

Client ID #

2027.07

Name / Client / Address:

Northgate Environmental

300 Frank H. Ogawa Plaza, Suite

510

Oakland, CA 94612

Tel. (510) 839-0688

Fax (510) 839-4350

E-mail ted.splitter@ngem.com

**MICRO ANALYTICAL LABORATORIES, INC.**

5900 Hollis St., Suite M, Emeryville, CA 94608

(510) 653-0824 - (510) 653-1361 - FAX

Log in #

145102

**Project**  
Tronox LLC

Job No. 2027.02

**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		Average LPM	Total Liters	Filter Pore Size
				Start / Stop / Total Minutes				
	RZ-D-17-09202010	Remediation Zone 17 (BM884473)	09/20/2010	10:45	16:05	2.0	640.00	0.80
				320				
	FB-1-09202010	Remediation Zone 17 Field Blank (BM884392)	09/20/2010	:	:	0.0	0.00	0.80
				0				
	RZ-D-17-09222010A	Remediation Zone 17 (BM884448)	09/22/2010	06:33	10:02	2.0	418.00	0.80
				209				
	FB-1-09222010	Remediation Zone 17 Field Blank (BM884362)	09/22/2010	:	:	0.0	0.00	0.80
				0				
	RZ-D-17-09222010B	Remediation Zone 17 (BM884525)	09/22/2010	14:58	16:32	2.0	188.00	0.80
				94				
	FB-2-09222010	Remediation Zone 17 Field Blank (BM884526)	09/22/2010	:	:	0.0	0.00	0.80
				0				
	09082010B-UW	Upwind (BM860687)	09/08/2010	04:40	17:15	2.0	1,510.00	0.80
				755				
	FB-1-09072010B	Upwind Field Blank (BM884527)	09/08/2010	:	:	0.0	0.00	
				0				
	09082010B-DW	Downwind (BM884381)	09/08/2010	04:55	17:01	2	1,452.00	
				726				
	FB-2-09072010B-DW	Downwind Field Blank (BM884361)	09/08/2010	:	:	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).

Nicky Galloway

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

Client ID #

2027.07

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Tronox LLC

Asbestos (TEM) NIOSH 7400 POM

Asbestos

Lead Only

Metals (Specify)

Mold, Non-Viable

Other (Specify)

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				Start / Stop / Total Minutes				
01	RZ-D-17-09202010	Remediation Zone 17 (BM884473)	09/20/2010	10:45	16:05	2.0	640.00	0.80
				320				
02	FB-1-09202010	Remediation Zone 17 Field Blank (BM884392)	09/20/2010	:	:	0.0	0.00	0.80
				0				
03	RZ-D-17-09222010A	Remediation Zone 17 (BM884448)	09/22/2010	06:33	10:02	2.0	418.00	0.80
				209				
04	FB-1-09222010	Remediation Zone 17 Field Blank (BM884362)	09/22/2010	:	:	0.0	0.00	0.80
				0				
05	RZ-D-17-09222010B	Remediation Zone 17 (BM884525)	09/22/2010	14:58	16:32	2.0	188.00	0.80
				94				
06	FB-2-09222010	Remediation Zone 17 Field Blank (BM884526)	09/22/2010	:	:	0.0	0.00	0.80
				0				
07	09082010B-UW	Upwind (BM860687)	09/08/2010	04:40	17:15	2.0	1,510.00	0.80
				755				
08	FB-1-09072010B	Upwind Field Blank (BM884527)	09/08/2010	:	:		0.00	
				0				
09	09082010B-DW	Downwind (BM884381)	09/08/2010	04:55	17:01	2	1,452.00	
				726				
10	FB-2-09072010B-DW	Downwind Field Blank (BM884361)	09/08/2010	:	:	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).

Nicky Galloway

Sampler's Signature / Name: *Nicky Galloway* Note to Lab: If any samples are not acceptable, report reasons for rejection.

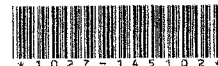
David T. Behnken Drop Box / Courier 9/29/10 10:17

Relinquished By: *[Signature]* Date / Time: [ ] [ ] [ ] [ ] Received By: *[Signature]* 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 **145102**  
Total Samples 10  
Date Sampled 09/20/2010  
Date Received 09/29/2010  
Date Analyzed 09/29/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits	
Client: <b>FB-2-09222010</b> Micro: 145102-06 <b>REMEDATION ZONE 17 FIELD BLANK (BM884526)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.48
Client: <b>09082010B-UW</b> Micro: 145102-07 <b>UPWIND (BM860687)</b>	Time 755 Rate 2 Liters 1510.0	Fibers 10.5 Fields 100 F/mm <sup>2</sup> 13.4	<b>0.003</b>	LCL LOD CV	UCL 0.005 LOQ 0.025 0.25
Client: <b>FB-1-09072010B</b> Micro: 145102-08 <b>UPWIND FIELD BLANK (BM884527)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.48
Client: <b>09082010B-DW</b> Micro: 145102-09 <b>DOWNWIND (BM884381)</b>	Time 726 Rate 2 Liters 1452.0	Fibers 6 Fields 100 F/mm <sup>2</sup> 7.6	<b>0.002</b>	LCL LOD CV	UCL 0.003 LOQ 0.027 0.25
Client: <b>FB-2-09072010B-DW</b> Micro: 145102-10 <b>DOWNWIND FIELD BLANK (BM884361)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL LOD CV	UCL LOQ 0.48

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

Frank Raviola, M.S.

9/29/2010  
Date Reported

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

LM

AHA IHLP LABORATORY Accreditation / PAT ID No. 101788. 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. 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 (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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PROJECT:  
TRONOX LLC  
JOB NO. 2027.07

Micro Log In **145102**  
Total Samples 10  
Date Sampled 09/20/2010  
Date Received 09/29/2010  
Date Analyzed 09/29/2010

Sample ID	Field Data	Lab Data	Fibers / cc	Limits
Client: <b>RZ-D-17-09202010</b> Micro: 145102-01 <b>REMEDIAION ZONE 17</b> <b>(BM884473)</b>	Time 320 Rate 2 Liters 640.0	Fibers 7 Fields 100 F/mm <sup>2</sup> 8.9	<b>0.005</b>	LCL 0.003 UCL 0.008 LOD 0.004 LOQ 0.060 CV 0.25
Client: <b>FB-1-09202010</b> Micro: 145102-02 <b>REMEDIAION ZONE 17</b> <b>FIELD BLANK (BM884392)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.48
Client: <b>RZ-D-17-09222010A</b> Micro: 145102-03 LM <b>REMEDIAION ZONE 17</b> <b>(BM884448)</b>	Time 209 Rate 2 Liters 418.0	Fibers 4 Fields 100 F/mm <sup>2</sup> < 7.0	<b>&lt; 0.006</b>	LCL 0.000 UCL 0.013 LOD 0.006 LOQ 0.092 CV 0.48
Client: <b>FB-1-09222010</b> Micro: 145102-04 <b>REMEDIAION ZONE 17</b> <b>FIELD BLANK (BM884362)</b>	Time Rate Liters	Fibers 0 Fields 100 F/mm <sup>2</sup> < 7.0		LCL UCL LOD LOQ CV 0.48
Client: <b>RZ-D-17-09222010B</b> Micro: 145102-05 <b>REMEDIAION ZONE 17</b> <b>(BM884525)</b>	Time 94 Rate 2 Liters 188.0	Fibers 2.5 Fields 100 F/mm <sup>2</sup> < 7.0	<b>&lt; 0.014</b>	LCL 0.001 UCL 0.028 LOD 0.014 LOQ 0.205 CV 0.48

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

Frank Raviola, M.S.

9/29/2010  
Date Reported

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

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