

Kemron

Kemron Environmental Services

CAM

ANALYTICAL REPORT

Client: Union Carbide Corp.
State Route 2
Long Reach, WV 26175
Attn: Attn: Ken Williams

Report Date: 07/14/86
Report Number: 3389
P. O. No.: 0380-508424

Collected By: Union Carbide Corp.
Kemron Sample No.: 5612841 - 2848 Date Received: 6/26/86
Sample Source: See Below

SAMPLE SOURCE	VOLUME (liters)	CONCENTRATION	
		Fibers/Filter	Fibers/CC
Z-8062	N/A	<10,878	--
Z-8063	N/A	152,143	--
Z-8074	N/A	<10,878	--
Z-8230	N/A	<10,878	--
Z-8231	N/A	<10,878	--
Z-8232	N/A	<10,878	--
Z-8233	N/A	<10,878	--
Blank	N/A	<10,878	--

Date Analyzed/Analyst: 7/02/1986/MS

Approved By:

Jean Anderson

Jean Anderson
Regional Manager



Kemron Environmental Services

ANALYTICAL REPORT

Client: Union Carbide Corp.
State Route 2
Long Reach, WV 26175
Attn: Attn: Ken Williams

Report Date: 05/20/86
Report Number: 3111
P. O. No.: 0380-507655

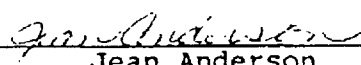
Collected By: Union Carbide Corp.
Kemron Sample No.: 5611938 - 1942 Date Received: 5/5/86
Sample Source: See Below

SAMPLE SOURCE	VOLUME (liters)	CONCENTRATION	
		Fibers/Filter	Fibers/CC
Z-7965*	58.8	<10,878	<0.185
Z-7975*	95.496	<10,878	<0.114
Z-8003	119.226	<10,878	<0.091
Z-8004	105.240	<10,878	<0.103
Blank	---	<10,878	---

Date Analyzed/Analyst: 05/09/86/MS

*No backup pad in cassette.

Approved By:


Jean Anderson
Regional Manager

WV-0219 #11

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: TAMMY GRITTIE
ATT: WAYNE BOTTEMAN

07-740149

5/12/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

	RW	RW	RW	RW
BCM NUMBER	D702666	D702667	D702668	D702669
CLIENT SAMPLE ID	Z9109	Z9132	Z9133	Z9134
DATE SAMPLED	5/3/87	5/3/87	5/3/87	5/3/87
DATE RECEIVED	5/8/87	5/8/87	5/8/87	5/8/87
ASBESTOS-AIR FIB/CC	<0.005	<0.0022	0.03	<0.02

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766.6283

FINAL REPORT

5/12/87 PAGE 2

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

RCM NUMBER

RW
D702670

RW
D702671

D702672

D702673

CLIENT SAMPLE ID

Z9149

Z9208

Z9218

Z9219

DATE SAMPLED

5/3/87

5/3/87

5/3/87

5/3/87

DATE RECEIVED

5/8/87

5/8/87

5/8/87

5/8/87

ASBESTOS-AIR FIB/CC

<0.008

<0.05

<0.01

0.05

UCC 002010

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

5/12/87 PAGE 3

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	D702674	^{RW} D702675	^{RW} D702676	^{RW} D702677
CLIENT SAMPLE ID	Z9220	Z9221	Z9222	Z9223
DATE SAMPLED	5/3/87	5/3/87	5/3/87	5/3/87
DATE RECEIVED	5/8/87	5/8/87	5/8/87	5/8/87
ASBESTOS-AIR FIB/CC	0.10	<0.003	<0.01	<0.003

UCC 002011

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

5/12/87 PAGE 4

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	<i>RW</i> D702678	<i>RW</i> D702679	D702680	D702681
CLIENT SAMPLE ID	Z9225	Z9226	BLANK 1	BLANK 2
DATE SAMPLED	5/3/87	5/3/87	5/3/87	5/3/87
DATE RECEIVED	5/8/87	5/8/87	5/8/87	5/8/87
ASBESTOS-AIR FIB/CC	0.14	<0.03	SEE NOTE	SEE NOTE

REMARKS

BCM SAMPLE NO: D702680

1 : BLANK # 1 - 0.5 FIBERS/100 FIELDS

BCM SAMPLE NO: D702681

1 : BLANK # 2 - 1.5 FIBERS/100 FIELDS

END OF REPORT

UCC 002012

WV-0219 #18

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: WAYNE BOTTEMAN

07-740149

1/16/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

BCM NUMBER	D700112	D700113	D700114	D700115
CLIENT SAMPLE ID	78870	78871	78872	BLANK 1
DATE SAMPLED	1/16/87	1/16/87	1/16/87	1/16/87
DATE RECEIVED	1/16/87	1/16/87	1/16/87	1/16/87
ASBESTOS-AIR				SEE NOTE
ASBESTOS-AIR FIB/CC	0.09	0.42	<0.04	

REMARKS

BCM SAMPLE NO: D700115

1 : 0.5 FIBERS/100 FIELDS

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

1/16/87 PAGE 2

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	D700116	D700117
CLIENT SAMPLE ID	BLANK 2	78860
DATE SAMPLED	1/16/87	1/16/87
DATE RECEIVED	1/16/87	1/16/87
ASBESTOS-AIR	SEE NOTE	
ASBESTOS-AIR FIB/CC		0.01

REMARKS

BCM SAMPLE NO: D700116

1 : 4 FIBERS/100 FIELDS

END OF REPORT

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

WV-0219#19

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: WAYNE BOTTEMAN

07-740149

1/15/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

BCM NUMBER	D700043	D700044	D700045	D700046
CLIENT SAMPLE ID	78816	78855	78856	78857
DATE SAMPLED	1/13/87	1/13/87	1/13/87	1/13/87
DATE RECEIVED	1/14/87	1/14/87	1/14/87	1/14/87
ASBESTOS-AIR FIB/CC	SEE NOTE	SEE NOTE	<0.003	0.01

REMARKS

BCM SAMPLE NO: D700043

1 : SAMPLE CASSETTE DID NOT CONTAIN CELLULOSE ESTER FILTER.

BCM SAMPLE NO: D700044

1 : DUST AND DEBRIS COVERED MORE THAN 1/6 FIELD AREA ON MAJORITY OF
2 : FIELDS. CONCENTRATION ON FIELDS WHICH COULD BE COUNTED IS
3 : 0.002 F/CC.

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

1/15/87 PAGE 2

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	D700047	D700048	D700049	D700050
CLIENT SAMPLE ID	78858	78859	BLANK 1	BLANK 2
DATE SAMPLED	1/13/87	1/13/87	1/13/87	1/13/87
DATE RECEIVED	1/14/87	1/14/87	1/14/87	1/14/87
ASBESTOS-AIR FIB/CC	0.04	0.03	SEE NOTE	SEE NOTE

REMARKS

BCM SAMPLE NO: D700049

1 : 2.5 FIBERS/100 FIELDS.

BCM SAMPLE NO: D700050

1 : 3.5 FIBERS/100 FIELDS.

END OF REPORT

UCC 002016

WV-0219#20

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

Check - file

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: WAYNE BOTTEMAN

07-740149

1/12/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

BCM NUMBER	D700001	D700002	D700003	D700004
CLIENT SAMPLE ID	#1 BLANK	#2 BLANK	Z8814	Z8815
DATE SAMPLED	1/9/87	1/9/87	1/9/87	1/9/87
DATE RECEIVED	1/12/87	1/12/87	1/12/87	1/12/87
ASBESTOS-AIR FIB/CC	SEE NOTE	SEE NOTE	<0.02	0.01

REMARKS

BCM SAMPLE NO: D700001

1 : 1 FIBER/100 FIELDS

BCM SAMPLE NO: D700002

1 : 2 FIBERS/100 FIELDS

END OF REPORT

UCC 002017

all of the Tuesday AM & PM
IR investigations.

WV-0219#21

SPECTROSCOPY LABORATORY

A. A. Analysis		I. R. Analysis
Cu (Alloy)	Al	SiH cc/gm
Ti	Ni	Propenyl
As	Cr	L-45%
Zn	Na	C=O
Cu	K	Si O ₂
Ca	Si	CN
Fe	Sn	% Y-8435
Mn		% Activity
Mg		% Si Solids
Pb		IR Scan
		EO

no asbestos noted

Identification The roofing paper - challenged
and sample given to me.
Santulfeet

JHMLaboratories Inc.



325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

WV-0219 #12

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: TAMMY GRITTE
ATT: WAYNE BOTTENAN

07-740149

4/27/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

BCK NUMBER	D702432	D702433	D702434
	-----	-----	-----
CLIENT SAMPLE ID	Z-9206	Z-9207	BLANK
DATE SAMPLED	4/23/87	4/23/87	4/23/87
DATE RECEIVED	4/24/87	4/24/87	4/24/87
ASBESTOS-AIR FIB/CC	<0.005	<0.004	SEE NOTE

END OF REPORT

WV-0219 #13

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: TANNY GRITTSIE
ATT: WAYNE BOTTEMAN

07-740149

4/1/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

	RW	RW	RW
BCK NUMBER	D701244	D701245	D701246
CLIENT SAMPLE ID	29050	29051	29052
DATE SAMPLED	3/10/87	3/10/87	3/10/87
DATE RECEIVED	3/11/87	3/11/87	3/11/87
ASBESTOS-AIR FIB/CC	<0.02	0.09	0.68

END OF REPORT

WV-0219 #14

JML Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: TAMMY GRITTE
ATT: WAYNE BUTTEMAN

07-740149

3/10/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

BCM NUMBER	RW D700845	RW D700846	RW D700847	RW D700848
CLIENT SAMPLE ID	✓Z8956	✓Z8957	Z8962 ✓	Z8963 ✓
DATE SAMPLED	2/23/87	2/23/87	2/23/87	2/23/87
DATE RECEIVED	2/25/87	2/25/87	2/25/87	2/25/87
ASBESTOS-AIR FIB/CC	<0.007	<0.008	0.31	0.52

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

3/10/87 PAGE 2

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

	<i>RW</i> D700849	<i>RW</i> D700850	<i>RW</i> D700851	<i>RW</i> D700852
BCM NUMBER				
CLIENT SAMPLE ID	Z8964	Z8965	Z8966	Z8967
DATE SAMPLED	2/23/87	2/23/87	2/23/87	2/23/87
DATE RECEIVED	2/25/87	2/25/87	2/25/87	2/25/87
ASBESTOS-AIR FIB/CC	0.07	<0.001	0.05	<0.005

UCC 002022

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

3/10/87 PAGE 3

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	<u>RW</u> D700853	<u>RW</u> D700854	D700855	D700856
CLIENT SAMPLE ID	Z8968	Z8973	BLANK 1	BLANK 2
DATE SAMPLED	2/23/87	2/23/87	2/23/87	2/23/87
DATE RECEIVED	2/25/87	2/25/87	2/25/87	2/25/87
ASBESTOS-AIR			SEE NOTE	SEE NOTE
ASBESTOS-AIR FIB/CC	<0.003	<0.003		

REMARKS

BCM SAMPLE NO: D700855

1 : 2.5/100 FIBERS/FIELD.

BCM SAMPLE NO: D700856

1 : 0/100 FIBERS/FIELD.

UCC 002023

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

3/10/87 PAGE 4

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCH NUMBER

Rw
D700857

Rw
D700858

CLIENT SAMPLE ID

Z8969

Z8970

DATE SAMPLED

2/23/87

2/23/87

DATE RECEIVED

2/25/87

2/25/87

ASBESTOS-AIR FIB/CC

0.22

0.09

** END OF REPORT **

UCC 002024

WV-0219 #15

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766 6283

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: TAMMY GRITTYE
ATT: WAYNE BOTTEMAN

07-740149

3/2/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

	RW D700845	RW D700846	RW D700847	RW D700848
BCH NUMBER				
CLIENT SAMPLE ID	Z8956	Z8957	Z8962	Z8963
DATE SAMPLED	2/23/87	2/23/87	2/23/87	2/23/87
DATE RECEIVED	2/25/87	2/25/87	2/25/87	2/25/87
ASBESTOS-AIR FIB/CC	<0.007	<0.008	0.31	0.52

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

3/2/87 PAGE 2

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	^{RW} D700849 -----	^{RW} D700850 -----	^{RW} D700851 -----	^{RW} D700852 -----
CLIENT SAMPLE ID	Z8964	Z8965	Z8966	Z8967
DATE SAMPLED	2/23/87	2/23/87	2/23/87	2/23/87
DATE RECEIVED	2/25/87	2/25/87	2/25/87	2/25/87
ASBESTOS-AIR FIB/CC	0.07	<0.001	0.05	<0.005

UCC 002026

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

3/2/87 PAGE 3

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	D700853	D700854	D700855	D700856
CLIENT SAMPLE ID	Z8968	Z8973	BLANK 1	BLANK 2
DATE SAMPLED	2/23/87	2/23/87	2/23/87	2/23/87
DATE RECEIVED	2/25/87	2/25/87	2/25/87	2/25/87
ASBESTOS-AIR			SEE NOTE	SEE NOTE
ASBESTOS-AIR FIB/CC	<0.003	<0.003		

REMARKS

BCM SAMPLE NO: D700855

1 : 2.5/100 FIBERS/FIELD.

BCM SAMPLE NO: D700856

1 : 0/100 FIBERS/FIELD.

UCC 002027

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

3/2/87 PAGE 4

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER

Rw D700857 D700858 Rw

CLIENT SAMPLE ID

Z8969

Z8970

DATE SAMPLED

2/23/87

2/23/87

DATE RECEIVED

2/25/87

2/25/87

ASBESTOS-AIR FIB/CC

0.22

0.09

END OF REPORT

UCC 002028

WV-0219 #14

KEMRON

Kemron Environmental Services

ANALYTICAL REPORT

Client: Union Carbide Corp.
 P. O. Box 180
 Sistersville, WV 26175
 Attn: T. Grittie

Report Date: 02/26/87
 Report Number: 0274
 P. O. No.: 0380-511187

Collected By: Union Carbide Corp.
 Kemron Sample No.: 5710435 - 0450 Date Received: 02/11/87
 Sample Source: See Below

SAMPLE SOURCE	VOLUME (liters)	CONCENTRATION	
		Fibers/Filter	Fibers/CC
✓Z-8872 RW	345.6	54743	0.158
✓Z-8873 RW	342.2	93152	0.272
✓Z-8874 RW	351.6	12360	0.035
✓Z-8881 RW	136.0	<4407	<0.032
✓Z-8882 RW	104.0	10816	0.104
✓Z-8885 RW	152.8	11257	0.074
✓Z-8886 RW	86.8	13908	0.160
✓Z-8887 RW	157.5	11038	0.070
✓Z-8888 RW	995.1	<4407	<0.004
✓Z-8889 RW	1500.0	<4407	<0.003
✓Z-8917 RW	268.0	29138	0.109
✓Z-8918 RW	216.0	4636	0.021
✓Z-8919 RW	188.0	24280	0.129
✓Z-8920 RW	172.0	<4407	<0.026
Blank	-----	<4407	-----
Blank	-----	<4407	-----

Date Analyzed/Analyst: 2/16/87 CW

Method: NIOSH Method: 7400A
 Analytical Detection Limits: 4407 fibers/filter

AIHA Laboratory Accreditation Number 169

Approved By:


 Jean Anderson
 Regional Manager

WV-0219 #17



ANALYTICAL REPORT

Client: Union Carbide Corp.
State Route 2
Long Reach, WV 26175
Attn: T. Grittie

Report Date: 02/11/87
Report Number: 0181
P. O. No.: 0380-510734

Collected By: Union Carbide Corp.
Kemron Sample No.: 5710113 - 0119 Date Received: 01/13/86
Sample Source: See Below

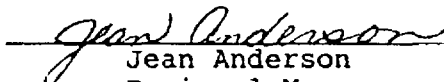
SAMPLE SOURCE	VOLUME (liters)	CONCENTRATION	
		Fibers/Filter	Fibers/CC
Z-8736 R	432.7	<4407	<0.010
Z-8737 R	432.5	<4407	<0.010
Z-8738 R	320.8	<4407	<0.014
Z-8744 R	596.5	<4407	<0.007
Z-8745 R	442.4	<4407	<0.010
Z-8795 R	430.5	4615	0.011
Z-8797	782.7	<4407	<0.006

Date Analyzed/Analyst: 1/20/87 MS

Method: NIOSH Method: 7400A
Analytical Detection Limits: 4407 fibers/filter

AIHA Laboratory Accreditation Number 169

Approved By:


Jean Anderson
Regional Manager

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

10/27/87 PAGE 2

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER

D705568

CLIENT SAMPLE ID

Z10137

DATE SAMPLED

10/25/87

DATE RECEIVED

10/26/87

ASBESTOS-AIR FIB/CC

.331

END OF REPORT

UCC 002031

WV-0219 #22

JHM Laboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: D.A. BOGGS
INDUSTRIAL HYGIENST

07-740149

10/27/87

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

BCM NUMBER	D705564	D705565	D705566	D705567
CLIENT SAMPLE ID	Z10138	Z10139	Z10140-BLA NK	Z10136
DATE SAMPLED	10/25/87	10/25/87	10/25/87	10/25/87
DATE RECEIVED	10/26/87	10/26/87	10/26/87	10/26/87
ASBESTOS-AIR FIB/100			3.5	
ASBESTOS-AIR FIB/CC	0.003	.002		.017

WV-0219 #23

SPECTROSCOPY LABORATORY

Sample # <u>Z 1000</u>		Report To <u>T L Grille</u>
Sample <u>Copper area</u>		Date <u>6/30/86</u>
Lot or Location		Analyst <u>McCool</u>
A. A. Analysis		I. R. Analysis
Cu (Alloy)	Al	SiH cc/gm
Ti	Ni	Propenyl
As	Cr	L-43%
Zn	Na	C=O
Cu	K	Si O ₂
Ca	Si	CH
Fe	Sn	% Y-0435
Mn		% Activity
Mg		% Si Solids
Pb		IR Scan
		EO
<u>no asbestos noted</u>		

Identification

WW-0219#24

SPECTROSCOPY LABORATORY

Sample #		Report To <i>H. Purinton</i>
Sample <i>Construction Material</i>		Date <i>6-25-86</i>
Lot or Location		Analyst <i>M.D. / L.L. / VM^c</i>
A. A. Analysis		I. R. Analysis
Cu (Alloy)	Al	SiH cc/gm
Ti	Ni	Propenyl
As	Cr	L-43%
Zn	Na	C=O
Cu	K	Si O ₂
Ca	Si	CH
Fe	Sn	% Y-0425
Mn		% Activity
Mg		% Si Solids
Pb		IR Scan
		EO

Identification *Does NOT CONTAIN Asbestos*

WV-0219 #25

SPECTROSCOPY LABORATORY

Sample # <i>Insulation from</i>		Report To <i>J. Kyle</i>
Sample <i>Intermediat</i>		Date <i>6-24-86</i>
Lot or Location <i>Central room</i>		Analyst <i>L. Leach</i>
A. A. Analysis		I. R. Analysis
Cu (Alloy)	Al	SiH cc/gm
Ti	Ni	Propagyl
As	Cr	L-435
Zn	Na	C=O
Cu	K	Si O ₂
Ca	Si	CH
Fe	Sn	% Y-8425
Mn		% Activity
Mg		% Si Solids
Pb		IR Scan
		EO

Identification

1 ~~Light gray~~ *Light gray* Contains asbestos

2 *Dark gray* Contains asbestos

on other intermediates samples

Reevaluation by V McCool says no asbestos

New samples will be examined at your discretion

WV-0219#26

SPECTROSCOPY LABORATORY

Sample #	#1 & #2	Report To	J. G. Hester
Sample	Insulation	Date	6-24-86
Lot or Location	Roof at Intermediate	Analyst	L. Leach
A. A. Analysis		I. R. Analysis	
Cu (Alloy)	Al	SiH cc/gm	
Ti	Ni	Propagyl	
As	Cr	L-435	
Zn	Na	O-O	
Cu	K	Si O ₂	
Ca	Si	CN	
Fe	Sn	% Y-6425	
Mn		% Activity	
Mg		% Si Solids	
Pb		IR Scan	
		EO	

Identification

#1	Gray Insulation	Contains some asbestos
#2	Brown Paper like fiber	Contains much asbestos

Reevaluation by V. McCool says no asbestos
 New samples can be reexamined at your discretion

WV-0219 #27

SPECTROSCOPY LABORATORY

Sample #	#1, #2, #3	Report To	J. Kyla / S. Collins
Sample	Insulation	Date	6-23-86
Lot or Location	Water Line W. Side	Analyst	L. Leach
A. A. Analysis		I. R. Analysis	
Intermediate Cannell Run			
Cu (Alloy)	Al	SiH cc/gm	
Ti	Ni	Propagyl	
As	Cr	L-435	
Zn	Na	C=O	
Cu	K	Si O ₂	
Ca	Si	CN	
Fe	Sn	% Y-435	
Mn		% Activity	
Mg		% Si Solids	
Pb		IR Scan	
		EO	

Identification

#1 Light gray flakey - Contains Asbestos
 #2 Dark gray glob - Contains Asbestos
 #3 Yellow granular - Not Asbestos

WV-0219 #28

SPECTROSCOPY LABORATORY

Sample # <u>Z 7697</u>	Report To <u>Tammy Grittle</u>
Sample	Date <u>1-30-86</u>
Lot or Location	Analyst <u>McCool</u>
A. A. Analysis	I. R. Analysis
Cu (Alloy) Al	SiH cc/gm
Ti Ni	Propenyl
As Cr	L-43%
Zn Na	C=O
Cu K	Si O ₂
Ca Si	CH
Fe Sn	% Y-6425
Mn	% Activity
Mg	% Si Solids
Pb	IR Scan
	EO

Identification

no asbestos noted

WV-0219 #29

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

CLIENT

UNION CARBIDE SISTERVILLE
PO BOX 180
SISTERVILLE WV 26175
ATT: WAYNE BOTTEMAN

07-740149

11/20/86

FINAL REPORT

PAGE 1

This is the final report for the samples shown below. If you have questions concerning this report please call 304-766-6283.

BCM NUMBER	D605551	D605552	D605553	D605554 ✓
CLIENT SAMPLE ID	1 Z-8689 ✓	2 Z-8687 ✓	3 Z-8685 ✓	4 Z-8668 ✓
DATE SAMPLED	11/18/86	11/18/86	11/18/86	11/18/86
DATE RECEIVED	11/19/86	11/19/86	11/19/86	11/19/86
ASBESTOS-AIR FIB/CC	SEE NOTE	<0.001	<0.008	<0.009

REMARKS

BCM SAMPLE NO: D605551

1 : 0 FIBERS IN 100 FIELDS.

JHMLaboratories Inc.

325 THIRTEENTH STREET
DUNBAR, W. VA. 25064
304 766-6283

FINAL REPORT

11/20/86 PAGE 2

CLIENT

UNION CARBIDE SISTERVILLE

07-740149

BCM NUMBER	D605555 ✓ -----	D605556 -----	D605557 -----	D605558 -----
CLIENT SAMPLE ID	6 Z-8667 ✓	6 Z-8686 ✓	7 Z-8690	8 Z-8691
DATE SAMPLED	11/18/86	11/18/86	11/18/86	11/18/86
DATE RECEIVED	11/19/86	11/19/86	11/19/86	11/19/86
ASBESTOS-AIR FIB/CC	<0.06	<0.001	<0.008	<0.01

END OF REPORT

UCC 002040

Chuck -

I need the
volumes not
provided. Please
make every
effort to find
them as soon
as possible. They
are very
important!

Thanks
Tammy

KEMRON

Kemron Environmental Services

ANALYTICAL REPORT

le Corp.
2
WV 26175
lan

Report Date: 11/20/86
Report Number: 4048
P. O. No.: 0380-510059

Carbide Corp.
5614610 - 4626 Date Received: 10/31/86
Below

	VOLUME (liters)	CONCENTRATION Fibers/Filter	Fibers/CC
	28.9	<10,878	<0.376
4 Not Provided		49,494	--- 0.542
	146.5	<10,878	<0.074
	448.8	<10,878	<0.024
8 Not Provided		<10,878	--- 0.202
	42.0	<4,407	<0.105
	45.7	<4,407	<0.096
	70.4	6,835	0.097
	63.1	<4,407	<0.070
-Z-8596R	509.8	<4,407	<0.009
-Z-8597R	593.7	<4,407	<0.007
-Z-8598R	524.0	<4,407	<0.008
-Z-8605R	653.7	<4,407	<0.007
Z-8607R	507.1	<4,407	<0.009
Z-8600R	564.9	<4,407	<0.008
-Z-8623R	243.6	<4,407	<0.018
Z-8606R	554.8	<4,407	<0.008

Date Analyzed/Analyst: 11/07/86/MS

AIHA Laboratory Accreditation Number 169

Approved By:

Jean Anderson
Jean Anderson
Regional Manager



Kemron Environmental Services

ANALYTICAL REPORT

Client: Union Carbide Corp.
State Route 2
Long Reach, WV 26175
Attn: C. R. McMillan

Report Date: 11/20/86
Report Number: 4048
P. O. No.: 0380-510059

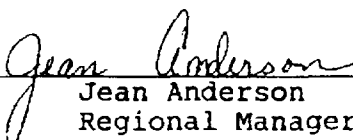
Collected By: Union Carbide Corp.
Kemron Sample No.: 5614610 - 4626 Date Received: 10/31/86
Sample Source: See Below

SAMPLE SOURCE	VOLUME (liters)	CONCENTRATION	
		Fibers/Filter	Fibers/CC
✓Z-8241	28.9	<10,878	<0.376
✓Z-8309	144.64 Not Provided	49,494	--- 0.312
✓Z-8310	146.5	<10,878	<0.074
✓Z-8397R	448.8	<10,878	<0.024
✓Z-8473	53.98 Not Provided	<10,878	--- 0.202
Z-8572R	42.0	<4,407	<0.105
Z-8573R	45.7	<4,407	<0.096
Z-8593R	70.4	6,835	0.097
Z-8594R	63.1	<4,407	<0.070
✓Z-8596R	509.8	<4,407	<0.009
✓Z-8597R	593.7	<4,407	<0.007
✓Z-8598R	324.0	<4,407	<0.008
✓Z-8605R	653.7	<4,407	<0.007
Z-8607R	507.1	<4,407	<0.009
Z-8600R	564.9	<4,407	<0.008
✓Z-8623R	243.6	<4,407	<0.018
Z-8606R	554.8	<4,407	<0.008

Date Analyzed/Analyst: 11/07/86/MS

AIHA Laboratory Accreditation Number 169

Approved By:


Jean Anderson
Regional Manager

Z-8241 Drilling Lab Bench R & D

Z-8309 } Removing Insulation
Z-8310 } Cleveland Wrecking

Z-8397 Top of Stairs SSP

Z-8473 Removing Gaseous

Z-8572 } Stripping Insulation (asbestos)
Z-8573 } Steam Plant

Z-8593 " "

~~Z-8593~~ Z-8594 " "

Z-8596 } SSP
Z-8597 } Report Written?
Z-8598 }

Z-8605

Z-8607 Northern Line Reactor Tower

Z-8606 Intermediates

Z-8600 Poly II

Z-8623 SSP

8667: Operator R
Rectification Area

8668: N.E. of R
Rect. Stills

Z-8685: Z-8686R SSP

Z-8687 Rect. Stills R

Z-8689 Blank N/A

Z-8690 Rect. Stills

Z-8691R