



COPY

Log in #

147845

Client ID #
2027.07
Name / Client / Address:
Northgate Environmental

MICRO ANALYTICAL LABORATORIES, INC.
5900 Hollis St., Suite M, Emeryville, CA 94608
(510) 653-0824 - (510) 653-1381 - FAX

300 Frank H. Ogawa Plaza, Suite
510
Oakland, CA 94612

Project
Tronox LLC

Asbestos (TEM) NIOSH 7400

Asbestos

Lead Only

Metals (Specify)

Mold, Non-Viable

Other (Specify)

Tel. (510) 839-0688

Fax (510) 839-4350

Job No. 2027.07

E-mail ted.splitter@ngem.com

Number of Samples 10
Turn-Around Time 3-5 DAYS

Micro ID # (For Lab Use Only)	Client Sample ID#	Description	Date Sampled	Time Sampled		Average LPM	Total Liters	Filter Pore Size
				Start / Stop / Total Minutes				
	RZC-17-12022010	RZC-17 Work Zone (BS823195)	12/02/2010	09:04	17:31	2.0	1,014.00	0.80
				507				
	FB-1-12022010	RZC-17 Work Zone Field Blank (BS823259)	12/02/2010	:	:	0.0	0.00	0.80
				0				
	RZC-17.09A.10A-12032010	RZC-17, 09A, 10A Work Zone (BS826264)	12/03/2010	05:44	17:06	2.0	1,364.00	0.80
				682				
	FB-1-12032010	RZC-17, 09A, 10A Work Zone Field Blank (BS823041)	12/03/2010	:	:	0.0	0.00	0.80
				0				
	RZ-B-9-1203010	RZ-B-9 Work Zone (BS826290)	12/03/2010	11:00	16:40	2.0	680.00	0.80
				340				
	FB-1-RZB-9-12032010	RZ-B-9 Work Zone Field Blank (BS822844)	12/03/2010	:	:	0.0	0.00	0.80
				0				
	RZC-12062010B	RZC-17, 09A Work Zone (BS826496)	12/06/2010	06:20	16:50	2.0	1,260.00	0.80
				630				
	FB-RZC-12062010	RZC Field Blank (BS826284)	12/06/2010	:	:	0.0	0.00	
				0				
	RZ-B-5-12062010	RZ-B-5 Work Zone (BS826512)	12/06/2010	05:15	14:52	2.0	1,154.00	
				577				
	FB-1-RZB-5-12062010	RZ-B-5 Field Blank (BS826502)		:	:	0.0	0.00	
				0				

Instructions / Comments: Fax E-mail To: ted.splitter@ngem.com; david.behnken@ngem.com

Sample Return: YES NO If "YES" is checked, samples will be returned to the client or archived at Micro Analytical if required. If "NO" is checked, solid samples may be disposed of within three months (one week for liquid samples, lab suspensions, and digestates).

Francisco Barron
Sampler's Signature / Name *Francisco Barron* Note to Lab: If any samples are not acceptable, record reasons for rejection.

Ronda S. Bailey *Ronda S. Bailey* Drop Box / Courier
Relinquished By Date / Time Received By Date / Time

Relinquished By Date/Time Received By Date / Time

Client ID #
2027.07

MICRO ANALYTICAL LABORATORIES, INC.

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Log in #

Empty box for Log in #

Name / Client / Address:

Northgate Environmental
300 Frank H. Ogawa Plaza, Suite
510
Oakland, CA 94612

Project

Tronox LLC

Asbestos (TEM) NIOSH 7400

Asbestos

Lead Only

Metals (Specify)

Mold, Non-Viable

Other (Specify)

Number of Samples

2

Turn-Around Time

3-5 DAYS

Tel. (510) 839-0688

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Job No. 2027.07



Micro ID # (For Lab Use Only)	Client Sample ID#	Description	Date Sampled	Time Sampled		Average LPM	Total Liters	Filter Pore Size
				Start / Stop / Total Minutes				
	RZ-B-11-12012010	RZ-B-11 Work Zone (BS823085)	12/01/2010	10:45	16:00	2.0	630.00	0.80
				315				
	FB-1-12012010	RZ-B-11 Work Zone Field Blank (BS823229)	12/01/2010	:	:	0.0	0.00	0.80
				:	:	2.0	0.00	0.80
				:	:	0.0	0.00	0.80
				:	:	2.0	0.00	0.80
				:	:	0.0	0.00	0.80
				:	:	2.0	0.00	0.80
				:	:	0.0	0.00	0.80
				:	:	2.0	0.00	0.80
				:	:	0.0	0.00	0.80

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Francisco Barron

Sampler's Signature / Name

Ronda S. Bailey
Ronda S. Bailey 12/8/01502

Note to Lab: If any samples are not acceptable, record reasons for rejection.

Relinquished By

Date / Time

Empty date/time box

Received By

Date / Time

Relinquished By

Date/Time

Empty date/time box

Received By

Date / Time

Client ID #
2027.07
Name / Client / Address:
Northgate Environmental
300 Frank H. Ogawa Plaza, Suite
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Oakland, CA 94612
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MICRO ANALYTICAL LABORATORIES, INC.

5900 Hollis St., Suite M, Emeryville, CA 94608
(510) 653-0824 - (510) 653-1361 - FAX

Log in # 147945

Project
Tronox LLC

Asbestos (TEM) NIOSH 7400
Asbestos
Lead Only
Metals (Specify)
Mold, Non-Viable
Other (Specify)

Number of Samples 10 **Turn-Around Time** 3-5 DAYS

Micro ID # (For Lab Use Only)	Client Sample ID#	Description	Date Sampled	Time Sampled Start / Stop / Total Minutes	Average LPM	Total Liters	Filter Pore Size
1	RZC-17-12022010	RZ-C-17 Work Zone (BS823195)	12/02/2010	09:04 17:31 507	2.0	1,014.00	0.80
2	FB-1-12022010	RZ-C-17 Work Zone Field Blank (BS823259)	12/02/2010	: : 0	0.0	0.00	0.80
3	RZC-17.09A.10A-12032010	RZC-17, 09A, 10A Work Zone (BS826264)	12/03/2010	05:44 17:06 682	2.0	1,364.00	0.80
4	FB-1-12032010	RZC-17, 09A, 10A Work Zone Field Blank (BS823041)	12/03/2010	: : 0	0.0	0.00	0.80
5	RZ-B-9-1203010	RZ-B-9 Work Zone (BS826290)	12/03/2010	11:00 16:40 340	2.0	680.00	0.80
6	FB-1-RZB-9-12032010	RZ-B-9 Work Zone Field Blank (BS822844)	12/03/2010	: : 0	0.0	0.00	0.80
7	RZ-C-12062010B	RZ-C-17, 09A Work Zone (BS826496)	12/06/2010	06:20 16:50 630	2.0	1,260.00	0.80
8	FB-RZ-C-12062010	RZC Field Blank (BS826284)	12/06/2010	: : 0	0.0	0.00	
9	RZ-B-5-12062010	RZ-B-5 Work Zone (BS826512)	12/06/2010	05:15 14:52 577	2.0	1,154.00	
10	FB-1-RZB-5-12062010	RZ-B-5 Field Blank (BS826502)		: : 0	0.0	0.00	

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Relinquished By: *Ronda S. Bailey* Note to Lab: If any samples are not acceptable, record reasons for rejection.
Date / Time: 12/9/10 15:00 Received By: *HM* Date / Time: 12-9-10 10:04

Relinquished By: Date/Time: Received By: Date / Time:

CLEAR FORM

SAVE FORM

E-MAIL

Client ID #
2027.07

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Tronox LLC

Asbestos (TEM) NIOSH 7400

Asbestos

Lead Only

Metals (Specify)

Mold, Non-Viable

Other (Specify)

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Fax (510) 839-4350

Job No. 2027.07

E-mail ted.splitter@ngem.com

Number of Samples 2 Turn-Around Time 3-5 DAYS

Micro ID # (For Lab Use Only)	Client Sample ID#	Description	Date Sampled	Time Sampled Start / Stop / Total Minutes	Average LPM	Total Liters	Filter Pore Size
11	RZ-B-11-12012010	RZ-B-11 Work Zone (BS823085)	12/01/2010	10:45 16:00 3:15	2.0	630.00	0.80
12	FB-1-12012010	RZ-B-11 Work Zone Field Blank (BS823229)	12/01/2010	: : 0	0.0	0.00	0.80
				: : 0	2.0	0.00	0.80
				: : 0	0.0	0.00	0.80
				: : 0	2.0	0.00	0.80
				: : 0	0.0	0.00	0.80
				: : 0	2.0	0.00	0.80
				: : 0	0.0	0.00	0.80
				: : 0	2.0	0.00	0.80
				: : 0	0.0	0.00	0.80

Instructions / Comments: Fax E-mail To: ted.splitter@ngem.com; david.behnken@ngem.com

Sample Return: YES NO If "YES" is checked, samples will be returned to the client or archived at Micro Analytical if required. If "NO" is checked, solid samples may be disposed of within three months (one week for liquid samples, lab suspensions, and digestates).

Francisco Barron

Sampler's Signature / Name

Ronda S. Bailey
12/01/2010

Note to Lab: If any samples are not acceptable, record reasons for rejection.

Relinquished By

Date / Time

Received By

Date / Time

Relinquished By

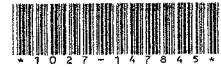
Date/Time

Received By

Date / Time

MICRO ANALYTICAL LABORATORIES, INC.

PHASE CONTRAST MICROSCOPY



1027
 Northgate Environmental Management
 300 Frank H. Ogawa Plaza
 Suite 510
 Oakland, CA 94612

PROJECT:
TRONOX LLC
 JOB NO. 2027.07

Micro Log In **147845**
 Total Samples 12
 Date Sampled 12/02/2010
 Date Received 12/09/2010
 Date Analyzed 12/09/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: RZC-17-12022010 Micro: 147845-01 12/2/2010 RZC-17 WORK ZONE (BS823195) ✓	Time 507 Rate 2 Liters 1014.0	Fibers 6 Fields 100 F/mm ² 7.6	0.003	LCL 0.001 UCL 0.004 LOD 0.003 LOQ 0.038 CV 0.28
Client: FB-1-12022010 Micro: 147845-02 12/2/2010 RZC-17 WORK ZONE FIELD BLANK (BS823259)	Time Rate Liters	Fibers 0 Fields 100 F/mm ² < 7.0		LCL UCL LOD LOQ CV 1.21
Client: RZC-17.09A.10A-12032010 Micro: 147845-03 12/3/2010 RZC-17, 09A, 10A WORK ZONE (BS826264) ✓	Time 682 Rate 2 Liters 1364.0	Fibers 5 Fields 100 F/mm ² < 7.0	< 0.002	LCL 0.000 UCL 0.007 LOD 0.002 LOQ 0.028 CV 1.21
Client: FB-1-12032010 Micro: 147845-04 12/3/2010 RZC-17, 09A, 10A WORK ZONE FIELD BLANK (BS823041)	Time Rate Liters	Fibers 0 Fields 100 F/mm ² < 7.0		LCL UCL LOD LOQ CV 1.21
Client: RZ-B-9-1203010 ✓ Micro: 147845-05 KS 12/3/2010 RZ-B-9 WORK ZONE (BS826290)	Time 340 Rate 2 Liters 680.0	Fibers 9 Fields 100 F/mm ² 11.5	0.006	LCL 0.003 UCL 0.010 LOD 0.004 LOQ 0.057 CV 0.28

Technical Supervisor: Frank Raviola, M.S. 12/9/2010 Date Reported Analyst: KS

AIHA IHLAP LABORATORY Accreditation / PAT ID No. 101768. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (n fibers/cc) for a given fiber count, based on the reported concentration. Intra-laboratory coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (n fibers/cc) based on 8 hours. Note: due to method variability, 95% LCL and UCL for the TWA may vary significantly from reported TWA values. The 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, and pertains only to the samples analyzed. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Micro Analytical Laboratories, Inc. shall not be responsible for clients' deviations from any prescribed sampling parameters. Air volumes are based on client data. The laboratory's verifiability of results is limited to fibers per mm². N/A = not applicable.

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PHASE CONTRAST MICROSCOPY



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Northgate Environmental Management
300 Frank H. Ogawa Plaza
Suite 510
Oakland, CA 94612

PROJECT:
TRONOX LLC
JOB NO. 2027.07

Micro Log In **147845**
Total Samples 12
Date Sampled 12/02/2010
Date Received 12/09/2010
Date Analyzed 12/09/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: FB-1-RZB-9-12032010 Micro: 147845-06 12/3/2010 RZ-B-9 WORK ZONE FIELD BLANK (BS822844)	Time Rate Liters	Fibers 0 Fields 100 F/mm ² < 7.0		LCL UCL LOD LOQ CV 1.21
Client: RZ-C-12062010B Micro: 147845-07 12/6/2010 RZ-C-17, 09A, WORK ZONE (BS826496)	Time 630 Rate 2 Liters 1260.0	Fibers 3 Fields 100 F/mm ² < 7.0	< 0.002	LCL UCL 0.000 0.007 LOD LOQ 0.002 0.031 CV 1.21
Client: FB-RZ-C-12062010 Micro: 147845-08 12/6/2010 RZC FIELD BLANK (BS826284)	Time Rate Liters	Fibers 0 Fields 100 F/mm ² < 7.0		LCL UCL LOD LOQ CV 1.21
Client: RZ-B-5-12062010 Micro: 147845-09 KS 12/6/2010 RZ-B-5 WORK ZONE (BS826512)	Time 577 Rate 2 Liters 1154.0	Fibers 37.5 Fields 100 F/mm ² 47.8	0.016	LCL UCL 0.010 0.022 LOD LOQ 0.002 0.033 CV 0.20
Client: FB-1-RZB-5-12062010 Micro: 147845-10 12/6/2010 RZ-B-5 FIELD BLANK (BS826502)	Time Rate Liters	Fibers 0 Fields 100 F/mm ² < 7.0		LCL UCL LOD LOQ CV 1.21

Technical Supervisor: _____

Frank Ravola, M.S.

12/9/2010
Date Reported

Analyst: _____

KS

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PROJECT:
TRONOX LLC
JOB NO. 2027.07

Micro Log In **147845**
Total Samples 12
Date Sampled 12/02/2010
Date Received 12/09/2010
Date Analyzed 12/09/2010

Sample ID		Field Data		Lab Data		Fibers / cc	Limits	
Client:	RZ-B-11-12012010	Time 315 Rate 2 Liters 630.0	Fibers 5.5 Fields 100 F/mm ² 7.0	0.004	LCL	UCL	0.002	0.007
Micro:	147845-11 12/1/2010				LOD	LOQ	0.004	0.061
RZ-B-11 WORK ZONE (BS823085)					CV	0.28		
Client:	FB-1-12012010	Time Rate Liters	Fibers 0 Fields 100 F/mm ² < 7.0	LCL	UCL			
Micro:	147845-12 12/1/2010			LOD	LOQ			
RZ-B-11 WORK ZONE FIELD BLANK (BS823229)				CV	1.21			

Technical Supervisor: _____


Frank Ravibla, M.S.

12/9/2010
Date Reported

Analyst: _____

KS

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