

ASARCO

PLAINTIFF'S EXHIBIT

ASA-1520

August 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 dated 07/29/95.

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



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L951632

RECEIVED

AUG 2 2 1995

P. MUNSELL

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L951632-1	29-JUL-95	Ceiling Panel Sec-01	AMOSTE ND ANTHOP ND BULK ASBES ND CHRTS 15 CROCID ND TREN/ACT ND			WCD	08-AUG-95		EPA-600/M4-82-020
L951632-2	29-JUL-95	Ceiling Tile Sec-02	AMOSTE ND ANTHOP ND BULK ASBES ND CHRTS ND CROCID ND TREN/ACT ND			WCD	08-AUG-95		EPA-600/M4-82-020
L951632-3	29-JUL-95	Floor Tile Sec-03	AMOSTE ND ANTHOP ND BULK ASBES ND CHRTS 5 CROCID ND TREN/ACT ND			WCD	08-AUG-95		EPA-600/M4-82-020
L951632-4	29-JUL-95	Table Top Sec-04	AMOSTE ND ANTHOP ND BULK ASBES ND CHRTS 5 CROCID ND TREN/ACT ND			WCD	08-AUG-95		EPA-600/M4-82-020
L951632-5	29-JUL-95	Floor Tile Sec-05	AMOSTE ND ANTHOP ND BULK ASBES ND CHRTS 20 CROCID ND TREN/ACT ND			WCD	08-AUG-95		EPA-600/M4-82-020
L951632-6	29-JUL-95	Spray On Ceiling Sec-06	AMOSTE ND ANTHOP ND BULK ASBES ND CHRTS ND			WCD	08-AUG-95		EPA-600/M4-82-020

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L951632-6	29-JUL-95	Spray On Ceiling SEC-06	CROCIO TREN/ACT	ND ND	X X	WCD WCD	08-AUG-95 08-AUG-95	EPA-600/M4-82-020 EPA-600/M4-82-020	
L951632-7	29-JUL-95	Floor Tile SEC-07	AMOSTE ANTHOP BULK ASBES CHRYD CROCIO TREN/ACT	ND ND ND 20 ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95	EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020	
L951632-8	29-JUL-95	Floor Tile E1C-01	AMOSTE ANTHOP BULK ASBES CHRYD CROCIO TREN/ACT	ND ND ND 10 ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95	EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020	
L951632-9	29-JUL-95	Plaster E1C-02	AMOSTE ANTHOP BULK ASBES CHRYD CROCIO TREN/ACT	ND ND ND ND ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95	EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020	
L951632-10	29-JUL-95	Plaster Elbow E1C-03	AMOSTE ANTHOP BULK ASBES CHRYD CROCIO TREN/ACT	ND ND ND ND ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95	EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020	
L951632-11	29-JUL-95	Plaster Ceiling E1C-04	AMOSTE ANTHOP BULK ASBES CHRYD CROCIO TREN/ACT	ND ND ND ND ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95	EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020	

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L951632-12	29-JUL-95	Floor Tile 61c-05	AMOSTE ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRSY 30		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			TRENACT ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-13	29-JUL-95	Plaster Wall 61c-06	AMOSTE ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRSY ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			TRENACT ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-14	29-JUL-95	Floor Tile	AMOSTE ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRSY ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			TRENACT ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-15	29-JUL-95	Sprayed On Ceiling	AMOSTE ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRSY ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			TRENACT ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-16	29-JUL-95	Ceiling Tile	AMOSTE ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRSY ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CROCID ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			TRENACT ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
L951632-17	29-JUL-95	Ceiling Tile	AMOSTE ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			ANTHOP ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			BULK ASBES ND		X	WCD	08-AUG-95		EPA-600/M4-82-020
			CHRSY ND		X	WCD	08-AUG-95		EPA-600/M4-82-020

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L951632-17	29-JUL-95	Ceiling Tile	CROCID TREM/ACT	ND ND	X X	WCD WCD	08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-18	29-JUL-95	Wall Plaster	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-19	29-JUL-95	Floor Tile	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-20	29-JUL-95	Pipe Insulation	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND 60 ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-21	29-JUL-95	Pipe Insulation Eng-01	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	10 ND ND ND ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-22	29-JUL-95	Wall Plaster Eng-02	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREM/ACT	ND ND ND ND ND ND	X X X X X X	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020

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L951632-23	29-JUL-95	Roofing Material	AHOSTE	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			ANTHOP	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			BULK ASBES	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CHRS	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CROCID	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
L951632-24	29-JUL-95	Plaster Wall	TREM/ACT	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			AHOSTE	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			ANTHOP	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			BULK ASBES	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CHRS	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
L951632-25	29-JUL-95	Floor Tile	CROCID	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			TREM/ACT	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			AHOSTE	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			ANTHOP	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			BULK ASBES	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
L951632-26	29-JUL-95	Floor Tile	CHRS	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CROCID	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			TREM/ACT	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			AHOSTE	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			ANTHOP	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
L951632-27	29-JUL-95	Pipe Insulation	BULK ASBES	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CHRS	30	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CROCID	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			TREM/ACT	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			AHOSTE	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
L951632-28	29-JUL-95	Floor Tile	ANTHOP	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			BULK ASBES	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CHRS	30	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CROCID	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			TREM/ACT	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
L951632-29	29-JUL-95	Floor Tile	AHOSTE	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			ANTHOP	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			BULK ASBES	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CHRS	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020
			CROCID	ND	X	WCD	08-AUG-95		EPA-600/H4-82-020

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L951632-28	29-JUL-95	Floor Tile	CROCID TREN/ACT	ND ND	% %	WCD WCD	08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020
L951632-29	29-JUL-95	Floor Tile	AMOSTE ANTHOP BULK ASBES CHRYD CROCID TREN/ACT	ND ND ND 20 ND ND	% % % % % %	WCD WCD WCD WCD WCD WCD	08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95 08-AUG-95		EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020 EPA-600/M4-82-020

 Approved
 Reviewed