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

November 10, 2008

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

RE: Project: ECUSTA PAPER MILL DEMO 131478
Pace Project No.: 9231114

Dear Ms. Welch:
Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 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 PAPER MILL DEMO 131478
Pace Project No.: 9231114

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 PAPER MILL DEMO 131478
Pace Project No.: 9231114

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9231114001	**ASB-62-2**	Air	10/23/08 14:59	10/30/08 07:40
9231114002	**ASB-62-3**	Air	10/28/08 14:23	10/30/08 07:40

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: November 7, 2008

Attention: Brenda Pathammavong
Pace Analytical

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

RE: MSE-PCO318PA
Ecusta Paper Mill Demo 131478 Project
WO #9231114

Dear Ms. Pathammavong:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on October 31, 2008. These samples represent the PCM samples for the Ecusta Paper Mill Demo 131478 Project WO #9231114.

According to your instructions, these samples were 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/mm².

The results for the two (2) samples 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

J. Scott Board
Laboratory Director

SUMMARY OF PCM RESULTS / NIOSH 7400

TABLE I

"PCM Light Microscopy" Analysis

Project Name: Ecusta Paper Mill Demo 131478 Project WO #9231114

McCall and Spero Project No: MSE-PCO318PA

MSE Lab ID	Client ID	# of Fibers	# of Fields	Sample Vol. (1)	Concentration (F/mm²)	Concentration (F/cc)
P02	ASB-62-2	41.0	100	5660	51.3	<0.01
P03	ASB-62-3	58.0	100	5831	72.5	0.011 ± 0.004

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: S. Dewayne Lear S. Dewayne Lear Date: 11/7/08

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: 9231114 **Workorder Name:** ECUSTA PAPER MILL DEMO 131478 **Results Requested** 11/6/2008

Report / Invoice To	Subcontract To
Brenda Pathammavong Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092	McCall & Spero P.O. CNS04779

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	Requested Analysis: Asbestos	LAB USE ONLY
1	ASB-62-2	10/23/2008 14:59	9231114001	Air	1	X	
2	ASB-62-3	10/28/2008 14:23	9231114002	Air	1	X	
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Brenda Pathammavong	10/30/08	[signature]	10/31/08 0800
2				
3				
4				
5				

Comments:

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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

1211548

Section A — Required Client Information:

Company: Shaw E+I
Address: One Ecusta Road, Brevard, NC 28712
Email To: amanda.welch@shawgrp.com
Phone: 828-883-9547 Fax: 828-883-5712
Requested Due Date/TAT:

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, Ste 500, Alpharetta, GA 30022
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

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

Requested Analysis Filtered (Y/N)

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	Analysis Test Y/N	PCM Asbestos Fibers	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASB-62-2		G			10/23/08	1459		1	X								X	X		9231114 001
2	ASB-62-3		G			10/28/08	1423		1	X								X	X		002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	A Welch	10/30/08	0740	[signature]	10/30/08	0740	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Welch
SIGNATURE of SAMPLER: A Welch
DATE Signed (MM/DD/YY): 10/23/08

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

*Im... 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 ... ...voices not paid within 30 days.

F-ALL-Q-020rev.07, 1 ...2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Shaw E+I Project # 9231114

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

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

Optional
Proj. Due Date:
Proj. Name:

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) 0.2 C

Corrected Cooler Temp.:_____ C Biological Tissue is Frozen: Yes (No)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: L 10/30

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: WT				
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	L
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: BKP **Date:** 10/30/08

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)