



Log in # 143655

Client ID #  
2027.07

**MICRO ANALYTICAL LABORATORIES, INC.**

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

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)**

**Tel.** (510) 839-0688

**Fax** (510) 839-4350

Job No. 2027.07

**Number of Samples**

4

**Turn-Around Time**

3-5 DAYS

**E-mail** ted.splitter@ngem.com

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
	FB-1-08242010	Upwind Station Field Blank	08/24/2010	: : :	0.0	0.00	0.80
	FB-2-08242010	Downwind Station Field Blank	08/24/2010	: : 0	0.0	0.00	0.80
	UW-08242010	Upwind Station	08/24/2010	19 : 25    27 : 56 511	2.0	1,022.00	0.80
	DW-08242010	Downwind Station	08/24/2010	19 : 43    28 : 20 517	2.0	1,034.00	0.80
				: : 0	0.0	0.00	
				: : 0	0.0	0.00	
				: : 0		0.00	
				: : 0		0.00	
				: : 0		0.00	
				: : 0		0.00	

Instructions / Comments:     Fax     E-mail To: ted.splitter@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).

**Sampler's Signature / Name**

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

David T. Behnken

Drop Box / Courier

**Relinquished By**

Date / Time

Received By

Date / Time

**Relinquished By**

Date/Time

Received By

Date / Time

CLEAR FORM

SAVE FORM

E-MAIL

Client ID #  
2027.07

MICRO ANALYTICAL LABORATORIES, INC.

5900 Hollis St., Suite M, Emeryville, CA 94608  
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Log in # 143635

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)

Tel. (510) 839-0688

Fax (510) 839-4350

Job No. 2027.07

E-mail ted.splitter@ngem.com

Number of Samples

4

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

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
a1	FB-1-08242010	Upwind Station Field Blank	08/24/2010	: : 0	0.0	0.00	0.80
a2	FB-2-08242010	Downwind Station Field Blank	08/24/2010	: : 0	0.0	0.00	0.80
on	UW-08242010	Upwind Station	08/24/2010	19:25 27:56 511	2.0	1,022.00	0.80
a1	DW-08242010	Downwind Station	08/24/2010	19:43 28:20 517	2.0	1,034.00	0.80
				: : 0	0.0	0.00	
				: : 0	0.0	0.00	
				: : 0		0.00	
				: : 0		0.00	
				: : 0		0.00	
				: : 0		0.00	

Instructions / Comments:

Fax

E-mail To:

ted.splitter@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).

Relinquished By: *David T. Behnken*

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

Relinquished By: David T. Behnken

8/25/10 5:15

Drop Box / Courier

9/26/10 9:46

Date / Time

Received By

Date / Time

Relinquished By

Date/Time

Received By

Date / Time

CLEAR FORM

SAVE FORM

E-MAIL

Client ID #  
2027.07

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Number of Samples

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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
al	FB-1-08242010	Upwind Station Field Blank	08/24/2010	: : :	0.0	0.00	0.80
ol	FB-2-08242010	Downwind Station Field Blank	08/24/2010	: : 0	0.0	0.00	0.80
on	UW-08242010	Upwind Station	08/24/2010	19:25   27:56 511	2.0	1,022.00	0.80
al	DW-08242010	Downwind Station	08/24/2010	19:43   28:20 517	2.0	1,034.00	0.80
				: : 0	0.0	0.00	
				: : 0	0.0	0.00	
				: : 0		0.00	
				: : 0		0.00	
				: : 0		0.00	
				: : 0		0.00	

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David T. Behnken *[Signature]*  
Sampler's Signature / Name

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

David T. Behnken

8/25/10 5:15 Drop Box / Courier

9/26/10 9:46

Relinquished By

Date / Time

Received By

Date / Time

Relinquished By

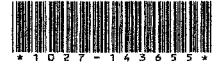
Date / Time

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 **143655**  
Total Samples 4  
Date Sampled 08/24/2010  
Date Received 08/26/2010  
Date Analyzed 08/26/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits	
Client: <b>FB-1-08242010</b> Micro: 143655-01 <b>UPWIND STATION FIELD BLANK</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.47
Client: <b>FB-2-08242010</b> Micro: 143655-02 <b>DOWNWIND STATION FIELD BLANK</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.47
Client: <b>UW-08242010</b> Micro: 143655-03 <b>UPWIND STATION</b>	Time 511 Rate 2 Liters 1022.0	Fibers 9 Fields 100 F/mm <sup>2</sup> 11.5	<b>0.004</b>	LCL 0.002 LOD 0.003 CV	UCL 0.006 LOQ 0.038 0.25
Client: <b>DW-08242010</b> Micro: 143655-04 LM <b>DOWNWIND STATION</b>	Time 517 Rate 2 Liters 1034.0	Fibers 10.5 Fields 100 F/mm <sup>2</sup> 13.4	<b>0.005</b>	LCL 0.003 LOD 0.003 CV	UCL 0.007 LOQ 0.037 0.25

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

8/26/2010  
Date Reported

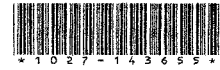
Analyst: \_\_\_\_\_

LM

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/mm<sup>2</sup>. Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm<sup>2</sup>. The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Intralaboratory 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 (in 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 mm<sup>2</sup>. N/A = not applicable.

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## PHASE CONTRAST MICROSCOPY



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PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **143655**  
Total Samples 4  
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Date Received 08/26/2010  
Date Analyzed 08/26/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: <b>FB-1-08242010</b> Micro: 143655-01 <b>UPWIND STATION FIELD BLANK</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.47
Client: <b>FB-2-08242010</b> Micro: 143655-02 <b>DOWNWIND STATION FIELD BLANK</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.47
Client: <b>UJW-08242010</b> Micro: 143655-03 <b>UPWIND STATION</b>	Time 511 Rate 2 Liters 1022.0	Fibers 9 Fields 100 F/mm <sup>2</sup> 11.5	<b>0.004</b>	LCL UCL 0.002 0.006 LOD LOQ 0.003 0.038 CV 0.25
Client: <b>DW-08242010</b> Micro: 143655-04 LM <b>DOWNWIND STATION</b>	Time 517 Rate 2 Liters 1034.0	Fibers 10.5 Fields 100 F/mm <sup>2</sup> 13.4	<b>0.005</b>	LCL UCL 0.003 0.007 LOD LOQ 0.003 0.037 CV 0.25

Technical Supervisor: \_\_\_\_\_

Frank Raviola, M.S.

8/26/2010  
Date Reported

Analyst: \_\_\_\_\_

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