PLAINTIFF'S EXHIBIT

ASA-1497

ASARCO

June 5, 1995

Technical Services Center
R.A. Peterson
Director
D.E. Holt
Engineering Manager
J.B. Richardson
Environmental Sciences Manager
M.G. King
Research Manager

Ms. Peggy Munsell
Industrial Hygienist
EL PASO PLANT

Please find attached the analytical results for the bulk asbestos samples dated 05/12/95. The bulk asbestos has been analyzed by visual estimation based on EPA-600/M4-82-020 (Dec. 1982) optical microscopy test method.

I can be reached at Ext. 240 if you have any questions or comments.

T.J. Jacobi
Chemist

cc: SGCothrin (w/attach.)
GRStanga "

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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L951038

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L951038-1	12-MAY-95	L6	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	>1	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-2	12-MAY-95	L7	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	20	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-3	12-MAY-95	L8	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	>1	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-4	12-MAY-95	PH021	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-5	12-MAY-95	PH022	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-6	12-MAY-95	PH023	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	0.8	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-7	12-MAY-95	PH024	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020

ASARCO ELP 0014953

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L951038

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L951038-7	12-MAY-95	PH024	CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-8	12-MAY-95	PH025	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	<1	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-9	12-MAY-95	PH026	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	25	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-10	12-MAY-95	PH027	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	5	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-11	12-MAY-95	PH028	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	1.5	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-12	12-MAY-95	PH029	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	<1	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-13	12-MAY-95	PH030	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020

ASARCO ELP 0014954

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L951038

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L951038-14	12-MAY-95	PH031	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-15	12-MAY-95	PH032	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	20	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-16	12-MAY-95	PH033	AMOSTE	12	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	2	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
L951038-17	12-MAY-95	PH034	AMOSTE	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			ANTHOP	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CHRYS	<1	%	WCD	30-MAY-95		EPA-600/M4-82-020
			CROCID	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020
			TREM/ACT	ND	%	WCD	30-MAY-95		EPA-600/M4-82-020

ND = None Detected.

Approved

MAA
Reviewer

ASARCO ELP 00014955

Sun City Analytical Inc.

June 30, 1995

Asarco Incorporated
P.O. Box 1111
El Paso, Texas 79999

ATTENTION: Peggy Munsell RE: BULK SAMPLE RESULTS

LAB NO#	SAMPLE NUMBER	DESCRIPTION	MATRIX	FIBROUS	ASBESTIFORM
B95-2121	01	Beige, Brown	Binder	Cellulose 10-15%	Chrysotile 10-15%
	mo	Friable	Polyvinyl resins	Glass fibers trace	

Adrian Gallardo
MICROSCOPIST

Method: Polarized light microscopy with Dispersion staining using Olympus CH-2 Polorized Light Microscope with McCrone Dispersion Staining Objective. Standard error + 1-10% + 25%, 11-99 + 50% percentages based on visual volume procedure. EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples'.

All Microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill. Test report relates only to those items tested. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 1870.

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WILLARD C. DIXON

DIXON INFORMATION INC.

MICROSCOPY, ASBESTOS ANALYSIS & CONSULTING
A.I.H.A. ACCREDITED LABORATORY #10847
NVLAP CODE 1012

August 8, 1995

ASARCO
3422 South 700 West
Salt Lake City, UT 84119

Ref: Batch #31860, Lab #A20658-A20686
Received August 3, 1995
Samples L951632-1 through L951632-29
Project #: 3211; Account #: 7819
Invoice #: B094-1681
El Paso

Samples A20658 through A20386 have been analyzed by visual estimation based on EPA-600/M4-82-020 Dec. 1982 optical microscopy test method including phase contrast, polarized light, dispersion staining, and stereo microscopy.

If these samples are related to a demolition or are subject to NESHAPS 40CFR part 61 regulations, these regulations mandate that any sample containing less than 1% asbestos must be analyzed by point count. If asbestos is reported to be between 1% and 10%, see EPA "Clarification of asbestos NESHAP requirements to perform point counting." (Copy available.)

This report relates only to the items tested. This report must not be used to claim product endorsement by the NVLAP, the National Institute of Standards and Technology, or any agency of the U. S. Government. The result of analysis is as follows:

Lab A20658, Field L951632-28 CLIN-01 CLINIC
This sample has a top layer of brown plastic, a middle layer of white foam plastic and a bottom layer of 20% plant fiber, 5% synthetic fiber and 5% fiberglass in gray binder. Asbestos is none detected.

Lab A20659, Field L951632-14 SCAL-01 SCALEHOUSE
This sample has a top layer of gray plastic and limestone and a bottom layer of 10% plant fiber, 5% synthetic fiber, 10% fiberglass and 5% wollastonite in gray binder. Asbestos is none detected.

Lab A20660, Field L951632-16 CLOC-01 CLOCK ALLEY
This is a light gray sample with 35% plant fiber, 35% glasswool and perlite in resin binder with a white coating on one side. Asbestos is none detected.

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Lab A20661, Field L951632-8 ELE-01 ELECTRIC SHOP
This is 10% chrysotile asbestos in a gray plastic and limestone tile.
Note: There is greater than 1% chrysotile asbestos in the black tar mastic.

Lab A20662, Field L951632-9 ELE-02 ELECTRIC SHOP
This is sand in white plaster. Asbestos is none detected.

Lab A20663, Field L951632-10 ELE-03 ELECTRIC SHOP
This is 25% rockwool in white plaster with white cotton cloth. Asbestos is none detected.

Lab A20664, Field L951632-11 ELE-04 ELECTRIC SHOP
This is 5% plant fiber in white gypsum plaster with gray plant fiber paper. Asbestos is none detected.

Lab A20665, Field L951632-12 ELE-05 ELECTRIC SHOP
This sample has a top layer of brown plastic, a middle layer of white foam plastic, and a bottom layer of 60% chrysotile asbestos and 10% plant fiber. Overall, this is 30% chrysotile asbestos.

Lab A20666, Field L951632-13 ELE-06 ELECTRIC SHOP
This is sand in white plaster with a white coating on one side. Asbestos is none detected.

Lab A20667, Field L951632-21 ENG-01 ENG.BUILDING
This is 10% amosite asbestos in gray plaster.

Lab A20668, Field L951632-22 ENG--02 ENG.BUILDING
This is sand in white plaster with chips of light blue paint. Asbestos is none detected.

Lab A20669, Field L951632-23 ENV-01 ENVIRONMENTAL
This is 30% plant fiber in black tar with white rocks on one side. This sample also contains a layer of glassy black tar. Asbestos is none detected.

Lab A20670, Field L951632-24 ENV-02 ENVIRONMENTAL
This is sand in white and gray plaster with off white paint. Asbestos is none detected.

Lab A20671, Field L951632-25 ENV-03 ENVIRONMENTAL
This sample has a top layer of tan plastic, a middle layer of white foam plastic and a bottom layer of 10% plant fiber and 10% synthetic fiber in gray binder. Asbestos is none detected.

Lab A20672, Field L951632-26 ENV-04 ENVIRONMENTAL
This sample has a top layer of brown plastic, a middle layer of white foam plastic and a bottom layer of 60% chrysotile asbestos and 10% plant fiber in white binder. This sample also contains a layer of yellow mastic with debris. Overall, this is 30% chrysotile asbestos.

Lab A20673, Field L951632-17 HR-01 IND.RELATIONS
This is brown compressed wood fiber. Asbestos is none detected.

Lab A20674, Field L951632-18 HR-02 IND.RELATIONS
This is sand in white plaster with white paint. Asbestos is none detected.

Lab A20675, Field L951632-19 HR-03 IND.RELATIONS
This sample has a top layer of white plastic, a middle layer of white foam plastic and a bottom layer of 10% plant fiber, 5% synthetic fiber, 5% fiberglass and 5% wollastonite in gray binder. This sample also contains a layer of yellow, brown and green mastic. Asbestos is none detected.

Lab A20676, Field L951632-20 HR-04 IND.RELATIONS
This is 60% chrysotile asbestos and 25% plant fiber in gray binder.

Lab A20677, Field L951632-27 MAIN-01 MAIN OFFICE
This is 30% chrysotile asbestos in gray plaster.

Lab A20678, Field L951632-15 SCAL-02 SCALEHOUSE
This sample contains three layers: the first layer is white plaster with vermiculite; the second layer is brown plant fiber paper; the third layer is 2% plant fiber in white gypsum plaster. This sample is non-homogeneous. Asbestos is none detected.

Lab A20679, Field L951632-1 SEC-01 SECURITY
This is 15% chrysotile asbestos in gray cement with white paint.

Lab A20680, Field L951632-2 SEC-02 SECURITY
This is tan compressed wood fiber with white paint. Asbestos is none detected.

Lab A20681, Field L951632-3 SEC-03 SECURITY
This is 5% chrysotile asbestos in a brown plastic and limestone tile. **Note:** The black tar mastic contains greater than 1% chrysotile asbestos.

Lab A20682, Field L951632-4 SEC-04 SECURITY
This is 20% chrysotile asbestos in gray cement.

Lab A20683, Field L951632-5 SEC-05 SECURITY
This is a white plastic and limestone tile. Asbestos is none detected.
Note: Asbestos is none detected in the yellow mastic.

Lab A20684, Field L951632-6 SEC-06 SECURITY
This sample contains white paint, a small portion of white micaceous limestone joint compound, brown plant fiber paper and white gypsum plaster with 2% plant fiber. This sample is non-homogeneous. Asbestos is none detected.

Lab A20685, Field L951632-7 SEC-07 SECURITY
This sample has a top layer of yellow, brown and white plastic, a middle layer of white foam plastic, and a bottom layer of 65% chrysotile asbestos and 10% plant fiber. Overall this is 20% chrysotile asbestos.

Lab A20686, Field L951632-29 SS-01 SAFETY SUPPLY tile
This sample has a top layer of brown plastic, a middle layer of white foam plastic, and a bottom layer of 65% chrysotile asbestos and 15% plant fiber. Overall this is 20% chrysotile asbestos.

Very truly yours,