

ASARCO

PLAINTIFF'S EXHIBIT

ASA-1506

December 11, 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
EL PASO PLANT

Please find attached the analytical results for the bulk asbestos samples received 10/27/95 under Project No. ASB 1195.

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



AMERICAN ENVIRONMENTAL CONSULTANTS

ANALYTICAL DATA REPORT

EI Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L952655

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L952655-1	21-NOV-95	HR-01 Mens Rest Room	AMOSTE	ND	%	WCD	11-DEC-95		600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95		600/M4-82-020
			CHRYIS	ND	%	WCD	11-DEC-95		600/M4-82-020
			CROCID	ND	%	WCD	11-DEC-95		600/M4-82-020
			TREM/ACT	ND	%	WCD	11-DEC-95		600/M4-82-020
L952655-2	21-NOV-95	HR-02 Womens Rest Room	AMOSTE	ND	%	WCD	11-DEC-95		600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95		600/M4-82-020
			CHRYIS	ND	%	WCD	11-DEC-95		600/M4-82-020
			CROCID	ND	%	WCD	11-DEC-95		600/M4-82-020
			TREM/ACT	ND	%	WCD	11-DEC-95		600/M4-82-020
L952655-3	21-NOV-95	ELC-01 Floor Tile	AMOSTE	ND	%	WCD	11-DEC-95		600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95		600/M4-82-020
			CHRYIS	20	%	WCD	11-DEC-95		600/M4-82-020
			CROCID	ND	%	WCD	11-DEC-95		600/M4-82-020
			TREM/ACT	ND	%	WCD	11-DEC-95		600/M4-82-020
L952655-4	21-NOV-95	ZN-01 Ground Waste	AMOSTE	ND	%	WCD	11-DEC-95		600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95		600/M4-82-020
			CHRYIS	20	%	WCD	11-DEC-95		600/M4-82-020
			CROCID	ND	%	WCD	11-DEC-95		600/M4-82-020
			TREM/ACT	ND	%	WCD	11-DEC-95		600/M4-82-020
L952655-5	21-NOV-95	ZN-02 Zinc Hopper	AMOSTE	<1	%	WCD	11-DEC-95		600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95		600/M4-82-020
			CHRYIS	15	%	WCD	11-DEC-95		600/M4-82-020
			CROCID	ND	%	WCD	11-DEC-95		600/M4-82-020
			TREM/ACT	ND	%	WCD	11-DEC-95		600/M4-82-020
L952655-6	21-NOV-95	ZN-03 Blower Gasket	AMOSTE	ND	%	WCD	11-DEC-95		600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95		600/M4-82-020
			CHRYIS	60	%	WCD	11-DEC-95		600/M4-82-020
			CROCID	ND	%	WCD	11-DEC-95		600/M4-82-020
			TREM/ACT	ND	%	WCD	11-DEC-95		600/M4-82-020
L952655-7	21-NOV-95	ZN-04 Blower Wiring	AMOSTE	ND	%	WCD	11-DEC-95		600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95		600/M4-82-020
			CHRYIS	ND	%	WCD	11-DEC-95		600/M4-82-020

ASARCO TECHNICAL SERVICES CENTER
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L952655-7	21-NOV-95	ZN-04 Blower Wiring	CROCID TREN/ACT	ND ND	% %	WCD WCD	11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020
L952655-8	21-NOV-95	ZN-05 Flue Cloth	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-9	21-NOV-95	ZN-06 Flue Rope	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-10	21-NOV-95	ZN-07 Flue Cloth	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND 85 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-11	21-NOV-95	ZN-08 Pipe Wrap	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-12	21-NOV-95	AM-01 Pipe Eyewash	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	25 ND 1 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-13	21-NOV-95	Am-02 Fitting 7	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020

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El Paso
Industrial Hygiene (OSHA) (Project 3211)
Batch No: L952655

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L952655-14	21-NOV-95	CD-01 Overhead Crane EL Cov	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020
L952655-15	21-NOV-95	CD-02 Flue Gasket	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020
L952655-16	21-NOV-95	RVB-02 Hanging Wall	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020
L952655-17	21-NOV-95	RVB-03 Boiler Mud(N)	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	5 ND 15 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020
L952655-18	21-NOV-95	RVB-04 Pipe Flange (N)	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND 10 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020
L952655-19	21-NOV-95	RVB-05 Pipe (West)	AMOSTE ANTHOP CHRYD CROCID TREN/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020 600/M4-82-020
L952655-20	21-NOV-95	RVB-06 Boiler West	AMOSTE ANTHOP CHRYD	ND ND ND	% % %	WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95		600/M4-82-020 600/M4-82-020 600/M4-82-020

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El Paso

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Batch No: L952655

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L952655-20	21-NOV-95	RVB-06 Boiler West	CROCID TREM/ACT	ND ND	% %	WCD WCD	11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020
L952655-21	21-NOV-95	RVB-07 Boiler Elbow (West)	ANOSTE ANTHOP CHRS CROCID TREM/ACT	ND ND 5 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-22	21-NOV-95	RVB-08 Pipe (West)	ANOSTE ANTHOP CHRS CROCID TREM/ACT	ND ND ND ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-23	21-NOV-95	RVB-09 45 Elbow/Valve (S)	ANOSTE ANTHOP CHRS CROCID TREM/ACT	10 ND 15 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-24	21-NOV-95	RVB-10 30" Flue	ANOSTE ANTHOP CHRS CROCID TREM/ACT	ND ND 2 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-25	21-NOV-95	RVB-11 8" Pipe (South)	ANOSTE ANTHOP CHRS CROCID TREM/ACT	25 ND 3 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020
L952655-26	21-NOV-95	RVB-12 Boiler (South)	ANOSTE ANTHOP CHRS CROCID TREM/ACT	10 ND 10 ND ND	% % % % %	WCD WCD WCD WCD WCD	11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95 11-DEC-95		600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020 600/H4-82-020

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El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L952655

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	METHOD
L952655-27	21-NOV-95	RVB-13 Preheated Boiler	AMOSTE	ND	%	WCD	11-DEC-95	600/M4-82-020
			ANTHOP	ND	%	WCD	11-DEC-95	600/M4-82-020
			CHRYD	ND	%	WCD	11-DEC-95	600/M4-82-020
			CROCID	ND	%	WCD	11-DEC-95	600/M4-82-020
			TREM/ACT	ND	%	WCD	11-DEC-95	600/M4-82-020

[Signature]
Approved

MAA
Reviewer



Sun
City
Analytical
Inc.

Sun City Analytical

5328848

P.01

Post-It® Fax Note	7671	Date	# of Pages
To	REGAN MUMFELL	From	LAB
Co./Dept.	ASARCO	Co.	SUN CITY ANALYTICAL
Phone #	541-3640	Phone #	533-8840
Fax #	541-1811	Fax #	533-8843

December 12, 1995

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

RE: ELECTRIC SHOP FLOOR MASTIC

LAB NO#	SAMPLE NUMBER	DESCRIPTION	MATRIX	FIBROUS	ASBESTIFORM
895-4372	ASB-01	Black, Non-friable	Tar resins	None Detected	Chrysotile 10-15%

Adrian Gallardo

Adrian Gallardo
MICROSCOPIST

Method: Polarized light microscopy with Dispersion staining using Olympus CH-2 Polarized Light Microscope with McCrone Dispersion Staining Objective. Standard error + 1-10% + 25%, 11-99 + 50% percentages based on visual volume procedure. EPA-600/M4-62-020 '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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