements: <u>Contract for Laboratory use</u> <u>Email Report: alex.buckels@terracon.com</u> <u>ksar.nald@terracon.com</u> <u>* GSA Pricing per Dave Hartsburn</u> <small>* Excludes of Preparation</small>		Matrix: _____ Media: _____ Which state are these items from? _____ Wastes: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater		ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.) <u>MR. LENCY AIRBORNE SOILS</u>							
CLIENT SAMPLE IDENTIFICATION		DATE SAMPLED		TIME SAMPLED		MATRIX/MEDIA		AIR VOLUME (specify units)		Number of Containers	
335D		336D		337D		340D		347D		351D	
358D		359D		360D							
Collected by: _____ Requisitioned by: _____ Requisitioned by: _____ Method of Shipment: _____		Date: _____ Date: _____ Date: _____		Date: _____ Date: _____ Date: _____		Collector's Signature: _____ Received by: _____ Received by: _____ Received at Lab by: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____		Sample Condition Upon Receipt <input type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain) _____	
Authorized by: _____ Date: _____		(Client Signature MUST Accompany Request)									



March 27, 2012

Allen Bartels
TERRACON
13910 West 96th Terrace
Lenexa, KS 66215

Bureau Veritas Work Order No. A1203226

Reference: 15119080

Dear Allen Bartels:

Bureau Veritas North America, Inc. received 147 samples on March 16, 2012 for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a sixty-day holding period, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,

Alan M. Segrave, P.G.

Director, Laboratory Services

Electronic signature authorized through password protection

cc: Ks Arnold

Bureau Veritas North America, Inc.

Health, Safety, and Environmental Services
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144

Main: (770) 499-7701

Fax: (770) 499-7511

www.us.bureauveritas.com



CASE NARRATIVE

Date: 27-Mar-12

CLIENT: TERRACON
Project: 15119080
Work Order No A1203226

Note: The lab did not receive A1203226-083A (client sample # 87) and A1203226-122A (client sample # 127).

The lab received the samples A1203226-146A (client sample # 76) and A1203226-147A (client sample # 116) that were not on the COC. These were added and analyzed per client request.

METHOD FOR SEMI-QUANTITATIVE ASBESTOS ANALYSIS OF BULK/SOIL SAMPLES USING TRANSMISSION ELECTRON MICROSCOPY (TEM)

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected unless otherwise noted.

Upon receipt in the laboratory, representative portions of the sample are examined under a stereomicroscope. Approximately 100 milligrams (mg) of the material is suspended in 5 milliliters (ml) of acetone. The mixture is ultrasonicated for three minutes. It is then centrifuged for three minutes, and the acetone supernatant is decanted to a level of 0.5 ml. The remaining material is resuspended, and a drop of the suspension is then placed on each of two carbon-coated copper grids (3mm diameter, 200 mesh). The sample grids are dried and then examined using TEM. At least five openings are examined on each grid at high magnification (15,000X). Asbestos structures containing fibers which meet a >3:1 length:width aspect ratio are identified using morphology, selected-area electron diffraction, and energy-dispersive x-ray spectroscopy. Fibers identified as asbestos are classified as chrysotile, crocidolite, amosite, tremolite-actinolite or anthophyllite.

Results are reported as "no asbestos detected (NAD)", "trace, <1% asbestos", or ">1% asbestos." Identification of asbestos type(s) is also reported.

The result of the analysis is a semi-quantitative assessment of asbestos presence and type.

References

Bureau Veritas North America, Inc., February 20, 1989. Kennesaw, Georgia Laboratory. Internal Method.



CLIENT: TERRACON

Project: 15119080

Work Order No A1203226

United States Environmental Protection Agency. Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-001A	1	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-002A	2	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-003A	3	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-004A	4	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-005A	5	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-006A	6	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-007A	7	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-008A	8	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-009A	9	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-010A	10	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-011A	11	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-012A	12	03/12/12	03/26/12	JP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	Chrysotile	< 1			

< Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-2

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-013A	13	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-014A	14	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-015A	15	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-016A	16	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<; Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-2

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-017A	17	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-018A	18	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-019A	19	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-020A	20	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-021A	21	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-022A	22	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-023A	23	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-024A	24	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-025A	25	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-026A	26	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-027A	27	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-028A	28	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-029A	29	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-030A	30	03/12/12	03/26/12	JP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-031A	31	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-032A	32	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Soil

Reporting Limit (Visual %): 1

Date Received: 3/16/2012

Report Date: 3/27/2012 1:39:58 PM

Grid Box Identification: 03-23-12F-4

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-033A	33	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-034A	34	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-035A	35	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-036A	36	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-4

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-037A	37	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-038A	38	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-039A	39	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile	2				
Amosite	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-040A	40	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-5

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-041A	41	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-042A	42	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-043A	43	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-044A	44	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Soil

Reporting Limit (Visual %): 1

Date Received: 3/16/2012

Report Date: 3/27/2012 1:39:58 PM

Grid Box Identification: 03-23-12F-5

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-045A	45	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-046A	46	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-047A	47	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-048A	48	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-5

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-049A	49	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Amosite	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-050A	50	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-051A	52	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-052A	53	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Soil

Reporting Limit (Visual %): 1

Date Received: 3/16/2012

Report Date: 3/27/2012 1:39:58 PM

Grid Box Identification: 03-23-12F-6

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-053A	54	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-054A	55	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-055A	56	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-056A	57	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Soil

Reporting Limit (Visual %): 1

Date Received: 3/16/2012

Report Date: 3/27/2012 1:39:58 PM

Grid Box Identification: 03-23-12F-6

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-057A	58	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-058A	59	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-059A	60	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-060A	62	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

< Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Soil

Reporting Limit (Visual %): 1

Date Received: 3/16/2012

Report Date: 3/27/2012 1:39:58 PM

Grid Box Identification: 03-23-12F-7

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-061A	63	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-062A	64	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-063A	65	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-064A	66	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Soil

Reporting Limit (Visual %): 1

Date Received: 3/16/2012

Report Date: 3/27/2012 1:39:58 PM

Grid Box Identification: 03-23-12F-7

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-065A	67	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-066A	68	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-067A	69	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-068A	70	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-7

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-069A	72	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material (%)		Non-Fibrous Material (%)	
None Detected < 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-070A	73	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material (%)		Non-Fibrous Material (%)	
None Detected < 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-071A	74	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material (%)		Non-Fibrous Material (%)	
None Detected < 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-072A	75	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material (%)		Non-Fibrous Material (%)	
None Detected < 1					

< Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-8

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-073A	77	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-074A	78	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-075A	79	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-076A	80	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-8

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-077A	81	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-078A	82	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-079A	83	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-080A	84	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile		< 1			
Amosite		< 1			

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-9

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-081A	85	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-082A	86	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-083A	87	03/13/12	03/27/12	KRP	

Sample not received by lab.

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-084A	88	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
None Detected		< 1			

< Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-9

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-085A	89	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-086A	90	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Amosite	2				
Chrysotile	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-087A	91	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-088A	92	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

< Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-9

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-089A	93	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-090A	94	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-091A	95	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-092A	96	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

<; Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-10

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-093A	97	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-094A	98	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-095A	99	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-096A	100	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-10

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-097A	101	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-098A	102	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-099A	103	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	None Detected	< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-100A	104	03/13/12	03/26/12	KRP	Soil
	Asbestos Identification (%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
	Chrysotile	2			
	Amosite	< 1			

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-10

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-101A	105	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
Amosite		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-102A	106	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
Chrysotile		< 1			
Amosite		2			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-103A	107	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
Amosite		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-104A	108	03/13/12	03/26/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
None Detected		< 1			

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-11

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-105A	109	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-106A	110	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-107A	111	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-108A	112	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-11

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-109A	113	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-110A	114	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-111A	115	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-112A	117	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Amosite	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-12

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-113A	118	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-114A	119	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-115A	120	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-116A	121	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-12

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-117A	122	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-118A	123	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-119A	124	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile	< 1				
Amosite	2				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-120A	125	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-12

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-121A	126	03/13/12	03/26/12	KRP	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-122A	127	03/13/12	03/27/12	NG	Soil

Sample not received

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-123A	128	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-124A	129	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile	2				
Amosite	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-13

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-125A	130	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile		2			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-126A	131	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-127A	132	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-128A	133	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-13

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-129A	134	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-130A	135	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-131A	136	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-132A	137	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-14

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-133A	138	03/13/12	03/27/12	NG	Soil
	Asbestos Identification (%)	Fibrous Material (%)		Non-Fibrous Material (%)	
	None Detected < 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-134A	139	03/13/12	03/27/12	NG	Soil
	Asbestos Identification (%)	Fibrous Material (%)		Non-Fibrous Material (%)	
	None Detected < 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-135A	140	03/13/12	03/27/12	NG	Soil
	Asbestos Identification (%)	Fibrous Material (%)		Non-Fibrous Material (%)	
	None Detected < 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-136A	141	03/13/12	03/27/12	NG	Soil
	Asbestos Identification (%)	Fibrous Material (%)		Non-Fibrous Material (%)	
	None Detected < 1				

< Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-14

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-137A	142	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-138A	143	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-139A	144	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-140A	145	03/13/12	03/27/12	NG	Soil
Asbestos Identification	(%)	Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected	< 1				

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-14

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-141A	146	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-142A	147	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-143A	148	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
Amosite		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-144A	149	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material	(%)
Chrysotile		< 1			
Amosite		< 1			

<: Result is less than the indicated limit of detection.



ANALYTICAL RESULTS

Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203226

Date: 27-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/16/2012

Sample Type: Soil

Report Date: 3/27/2012 1:39:58 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-23-12F-15

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-145A	150	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
None Detected		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-146A	76	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
Amosite		< 1			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203226-147A	116	03/13/12	03/27/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%)	
None Detected		< 1			

<: Result is less than the indicated limit of detection.

Analyst(s) Name/Date:



3/27/2012

A126322

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.
Atlanta Lab
 3380 Chastain Meadows Pky, Ste 300 95 Oakwood Road
 Kennesaw, GA 30144
 (800) 252-9919 (888) 576-7522
 (770) 499-7500 (847) 726-3320
 Fax (770) 499-7611 Fax (847) 726-3323

RUSH ANALYSIS
 CONTACT LAB IN ADVANCE
 Need Results by _____
 Charges Authorized? Yes No
 (if yes, initial here)
 Email Results Fax

REPORT TO

Name: Allen Bartels Client Job No. 1519980 Call for Credit Card Information Direct Bill

Company: Terracon Dept. _____

Mailing Address: 15910 West 96th Terrace

City, State, Zip: Lenexa, KS 66215

Telephone No. 913-492-7777 Fax No. _____

Special instructions and/or specific regulatory requirements (include lab location, etc.)
As a SA meeting per Dave Hartshorn - GSA
Email Rpt. to: bartels@terracon.com
ksarnold@terracon.com

* Explanation of Preservation

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/MEDIA	AIR VOLUME (specify units)	Where: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater	Soils: Which state are these from? _____	Number of Containers	ANALYSIS REQUESTED (Enter an X in the box below to indicate request. Enter a P if Preservative added.)		
1	3/20/07	10:00	Soil							
2										
3										
4										
5										
6										
7										
8										
9										
10										

CHAIN OF CUSTODY

Collected by: _____ (print)
 Relinquished by: _____
 Relinquished by: _____
 Method of Shipment: _____

Collector's Signature: _____
 Received by: _____
 Received by: _____
 Received at Lab by: _____

Date: _____
 Date: _____
 Date: _____

Sample Condition Upon Receipt: Acceptable Other (explain): _____

Authorized by: _____

LABORATORY COPY

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

RUSH ANALYSIS

CONTACT LAB IN ADVANCE
Need Results by: _____
Charges Authorized? Yes No
(If yes, initial here) _____
 Email Results Fax

RESULTS TO Name: Allen Bachtels Client Job No.: 15114980 PO # 15114980 Call for Credit Card Information Direct Bill

Company: Terracon Name: Allen Bachtels

Mailing Address: 13910 West 96th Terrace Company: Terracon, Inc

City, State, Zip: Lenexa, KS 66215 Address: 13910 West 96th Terrace

Telephone No.: 913/492-7777 Fax No.: _____ City, State, Zip: Lenexa, KS 66215

Special Instructions and/or specific regulatory requirements:
At GSA Pricing per Dave Hartshorn - GSA
Email Request: abachtels@terracon.com
KS Arnold & Terracon.com

Waters: Drinking Water Wastewater Wastewater

Scuffs: When state are Brest from? _____

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter 1 if Preservation added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)	Number of Containers		
					1	2	3
13	10/26/09	11:30	Soil				
14	10/26/09	11:30	Soil				
15	10/26/09	11:30	Soil				
16	10/26/09	11:30	Soil				
17	10/26/09	11:30	Soil				
18	10/26/09	11:30	Soil				
19	10/26/09	11:30	Soil				
20	10/26/09	11:30	Soil				
21	10/26/09	11:30	Soil				
22	10/26/09	11:30	Soil				
23	10/26/09	11:30	Soil				
24	10/26/09	11:30	Soil				

CHAIN OF CUSTODY

Collected by: _____ (print)
Relinquished by: _____
Relinquished by: _____
Method of Shipment: _____

Collector's Signature: _____
Received by: _____
Received by: _____
Received at Lab by: _____

Date: _____
Date/Time: _____
Date/Time: _____
Date/Time: _____

Sample Condition Upon Receipt: Acceptable Other (explain) _____

Authorized by: _____ Date: _____

(Client Signature MUST Accompany Request)

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.

Atlanta Lab
3380 Chastain Meadows Pkwy, Ste 300
Lake Zurich, IL 60047
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB IN ADVANCE
Need Results by: _____
Changes Authorized? Yes No
(if yes, initial here)
 Email Results Fax

CLIENT SAMPLE IDENTIFICATION 37 38 39 40 41 42 43 44 45 46 47 48		DATE SAMPLED 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02 12/12/02	TIME SAMPLED 10:19 10:19 10:19 10:19 10:19 10:19 10:19 10:19 10:19 10:19 10:19 10:19	MATRIX/MEDIA Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil	AIR VOLUME (Specify units) 	Waters: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater	Metals: <input type="checkbox"/> With stress <input type="checkbox"/> No stress <input type="checkbox"/> None	Client Job No. 151000 Dept. _____	Name Aileen Bartels Company TECHCON Mailing Address 13910 West 96th Terrace City, State, Zip Lenexa, KS 66215 Telephone No. 913-492-2177 Fax No. _____	Name Aileen Bartels Company TECHCON Address 13910 West 96th Terrace City, State, Zip Lenexa, KS 66215	<input type="checkbox"/> PO # 151000 <input type="checkbox"/> Call for Credit Card Information <input type="checkbox"/> Direct Bill <input type="checkbox"/> ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.) (Enter an 'X' in the box below to indicate request) Enter a 'P' if Preservative added. X	Number of Containers 	FOR LAB USE ONLY
---	--	--	--	--	--	---	--	---	---	--	---	--	--

Collected by: _____ (print)
 Relinquished by: _____ (print)
 Relinquished by: _____ (print)
 Method of Shipment: _____
 Date: **12/12/02**

Collector's Signature
 Received by: _____
 Received by: _____
 Received at Lab by: _____
 Sample Condition Upon Receipt Acceptable Other (explain)

Date/Time
 Date/Time
 Date/Time

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.
 Detroit Lab
 22345 Koethel Drive
 Novi, MI 48375
 (800) 806-5887
 (248) 344-1770
 Fax (248) 344-2685

Atlanta Lab
 3380 Chastain Meadows Pky, Ste 300
 Kennesaw, GA 30144
 (800) 252-9919
 (770) 499-7500
 Fax (770) 499-7511

Chicago Lab
 95 Oakwood Road
 Lake Zurich, IL 60047
 (888) 576-7522
 (847) 726-3320
 Fax (847) 726-3323

FUSH ANALYSIS
 CONTACT LAB IN ADVANCE
 Need Results by: _____
 Changes Authorized? Yes No
 (if yes, initial here)
 Email Results Fax

RESULTS TO REPORT

Name: Allen Bartsels Client Job No.: 511070

Company: Terra.com Dept: _____

Mailing Address: 13910 West 96th Terrace

City, State, Zip: Lenexa, KS 66215

Telephone No.: 913-482-7777 Fax No.: _____

Special instructions, analysis specific, regulatory requirements, analytical level of detection, etc.:
For EPA Priority per Dave Hartshorn - GSA
Envl Results: a-bartsels@terra.com.com
ksarnold@terra.com.com

Waters: Drinking Water Groundwater Wastewater

Media: Which state are these from? _____

PO # 1519988 Call for Credit Card Information Direct Bill

Name: Allen Bartsels

Company: Terra.com

Address: 13910 West 96th Terrace

City, State, Zip: Lenexa, KS 66215

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/MEDIA	AIR VOLUME (Specify units)	Number of Containers	BLIND/BYDEPT INFORMATION		FOR LAB USE ONLY
						Operator	Analyst	
601	8/22/04	11:00	Soil					
602	8/22/04	11:00	Soil					
603	8/22/04	11:00	Soil					
604	8/22/04	11:00	Soil					
605	8/22/04	11:00	Soil					
606	8/22/04	11:00	Soil					
607	8/22/04	11:00	Soil					
608	8/22/04	11:00	Soil					
609	8/22/04	11:00	Soil					
610	8/22/04	11:00	Soil					

Collected by: _____ (print)

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Method of Shipment: _____

Authorized by: _____ Date: _____

Collector's Signature: _____

Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Received at Lab by: _____ Date/Time: _____

Sample Condition Upon Receipt: Accessible Other (explain)

(Client Signature MUST Accompany Request)

LABORATORY COPY

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
 Bureau Veritas Lab Project No. _____



Detroit Lab
 22345 Roethel Drive
 Novi, MI 48375
 (800) 806-5887
 (248) 344-1770
 Fax (248) 344-2655

Bureau Veritas North America, Inc.

Atlanta Lab
 3380 Chastain Meadows Pky, Ste 300
 Kennesaw, GA 30144
 (800) 252-9919
 (770) 499-7500
 Fax (770) 499-7511

Chicago Lab
 95 Oakwood Road
 Lake Zurich, IL 60047
 (888) 576-7522
 (847) 726-3320
 Fax (847) 726-3323

RUSH ANALYSIS
 CONTACT LAB BY ADVANCE
 Need Results by: _____
 Charges Authorized? Yes No
 (If yes, initial here)
 Email Results Fax

REPORT INFORMATION

Name: Allen Bachtel Client Job No.: 1519980 Dept.: _____
 Company: TECH-COM PO # 1519980 Call for Credit Card Information Direct Bill
 Mailing Address: 13910 West 96th Place
 City, State, Zip: Lenexa, KS 66215
 Telephone No.: 913-492-7777 Fax No.: _____
 Special Instructions and/or specific regulatory requirements:
* GSA Priority per Dave Hartshorn - GSA
Encl. Per State: arbartels @ Tech.com, com
ksarnold @ Tech.com, com
 * Explanation of Designation: _____

ANALYSIS REQUESTED
 (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)
 ANALYSIS REQUESTED: ANALYSIS OF PARTICLES

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)	FOR LAB USE ONLY
1	8/24/00	11:00	SOS		
2					
3					
4					
5					
6					
7					
8					

CHAIN OF CUSTODY

Collected by: _____ (print)
 Requisitioned by: _____
 Requisitioned by: _____
 Method of Shipment: _____

Collector's Signature: _____
 Received by: _____
 Received by: _____
 Received at Lab by: _____

Date: _____
 Date: _____
 Date: _____

Sample Condition Upon Receipt: Acceptable Other (explain): _____

(Client Signature MUST accompany Request)

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.
Detroit Lab
 22345 Roethel Drive
 Novi, MI 48375
 (800) 806-5887
 (248) 344-1770
 Fax (248) 344-2655

Atlanta Lab
 3380 Chastain Meadows Pky, Ste 300
 Kennesaw, GA 30144
 (800) 252-9919
 (770) 499-7500
 Fax (770) 499-7511

Chicago Lab
 95 Oakwood Road
 Lake Zurich, IL 60047
 (888) 576-7522
 (847) 726-3320
 Fax (847) 726-3323

RUSH ANALYSIS
 CONTACT LAB IN ADVANCE
 Need Results by: _____
 Changes Authorized? Yes No
 (If yes, initial here)
 Email Results Fax

RESPONSE TO REQUEST

Name: Allen Bactels Client Lab. No. 1511080 Dept. _____
 Company: Terra.com
 Mailing Address: 13910 West 96th Terrace
 City, State, Zip: Lenexa, KS 66215
 Telephone No. 913-492-7777 Fax No. _____

Special Instructions and/or specific regulatory requirements:
ISA Priority per Dave Hartshorn - ISA
Email Raw Data: abactels@terra.com
ks.arnold@terra.com

* Explanation of Preservation

Waters: Drinking Water Groundwater Wastewater

Soils: Within state Interstate From?

BILLING/INVOICE INFORMATION: PO # 1511080 Call for Credit Card Information Direct Bill

Name: Allen Bactels Call for Credit Card Information Direct Bill
 Company: Terra.com
 Address: 13910 West 96th Terrace
 City, State, Zip: Lenexa, KS 66215

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)	Number of Containers	FOR LAB USE ONLY
79	3/22/11	11:42	Soil			
80	3/22/11	11:43	Soil			
81	3/22/11	11:44	Soil			
82	3/22/11	11:45	Soil			
83	3/22/11	11:46	Soil			
84	3/22/11	11:47	Soil			
85	3/22/11	11:48	Soil			
86	3/22/11	11:49	Soil			
87	3/22/11	11:50	Soil			
88	3/22/11	11:51	Soil			

CHAIN OF CUSTODY

Collected by: _____ (print)
 Requisitioned by: _____ Date/Time: _____
 Requisitioned by: _____ Date/Time: _____
 Method of Shipment: _____

Authorized by: _____ Date: _____

Sample Condition Upon Receipt: Acceptable Other (explain): _____

Received at Lab by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Collector's Signature: _____ Date/Time: _____

(Client Signature MUST Accompany Request)

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.

Detroit Lab
22345 Roothel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
Fax (248) 344-2655

Chicago Lab
3380 Chastain Meadows Pky, Ste 300
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB IN ADVANCE

Have Samples by: _____ / _____ / _____
Changes Authorized? Yes No
 Email Reports Fax

RESULTS TO REPORT Name: <u>Allen Bartels</u> Client Job No. <u>15119880</u> Company: <u>Terracon</u> Dept. _____ Mailing Address: <u>13910 West 96th Terrace</u> City, State, Zip: <u>Lenexa, KS 66215</u> Telephone No. <u>913/492-7777</u> Fax No. _____		<input type="checkbox"/> PO # <u>15119880</u> <input type="checkbox"/> Call for Credit Card Information <input type="checkbox"/> Direct Bill Name: <u>Allen Bartels</u> Company: <u>Terracon</u> Address: <u>13910 West 96th Terrace</u> City, State, Zip: <u>Lenexa, KS 66215</u>																																													
Special instructions and/or specific regulatory requirements: <u>As per EPA testing per Dan Hartshorn - GIA</u> <u>Email Reports to: bartels@terracon.com</u> <u>ks Arnold @ Terracon.com</u> <small>* Expedition of Preparation</small>		ANALYSIS REQUESTED <small>(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservation is desired.)*</small> <u>As per EPA testing per Dan Hartshorn - GIA</u>																																													
CLIENT SAMPLE IDENTIFICATION <table border="1"> <thead> <tr> <th>DATE SAMPLED</th> <th>TIME SAMPLED</th> <th>MATRIX MEDIA</th> <th>AIR VOLUME (specify units)</th> </tr> </thead> <tbody> <tr> <td>10/1</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/2</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/3</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/4</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/5</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/6</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/7</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/8</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/9</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> <tr> <td>10/10</td> <td>12:00</td> <td>Soil</td> <td></td> </tr> </tbody> </table>		DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)	10/1	12:00	Soil		10/2	12:00	Soil		10/3	12:00	Soil		10/4	12:00	Soil		10/5	12:00	Soil		10/6	12:00	Soil		10/7	12:00	Soil		10/8	12:00	Soil		10/9	12:00	Soil		10/10	12:00	Soil		Whiskers: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater	
DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)																																												
10/1	12:00	Soil																																													
10/2	12:00	Soil																																													
10/3	12:00	Soil																																													
10/4	12:00	Soil																																													
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10/8	12:00	Soil																																													
10/9	12:00	Soil																																													
10/10	12:00	Soil																																													
Collected by: _____ Requisitioned by: _____ Requisitioned by: _____ Method of Shipment: _____		Collector's Signature: _____ Received by: _____ Received by: _____ Received at Lab by: _____ Sample Condition Upon Receipt: <input type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain): _____																																													
Authorized by: _____ <small>(Client Signature MUST Accompany Request)</small>		Date: _____																																													

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
 Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.

Detroit Lab
 22345 Roethel Drive
 Novi, MI 48375
 (800) 806-5887
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Atlanta Lab
 3380 Chastain Meadows Pky, Ste 300
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 (800) 252-9919
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 Fax (770) 499-7511

Chicago Lab
 95 Oakwood Road
 Lake Zurich, IL 60047
 (888) 576-7522
 (847) 726-3320
 Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB IN ADVANCE

Need Results by: _____

Changes Authorized? Yes No
 (if yes, initial name)

Email Results Fax

Name: Allen Bartels Client Job No. 1519990

Company: Terracon Dept. _____

Mailing Address: 13910 West 96th Terrace

City, State, Zip: Lenexa, KS 66215

Telephone No. 913-492-7777 Fax No. _____

Special Instructions and/or specific regulatory requirements:
At EPA Meeting For Dave Hartshorn - GJA
Email Reports to: a-bartels@terracon.com
ks.arnold@terracon.com

PO # 1519990 Call for Credit Card Information Direct Bill

Name: _____

Company: Terracon

Address: 13910 West 96th Terrace

City, State, Zip: Lenexa, KS 66215

ANALYSIS REQUESTED
 (Enter an X in the box below to indicate request. Enter a P if Preservative added.)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)	Number of Containers	FOR LAB USE ONLY
113	8/23/06	13:00	Soil			
114	8/23/06	13:02				
115	8/23/06	13:09				
116	8/23/06	13:06				
117	8/23/06	13:10				
118	8/23/06	13:11				
119	8/23/06	13:14				
120	8/23/06	13:14				
121	8/23/06	13:16				
122	8/23/06	13:22				
123	8/23/06	13:27				

CHAIN OF CUSTODY

Collected by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Method of Shipment: _____

Authorized by: _____ Date: 8/23/06

Collector's Signature: _____

Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Received at Lab by: _____ Date/Time: _____

Sample Condition Upon Receipt: Acceptable Other (explain): _____

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
 Bureau Veritas Lab Project No. _____



Bureau Veritas North America, Inc.

Detroit Lab
 22345 Rosiel Drive
 Novi, MI 48375
 (800) 808-9887
 (248) 344-1770
 Fax (248) 344-2655

Atlanta Lab
 3380 Chastain Meadows Pky, Ste 300
 Kennesaw, GA 30144
 (800) 252-9919
 (770) 499-7500
 Fax (770) 499-7511

Chicago Lab
 95 Oakwood Road
 Lake Zurich, IL 60047
 (888) 576-7522
 (847) 726-3320
 Fax (847) 726-3323

RUSH ANALYSIS

CONTACT LAB IN ADVANCE
 Need Results by _____
 Charges Authorized? Yes No
 (If yes, initial below)
 Exact Results Fax

CLIENT INFORMATION

Name: Allen Bartels Client Job No. 1511080
 Company: Terracon Dept. _____
 Mailing Address: 13910 West 96th Terrace
 City, State, Zip: Lenexa, KS 66215
 Telephone No. 913-492-7777 Fax No. _____

ANALYSIS REQUESTED
 (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservation applies.)

Soils: Which shall you choose (mark)	Water: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Groundwater <input type="checkbox"/> Wastewater
---	--

Special Instructions and/or specific regulatory requirements:
At GSA Meeting per Dave Hartshorn - GSA
Email Results: bartels@terracon.com
KS Arnold & Terracon.com

Exp. of Preservation: _____

PO # 1511080 Call for Credit Card Information Direct Bill

Name: Allen Bartels Defect Bill

Company: Terracon

Address: 13910 West 96th Terrace

City, State, Zip: Lenexa, KS 66215

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)	FOR LAB USE ONLY
176	5/13/13	13:30	Soil		
177	5/13/13	13:30	Soil		
178	5/13/13	13:30	Soil		
179	5/13/13	13:30	Soil		
180	5/13/13	13:30	Soil		
181	5/13/13	13:30	Soil		
182	5/13/13	13:30	Soil		
183	5/13/13	13:30	Soil		
184	5/13/13	13:30	Soil		
185	5/13/13	13:30	Soil		
186	5/13/13	13:30	Soil		
187	5/13/13	13:30	Soil		

CHAIN OF CUSTODY

Collected by: _____ (print)
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Method of Shipment: _____

Authorized by: _____ Date: _____

Collector's Signature: _____
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received at Lab by: _____ Date/Time: _____

Sample Condition Upon Receipt: Acceptable Other (explain): _____

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.
 Detroit Lab
 22345 Rosethel Drive
 Novi, MI 48375
 (800) 806-6687
 (248) 344-1770
 Fax (248) 344-2655

Bureau Veritas North America, Inc.
 Atlanta Lab
 3380 Chastain Meadows Pky, Ste 300
 Kennesaw, GA 30144
 (800) 252-9919
 (770) 499-7500
 Fax (770) 499-7511

Bureau Veritas North America, Inc.
 Chicago Lab
 95 Oakwood Road
 Lake Zurich, IL 60047
 (888) 576-7522
 (847) 726-3320
 Fax (847) 726-3323

RUSH ANALYSIS
 CONTACT LAB IN ADVANCE
 Need Results by: _____
 Changes Authorized? Yes No
 (If yes, initial here) Email Results Fax

RESULTS TO: _____
 Name: Allen Bartsch Client Job No.: 15110880
 Company: Terracon Dept.: _____
 Mailing Address: 13910 West 96th Terrace
 City, State, Zip: Lenexa, KS 66215
 Telephone No.: 913-1492-7177 Fax No.: _____
 Special Instructions: Per Dave Hartshorn - GSA
Send Results to: a.bartsch@terracon.com
 * Registration of Preservation: ksarnold@terracon.com

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX MEDIA	AIR VOLUME (specify units)	Number of Containers	ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)
133	1/12/08	13:00	Soil			
139	1/13/08	13:00				
140	1/13/08	13:00				
141	1/13/08	13:00				
142	1/13/08	13:00				
143	1/13/08	13:00				
144	1/13/08	13:00				
145	1/13/08	13:00				
146	1/13/08	13:00				
147	1/13/08	13:00				
148	1/13/08	13:00				
149	1/13/08	13:00				

FOR LAB USE ONLY

Collected by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Method of Shipment: _____
 Authorized by: _____ Date: _____
 Collector's Signature: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received at Lab by: _____ Date/Time: _____
 Sample Condition Upon Receipt: Acceptable Other (explain)

