



November 11, 1991

Ms. Barbara J. Pope
Southwestern Refining Company, Inc.
P.O. Box 9217
Corpus Christi, Texas 78469

Dear Ms. Pope:

Enclosed is written confirmation of the analytical results for the (3) bulk samples (Reference Numbers 91178, 91179, and 91180) delivered to our lab on Thursday, November 7, 1991.

The sample analyses were performed at our lab with a Nikon Labophot-Pol microscope. Standard oil immersion and optical staining techniques were used for asbestos identification. The Interim Method for the Determination of Asbestos in Bulk Samples (40 CFR Part 763, Appendix A, Subpart F) was used. Envirotest, Inc. is a National Institute of Standards and Technology NVLAP-accredited laboratory (#1595) for asbestos analysis.

The following analytical results pertain only to the samples analyzed. Envirotest, Inc. assumes no responsibility for whether the samples accurately represent the material in question nor for any subsequent use or interpretation of these analytical results.

If you have any questions regarding the sample analyses, please call. We appreciate the opportunity to be of service to you.

Sincerely,


Stuart C. Williams, Ph. D.
Chief Executive Officer
Envirotest, Inc.

SCW:lll

Envirotest, Inc. Laboratory Bulk Sample Analysis Report

SAMPLE NUMBER	LAB #	SAMPLE DESCRIPTION	PERCENT ASBESTOS			NON-ASBESTOS
			CHRYSTOLITE	AMOSITE	CROCIDOLITE	
91178	E-21496	WH FIB PWDR	10-15			1-3%C
91179	E-21487	WH FIB PWDR	40-45			1-3%C
91180	E-21498	TAN FIB MAT		90-95		TR C
Analysts Signature: <i>Yinda L. Smith</i>		Date: 11-17-91				

NOTE: Percents given are of total sample.
 ABBREVIATIONS: ACT = actinolite; AL = aluminum; ANTH = anthophyllite; BLK = black; BL = blue; BRN = brown; CPT = capel; CTL = ceiling tile; C = cellulose; CEM = cement; CO = cork;
 CORR = corrugated; COV = cover; DEB = debris; FG = fiberglass; FIB = fibrous; FTL = floor tile; FRAG = fragment; FO = foam; FURR = furrowed; GRAN = granular; GR = grey;
 GRN = green; HD = hard; INS = insulation; IRR = irregular; MAS = mastic; MAT = material; MIC = micaceous; ORG = orange; PAL = paint; PAP = paper; PERF = perforated; PL = plaster;
 PLAS = plastic; PWDR = powder; RUB = rubber; SYN = synthetic; TR = trace; TRAN = transite; TREM = tremolite; VERM = vermiculite; WH = white; WR = wrap; YEL = yellow.

Envirotest, Inc.'s liability, if any, for the results indicated herein is specifically limited to the cost of this report, all warranties whether expressed or implied being specifically disclaimed.

10400 WESTOFFICE DRIVE, SUITE 110, HOUSTON, TEXAS 77042 713/782-4101

1B 003437

INSTRUCTIONS: Originator attaches Part 2 to laboratory results and forwards to Medical Services.

I.D./SAMPLE NO. 11934

DATE 11/6/91

INDUSTRIAL HYGIENE SURVEY DATA - AIR MONITORING KM-4293-A

FACILITY <i>Southwestern - KMRC</i>	WORK LOCATION <i>Area II - Crude II</i>
EMPLOYEE NAME (LAST, FIRST) <i>Bulk Asbestos</i>	EMPLOYEE NUMBER <i>---</i>
JOB TITLE <i>Bulk Asbestos</i>	SURVEYOR <i>B. Pope</i>

TYPE OF PERSONAL PROTECTIVE EQUIPMENT	RESPIRATOR	SAMPLING CONDITIONS	TEMPERATURE	°F	CALIBRATION RECORD	PUMP MANUFACTURER/S.N.
	BOOY		RELATIVE HUMIDITY	%		PRE FLOW RATE
	GLOVES		BAROMETRIC PRESSURE	"Hg		POST FLOW RATE
	OTHER		AIR VELOCITY	fpm mph		DIFFERENCE FLOW

SAMPLING DATA	Lab Sample Number				
	I.D. Number	<i>91178</i>			
	Time On	<i>Bulk</i>			
	Time Off				
	Total Time (min.)				TOTAL TIME
	Flow Rate (LPM)				
	Sample Media	<i>Bulk</i>			
	Volume (Liters)				TOTAL VOLUME
Net Sample Wt.					

LABORATORY RESULTS	1.	<i>Asbestos</i>	<i>10-15% chrysotile</i>		
	2.	<i>Cellulose</i>	<i>1-3%</i>		
	3.				
	4.				
	5.				
	6.				

FOR MEDICAL SERVICES USE ONLY	SAMPLE ANALYSIS	SUBSTANCE	TWA (Time)	TWA 8(hr)	UNITS	AUTHORITY	STND. NO.	SEVERITY	ANALYTICAL METHOD
		1.							
		2.							
		3.							
		4.							
		5.							
		6.							

LABORATORY USED
Envirotest Inc. 10400 Westoffice Drive, Suite 110, Houston, TX 77042
(WORK ACTIVITIES, OPERATION, LOCATION, VENTILATION, CONTROLS)
Line west of vacuum heater

REVIEWED BY	DATE	BLANKS (No.)	
		BULKS (No.)	
COMMENTS			

SWRf/Asbestos 1982

INSTRUCTIONS: Originator attaches Part 2 to laboratory results and forwards to Medical Services.

I.D./SAMPLE NO
11935

DATE
11/6/91

INDUSTRIAL HYGIENE SURVEY DATA - AIR MONITORING KM-4293-A

FACILITY <i>Southwestern - HMRC</i>	WORK LOCATION <i>Champlain</i>
EMPLOYEE NAME (LAST, FIRST) <i>Bulk Asbestos</i>	EMPLOYEE NUMBER _____
JOB TITLE _____	SURVEYOR <i>B. B. B.</i>

TYPE OF PERSONAL PROTECTIVE EQUIPMENT	RESPIRATOR	TEMPERATURE	°F	CALIBRATION RECORD	PUMP MANUFACTURER/S.N.
	BODY	RELATIVE HUMIDITY	%		PRE FLOW RATE
	GLOVES	BAROMETRIC PRESSURE	"Hg		POST FLOW RATE
	OTHER	AIR VELOCITY	fpm mph		DIFFERENCE FLOW

SAMPLING DATA	Lab Sample Number			
	I.D. Number	<i>91179</i>	<i>91180</i>	
	Time On	<i>Bulk</i>	<i>Bulk</i>	
	Time Off			
	Total Time (min.)			TOTAL TIME
	Flow Rate (LPM)			
	Sample Media			
	Volume (Liters)			TOTAL VOLUME
Net Sample Wt.				

LABORATORY RESULTS	1.	<i>Asbestos</i>	<i>40-45% chrysotile 90-95% Amosite</i>
	2.	<i>Cellulose</i>	<i>1-3% Trace</i>
	3.		
	4.		
	5.		
	6.		

FOR MEDICAL SERVICES USE ONLY SAMPLE ANALYSIS	SUBSTANCE	TWA (Time)	TWA 8(hr)	UNITS	AUTHORITY	STND. NO.	SEVERITY	ANALYTICAL METHOD
	1.							
	2.							
	3.							
	4.							
	5.							
	6.							

LABORATORY USED
Envirotest Inc. 10400 West office, Suite 110, Houston, TX 77842

REVIEWED BY	DATE	BLANKS (No.)	SWRf/Asbestos 1983
COMMENTS		BULKS (No.)	