Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 30, 2008

Ms. Amanda Welch
Shaw E&I
One Ecusta Road
Brevard, NC 28712

RE: Project: ECUSTA MILL PAPER DEMO 131478
Pace Project No.: 9228241

Dear Ms. Welch:
Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brenda Pathammavong

Brenda Pathammavong

brenda.pathammavong@pacelabs.com
Project Manager

Enclosures

cc: Mr. Ronald Kenyon, Shaw E&I

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CERTIFICATIONS

Project: ECUSTA MILL PAPER DEMO 131478
Pace Project No.: 9228241

Charlotte Certification IDs
Connecticut Certification Number: PH-0104
Pennsylvania Certification Number: 68-00784
West Virginia Certification Number: 357
Virginia Certification Number: 00213
Tennessee Certification Number: 04010
South Carolina Drinking Water Cert. Number: 990060003
South Carolina Certification Number: 990060001
North Carolina Field Services Certification Number: 5342
North Carolina Wastewater Certification Number: 12
North Carolina Drinking Water Certification Number: 37706
Louisiana/LELAP Certification Number: 04034
Kentucky UST Certification Number: 84
New Jersey Certification Number: NC012
Florida/NELAP Certification Number: E87627

Asheville Certification IDs
Connecticut Certification Number: PH-0106
Massachusetts Certification Number: M-NC030
West Virginia Certification Number: 356
Virginia Certification Number: 00072
Tennessee Certification Number: 2980
South Carolina Bioassay Certification Number: 99030002
South Carolina Certification Number: 99030001
Pennsylvania Certification Number: 68-03578
North Carolina Bioassay Certification Number: 9
North Carolina Wastewater Certification Number: 40
North Carolina Drinking Water Certification Number: 37712
New Jersey Certification Number: NC011
Louisiana/LELAP Certification Number: 03095
Florida/NELAP Certification Number: E87648

Eden Certification IDs
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633
North Carolina Drinking Water Certification Number: 37738

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SAMPLE SUMMARY

Project: ECUSTA MILL PAPER DEMO 131478
Pace Project No.: 9228241

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9228241001	**ASB-35-1**	Air Cassette	09/15/08 18:04	09/19/08 08:15

McCall and Spero
Environmental, Inc.
Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136
E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: September 29, 2008

Attention: Brenda Pathammavong
Pace Analytical

Subject: Analysis of air samples for fibers by
Phase Contrast Microscopy (PCM)

RE: MSE-PC9238PA
Ecusta Mill Paper Demo Project
PA #9228241

Dear Ms. Pathammavong:

McCall and Spero Environmental, Inc. has completed the analysis of the air sample we received from your office on September 23, 2008. This sample represents the PCM sample for the Ecusta Mill Paper Demo Project PA #9228241.

According to your instructions, this sample was analyzed using the NIOSH 7400 Phase Contrast Microscopy fiber counting method. Please note that this method does not differentiate between asbestos and non-asbestos fibers or identify fibers below the resolution limits of the light microscope. Briefly, fibers greater than or equal to 5.0μm in length and 0.25 μm in diameter having an aspect ratio greater or equal to 3:1 were counted. Results are expressed as: 1) fibers 5.0μm in length and 0.25μm in diameter/cc and 2) fibers 5.0μm in length and 0.25μm in diameter/mm^2.

The results for the one (1) sample taken are summarized in Table I.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

J. Scott Board
Laboratory Director

SUMMARY OF PCM RESULTS / NIOSH 7400

TABLE I

"PCM Light Microscopy" Analysis

Project Name: Ecusta Mill Paper Demo Project PA #9228241

McCall and Spero Project No: MSE-PC9238PA

MSE Lab ID	Client ID	# of Fibers	# of Fields	Sample Vol. (1)	Concentration (F/mm²)	Concentration (F/cc)
001	ASB-35-1	14	100	3570	17.5	<0.01

Filter Type: MCE
Filter diameter: 25mm

Pore Size: 0.80µm
Effective filter Area: 385mm²

Notes:
NFD = No Fibers Detected
BDL = Below Detectable Limit

NA = Not Applicable

F/mm² = fibers greater than 5.0um length & 0.25um diameter per square millimeter.
F/cc = fibers greater than 5.0um length & 0.25um diameter per square millimeter.
Results apply only to the size range of items tested.

The analysis was performed according to the NIOSH 7400 Method.
This laboratory is in compliance with the specified method.

Analyst: J. Scott Board, B.S. _____ Date: 9/29/08

Client Name:	Davidson River Village	Proj/Task No.:	131478
Site Name:	Ecusta Paper Mill Demo	Date Sampled:	9/15/08
Bldg Name:	Bldg 35	Technician Name:	Amanda Welch
Floor:	Outside Pipe Run		

AIR SAMPLES COLLECTED FOR ANALYSIS FOR AIRBORNE FIBERS BY PCM ANALYSIS

Sample Number	Pump ID Number	Sample Type	Sample Description and Location	SAMPLING PERIOD			FLOW RATE L/M			Total Volume	SAMPLE RESULTS	
				Start	Stop	Total Min.	Start	Stop	Avg.		Fiber per Field	NIOSH 7400 f/cm^3
ASB-35-1	1	PCM	Outside of Entrance	1434	1804	210	17.0	17.0	17.0	3570		

HEADING KEY

L/m = Liters Per Minute
PCM = Phase Contrast Microscopy
f/cm^3 = Fibers per Cubic Centimeter
TLTC = To Loaded To Count

CALIBRATION:

Rotameter _____
Critical Orifice _____
Bubble Meter _____

Amanda Welch
Signature

SAMPLE TYPE KEY

AA = Ambient Air
BB = Background/Baseline
BL = Blank
CL = Clearance
DU = Decontamination Unit
DUP = Duplicate Sample
EB = Exterior of Building
IWA = Inside Work Area
NAE = Negative Air Exhaust
OWA = Outside Work Area/Barrier
RC = Recount
RS = Reference Slide

Microscope Number _____

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1211970

Section A Required Client Information:

Company: Shaw E+I
Address: One Ecusta Road
Brevard, NC 28712
Email To: amanda.welch@shawgrp.com
Phone: 417-788-0413 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: amanda.welch@shawgrp.com
Copy To: Ronald.Kenyon@ShawGrp.com
Purchase Order No.: 416782
Project Name: Ecusta Paper Mill Demo
Project Number: 131478

Section C Invoice Information:

Attention: Denise Simpson
Company Name: SHAW E+I
Address: 11560 Great Oaks Way Suite 500 Alpharetta, GA 30022
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 2840-2

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: PCM	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-35-1	AR	G	9/15/08	1434	9/15/08	1804	NA	1	X								X			9228241001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Pace Project No./ Lab I.D. 9228241

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Amanda Welch	9/15/08	1905	Joy RW	9/15/08	1905	
	Joy RW	9/16/08	0815	Lori Patton	9/16/08	0815	NA

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Welch
SIGNATURE of SAMPLER: Amanda Welch
DATE Signed (MM/DD/YY): 9/15/08

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Shaw E & I Project # 9228241

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#2 / 72490786 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract NA C

Corrected Cooler Temp.: NA C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: DAW 9/19/08

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: AIR				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):_____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BAP **Date:** 9/19/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)