

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991597

TAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYSED	HOLD DAYS	METHOD
L991597-018	26-AUG-99	BH3-6C	CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.1	%	LCS	24-SEP-99		EDXRF
			PB	20	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	<10	ppm	LCS	24-SEP-99		EDXRF
			AS	<10	ppm	LCS	24-SEP-99		EDXRF
L991597-019	26-AUG-99	BH3-6D	CD	16	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.4	%	LCS	24-SEP-99		EDXRF
			PB	<10	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
L991597-020	26-AUG-99	BH3-6E	ZN	60	ppm	LCS	24-SEP-99		EDXRF
			AS	40	ppm	LCS	24-SEP-99		EDXRF
			CD	14	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	2.2	%	LCS	24-SEP-99		EDXRF
L991597-021	26-AUG-99	BH3-6F	PB	22	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	72	ppm	LCS	24-SEP-99		EDXRF
			AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
L991597-022	26-AUG-99	BH3-6G	CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.7	%	LCS	24-SEP-99		EDXRF
			PB	27	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	39	ppm	LCS	24-SEP-99		EDXRF
			AS	330	ppm	LCS	24-SEP-99		EDXRF
L991597-023	26-AUG-99	BH3-6H	CD	26	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.0	%	LCS	24-SEP-99		EDXRF
			PB	24	ppm	LCS	24-SEP-99		EDXRF
			AS	330	ppm	LCS	24-SEP-99		EDXRF

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L991597-022	26-AUG-99	BH3-6G	SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	260	ppm	LCS	24-SEP-99		EDXRF
L991597-023	26-AUG-99	BH3-6G2	AS	380	ppm	LCS	24-SEP-99		EDXRF
			CD	26	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.1	%	LCS	24-SEP-99		EDXRF
			PB	29	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	260	ppm	LCS	24-SEP-99		EDXRF
L991597-024	26-AUG-99	BH3-6H	AS	1100	ppm	LCS	24-SEP-99		EDXRF
			CD	40	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.0	%	LCS	24-SEP-99		EDXRF
			PB	48	ppm	LCS	24-SEP-99		EDXRF
			SE	14	ppm	LCS	24-SEP-99		EDXRF
			ZN	400	ppm	LCS	24-SEP-99		EDXRF
L991597-025	26-AUG-99	BH3-6I	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	0.88	%	LCS	24-SEP-99		EDXRF
			PB	24	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	46	ppm	LCS	24-SEP-99		EDXRF
L991597-026	26-AUG-99	BH3-6J	AS	72	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	47	ppm	LCS	24-SEP-99		EDXRF
			FE	4.7	%	LCS	24-SEP-99		EDXRF
			PB	28	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	100	ppm	LCS	24-SEP-99		EDXRF

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L991597

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	METHOD
L991597-027	26-AUG-99	BH3-7A	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	32	ppm	LCS	24-SEP-99		EDXRF
			FE	1.9	%	LCS	24-SEP-99		EDXRF
			PB	<10	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	47	ppm	LCS	24-SEP-99		EDXRF
L991597-028	26-AUG-99	BH3-7B	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	52	ppm	LCS	24-SEP-99		EDXRF
			FE	1.7	%	LCS	24-SEP-99		EDXRF
			PB	<10	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	44	ppm	LCS	24-SEP-99		EDXRF
L991597-029	26-AUG-99	BH3-7C	AS	17	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	61	ppm	LCS	24-SEP-99		EDXRF
			FE	2.0	%	LCS	24-SEP-99		EDXRF
			PB	<10	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	44	ppm	LCS	24-SEP-99		EDXRF
L991597-030	26-AUG-99	BH3-7C2	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	33	ppm	LCS	24-SEP-99		EDXRF
			FE	1.9	%	LCS	24-SEP-99		EDXRF
			PB	<10	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	10	ppm	LCS	24-SEP-99		EDXRF
L991597-031	26-AUG-99	BH3-7D	AS	18	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF

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Water and Solid Waste (Project 3220)

Batch No: L991597

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	WTD	METHOD
L991597-031	26-AUG-99	BH3-7D	CU	66	ppm	LCS	24-SEP-99		EDXRF
			FE	2.8	%	LCS	24-SEP-99		EDXRF
			PB	38	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	49	ppm	LCS	24-SEP-99		EDXRF
L991597-032	26-AUG-99	BH3-7E	AS	15	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	2.4	%	LCS	24-SEP-99		EDXRF
L991597-033	26-AUG-99	BH3-7F	PB	46	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	47	ppm	LCS	24-SEP-99		EDXRF
			AS	56	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
L991597-034	26-AUG-99	BH3-7G	CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	39	ppm	LCS	24-SEP-99		EDXRF
			FE	4.7	%	LCS	24-SEP-99		EDXRF
			PB	<10	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
L991597-035	26-AUG-99	BH3-7H	ZN	64	ppm	LCS	24-SEP-99		EDXRF
			AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	45	ppm	LCS	24-SEP-99		EDXRF
L991597-036	26-AUG-99	BH3-7I	FE	1.1	%	LCS	24-SEP-99		EDXRF
			PB	41	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	35	ppm	LCS	24-SEP-99		EDXRF
			AS	50	ppm	LCS	24-SEP-99		EDXRF
L991597-037	26-AUG-99	BH3-7J	CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	27	ppm	LCS	24-SEP-99		EDXRF
			FE	3.1	%	LCS	24-SEP-99		EDXRF
			PB	63	ppm	LCS	24-SEP-99		EDXRF



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Batch No: L991597

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991597-035	26-AUG-99	BH3-7H	SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	28	ppm	LCS	24-SEP-99		EDXRF
L991597-036	27-AUG-99	BH3-7I	AS	<10	ppm	LCS	24-SEP-99		EDXRF
			CD	<10	ppm	LCS	24-SEP-99		EDXRF
			CR	<80	ppm	LCS	24-SEP-99		EDXRF
			CU	<20	ppm	LCS	24-SEP-99		EDXRF
			FE	1.0	ppm	LCS	24-SEP-99		EDXRF
			PB	12	ppm	LCS	24-SEP-99		EDXRF
			SE	<10	ppm	LCS	24-SEP-99		EDXRF
			ZN	<10	ppm	LCS	24-SEP-99		EDXRF

  
 Approved  
  
 Reviewer

# HYDROTECHNICS, INC.

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	SAMPLERS: (Signature)		NO. OF CONTAINERS	ANALYSIS										REMARKS
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	TPH	XRF (As, Cd, Cr, Cu, Pb, Zn, Hg)		
8/24/99	1540			BH3-41A									X		
↓	1545			BH3-41B									X		
8/25/99	0845			BH3-41C									X		
↓	0950			BH3-41D									X		
↓	1000			BH3-41E									X		
↓	1210			BH3-5A									X		
↓	1212			BH3-5A2									X		
↓	1335			BH3-5B									X		
↓	1338			BH3-5C									X		
↓	1353			BH3-5D									X		
↓	1356			BH3-5E									X		
↓	1415			BH3-5F									X		
8/31/99	1350			BH3-8A									X		
↓	1435			BH3-8B									X		
↓	1437			BH3-8B2									X		
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus Fed Ex, UPS					
8/24/99		9/7/99 16:00				75C				Other					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks				Air Bill #					
8/24/99						Salt Lake City, UT									
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:		Parameter sheet w/ detection limits					
8/24/99				J. G. [Signature]		9/8/99 1300		QA/QC standard mixing instructions		Cover letter					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Date/Time		Other		Split Samples:					
8/24/99								II Accepted		II Declined					

# ANALYTICAL, INC.

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		ANALYTICAL, INC.									
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTX	TPH	REMARKS
1035	ASARCO - El Paso, TX												
SAMPLERS: (Signature)													
Harold Kutz													
8/28/99	1705			BH3-6A									
8/28/99	1710			BH3-6B									
8/28/99	0808			BH3-6C									
8/28/99	0810			BH3-6D									
8/28/99	0825			BH3-6E									
8/28/99	0838			BH3-6F									
8/28/99	0845			BH3-6G									
8/28/99	0847			BH3-6H									
8/28/99	0849			BH3-6I									
8/28/99	0930			BH3-6J									
8/28/99	0950			BH3-6K									
Relinquished (Signature)													
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ПРИЛОЖЕНИЕ 3, Л. 5.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	COMMONS UF/RAW			DISC. METAL F/HNO <sub>3</sub>			CN UF/NaOH			TOTAL METALS UF/HNO <sub>3</sub>			TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>			BTX			TPH			XRF (As, Cd, Cr, Cu, Fe, Pb, Se, Zn)			REMARKS		
DATE	TIME	COMP	GRAB	SAMPLE NUMBER																									
8/26/99	1444			BH3-7A																									
	1447			BH3-7B																									
	1510			BH3-7C																									
	1513			BH3-7D																									
	1607			BH3-7E																									
	1610			BH3-7F																									
	1630			BH3-7G																									
	1710			BH3-7H																									
	1713			BH3-7I																									
8-27-99	0815																												

PROJ. NO. 1035

PROJECT NAME MARCO, El Paso, TX

SAMPLERS: (Signature) Harold Kutz

NO. OF CONTAINERS 1 BAG

COMMONS UF/RAW

DISC. METAL F/HNO<sub>3</sub>

CN UF/NaOH

TOTAL METALS UF/HNO<sub>3</sub>

TOTAL RECOVERABLE METALS UF/HNO<sub>3</sub>

BTX

TPH

XRF (As, Cd, Cr, Cu, Fe, Pb, Se, Zn)

REMARKS

Relinquished (Signature) [Signature]

Relinquished (Signature) [Signature]

Relinquished (Signature) [Signature]

Date/Time 8/27/99 16:00

Date/Time

Date/Time

Received by: (Signature) [Signature]

Received by: (Signature) [Signature]

Received for Laboratory by: (Signature) [Signature]

Lab 73C

P.O. #

Shipped via: Bus, Fed Ex, UPS

Enclosed: ☒ Parameter sheet w/ detection limits

☐ QA/QC standard mixing instructions

☐ Cover letter

Date/Time 8-27-99 1300

Split Samples: ☐ Accepted ☒ Declined

Return results & electronic copy to:



# ASARCO

RECEIVED

OCT 12 1999

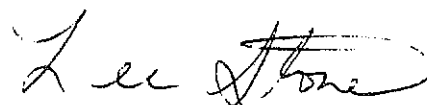
HYDROMETRICS, INC.

October 6, 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

Please find attached the X-ray results for your El Paso soil sample collected from the 31<sup>st</sup> of August to the 2<sup>nd</sup> of September. Also attached are the X-ray QC results.

If you have any questions pertaining to the data please feel free to call.



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991649

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOUND
L991649-001	31-AUG-99	BHI-1A	AS	30	ppm	LCS	06-OCT-99	EDXRF
			CD	<10	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	100	ppm	LCS	16-NOV-99	EDXRF
			FE	2.3	%	LCS	16-NOV-99	EDXRF
			PB	62	ppm	LCS	06-OCT-99	EDXRF
			SE	<10	ppm	LCS	16-NOV-99	EDXRF
			ZN	290	ppm	LCS	16-NOV-99	EDXRF
L991649-002	31-AUG-99	BHI-1B	AS	200	ppm	LCS	06-OCT-99	EDXRF
			CD	58	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	5500	ppm	LCS	16-NOV-99	EDXRF
			FE	2.4	%	LCS	16-NOV-99	EDXRF
			PB	1600	ppm	LCS	06-OCT-99	EDXRF
			SE	13	ppm	LCS	16-NOV-99	EDXRF
			ZN	2400	ppm	LCS	16-NOV-99	EDXRF
L991649-003	31-AUG-99	BHI-1C	AS	17	ppm	LCS	06-OCT-99	EDXRF
			CD	<10	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	39	ppm	LCS	16-NOV-99	EDXRF
			FE	2.2	%	LCS	16-NOV-99	EDXRF
			PB	<10	ppm	LCS	06-OCT-99	EDXRF
			SE	<10	ppm	LCS	16-NOV-99	EDXRF
			ZN	31	ppm	LCS	16-NOV-99	EDXRF
L991649-004	31-AUG-99	BHI-1D	AS	10	ppm	LCS	06-OCT-99	EDXRF
			CD	<10	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	<20	ppm	LCS	16-NOV-99	EDXRF
			FE	2.4	%	LCS	16-NOV-99	EDXRF
			PB	<10	ppm	LCS	06-OCT-99	EDXRF
			SE	<10	ppm	LCS	16-NOV-99	EDXRF
			ZN	23	ppm	LCS	16-NOV-99	EDXRF
L991649-005	31-AUG-99	BHI-1E	AS	20	ppm	LCS	06-OCT-99	EDXRF
			CD	<10	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991649

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								DAYS	METHOD
L991649-005	31-AUG-99	BHI-1E	CU	23	ppm	LCS	16-NOV-99		EDXRF
			FE	2.7	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	32	ppm	LCS	16-NOV-99		EDXRF
			AS	16	ppm	LCS	06-OCT-99		EDXRF
L991649-006	31-AUG-99	BHI-1F	CD	20	ppm	LCS	16-NOV-99		EDXRF
			CR	87	ppm	LCS	16-NOV-99		EDXRF
			CU	27	ppm	LCS	16-NOV-99		EDXRF
			FE	3.2	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
L991649-007	01-SEP-99	BHI-1G	ZN	48	ppm	LCS	16-NOV-99		EDXRF
			AS	48	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	<20	ppm	LCS	16-NOV-99		EDXRF
			FE	4.1	%	LCS	16-NOV-99		EDXRF
L991649-008	01-SEP-99	BHI-1H	PB	11	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	57	ppm	LCS	16-NOV-99		EDXRF
			AS	33	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
L991649-009	01-SEP-99	BHI-1I	CU	23	ppm	LCS	16-NOV-99		EDXRF
			FE	3.6	%	LCS	16-NOV-99		EDXRF
			PB	16	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	30	ppm	LCS	16-NOV-99		EDXRF
			AS	16	ppm	LCS	06-OCT-99		EDXRF
L991649-009	01-SEP-99	BHI-1I	CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	49	ppm	LCS	16-NOV-99		EDXRF
			FE	2.5	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
			AS	16	ppm	LCS	06-OCT-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991649

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	NO. OF DAYS	METHOD
L991649-009	01-SEP-99	BH1-1I	SE	12	ppm	LCS	16-NOV-99		EDXRF
			ZN	36	ppm	LCS	16-NOV-99		EDXRF
			AS	18	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
L991649-010	01-SEP-99	BH1-1J	CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	23	ppm	LCS	16-NOV-99		EDXRF
			FE	2.8	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	51	ppm	LCS	16-NOV-99		EDXRF
			AS	720	ppm	LCS	06-OCT-99		EDXRF
			CD	590	ppm	LCS	16-NOV-99		EDXRF
L991649-011	01-SEP-99	BH1-2A	CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	3100	ppm	LCS	16-NOV-99		EDXRF
			FE	2.2	%	LCS	16-NOV-99		EDXRF
			PB	710	ppm	LCS	06-OCT-99		EDXRF
			SE	31	ppm	LCS	16-NOV-99		EDXRF
			ZN	3900	ppm	LCS	16-NOV-99		EDXRF
			AS	77	ppm	LCS	06-OCT-99		EDXRF
			CD	160	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	250	ppm	LCS	16-NOV-99		EDXRF
L991649-012	01-SEP-99	BH1-2B	FE	2.0	%	LCS	16-NOV-99		EDXRF
			PB	190	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	1100	ppm	LCS	16-NOV-99		EDXRF
			AS	16	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	93	ppm	LCS	16-NOV-99		EDXRF
			FE	2.0	%	LCS	16-NOV-99		EDXRF
			PB	100	ppm	LCS	06-OCT-99		EDXRF
L991649-013	01-SEP-99	BH1-2C	SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	61	ppm	LCS	16-NOV-99		EDXRF
			AS	16	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991649

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991649-014	01-SEP-99	BH1-2D	AS	30	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	160	ppm	LCS	16-NOV-99		EDXRF
			FE	2.3	%	LCS	16-NOV-99		EDXRF
			PB	140	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	200	ppm	LCS	16-NOV-99		EDXRF
			AS	12	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
L991649-015	01-SEP-99	BH1-2E	CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	99	ppm	LCS	16-NOV-99		EDXRF
			FE	2.1	%	LCS	16-NOV-99		EDXRF
			PB	46	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	66	ppm	LCS	16-NOV-99		EDXRF
			AS	<10	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	<20	ppm	LCS	16-NOV-99		EDXRF
L991649-016	02-SEP-99	BH1-2F	FE	2.4	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	48	ppm	LCS	16-NOV-99		EDXRF
			AS	<10	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	<20	ppm	LCS	16-NOV-99		EDXRF
			FE	2.4	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
L991649-017	02-SEP-99	BH1-2G	SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	48	ppm	LCS	16-NOV-99		EDXRF
			AS	12	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	<20	ppm	LCS	16-NOV-99		EDXRF
			FE	2.2	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	25	ppm	LCS	16-NOV-99		EDXRF
L991649-018	02-SEP-99	BH1-2H	AS	23	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			AS	23	ppm	LCS	06-OCT-99		EDXRF
			CD	<10	ppm	LCS	16-NOV-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991649

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	METHOD
L991649-018	02-SEP-99	BH1-2H	CU	50	ppm	LCS	16-NOV-99	EDXRF
			FE	3.2	%	LCS	16-NOV-99	EDXRF
			PB	11	ppm	LCS	06-OCT-99	EDXRF
			SE	<10	ppm	LCS	16-NOV-99	EDXRF
			ZN	38	ppm	LCS	16-NOV-99	EDXRF
L991649-019	02-SEP-99	BH1-2I	AS	12	ppm	LCS	06-OCT-99	EDXRF
			CD	<10	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	<20	ppm	LCS	16-NOV-99	EDXRF
			FE	2.3	%	LCS	16-NOV-99	EDXRF
L991649-020	02-SEP-99	BH1-2J	PB	<10	ppm	LCS	06-OCT-99	EDXRF
			SE	<10	ppm	LCS	16-NOV-99	EDXRF
			ZN	32	ppm	LCS	16-NOV-99	EDXRF
			AS	48	ppm	LCS	06-OCT-99	EDXRF
			CD	<10	ppm	LCS	16-NOV-99	EDXRF
L991649-021	02-SEP-99	BH1-2K	CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	56	ppm	LCS	16-NOV-99	EDXRF
			FE	3.9	%	LCS	16-NOV-99	EDXRF
			PB	<10	ppm	LCS	06-OCT-99	EDXRF
			SE	<10	ppm	LCS	16-NOV-99	EDXRF
L991649-022	02-SEP-99	BH1-2K2	ZN	40	ppm	LCS	16-NOV-99	EDXRF
			AS	24	ppm	LCS	06-OCT-99	EDXRF
			CD	<10	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	<20	ppm	LCS	16-NOV-99	EDXRF
L991649-023	02-SEP-99	BH1-2K3	FE	3.0	%	LCS	16-NOV-99	EDXRF
			PB	11	ppm	LCS	06-OCT-99	EDXRF
			SE	<10	ppm	LCS	16-NOV-99	EDXRF
			ZN	17	ppm	LCS	16-NOV-99	EDXRF
			AS	25	ppm	LCS	06-OCT-99	EDXRF
L991649-024	02-SEP-99	BH1-2K4	CD	<10	ppm	LCS	16-NOV-99	EDXRF
			CR	<80	ppm	LCS	16-NOV-99	EDXRF
			CU	25	ppm	LCS	16-NOV-99	EDXRF
			FE	3.0	%	LCS	16-NOV-99	EDXRF
			PB	12	ppm	LCS	06-OCT-99	EDXRF

ASARCO TECHNICAL SERVICES CENTER



ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991649

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991649-022	02-SEP-99	BH1-2K2	SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	31	ppm	LCS	16-NOV-99		EDXRF
L991649-023	02-SEP-99	BH1-2L	AS	21	ppm	LCS	06-OCT-99		EDXRF
			CD	11	ppm	LCS	16-NOV-99		EDXRF
			CR	<80	ppm	LCS	16-NOV-99		EDXRF
			CU	45	ppm	LCS	16-NOV-99		EDXRF
			FE	2.8	%	LCS	16-NOV-99		EDXRF
			PB	<10	ppm	LCS	06-OCT-99		EDXRF
			SE	<10	ppm	LCS	16-NOV-99		EDXRF
			ZN	23	ppm	LCS	16-NOV-99		EDXRF

 Approved  
 Reviewed

L991649

CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As	% REC	Pb	% REC
571	82	8351	104
669	96	8208	102
649	93	8254	102

LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As	% REC	Pb	% REC
944	103	219	93
948	103	227	96

DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991649-20	49	44	11	<10	14	BDL
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	56	<20	BDL	3.9	3.9	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	40	70	55

LAB#

L991649-23

As	As	%DIFF	Pb	Pb	%DIFF
18	21	15	<10	<10	BDL
Cd	Cd		Cr	Cr	
10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
45	28	47	2.8	2.8	0
Se	Se		Zn	Zn	
<10	<10	BDL	23	49	72

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

## LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM

Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS										REMARKS		
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Se)		
1035	ASARCO - EL PASO, TX														
SAMPLERS: (Signature) H. KUTZ															
8/31/99	1655			BH1-1A									X		
	1659			BH1-1B									X		
	1710			BH1-1C									X		
	1713			BH1-1D									X		
	1735			BH1-1E									X		
	1737			BH1-1F									X		
9/1/99	0825			BH1-1G									X		
	0827			BH1-1H									X		
	0900			BH1-1I									X		
	0903			BH1-1J									X		
	1515			BH1-2A									X		
	1517			BH1-2B									X		
	1519			BH1-2C									X		
	1521			BH1-2D									X		
	1523			BH1-2E									X		
Relinquished (Signature) [Signature]					Received by: (Signature)					Lab TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS	
Relinquished (Signature) [Signature]					Received by: (Signature)					Salt Lake City, UT		Other		Air Bill #	
Relinquished (Signature)					Received for Laboratory by: (Signature)					Date/Time 9-17-99 12:00		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits		QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
Relinquished (Signature)					Received by: (Signature)					Date/Time 9-17-99 12:00		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter		Other	
Relinquished (Signature)					Received by: (Signature)					Date/Time 9-17-99 12:00		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter		Other	
Relinquished (Signature)					Received by: (Signature)					Date/Time 9-17-99 12:00		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter		Other	

Return results & electronic copy to:

# HYGIENICS, INC.

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		ASARCO - EL PASO, TX		1 BAG													
SAMPLERS: (Signature)				SAMPLE NUMBER													
H. KUTZ																	
DATE	TIME	COMP.	GRAB			Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF/As Cd Cr Cu Pb Zn			
9/12/99	0815			BH1-2F													
	0820			BH1-2G													
	0901			BH1-2H													
	0905			BH1-2I													
	1010			BH1-2J													
	1015			BH1-2K													
	1017			BH1-2L													
	1035			BH1-2L													
Relinquished (Signature)						Received by: (Signature)		Lab		P.O. #		Shipped via: Bus Fed-Ex UPS					
9/16/99 16:00								BSC									
Relinquished (Signature)						Received by: (Signature)		Salt Lake City, UT				Other		Air Bill #			
9/17/99 12:00								Remarks									
Relinquished (Signature)						Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other							
9/17/99 12:00								9/17/99 12:00									
Return results & electronic copy to:																	






# ASARCO

November 12, 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

Please find attached the X-ray results for your El Paso soil sample collected from the 29<sup>th</sup> of September to the 6<sup>th</sup> of October. Also attached are the X-ray QC results.

If you have any questions pertaining to the data please feel free to call.



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



**L991781, L991782, L991783, L991784**

**CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)**

As	% REC		Pb	% REC
666	95		8383	104
669	96		8179	101
595	85		8321	103
681	97		8296	103
607	87		8291	103
599	86		8228	102
688	98		8249	102

**LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)**

As	% REC		Pb	% REC
962	105		224	95
959	105		217	92
936	102		227	96
950	104		223	94

**DUPLICATES EVERY 20TH SAMPLE**

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991781-20	6559	6512	1	9746	9599	2
	Cd	Cd		Cr	Cr	
	13	23	56	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	5023	5116	2	6.9	7	1
	Se	Se		Zn	Zn	
	27	36	29	2086	2116	1

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991782-20	16	12	29	50	44	13
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	20	24	18	2.4	2.3	4
	Se	Se		Zn	Zn	
	<10	<10	BDL	33	44	29

LAB#

L991783-9

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	38	37	3
Cd	Cd		Cr	Cr	
<10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
<20	<20	BDL	1.8	1.8	0
Se	Se		Zn	Zn	
<10	<10	BDL	32	29	10

LAB#

L991784-19

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	34	43	23
Cd	Cd		Cr	Cr	
<10	14	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
<20	<20	BDL	2.6	2.6	0
Se	Se		Zn	Zn	
<10	<10	BDL	42	54	25

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991781

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER		VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991781-001	29-SEP-99	EPI01A	AS		940	ppm	LCS	11-NOV-99	EDXRF
			CD		690	ppm	LCS	11-NOV-99	EDXRF
			CR		<80	ppm	LCS	11-NOV-99	EDXRF
			CU		3000	ppm	LCS	11-NOV-99	EDXRF
			FE		1.8	%	LCS	11-NOV-99	EDXRF
			PB		11000	ppm	LCS	11-NOV-99	EDXRF
			SE		110	ppm	LCS	11-NOV-99	EDXRF
			ZN		4100	ppm	LCS	11-NOV-99	EDXRF
L991781-002	29-SEP-99	EPI01B	AS		7700	ppm	LCS	11-NOV-99	EDXRF
			CD		2100	ppm	LCS	11-NOV-99	EDXRF
			CR		<80	ppm	LCS	11-NOV-99	EDXRF
			CU		16000	ppm	LCS	11-NOV-99	EDXRF
			FE		3.2	%	LCS	11-NOV-99	EDXRF
			PB		42000	ppm	LCS	11-NOV-99	EDXRF
			SE		180	ppm	LCS	11-NOV-99	EDXRF
			ZN		17000	ppm	LCS	11-NOV-99	EDXRF
L991781-003	29-SEP-99	EPI01C	AS		5200	ppm	LCS	11-NOV-99	EDXRF
			CD		1300	ppm	LCS	11-NOV-99	EDXRF
			CR		<80	ppm	LCS	11-NOV-99	EDXRF
			CU		5600	ppm	LCS	11-NOV-99	EDXRF
			FE		3.8	%	LCS	11-NOV-99	EDXRF
			PB		21000	ppm	LCS	11-NOV-99	EDXRF
			SE		170	ppm	LCS	11-NOV-99	EDXRF
			ZN		6700	ppm	LCS	11-NOV-99	EDXRF
L991781-004	29-SEP-99	EPI01D	AS		1100	ppm	LCS	11-NOV-99	EDXRF
			CD		8000	ppm	LCS	11-NOV-99	EDXRF
			CR		<80	ppm	LCS	11-NOV-99	EDXRF
			CU		4700	ppm	LCS	11-NOV-99	EDXRF
			FE		3.0	%	LCS	11-NOV-99	EDXRF
			PB		12000	ppm	LCS	11-NOV-99	EDXRF
			SE		150	ppm	LCS	11-NOV-99	EDXRF
			ZN		5100	ppm	LCS	11-NOV-99	EDXRF
L991781-005	29-SEP-99	EPI01E	AS		16	ppm	LCS	11-NOV-99	EDXRF
			CD		560	ppm	LCS	11-NOV-99	EDXRF
			CR		<80	ppm	LCS	11-NOV-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991781

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991781-005	29-SEP-99	EPI01E	CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	1.5	%	LCS	11-NOV-99		EDXRF
			PB	140	ppm	LCS	11-NOV-99		EDXRF
			SE	17	ppm	LCS	11-NOV-99		EDXRF
			ZN	140	ppm	LCS	11-NOV-99		EDXRF
			AS	23	ppm	LCS	11-NOV-99		EDXRF
L991781-006	29-SEP-99	EPI01F	CD	190	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.3	%	LCS	11-NOV-99		EDXRF
			PB	69	ppm	LCS	11-NOV-99		EDXRF
			SE	12	ppm	LCS	11-NOV-99		EDXRF
L991781-007	29-SEP-99	EPI01G	ZN	32	ppm	LCS	11-NOV-99		EDXRF
			AS	84	ppm	LCS	11-NOV-99		EDXRF
			CD	670	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	50	ppm	LCS	11-NOV-99		EDXRF
			FE	2.7	%	LCS	11-NOV-99		EDXRF
L991781-008	29-SEP-99	EPI01H	PB	87	ppm	LCS	11-NOV-99		EDXRF
			SE	16	ppm	LCS	11-NOV-99		EDXRF
			ZN	65	ppm	LCS	11-NOV-99		EDXRF
			AS	71	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
L991781-009	29-SEP-99	EPI01H2	CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.6	%	LCS	11-NOV-99		EDXRF
			PB	54	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	41	ppm	LCS	11-NOV-99		EDXRF
			AS	64	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	41	ppm	LCS	11-NOV-99		EDXRF
			FE	2.6	%	LCS	11-NOV-99		EDXRF
			PB	54	ppm	LCS	11-NOV-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991781

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	PRG	EDXRF
L991781-009	29-SEP-99	EP101H2	SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	59	ppm	LCS	11-NOV-99		EDXRF
L991781-010	29-SEP-99	EP101I	AS	65	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	100	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.6	%	LCS	11-NOV-99		EDXRF
			PB	45	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	63	ppm	LCS	11-NOV-99		EDXRF
L991781-011	29-SEP-99	EP101J	AS	34	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.4	%	LCS	11-NOV-99		EDXRF
			PB	60	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	49	ppm	LCS	11-NOV-99		EDXRF
L991781-012	29-SEP-99	EP101K	AS	33	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	28	ppm	LCS	11-NOV-99		EDXRF
			FE	2.1	%	LCS	11-NOV-99		EDXRF
			PB	53	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	33	ppm	LCS	11-NOV-99		EDXRF
L991781-013	29-SEP-99	EP101L	AS	190	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	55	ppm	LCS	11-NOV-99		EDXRF
			FE	3.9	%	LCS	11-NOV-99		EDXRF
			PB	19	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	54	ppm	LCS	11-NOV-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991781

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991781-014	29-SEP-99	EP101L2	AS	160	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	34	ppm	LCS	11-NOV-99		EDXRF
			FE	3.8	%	LCS	11-NOV-99		EDXRF
			PB	23	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	60	ppm	LCS	11-NOV-99		EDXRF
			AS	91	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	66	ppm	LCS	11-NOV-99		EDXRF
L991781-015	29-SEP-99	EP101M	FE	3.3	%	LCS	11-NOV-99		EDXRF
			PB	57	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	59	ppm	LCS	11-NOV-99		EDXRF
			AS	12	ppm	LCS	11-NOV-99		EDXRF
			CD	13	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	530	ppm	LCS	11-NOV-99		EDXRF
			FE	2.0	%	LCS	11-NOV-99		EDXRF
			PB	93	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	91	ppm	LCS	11-NOV-99		EDXRF
L991781-016	04-OCT-99	EP103A	AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	19	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	310	ppm	LCS	11-NOV-99		EDXRF
			FE	1.7	%	LCS	11-NOV-99		EDXRF
			PB	390	ppm	LCS	11-NOV-99		EDXRF
			SE	13	ppm	LCS	11-NOV-99		EDXRF
			ZN	290	ppm	LCS	11-NOV-99		EDXRF
			AS	300	ppm	LCS	11-NOV-99		EDXRF
			CD	160	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
L991781-017	04-OCT-99	EP103B	AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	19	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	310	ppm	LCS	11-NOV-99		EDXRF
			FE	1.7	%	LCS	11-NOV-99		EDXRF
			PB	390	ppm	LCS	11-NOV-99		EDXRF
			SE	13	ppm	LCS	11-NOV-99		EDXRF
			ZN	290	ppm	LCS	11-NOV-99		EDXRF
			AS	300	ppm	LCS	11-NOV-99		EDXRF
			CD	160	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
L991781-018	04-OCT-99	EP103C	AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	19	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	310	ppm	LCS	11-NOV-99		EDXRF
			FE	1.7	%	LCS	11-NOV-99		EDXRF
			PB	390	ppm	LCS	11-NOV-99		EDXRF
			SE	13	ppm	LCS	11-NOV-99		EDXRF
			ZN	290	ppm	LCS	11-NOV-99		EDXRF
			AS	300	ppm	LCS	11-NOV-99		EDXRF
			CD	160	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991781

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L991781-018	04-OCT-99	EP103C	CU	4500	ppm	LCS	11-NOV-99	EDXRF
			FE	3.2	%	LCS	11-NOV-99	EDXRF
			PB	7900	ppm	LCS	11-NOV-99	EDXRF
			SE	15	ppm	LCS	11-NOV-99	EDXRF
			ZN	6100	ppm	LCS	11-NOV-99	EDXRF
L991781-019	04-OCT-99	EP103D	AS	1400	ppm	LCS	11-NOV-99	EDXRF
			CD	55	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	12000	ppm	LCS	11-NOV-99	EDXRF
			FE	6.9	%	LCS	11-NOV-99	EDXRF
L991781-020	04-OCT-99	EP103E	PB	11000	ppm	LCS	11-NOV-99	EDXRF
			SE	16	ppm	LCS	11-NOV-99	EDXRF
			ZN	4200	ppm	LCS	11-NOV-99	EDXRF
			AS	6600	ppm	LCS	11-NOV-99	EDXRF
			CD	13	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	5000	ppm	LCS	11-NOV-99	EDXRF
			FE	7.0	%	LCS	11-NOV-99	EDXRF
			PB	9700	ppm	LCS	11-NOV-99	EDXRF
			SE	27	ppm	LCS	11-NOV-99	EDXRF
			ZN	2100	ppm	LCS	11-NOV-99	EDXRF

APR  
ApprovedD. J. Cole  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991782

LAB NO	DATE COLLECTED	DESCRIPTION	PARTICLE	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991782-001	04-OCT-99	EP-103F	AS	15	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	310	ppm	LCS	11-NOV-99		EDXRF
			FE	1.6	%	LCS	11-NOV-99		EDXRF
			PB	61	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	420	ppm	LCS	11-NOV-99		EDXRF
L991782-002	04-OCT-99	EP-103F2	AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	71	ppm	LCS	11-NOV-99		EDXRF
			FE	1.6	%	LCS	11-NOV-99		EDXRF
			PB	61	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	200	ppm	LCS	11-NOV-99		EDXRF
L991782-003	04-OCT-99	EP-103G	AS	21	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	25	ppm	LCS	11-NOV-99		EDXRF
			FE	3.2	%	LCS	11-NOV-99		EDXRF
			PB	26	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	410	ppm	LCS	11-NOV-99		EDXRF
L991782-004	04-OCT-99	EP-103H	AS	19	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.7	%	LCS	11-NOV-99		EDXRF
			PB	39	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	410	ppm	LCS	11-NOV-99		EDXRF
L991782-005	04-OCT-99	EP-103I	AS	11	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991782

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991782-005	04-OCT-99	EP-103I	CU	49	ppm	LCS	11-NOV-99	EDXRF
			FE	2.7	%	LCS	11-NOV-99	EDXRF
			PB	33	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	88	ppm	LCS	11-NOV-99	EDXRF
L991782-006	04-OCT-99	EP-103J	AS	<10	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	<20	ppm	LCS	11-NOV-99	EDXRF
			FE	2.3	%	LCS	11-NOV-99	EDXRF
L991782-007	04-OCT-99	EP-103K	PB	43	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	45	ppm	LCS	11-NOV-99	EDXRF
			AS	<10	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
L991782-008	04-OCT-99	EP-103L	CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	23	ppm	LCS	11-NOV-99	EDXRF
			FE	2.4	%	LCS	11-NOV-99	EDXRF
			PB	46	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
L991782-009	04-OCT-99	EP-103M	ZN	26	ppm	LCS	11-NOV-99	EDXRF
			AS	14	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	22	ppm	LCS	11-NOV-99	EDXRF
L991782-009	04-OCT-99	EP-103M	FE	2.6	%	LCS	11-NOV-99	EDXRF
			PB	50	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	40	ppm	LCS	11-NOV-99	EDXRF
			AS	26	ppm	LCS	11-NOV-99	EDXRF
L991782-009	04-OCT-99	EP-103M	CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	41	ppm	LCS	11-NOV-99	EDXRF
			FE	3.1	%	LCS	11-NOV-99	EDXRF
			PB	37	ppm	LCS	11-NOV-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991782

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991782-009	04-OCT-99	EP-103M	SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	49	ppm	LCS	11-NOV-99		EDXRF
L991782-010	04-OCT-99	EP-103N	AS	10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.8	%	LCS	11-NOV-99		EDXRF
			PB	32	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	48	ppm	LCS	11-NOV-99		EDXRF
L991782-011	04-OCT-99	EP-103N2	AS	20	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	37	ppm	LCS	11-NOV-99		EDXRF
			FE	2.8	%	LCS	11-NOV-99		EDXRF
			PB	42	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	51	ppm	LCS	11-NOV-99		EDXRF
L991782-012	05-OCT-99	EP-104A	AS	110	ppm	LCS	11-NOV-99		EDXRF
			CD	36	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	6700	ppm	LCS	11-NOV-99		EDXRF
			FE	2.5	%	LCS	11-NOV-99		EDXRF
			PB	2800	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	1700	ppm	LCS	11-NOV-99		EDXRF
L991782-013	05-OCT-99	EP-104B	AS	10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	380	ppm	LCS	11-NOV-99		EDXRF
			FE	1.6	%	LCS	11-NOV-99		EDXRF
			PB	190	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	140	ppm	LCS	11-NOV-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991782

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	METHOD
L991782-014	05-OCT-99	EP-104C	AS	46	ppm	LCS	11-NOV-99	EDXRF
			CD	63	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	4700	ppm	LCS	11-NOV-99	EDXRF
			FE	2.4	%	LCS	11-NOV-99	EDXRF
			PB	1900	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	1700	ppm	LCS	11-NOV-99	EDXRF
			AS	16	ppm	LCS	11-NOV-99	EDXRF
			CD	12	ppm	LCS	11-NOV-99	EDXRF
L991782-015	05-OCT-99	EP-104D	CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	990	ppm	LCS	11-NOV-99	EDXRF
			FE	2.1	%	LCS	11-NOV-99	EDXRF
			PB	580	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	620	ppm	LCS	11-NOV-99	EDXRF
			AS	<10	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	200	ppm	LCS	11-NOV-99	EDXRF
L991782-016	06-OCT-99	EP-104E	FE	1.5	%	LCS	11-NOV-99	EDXRF
			PB	220	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	170	ppm	LCS	11-NOV-99	EDXRF
			AS	<10	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	200	ppm	LCS	11-NOV-99	EDXRF
			FE	1.5	%	LCS	11-NOV-99	EDXRF
			PB	220	ppm	LCS	11-NOV-99	EDXRF
L991782-017	06-OCT-99	EP-104E2	SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	170	ppm	LCS	11-NOV-99	EDXRF
			AS	<10	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	140	ppm	LCS	11-NOV-99	EDXRF
			FE	1.3	%	LCS	11-NOV-99	EDXRF
			PB	140	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	100	ppm	LCS	11-NOV-99	EDXRF
L991782-018	06-OCT-99	EP-104F	AS	<10	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991782

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991782-018	06-OCT-99	EP-104F	CU	24	ppm	LCS	11-NOV-99	EDXRF
			FE	1.1	%	LCS	11-NOV-99	EDXRF
			PB	60	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	<10	ppm	LCS	11-NOV-99	EDXRF
L991782-019	06-OCT-99	EP-104G	AS	<10	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	25	ppm	LCS	11-NOV-99	EDXRF
			FE	2.0	%	LCS	11-NOV-99	EDXRF
			PB	55	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	48	ppm	LCS	11-NOV-99	EDXRF
L991782-020	06-OCT-99	EP-104H	AS	16	ppm	LCS	11-NOV-99	EDXRF
			CD	<10	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	20	ppm	LCS	11-NOV-99	EDXRF
			FE	2.3	%	LCS	11-NOV-99	EDXRF
			PB	50	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	44	ppm	LCS	11-NOV-99	EDXRF

  
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## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991783

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								DAYS	METHOD
L991783-001	05-OCT-99	EP-104I	AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.5	%	LCS	11-NOV-99		EDXRF
			PB	47	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	31	ppm	LCS	11-NOV-99		EDXRF
			AS	20	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
L991783-002	05-OCT-99	EP-104J	CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	23	ppm	LCS	11-NOV-99		EDXRF
			FE	2.9	%	LCS	11-NOV-99		EDXRF
			PB	27	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	45	ppm	LCS	11-NOV-99		EDXRF
			AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	36	ppm	LCS	11-NOV-99		EDXRF
L991783-003	05-OCT-99	EP-104K	FE	2.5	%	LCS	11-NOV-99		EDXRF
			PB	41	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	32	ppm	LCS	11-NOV-99		EDXRF
			AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	36	ppm	LCS	11-NOV-99		EDXRF
			FE	2.5	%	LCS	11-NOV-99		EDXRF
			PB	41	ppm	LCS	11-NOV-99		EDXRF
L991783-004	05-OCT-99	EP-104L	SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	32	ppm	LCS	11-NOV-99		EDXRF
			AS	20	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	49	ppm	LCS	11-NOV-99		EDXRF
			FE	3.3	%	LCS	11-NOV-99		EDXRF
			PB	24	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	36	ppm	LCS	11-NOV-99		EDXRF
L991783-005	05-OCT-99	EP-104M	AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<80	ppm	LCS	11-NOV-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991783

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991783-005	05-OCT-99	EP-104M	CU	53	ppm	LCS	11-NOV-99		EDXRF
			FE	2.4	%	LCS	11-NOV-99		EDXRF
			PB	42	ppm	LCS	11-NOV-99		EDXRF
			SE	10	ppm	LCS	11-NOV-99		EDXRF
			ZN	35	ppm	LCS	11-NOV-99		EDXRF
L991783-006	06-OCT-99	EP-104N	AS	16	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	69	ppm	LCS	11-NOV-99		EDXRF
			FE	2.7	%	LCS	11-NOV-99		EDXRF
L991783-007	06-OCT-99	EP-104N2	PB	44	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	50	ppm	LCS	11-NOV-99		EDXRF
			AS	13	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
L991783-008	06-OCT-99	EP-104O	CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	21	ppm	LCS	11-NOV-99		EDXRF
			FE	2.6	%	LCS	11-NOV-99		EDXRF
			PB	41	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
L991783-009	06-OCT-99	EP-104P	ZN	56	ppm	LCS	11-NOV-99		EDXRF
			AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	33	ppm	LCS	11-NOV-99		EDXRF
L991783-009	06-OCT-99	EP-104P	FE	2.2	%	LCS	11-NOV-99		EDXRF
			PB	46	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	25	ppm	LCS	11-NOV-99		EDXRF
			AS	<10	ppm	LCS	11-NOV-99		EDXRF
L991783-009	06-OCT-99	EP-104P	CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	1.8	%	LCS	11-NOV-99		EDXRF
			PB	37	ppm	LCS	11-NOV-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER


ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991783

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991783-009	06-OCT-99	EP-104P	SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	32	ppm	LCS	11-NOV-99		EDXRF

  
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## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991784-001	30-SEP-99	EPI02A	AS	4100	ppm	LCS	11-NOV-99		EDXRF
			CD	3500	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	3900	ppm	LCS	11-NOV-99		EDXRF
			FE	2.3	%	LCS	11-NOV-99		EDXRF
			PB	27000	ppm	LCS	11-NOV-99		EDXRF
			SE	380	ppm	LCS	11-NOV-99		EDXRF
			ZN	5000	ppm	LCS	11-NOV-99		EDXRF
			AS	6300	ppm	LCS	11-NOV-99		EDXRF
			CD	7100	ppm	LCS	11-NOV-99		EDXRF
L991784-002	30-SEP-99	EPI02B	CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	8100	ppm	LCS	11-NOV-99		EDXRF
			FE	3.1	%	LCS	11-NOV-99		EDXRF
			PB	34000	ppm	LCS	11-NOV-99		EDXRF
			SE	390	ppm	LCS	11-NOV-99		EDXRF
			ZN	13000	ppm	LCS	11-NOV-99		EDXRF
			AS	7700	ppm	LCS	11-NOV-99		EDXRF
			CD	6000	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	8900	ppm	LCS	11-NOV-99		EDXRF
L991784-003	30-SEP-99	EPI02C	FE	3.1	%	LCS	11-NOV-99		EDXRF
			PB	41000	ppm	LCS	11-NOV-99		EDXRF
			SE	340	ppm	LCS	11-NOV-99		EDXRF
			ZN	12000	ppm	LCS	11-NOV-99		EDXRF
			AS	8000	ppm	LCS	11-NOV-99		EDXRF
			CD	3900	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	11000	ppm	LCS	11-NOV-99		EDXRF
			FE	3.4	%	LCS	11-NOV-99		EDXRF
			PB	40000	ppm	LCS	11-NOV-99		EDXRF
L991784-004	30-SEP-99	EPI02D	SE	380	ppm	LCS	11-NOV-99		EDXRF
			ZN	13000	ppm	LCS	11-NOV-99		EDXRF
			AS	8000	ppm	LCS	11-NOV-99		EDXRF
			CD	3900	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	11000	ppm	LCS	11-NOV-99		EDXRF
			FE	3.4	%	LCS	11-NOV-99		EDXRF
			PB	40000	ppm	LCS	11-NOV-99		EDXRF
			SE	380	ppm	LCS	11-NOV-99		EDXRF
			ZN	13000	ppm	LCS	11-NOV-99		EDXRF
L991784-005	30-SEP-99	EPI02E	AS	950	ppm	LCS	11-NOV-99		EDXRF
			CD	11000	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L991784-005	30-SEP-99	EP102E	CU	6000	ppm	LCS	11-NOV-99	EDXRF
			FE	1.4	%	LCS	11-NOV-99	EDXRF
			PB	8700	ppm	LCS	11-NOV-99	EDXRF
			SE	120	ppm	LCS	11-NOV-99	EDXRF
			ZN	14000	ppm	LCS	11-NOV-99	EDXRF
L991784-006	30-SEP-99	EP102F	AS	130	ppm	LCS	11-NOV-99	EDXRF
			CD	2100	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	1100	ppm	LCS	11-NOV-99	EDXRF
			FE	1.9	%	LCS	11-NOV-99	EDXRF
			PB	200	ppm	LCS	11-NOV-99	EDXRF
			SE	20	ppm	LCS	11-NOV-99	EDXRF
			ZN	1500	ppm	LCS	11-NOV-99	EDXRF
L991784-007	30-SEP-99	EP102G	AS	48	ppm	LCS	11-NOV-99	EDXRF
			CD	940	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	37	ppm	LCS	11-NOV-99	EDXRF
			FE	1.7	%	LCS	11-NOV-99	EDXRF
			PB	130	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	750	ppm	LCS	11-NOV-99	EDXRF
L991784-008	30-SEP-99	EP102G2	AS	34	ppm	LCS	11-NOV-99	EDXRF
			CD	720	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	<20	ppm	LCS	11-NOV-99	EDXRF
			FE	1.7	%	LCS	11-NOV-99	EDXRF
			PB	88	ppm	LCS	11-NOV-99	EDXRF
			SE	<10	ppm	LCS	11-NOV-99	EDXRF
			ZN	620	ppm	LCS	11-NOV-99	EDXRF
L991784-009	30-SEP-99	EP102H	AS	56	ppm	LCS	11-NOV-99	EDXRF
			CD	1500	ppm	LCS	11-NOV-99	EDXRF
			CR	<80	ppm	LCS	11-NOV-99	EDXRF
			CU	<20	ppm	LCS	11-NOV-99	EDXRF
			FE	2.9	%	LCS	11-NOV-99	EDXRF
			PB	57	ppm	LCS	11-NOV-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L991784-009	30-SEP-99	EP102H	SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	620	ppm	LCS	11-NOV-99		EDXRF
L991784-010	30-SEP-99	EP102I	AS	52	ppm	LCS	11-NOV-99		EDXRF
			CD	190	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	3.0	%	LCS	11-NOV-99		EDXRF
			PB	63	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	530	ppm	LCS	11-NOV-99		EDXRF
L991784-011	30-SEP-99	EP102J	AS	50	ppm	LCS	11-NOV-99		EDXRF
			CD	340	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	3.2	%	LCS	11-NOV-99		EDXRF
			PB	54	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	540	ppm	LCS	11-NOV-99		EDXRF
L991784-012	30-SEP-99	EP102K	AS	36	ppm	LCS	11-NOV-99		EDXRF
			CD	28	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	22	ppm	LCS	11-NOV-99		EDXRF
			FE	2.3	%	LCS	11-NOV-99		EDXRF
			PB	77	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	290	ppm	LCS	11-NOV-99		EDXRF
L991784-013	30-SEP-99	EP102L	AS	31	ppm	LCS	11-NOV-99		EDXRF
			CD	14	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	34	ppm	LCS	11-NOV-99		EDXRF
			FE	2.7	%	LCS	11-NOV-99		EDXRF
			PB	57	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	81	ppm	LCS	11-NOV-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER  
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991784-014	30-SEP-99	EP102M	AS	38	ppm	LCS	11-NOV-99		EDXRF
			CD	15	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.5	%	LCS	11-NOV-99		EDXRF
			PB	61	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	34	ppm	LCS	11-NOV-99		EDXRF
L991784-015	30-SEP-99	EP102N	AS	27	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.4	%	LCS	11-NOV-99		EDXRF
			PB	57	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	39	ppm	LCS	11-NOV-99		EDXRF
L991784-016	30-SEP-99	EP102N2	AS	35	ppm	LCS	11-NOV-99		EDXRF
			CD	10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.4	%	LCS	11-NOV-99		EDXRF
			PB	43	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	15	ppm	LCS	11-NOV-99		EDXRF
L991784-017	30-SEP-99	EP102O	AS	35	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	87	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2.8	%	LCS	11-NOV-99		EDXRF
			PB	50	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	28	ppm	LCS	11-NOV-99		EDXRF
L991784-018	04-OCT-99	EP102P	AS	IS	ppm	LCS	11-NOV-99		EDXRF
			CD	IS	ppm	LCS	11-NOV-99		EDXRF
			CR	IS	ppm	LCS	11-NOV-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


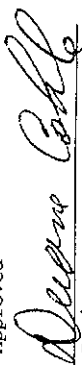
El Paso

Water and Solid Waste (Project 3220)

Batch No: L991784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991784-018	04-OCT-99	EP102P	CU	IS	ppm	LCS	11-NOV-99		EDXRF
			FE	IS	%	LCS	11-NOV-99		EDXRF
			PB	IS	ppm	LCS	11-NOV-99		EDXRF
			SE	IS	ppm	LCS	11-NOV-99		EDXRF
			ZN	IS	ppm	LCS	11-NOV-99		EDXRF
L991784-019	04-OCT-99	EP102Q	AS	<10	ppm	LCS	11-NOV-99		EDXRF
			CD	<10	ppm	LCS	11-NOV-99		EDXRF
			CR	<80	ppm	LCS	11-NOV-99		EDXRF
			CU	<20	ppm	LCS	11-NOV-99		EDXRF
			FE	2-6	%	LCS	11-NOV-99		EDXRF
			PB	34	ppm	LCS	11-NOV-99		EDXRF
			SE	<10	ppm	LCS	11-NOV-99		EDXRF
			ZN	42	ppm	LCS	11-NOV-99		EDXRF

IS- INSUFFICIENT SAMPLE

  
 Approved  
  
 Reviewer



# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS										REMARKS
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	
1035	ASARCOP El Paso, TX	1	Bcg										
12/15/98	0830			EP101A									
	0835			EP101B									
	0837			EP101C									
	0838			EP101D									
	0840			EP101E									
	0945			EP101F									
	0950			EP101G									
	1008			EP101H									
	1010			EP101A2									
	1015			EP101I									
	1125			EP101J									
	1130			EP101K									
	1320			EP101L									
	1322			EP 101 LD									
	1335			EP101M									
Relinquished (Signature)					Received by: (Signature)	Lab	P.O. #		Shipped via: Bus Fed Ex. UPS				
Date/Time					Date/Time	TSC		Other					
10/17/98 16:00						Salt Lake City, UT		Air Bill #					
Relinquished (Signature)					Received by: (Signature)	Remarks							
Date/Time					Date/Time								
Relinquished (Signature)					Received for Laboratory by: (Signature)	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits							
Date/Time					Date/Time	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter							
10/17/98 16:00						FAX RESULTS TO 915-532-4897							
10.8.98 1030						Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined							

Return results & electronic copy to:

HFORM-1-1

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS							REMARKS
1035		ASARCO-El Paso, TX			COMMONS UF/RAW	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER								
10/14/99	1520			EP 103 A							X	
	1525			EP 103 B							X	
	1510			EP 103 C							X	
	1517			EP 103 D							X	
	1520			EP 103 E							X	
	1600			EP 103 F							X	
	1602			EP 103 F2							X	
	1620			EP 103 G							X	
	1625			EP 103 H							X	
	1645			EP 103 I							X	
	1650			EP 103 J							X	
	1725			EP 103 K							X	
	1730			EP 103 L							X	
	1800			EP 103 M							X	
	1810			EP 103 N							X	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		
[Signature]		10/17/99 16:00		[Signature]		Salt Lake City, UT				Other		
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks						
[Signature]				[Signature]								
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits				
[Signature]				[Signature]				<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter				
						10.8.9.1030		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined				

HF0RM-1-... Return results & electronic copy to:

33275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

**Return results & electronic copy to:**

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO. PROJECT NAME		NO. OF CONTAINERS		REMARKS									
1035 PARCO - El Paso		1 BAG		ARF (As Bldg) EP 104 A, B, C, D, E, F, G, H, I, J, K, L, M, N									
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	TPH	REMARKS
10/5/99	1905			EP 104-A									
↓	1410			EP 104-B									
↓	1415			EP 104-C									
↓	0600			EP 104-D									
↓	0820			EP 104-E									
↓	0822			EP 104-F									
↓	0825			EP 104-G									
↓	0827			EP 104-H									
↓	0855			EP 104-I									
↓	0900			EP 104-J									
↓	0945			EP 104-K									
↓	1125			EP 104-L									
↓	1130			EP 104-M									
↓	1320			EP 104-N									

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other
Relinquished (Signature)	10/7/99 16:00	Received by: (Signature)	TSC		
Relinquished (Signature)		Received by: (Signature)	Salt Lake City UT		
Relinquished (Signature)		Received for Laboratory by: (Signature)	Remarks		
Relinquished (Signature)		10/8/99 10:30			

**THE UNIVERSITY OF CHICAGO**

100

[illegible]

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		ANALYSIS										REMARKS
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	TPH	XRF (As, Cd, Cu, Fe, Mn, Pb, Zn)	
1035	ASAZCO - El Paso, TX				1	34	6							
SAMPLERS: (Signature)														
9/20/97	10330			EP102 A										
10/7/97	10335			EP102 B										
	1040			EP102 C										
	1045			EP102 D										
	1050			EP102 E										
	1130			EP102 F										
	1135			EP102 G										
	1138			EP102 G2										
	1240			EP102 H										
	1245			EP102 I										
	1340			EP102 J										
	1345			EP102 K										
	1415			EP102 L										
	1420			EP102 M										
	1509			EP102 N										
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab TSC	P.O. #	Shipped via: Bus Fed Ex UPS						
Relinquished (Signature)				Date/Time	Received by: (Signature)	SALT LAKE CITY, UT		Other						
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Remarks		Air Bill #						
FAX RESULTS				Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter									
10.899				1030										

Return results & electronic copy to:

HF0RM-1-4

Split Samples:  
☐ Accepted ☐ Declined

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

# ASARCO

December 6, 1999

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

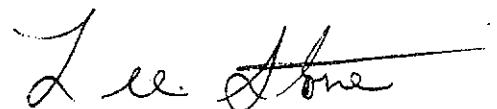
RECEIVED

DEC 08 1999

HYDROMETRICS, INC.

Please find attached the X-ray results for your El Paso soil sample collected from the 8<sup>th</sup> of September to the 20<sup>th</sup> of October. Also attached are the X-ray QC results.

If you have any questions pertaining to the data please feel free to call.



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)





**L991885, L991886, L991887, L991888, L991890**

**CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)**

As	% REC		Pb	% REC
604	86		8224	102
679	97		8183	102
663	95		8236	102
697	100		8286	103
590	84		8301	103
646	92		8256	102
646	92		8248	102
629	90		8416	104
776	111		8149	101
587	84		8286	103
723	103		8413	104

**LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)**

As	% REC		Pb	% REC
926	101		229	97
946	103		219	93
935	102		217	92
929	101		221	94
940	103		222	94
963	105		229	97

**DUPLICATES EVERY 20TH SAMPLE**

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991885-20	410	409	0	684	693	1
	Cd	Cd		Cr	Cr	
	59	48	21	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	19921	19839	0	8.4	8.3	1
	Se	Se		Zn	Zn	
	<10	<10	BDL	2984	2914	2

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991886-19	82	69	17	67	77	14
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	100	94	6	2.9	3	3
	Se	Se		Zn	Zn	
	<10	<10	BDL	173	151	14

LAB#

L991887-18

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	40	27	39
Cd	Cd		Cr	Cr	
10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
45	31	37	1.9	1.9	0
Se	Se		Zn	Zn	
<10	<10	BDL	24	13	59

LAB#

L991888-17

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	24	21	13
Cd	Cd		Cr	Cr	
11	13	17	<80	<80	BDL
Cu	Cu		Fe	Fe	
<20	<20	BDL	1.7	1.7	0
Se	Se		Zn	Zn	
<10	<10	BDL	18	20	11

LAB#

L991889-16

As	As	%DIFF	Pb	Pb	%DIFF
13	24	59	68	70	3
Cd	Cd		Cr	Cr	
<10	12	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
62	47	28	2.5	2.5	0
Se	Se		Zn	Zn	
<10	<10	BDL	89	83	7

LAB#

L991890-12

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	29	28	4
Cd	Cd		Cr	Cr	
<10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
53	<20	BDL	2.1	2.1	0
Se	Se		Zn	Zn	
<10	<10	BDL	15	19	24

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM

Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991885

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	HOLD	
L991885-001	08-SEP-99	EP-100-A	AS	850	ppm	LCS	01-DEC-99		EDXRF
			CD	360	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	2900	ppm	LCS	01-DEC-99		EDXRF
			FE	2.3	%	LCS	01-DEC-99		EDXRF
			PB	850	ppm	LCS	01-DEC-99		EDXRF
			SE	20	ppm	LCS	01-DEC-99		EDXRF
			ZN	3100	ppm	LCS	01-DEC-99		EDXRF
			AS	2300	ppm	LCS	01-DEC-99		EDXRF
			CD	310	ppm	LCS	01-DEC-99		EDXRF
L991885-002	08-SEP-99	EP-100-B	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	4600	ppm	LCS	01-DEC-99		EDXRF
			FE	2.7	%	LCS	01-DEC-99		EDXRF
			PB	610	ppm	LCS	01-DEC-99		EDXRF
			SE	28	ppm	LCS	01-DEC-99		EDXRF
			ZN	3600	ppm	LCS	01-DEC-99		EDXRF
			AS	720	ppm	LCS	01-DEC-99		EDXRF
			CD	210	ppm	LCS	01-DEC-99		EDXRF
			CR	92	ppm	LCS	01-DEC-99		EDXRF
			CU	11000	ppm	LCS	01-DEC-99		EDXRF
L991885-003	08-SEP-99	EP-100-C	FE	4.5	%	LCS	01-DEC-99		EDXRF
			PB	1900	ppm	LCS	01-DEC-99		EDXRF
			SE	19	ppm	LCS	01-DEC-99		EDXRF
			ZN	3300	ppm	LCS	01-DEC-99		EDXRF
			AS	280	ppm	LCS	01-DEC-99		EDXRF
			CD	410	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	7400	ppm	LCS	01-DEC-99		EDXRF
			FE	2.2	%	LCS	01-DEC-99		EDXRF
			PB	1900	ppm	LCS	01-DEC-99		EDXRF
L991885-004	08-SEP-99	EP-100-D	SE	22	ppm	LCS	01-DEC-99		EDXRF
			ZN	6900	ppm	LCS	01-DEC-99		EDXRF
			AS	280	ppm	LCS	01-DEC-99		EDXRF
			CD	410	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	7400	ppm	LCS	01-DEC-99		EDXRF
			FE	2.2	%	LCS	01-DEC-99		EDXRF
			PB	1900	ppm	LCS	01-DEC-99		EDXRF
			SE	22	ppm	LCS	01-DEC-99		EDXRF
			ZN	6900	ppm	LCS	01-DEC-99		EDXRF
L991885-005	08-SEP-99	EP-100-E	AS	76	ppm	LCS	01-DEC-99		EDXRF
			CD	33	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991885

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID DAYS METHOD
L991885-005	08-SEP-99	EP-100-E	CU	2100	ppm	LCS	01-DEC-99	EDXRF
			FE	1.8	%	LCS	01-DEC-99	EDXRF
			PB	680	ppm	LCS	01-DEC-99	EDXRF
			SE	11	ppm	LCS	01-DEC-99	EDXRF
			ZN	2400	ppm	LCS	01-DEC-99	EDXRF
			AS	290	ppm	LCS	01-DEC-99	EDXRF
L991885-006	08-SEP-99	EP-100-F	CD	61	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	2000	ppm	LCS	01-DEC-99	EDXRF
			FE	2.1	%	LCS	01-DEC-99	EDXRF
			PB	440	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
L991885-007	08-SEP-99	EP-100G	ZN	960	ppm	LCS	01-DEC-99	EDXRF
			AS	14	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	96	ppm	LCS	01-DEC-99	EDXRF
			CU	750	ppm	LCS	01-DEC-99	EDXRF
			FE	1.6	%	LCS	01-DEC-99	EDXRF
L991885-008	08-SEP-99	EP-100-H	PB	240	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	240	ppm	LCS	01-DEC-99	EDXRF
			AS	91	ppm	LCS	01-DEC-99	EDXRF
			CD	24	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
L991885-009	08-SEP-99	EP-100-H2	CU	2200	ppm	LCS	01-DEC-99	EDXRF
			FE	1.7	%	LCS	01-DEC-99	EDXRF
			PB	790	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	1400	ppm	LCS	01-DEC-99	EDXRF
			AS	63	ppm	LCS	01-DEC-99	EDXRF
			CD	53	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	1600	ppm	LCS	01-DEC-99	EDXRF
			FE	1.6	%	LCS	01-DEC-99	EDXRF
			PB	660	ppm	LCS	01-DEC-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991885

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	WTD	
L991885-009	08-SEP-99	EP-100-H2	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	1200	ppm	LCS	01-DEC-99		EDXRF
L991885-010	08-SEP-99	EP-100-I	AS	130	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	140	ppm	LCS	01-DEC-99		EDXRF
			FE	2.7	%	LCS	01-DEC-99		EDXRF
			PB	370	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	110	ppm	LCS	01-DEC-99		EDXRF
L991885-011	08-SEP-99	EP-100-J	AS	28	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	41	ppm	LCS	01-DEC-99		EDXRF
			FE	2.9	%	LCS	01-DEC-99		EDXRF
			PB	37	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	32	ppm	LCS	01-DEC-99		EDXRF
L991885-012	08-SEP-99	EP-100-K	AS	100	ppm	LCS	01-DEC-99		EDXRF
			CD	220	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	77	ppm	LCS	01-DEC-99		EDXRF
			FE	2.7	%	LCS	01-DEC-99		EDXRF
			PB	50	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	540	ppm	LCS	01-DEC-99		EDXRF
L991885-013	08-SEP-99	EP-100-L	AS	100	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	12	%	LCS	01-DEC-99		EDXRF
			PB	<10	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	64	ppm	LCS	01-DEC-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991885

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								DAYS	METHOD
L991885-014	08-SEP-99	EP-100-L2	AS	73	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	5.9	%	LCS	01-DEC-99		EDXRF
			PB	<10	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	38	ppm	LCS	01-DEC-99		EDXRF
L991885-015	08-SEP-99	EP-100-M	AS	110	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	35	ppm	LCS	01-DEC-99		EDXRF
			FE	11	%	LCS	01-DEC-99		EDXRF
			PB	<10	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	66	ppm	LCS	01-DEC-99		EDXRF
L991885-016	07-OCT-99	EP-105-A	AS	42	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	130	ppm	LCS	01-DEC-99		EDXRF
			FE	1.7	%	LCS	01-DEC-99		EDXRF
			PB	76	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	70	ppm	LCS	01-DEC-99		EDXRF
L991885-017	07-OCT-99	EP-105-B	AS	1600	ppm	LCS	01-DEC-99		EDXRF
			CD	600	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	16000	ppm	LCS	01-DEC-99		EDXRF
			FE	4.7	%	LCS	01-DEC-99		EDXRF
			PB	13000	ppm	LCS	01-DEC-99		EDXRF
			SE	120	ppm	LCS	01-DEC-99		EDXRF
			ZN	7400	ppm	LCS	01-DEC-99		EDXRF
L991885-018	07-OCT-99	EP-105-C	AS	2400	ppm	LCS	01-DEC-99		EDXRF
			CD	120	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991885

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	WOLD DAYS METHOD
L991885-018	07-OCT-99	EP-105-C	CU	17000	ppm	LCS	01-DEC-99	EDXRF
			FE	6.0	%	LCS	01-DEC-99	EDXRF
			PB	10000	ppm	LCS	01-DEC-99	EDXRF
			SE	72	ppm	LCS	01-DEC-99	EDXRF
			ZN	6400	ppm	LCS	01-DEC-99	EDXRF
L991885-019	07-OCT-99	EP-105-D	AS	1100	ppm	LCS	01-DEC-99	EDXRF
			CD	39	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	19000	ppm	LCS	01-DEC-99	EDXRF
			FE	5.0	%	LCS	01-DEC-99	EDXRF
L991885-020	07-OCT-99	EP-105-E	PB	1900	ppm	LCS	01-DEC-99	EDXRF
			SE	13	ppm	LCS	01-DEC-99	EDXRF
			ZN	5700	ppm	LCS	01-DEC-99	EDXRF
			AS	410	ppm	LCS	01-DEC-99	EDXRF
			CD	59	ppm	LCS	01-DEC-99	EDXRF
L991885-020	07-OCT-99	EP-105-E	CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	20000	ppm	LCS	01-DEC-99	EDXRF
			FE	8.4	%	LCS	01-DEC-99	EDXRF
			PB	680	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
L991885-020	07-OCT-99	EP-105-E	ZN	3000	ppm	LCS	01-DEC-99	EDXRF
			ZN	3000	ppm	LCS	01-DEC-99	EDXRF

  
Approved  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991886

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	METHOD
L991886-001	07-OCT-99	EP-105-E2	AS	470	ppm	LCS	01-DEC-99		EDXRF
			CD	40	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	21000	ppm	LCS	01-DEC-99		EDXRF
			FE	6.3	%	LCS	01-DEC-99		EDXRF
			PB	910	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	3700	ppm	LCS	01-DEC-99		EDXRF
			AS	170	ppm	LCS	01-DEC-99		EDXRF
			CD	17	ppm	LCS	01-DEC-99		EDXRF
L991886-002	07-OCT-99	EP-105-F	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	2200	ppm	LCS	01-DEC-99		EDXRF
			FE	5.3	%	LCS	01-DEC-99		EDXRF
			PB	480	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	320	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	120	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
L991886-003	07-OCT-99	EP-105-G	FE	0.99	%	LCS	01-DEC-99		EDXRF
			PB	130	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	35	ppm	LCS	01-DEC-99		EDXRF
			AS	11	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	86	ppm	LCS	01-DEC-99		EDXRF
			FE	2.3	%	LCS	01-DEC-99		EDXRF
			PB	55	ppm	LCS	01-DEC-99		EDXRF
L991886-004	07-OCT-99	EP-105-H	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	40	ppm	LCS	01-DEC-99		EDXRF
			AS	14	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			AS	170	ppm	LCS	01-DEC-99		EDXRF
			CD	17	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	2200	ppm	LCS	01-DEC-99		EDXRF
			FE	5.3	%	LCS	01-DEC-99		EDXRF
L991886-005	07-OCT-99	EP-105-I	PB	480	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	320	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	120	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	0.99	%	LCS	01-DEC-99		EDXRF
			PB	130	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991886

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991886-005	07-OCT-99	EP-105-I	CU	31	ppm	LCS	01-DEC-99		EDXRF
			FE	2.7	%	LCS	01-DEC-99		EDXRF
			PB	48	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	53	ppm	LCS	01-DEC-99		EDXRF
L991886-006	07-OCT-99	EP-105-J	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	33	ppm	LCS	01-DEC-99		EDXRF
			FE	2.6	%	LCS	01-DEC-99		EDXRF
L991886-007	07-OCT-99	EP-105-K	PB	47	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	37	ppm	LCS	01-DEC-99		EDXRF
			AS	13	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991886-008	07-OCT-99	EP-105-L	CR	80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.4	%	LCS	01-DEC-99		EDXRF
			PB	51	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
L991886-009	07-OCT-99	EP-105-M	ZN	60	ppm	LCS	01-DEC-99		EDXRF
			AS	17	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	68	ppm	LCS	01-DEC-99		EDXRF
L991886-009	07-OCT-99	EP-105-M	FE	2.3	%	LCS	01-DEC-99		EDXRF
			PB	39	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	31	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
L991886-009	07-OCT-99	EP-105-M	CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	47	ppm	LCS	01-DEC-99		EDXRF
			FE	2.3	%	LCS	01-DEC-99		EDXRF
			PB	42	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991886

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991886-009	07-OCT-99	EP-105-M	SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	33	ppm	LCS	01-DEC-99	EDXRF
L991886-010	08-OCT-99	EP-105-N	AS	21	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	29	ppm	LCS	01-DEC-99	EDXRF
			FE	3.0	%	LCS	01-DEC-99	EDXRF
			PB	40	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	47	ppm	LCS	01-DEC-99	EDXRF
L991886-011	07-OCT-99	EP-105-N2	AS	17	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	<20	ppm	LCS	01-DEC-99	EDXRF
			FE	3.0	%	LCS	01-DEC-99	EDXRF
			PB	33	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	63	ppm	LCS	01-DEC-99	EDXRF
L991886-012	07-OCT-99	EP-105-O	AS	<10	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	34	ppm	LCS	01-DEC-99	EDXRF
			FE	2.0	%	LCS	01-DEC-99	EDXRF
			PB	47	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	33	ppm	LCS	01-DEC-99	EDXRF
L991886-013	07-OCT-99	EP-105-P	AS	<10	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	92	ppm	LCS	01-DEC-99	EDXRF
			CU	<20	ppm	LCS	01-DEC-99	EDXRF
			FE	1.6	%	LCS	01-DEC-99	EDXRF
			PB	40	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	36	ppm	LCS	01-DEC-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991886

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991886-014	07-OCT-99	EP-105-Q	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.6	%	LCS	01-DEC-99		EDXRF
			PB	46	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	14	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991886-015	04-OCT-99	EP-103-Q	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.6	%	LCS	01-DEC-99		EDXRF
			PB	41	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	52	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	31	ppm	LCS	01-DEC-99		EDXRF
L991886-016	04-OCT-99	EP-103-P	FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	36	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	42	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	31	ppm	LCS	01-DEC-99		EDXRF
			FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	36	ppm	LCS	01-DEC-99		EDXRF
L991886-017	06-OCT-99	EP-104-Q	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	42	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.9	%	LCS	01-DEC-99		EDXRF
			PB	39	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	25	ppm	LCS	01-DEC-99		EDXRF
L991886-018	14-OCT-99	EP-108-A	AS	19	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER


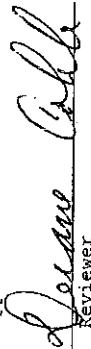
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991886

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	NOTE
L991886-018	14-OCT-99	EP-108-A	CU	68	ppm	LCS	01-DEC-99	EDXRF
			FE	1.6	%	LCS	01-DEC-99	EDXRF
			PB	41	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	35	ppm	LCS	01-DEC-99	EDXRF
L991886-019	14-OCT-99	EP-108-B	AS	82	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	100	ppm	LCS	01-DEC-99	EDXRF
			FE	2.9	%	LCS	01-DEC-99	EDXRF
			PB	67	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	170	ppm	LCS	01-DEC-99	EDXRF

  
 Approved  
  
 Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991887

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991887-001	11-OCT-99	EP-107-A	AS	69	ppm	LCS	01-DEC-99		EDXRF
			CD	15	ppm	LCS	01-DEC-99		EDXRF
			CR	100	ppm	LCS	01-DEC-99		EDXRF
			CU	330	ppm	LCS	01-DEC-99		EDXRF
			FE	1.5	%	LCS	01-DEC-99		EDXRF
			PB	150	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	140	ppm	LCS	01-DEC-99		EDXRF
			AS	22	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991887-002	11-OCT-99	EP-107-B	CR	92	ppm	LCS	01-DEC-99		EDXRF
			CU	30	ppm	LCS	01-DEC-99		EDXRF
			FE	1.3	%	LCS	01-DEC-99		EDXRF
			PB	43	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	52	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	28	ppm	LCS	01-DEC-99		EDXRF
L991887-003	11-OCT-99	EP-107-C	FE	1.4	%	LCS	01-DEC-99		EDXRF
			PB	51	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	13	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	28	ppm	LCS	01-DEC-99		EDXRF
			FE	1.4	%	LCS	01-DEC-99		EDXRF
			PB	51	ppm	LCS	01-DEC-99		EDXRF
L991887-004	11-OCT-99	EP-107-D	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	13	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	12	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	41	ppm	LCS	01-DEC-99		EDXRF
			FE	1.7	%	LCS	01-DEC-99		EDXRF
			PB	80	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	34	ppm	LCS	01-DEC-99		EDXRF
L991887-005	11-OCT-99	EP-107-E	AS	31	ppm	LCS	01-DEC-99		EDXRF
			CD	29	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991887

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991887-005	11-OCT-99	EP-107-E	CU	710	ppm	LCS	01-DEC-99		EDXRF
			FE	1.8	%	LCS	01-DEC-99		EDXRF
			PB	500	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	310	ppm	LCS	01-DEC-99		EDXRF
			AS	77	ppm	LCS	01-DEC-99		EDXRF
L991887-006	11-OCT-99	EP-107-F	CD	13	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	39	ppm	LCS	01-DEC-99		EDXRF
			FE	1.9	%	LCS	01-DEC-99		EDXRF
			PB	67	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
L991887-007	11-OCT-99	EP-107-F2	ZN	55	ppm	LCS	01-DEC-99		EDXRF
			AS	63	ppm	LCS	01-DEC-99		EDXRF
			CD	12	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	35	ppm	LCS	01-DEC-99		EDXRF
			FE	1.9	%	LCS	01-DEC-99		EDXRF
L991887-008	11-OCT-99	EP-107-G	PB	85	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	100	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
L991887-009	11-OCT-99	EP-107-H	CU	25	ppm	LCS	01-DEC-99		EDXRF
			FE	1.3	%	LCS	01-DEC-99		EDXRF
			PB	54	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	18	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
L991887-009	11-OCT-99	EP-107-H	CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	81	ppm	LCS	01-DEC-99		EDXRF
			FE	1.2	%	LCS	01-DEC-99		EDXRF
			PB	71	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991887

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991887-009	11-OCT-99	EP-107-H	SE	10	ppm	LCS	01-DEC-99		EDXRF
			ZN	28	ppm	LCS	01-DEC-99		EDXRF
L991887-010	11-OCT-99	EP-107-I	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.1	%	LCS	01-DEC-99		EDXRF
			PB	68	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	18	ppm	LCS	01-DEC-99		EDXRF
L991887-011	11-OCT-99	EP-107-J	AS	11	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.1	%	LCS	01-DEC-99		EDXRF
			PB	49	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	42	ppm	LCS	01-DEC-99		EDXRF
L991887-012	11-OCT-99	EP-107-K	AS	14	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	32	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	30	ppm	LCS	01-DEC-99		EDXRF
L991887-013	11-OCT-99	EP-107-K2	AS	17	ppm	LCS	01-DEC-99		EDXRF
			CD	14	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	37	ppm	LCS	01-DEC-99		EDXRF
			FE	2.7	%	LCS	01-DEC-99		EDXRF
			PB	37	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	42	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991887

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L991887-014	11-OCT-99	EP-107-L	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	11	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.4	%	LCS	01-DEC-99		EDXRF
			PB	44	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	43	ppm	LCS	01-DEC-99		EDXRF
L991887-015	11-OCT-99	EP-107-M	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	23	ppm	LCS	01-DEC-99		EDXRF
			FE	1.8	%	LCS	01-DEC-99		EDXRF
			PB	41	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	40	ppm	LCS	01-DEC-99		EDXRF
L991887-016	11-OCT-99	EP-107-N	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	33	ppm	LCS	01-DEC-99		EDXRF
			FE	1.4	%	LCS	01-DEC-99		EDXRF
			PB	44	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	11	ppm	LCS	01-DEC-99		EDXRF
L991887-017	12-OCT-99	EP-107-O	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	28	ppm	LCS	01-DEC-99		EDXRF
			FE	1.8	%	LCS	01-DEC-99		EDXRF
			PB	26	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	31	ppm	LCS	01-DEC-99		EDXRF
L991887-018	12-OCT-99	EP-107-P	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	11	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF

ASARCO TECHNICAL SERVICES CENTER


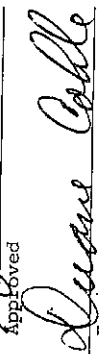
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991887

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991887-018	12-OCT-99	EP-107-P	CU	45	ppm	LCS	01-DEC-99		EDXRF
			FE	1.9	%	LCS	01-DEC-99		EDXRF
			PB	40	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	24	ppm	LCS	01-DEC-99		EDXRF

 Approved  
 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991888

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE METHOD
L991888-001	16-OCT-99	EP-106-A	AS	270	ppm	LCS	01-DEC-99	EDXRF
			CD	82	ppm	LCS	01-DEC-99	EDXRF
			CR	85	ppm	LCS	01-DEC-99	EDXRF
			CU	3700	ppm	LCS	01-DEC-99	EDXRF
			FE	2.4	%	LCS	01-DEC-99	EDXRF
			PB	2800	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	1800	ppm	LCS	01-DEC-99	EDXRF
			AS	75	ppm	LCS	01-DEC-99	EDXRF
			CD	26	ppm	LCS	01-DEC-99	EDXRF
L991888-002	16-OCT-99	EP-106-B	CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	930	ppm	LCS	01-DEC-99	EDXRF
			FE	2.6	%	LCS	01-DEC-99	EDXRF
			PB	720	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	370	ppm	LCS	01-DEC-99	EDXRF
			AS	54	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	450	ppm	LCS	01-DEC-99	EDXRF
L991888-003	16-OCT-99	EP-106-C	FE	2.3	%	LCS	01-DEC-99	EDXRF
			PB	470	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	250	ppm	LCS	01-DEC-99	EDXRF
			AS	92	ppm	LCS	01-DEC-99	EDXRF
			CD	28	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	520	ppm	LCS	01-DEC-99	EDXRF
			FE	2.2	%	LCS	01-DEC-99	EDXRF
			PB	590	ppm	LCS	01-DEC-99	EDXRF
L991888-004	16-OCT-99	EP-106-D	SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	370	ppm	LCS	01-DEC-99	EDXRF
			AS	380	ppm	LCS	01-DEC-99	EDXRF
			CD	130	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			AS	380	ppm	LCS	01-DEC-99	EDXRF
			CD	130	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			AS	380	ppm	LCS	01-DEC-99	EDXRF
			CD	130	ppm	LCS	01-DEC-99	EDXRF
L991888-005	16-OCT-99	EP-106-E	CR	<80	ppm	LCS	01-DEC-99	EDXRF
			AS	380	ppm	LCS	01-DEC-99	EDXRF
			CD	130	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			AS	380	ppm	LCS	01-DEC-99	EDXRF
			CD	130	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			AS	380	ppm	LCS	01-DEC-99	EDXRF
			CD	130	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991888

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991888-005	16-OCT-99	EP-106-E	CU	320	ppm	LCS	01-DEC-99		EDXRF
			FE	2.2	%	LCS	01-DEC-99		EDXRF
			PB	490	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	920	ppm	LCS	01-DEC-99		EDXRF
L991888-006	16-OCT-99	EP-106-F	AS	23	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	27	ppm	LCS	01-DEC-99		EDXRF
			FE	2.3	%	LCS	01-DEC-99		EDXRF
L991888-007	16-OCT-99	EP-106-F2	PB	57	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	31	ppm	LCS	01-DEC-99		EDXRF
			AS	13	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991888-008	16-OCT-99	EP-106-G	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	80	ppm	LCS	01-DEC-99		EDXRF
			FE	2.3	%	LCS	01-DEC-99		EDXRF
			PB	48	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
L991888-009	16-OCT-99	EP-106-H	ZN	49	ppm	LCS	01-DEC-99		EDXRF
			AS	21	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	23	ppm	LCS	01-DEC-99		EDXRF
L991888-009	16-OCT-99	EP-106-H	FE	2.9	%	LCS	01-DEC-99		EDXRF
			PB	34	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	40	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
L991888-009	16-OCT-99	EP-106-H	CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	39	ppm	LCS	01-DEC-99		EDXRF
			FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	43	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991888

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991888-009	16-OCT-99	EP-106-H	SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	59	ppm	LCS	01-DEC-99	EDXRF
L991888-010	16-OCT-99	EP-106-I	AS	<10	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	28	ppm	LCS	01-DEC-99	EDXRF
			FE	2.2	%	LCS	01-DEC-99	EDXRF
			PB	48	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	31	ppm	LCS	01-DEC-99	EDXRF
L991888-011	16-OCT-99	EP-106-J	AS	24	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	36	ppm	LCS	01-DEC-99	EDXRF
			FE	3.3	%	LCS	01-DEC-99	EDXRF
			PB	27	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	53	ppm	LCS	01-DEC-99	EDXRF
L991888-012	16-OCT-99	EP-106-K	AS	17	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	46	ppm	LCS	01-DEC-99	EDXRF
			FE	2.5	%	LCS	01-DEC-99	EDXRF
			PB	38	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	46	ppm	LCS	01-DEC-99	EDXRF
L991888-013	16-OCT-99	EP-106-L	AS	22	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	<20	ppm	LCS	01-DEC-99	EDXRF
			FE	2.9	%	LCS	01-DEC-99	EDXRF
			PB	27	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	29	ppm	LCS	01-DEC-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991888

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991888-014	16-OCT-99	EP-106-M	AS	25	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	3.0	%	LCS	01-DEC-99		EDXRF
			PB	25	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	27	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991888-015	16-OCT-99	EP-106-N	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.1	%	LCS	01-DEC-99		EDXRF
			PB	32	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	26	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	11	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
L991888-016	16-OCT-99	EP-106-O	FE	1.7	%	LCS	01-DEC-99		EDXRF
			PB	25	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	10	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	12	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.7	%	LCS	01-DEC-99		EDXRF
			PB	24	ppm	LCS	01-DEC-99		EDXRF
L991888-017	16-OCT-99	EP-106O2	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	18	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	12	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.7	%	LCS	01-DEC-99		EDXRF
			PB	24	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	18	ppm	LCS	01-DEC-99		EDXRF



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991888

LAB NO	DATE		DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
	COLLECTED	DESTINATION							

*[Signature]*  
Approved

*[Signature]*  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991889

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991889-001	15-OCT-99	EP-109-A	AS	380	ppm	LCS	01-DEC-99	EDXRF
			CD	59	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	2700	ppm	LCS	01-DEC-99	EDXRF
			FE	7.7	%	LCS	01-DEC-99	EDXRF
			PB	2000	ppm	LCS	01-DEC-99	EDXRF
			SE	13	ppm	LCS	01-DEC-99	EDXRF
			ZN	4500	ppm	LCS	01-DEC-99	EDXRF
L991889-002	15-OCT-99	EP-109-B	AS	320	ppm	LCS	01-DEC-99	EDXRF
			CD	36	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	1900	ppm	LCS	01-DEC-99	EDXRF
			FE	8.8	%	LCS	01-DEC-99	EDXRF
			PB	1900	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	5000	ppm	LCS	01-DEC-99	EDXRF
L991889-003	15-OCT-99	EP-109-C	AS	440	ppm	LCS	01-DEC-99	EDXRF
			CD	25	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	2800	ppm	LCS	01-DEC-99	EDXRF
			FE	11	%	LCS	01-DEC-99	EDXRF
			PB	3600	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	8700	ppm	LCS	01-DEC-99	EDXRF
L991889-004	15-OCT-99	EP-109-D	AS	680	ppm	LCS	01-DEC-99	EDXRF
			CD	30	ppm	LCS	01-DEC-99	EDXRF
			CR	90	ppm	LCS	01-DEC-99	EDXRF
			CU	3700	ppm	LCS	01-DEC-99	EDXRF
			FE	14	%	LCS	01-DEC-99	EDXRF
			PB	5000	ppm	LCS	01-DEC-99	EDXRF
			SE	10	ppm	LCS	01-DEC-99	EDXRF
			ZN	13000	ppm	LCS	01-DEC-99	EDXRF
L991889-005	15-OCT-99	EP-109-E	AS	460	ppm	LCS	01-DEC-99	EDXRF
			CD	32	ppm	LCS	01-DEC-99	EDXRF
			CR	94	ppm	LCS	01-DEC-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991889

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991889-005	15-OCT-99	EP-109-E	CU	3000	ppm	LCS	01-DEC-99	EDXRF
			FE	11	%	LCS	01-DEC-99	EDXRF
			PB	4000	ppm	LCS	01-DEC-99	EDXRF
			SE	10	ppm	LCS	01-DEC-99	EDXRF
			ZN	9700	ppm	LCS	01-DEC-99	EDXRF
L991889-006	15-OCT-99	EP-109-F	AS	14	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	230	ppm	LCS	01-DEC-99	EDXRF
			FE	2.1	%	LCS	01-DEC-99	EDXRF
			PB	310	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	150	ppm	LCS	01-DEC-99	EDXRF
L991889-007	15-OCT-99	EP-109-G	AS	<10	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	<20	ppm	LCS	01-DEC-99	EDXRF
			FE	1.9	%	LCS	01-DEC-99	EDXRF
			PB	33	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	18	ppm	LCS	01-DEC-99	EDXRF
L991889-008	15-OCT-99	EP-109-H	AS	<10	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	91	ppm	LCS	01-DEC-99	EDXRF
			CU	<20	ppm	LCS	01-DEC-99	EDXRF
			FE	1.5	%	LCS	01-DEC-99	EDXRF
			PB	43	ppm	LCS	01-DEC-99	EDXRF
			SE	<10	ppm	LCS	01-DEC-99	EDXRF
			ZN	33	ppm	LCS	01-DEC-99	EDXRF
L991889-009	15-OCT-99	EP-109-H2	AS	<10	ppm	LCS	01-DEC-99	EDXRF
			CD	<10	ppm	LCS	01-DEC-99	EDXRF
			CR	<80	ppm	LCS	01-DEC-99	EDXRF
			CU	39	ppm	LCS	01-DEC-99	EDXRF
			FE	1.4	%	LCS	01-DEC-99	EDXRF
			PB	38	ppm	LCS	01-DEC-99	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991889

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991889-009	15-OCT-99	EP-109-H2	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	10	ppm	LCS	01-DEC-99		EDXRF
L991889-010	18-OCT-99	EP-110-A	AS	490	ppm	LCS	01-DEC-99		EDXRF
			CD	100	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	11000	ppm	LCS	01-DEC-99		EDXRF
			FE	4.0	%	LCS	01-DEC-99		EDXRF
			PB	3000	ppm	LCS	01-DEC-99		EDXRF
			SE	14	ppm	LCS	01-DEC-99		EDXRF
			ZN	2800	ppm	LCS	01-DEC-99		EDXRF
L991889-011	18-OCT-99	EP-110-B	AS	190	ppm	LCS	01-DEC-99		EDXRF
			CD	67	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	2300	ppm	LCS	01-DEC-99		EDXRF
			FE	2.9	%	LCS	01-DEC-99		EDXRF
			PB	3100	ppm	LCS	01-DEC-99		EDXRF
			SE	17	ppm	LCS	01-DEC-99		EDXRF
			ZN	2400	ppm	LCS	01-DEC-99		EDXRF
L991889-012	18-OCT-99	EP-110-C	AS	72	ppm	LCS	01-DEC-99		EDXRF
			CD	25	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	110	ppm	LCS	01-DEC-99		EDXRF
			FE	2.2	%	LCS	01-DEC-99		EDXRF
			PB	210	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	170	ppm	LCS	01-DEC-99		EDXRF
L991889-013	18-OCT-99	EP-110-D	AS	71	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	30	ppm	LCS	01-DEC-99		EDXRF
			FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	60	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	46	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

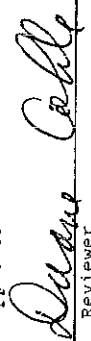
El Paso

Water and Solid Waste (Project 3220)

Batch No: L991889

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	DATA METHOD
L991889-014	18-OCT-99	EP-110-E	AS	51	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	25	ppm	LCS	01-DEC-99		EDXRF
			FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	43	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	35	ppm	LCS	01-DEC-99		EDXRF
			AS	11	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991889-015	18-OCT-99	EP-110-F	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	91	ppm	LCS	01-DEC-99		EDXRF
			FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	84	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	120	ppm	LCS	01-DEC-99		EDXRF
			AS	12	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	62	ppm	LCS	01-DEC-99		EDXRF
L991889-016	18-OCT-99	EP-110-F2	FE	2.5	%	LCS	01-DEC-99		EDXRF
			PB	68	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	89	ppm	LCS	01-DEC-99		EDXRF
			AS	12	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF

Approved

  
Duane Cable  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991890

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991890-001	18-OCT-99	EP-95-A	AS	26	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	290	ppm	LCS	01-DEC-99		EDXRF
			FE	2.3	%	LCS	01-DEC-99		EDXRF
			PB	250	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	260	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991890-002	18-OCT-99	EP-95-B	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	79	ppm	LCS	01-DEC-99		EDXRF
			FE	2.0	%	LCS	01-DEC-99		EDXRF
			PB	130	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	98	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
L991890-003	18-OCT-99	EP-95-C	FE	2.2	%	LCS	01-DEC-99		EDXRF
			PB	68	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	50	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.2	%	LCS	01-DEC-99		EDXRF
			PB	68	ppm	LCS	01-DEC-99		EDXRF
L991890-004	18-OCT-99	EP-95-D	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	50	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.8	%	LCS	01-DEC-99		EDXRF
			PB	87	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	25	ppm	LCS	01-DEC-99		EDXRF
L991890-005	18-OCT-99	EP-95-E	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			ZN	25	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991890

LAR NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991890-005	18-OCT-99	EP-95-E	CU	94	ppm	LCS	01-DEC-99		EDXRF
			FE	1.9	%	LCS	01-DEC-99		EDXRF
			PB	110	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	61	ppm	LCS	01-DEC-99		EDXRF
L991890-006	18-OCT-99	EP-95-F	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.3	%	LCS	01-DEC-99		EDXRF
L991890-007	18-OCT-99	EP-95-F2	PB	48	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	<10	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
L991890-008	18-OCT-99	EP-95-G	CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	31	ppm	LCS	01-DEC-99		EDXRF
			FE	1.4	%	LCS	01-DEC-99		EDXRF
			PB	50	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
L991890-009	18-OCT-99	EP-95-H	ZN	29	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
L991890-009	18-OCT-99	EP-95-H	FE	1.1	%	LCS	01-DEC-99		EDXRF
			PB	40	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	<10	ppm	LCS	01-DEC-99		EDXRF
			AS	<10	ppm	LCS	01-DEC-99		EDXRF
L991890-009	18-OCT-99	EP-95-H	CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	21	ppm	LCS	01-DEC-99		EDXRF
			FE	0.57	%	LCS	01-DEC-99		EDXRF
			PB	39	ppm	LCS	01-DEC-99		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991890

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991890-009	18-OCT-99	EP-95-H	SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	<10	ppm	LCS	01-DEC-99		EDXRF
L991890-010	18-OCT-99	EP-95-I	AS	16	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.4	%	LCS	01-DEC-99		EDXRF
			PB	39	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	43	ppm	LCS	01-DEC-99		EDXRF
L991890-011	20-OCT-99	EP-95-J	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	1.8	%	LCS	01-DEC-99		EDXRF
			PB	30	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	35	ppm	LCS	01-DEC-99		EDXRF
L991890-012	20-OCT-99	EP-95-K	AS	<10	ppm	LCS	01-DEC-99		EDXRF
			CD	<10	ppm	LCS	01-DEC-99		EDXRF
			CR	<80	ppm	LCS	01-DEC-99		EDXRF
			CU	<20	ppm	LCS	01-DEC-99		EDXRF
			FE	2.1	%	LCS	01-DEC-99		EDXRF
			PB	39	ppm	LCS	01-DEC-99		EDXRF
			SE	<10	ppm	LCS	01-DEC-99		EDXRF
			ZN	15	ppm	LCS	01-DEC-99		EDXRF

Approved

  
Reviewer



# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS										REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Se, Zn)	
1035	ASARCO - EL PASO, TX	1 BAG												
9/8/99	1100			EP-100-A									X	
	1104			EP-100-B									X	
	1106			EP-100-C									X	
	1108			EP-100-D									X	
	1110			EP-100-E									X	
	1115			EP-100-F									X	
	1118			EP-100-G									X	
	1120			EP-100-H									X	
	1124			EP-100-I									X	
	1325			EP-100-J									X	
	1330			EP-100-K									X	
	1347			EP-100-M									X	
	1340			EP-100-L									X	
	1342			EP-100-L2									X	
	1119			EP-100-H									X	
Relinquished (Signature)					Received by: (Signature)	Lab	TSC	P.O. #	Shipped via: Bus <input checked="" type="checkbox"/> Fed Ex <input checked="" type="checkbox"/> UPS					
Date/Time					Date/Time									
10/21/99 1600														
Relinquished (Signature)					Received by: (Signature)	SALT LAKE CITY, UT								
Date/Time					Date/Time	Remarks								
Relinquished (Signature)					Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits							
							<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter							
							<input type="checkbox"/> Other							
						Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined								
						54								

Return results & electronic copy to:  
Computer Dept at address at top of page

HFORM-1-

# CHAIN OF CUSTODY RECORD

PROJECT NAME

ASARCO - EL PASO, TX

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME		SAMPLE NUMBER		NO. OF CONTAINERS	ANALYSIS										REMARKS
1035	ASARCO - EL PASO, TX	DATE	TIME	COMP		GRAB	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cu, Pb, Zn, Se)	
		10/17/99	1520													
			1522													
			1524													
			1536													
			1535													
			1537													
			1600													
			1605													
			1628													
			1634													
			1655													
			1700													
			1737													
			1740													
			0825													
10/18/99	0825															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS						
Syll (Name)		10/21/99 16:00		SALT LAKE CITY, UT						Other						
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks				Air Bill #						
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits		<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter				
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		10-22-99 1030								

Return results & electronic copy to:

MEMO-1.

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS								REMARKS			
1035	BARCO - El Paso, TX	DATE	TIME		COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>		Total Recoverable Metals UF/HNO <sub>3</sub>	BTX	TPH
		10/18/97	0827				EP-105-N2									
		↓	0830				EP-105-O									
		↓	0915				EP-105-P									
		↓	0940				EP-105-Q									
		10/19/97	1825				EP-103-O									
		↓	1845				EP-103-P									
		10/19/97	1630				EP-104-Q									
		↓	1600				EP-108-A									
		↓	1002				EP-108-B									
		10/19/97	1542				EP-107-N									
		↓	1542													
		10/20/97	0935				EP-107-P									
		↓	0930				EP-107-O									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus (Fed Ex, UPS) Other		Air Bill #				
[Signature]		10/21/97 1600		[Signature]		SALT LAKE CITY, UT										
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks										
[Signature]				[Signature]												
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other								
[Signature]				[Signature]		10/22/97 1030										
Relinquished (Signature)		Date/Time		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined												
[Signature]																

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	COMMONS UF/RAW				DISS. METAL F/HNO <sub>3</sub>				CN UF/NaOH				TOTAL METALS UF/HNO <sub>3</sub>				TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>				TPH				XRF (As, Cd, Cr, Cu, Fe, Pb, Se, Zn)				REMARKS
DATE	TIME	COMP	GRAB	SAMPLE NUMBER																											
10/11/97	1010			EP-107-A																											
	1012			EP-107-B																											
	1014			EP-107-C																											
	1016			EP-107-D																											
	1018			EP-107-E																											
	1100			EP-107-F																											
	1102			EP-107-F2																											
	1130			EP-107-G																											
	1134			EP-107-H																											
	1156			EP-107-I																											
	1200			EP-107-J																											
	1461			EP-107-K																											
	1408			EP-107-L																											
	1410			EP-107-L																											
	1538			EP-107-M																											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		Air Bill #																	
SPL Samples 10/21/97 1600		10/21/97 1600		Received by: (Signature)		Salt Lake City, UT																									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks																									
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		10-2-99 1030		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits		<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter																	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		10-2-99 1030		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits		<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter																	

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		ANALYSIS										REMARKS
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF	
1035	ASARCO - EL PASO, TX	1 BAG												
0116	0748			EP-106-A										
0116	0750			EP-106-B										
0116	0752			EP-106-C										
0116	0754			EP-106-D										
0116	0756			EP-106-E										
0116	0810			EP-106-F										
0116	0812			EP-106-G										
0116	0814			EP-106-H										
0116	0830			EP-106-I										
0116	0935			EP-106-J										
0116	0938			EP-106-K										
0116	0950			EP-106-L										
0116	0952			EP-106-M										
0116	1036			EP-106-N										

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
EP Chambers	10/12/19 1600		TSC		Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
			SALT LAKE CITY, UT		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits	
		glover	10-22-95 1030	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
Return results & electronic copy to:			Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		HARCO - El Paso, TX		1 BAG													
SAMPLERS: (Signature)		Harold, but															
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cu, Cr, Fe, Pb, Se, Zn)	REMARKS			
10/18/89	1524			EP-95-A									X				
	1526			EP-95-B									X				
	1528			EP-95-C									X				
	1530			EP-95-D									X				
	1532			EP-95-E									X				
	1541			EP-95-F									X				
	1543			EP-95-F2									X				
	1545			EP-95-G									X				
	1610			EP-95-H									X				
	1635			EP-95-I									X				
	0838			EP-95-J									X				
	0840			EP-95-K									X				
10/18/89	1128			EP-110-E									X				
	1138			EP-110-F									X				
	1140			EP-110-F2									X				
Relinquished (Signature)		Received by: (Signature)		Date/Time		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS							
SPL Chambers				10/21/89 1600		SALT LAKE CITY, UT				Other							
Relinquished (Signature)		Received by: (Signature)		Date/Time		Remarks				Air Bill #							
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits				<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter					

[illegible]

HFORM-1-1

**Return results & electronic copy to:**



January 12, 2000

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

Please find attached the X-ray results for your El Paso soil sample collected from October the 29<sup>th</sup> to the 2<sup>nd</sup> November. Also attached are the X-ray QC results.

If you have any questions pertaining to the data please feel free to call.

A handwritten signature in cursive script, reading "Lee Stone". The signature is written in dark ink and is positioned above the printed name and title.

Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)





L991942

**CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)**

As	% REC		Pb	% REC
600	86		8214	102
594	85		8264	103
689	98		8192	102
635	91		8188	102
671	96		8189	102
600	86		8298	103
579	83		8141	101

**LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)**

As	% REC		Pb	% REC
941	103		223	94
955	104		230	97
947	103		217	92
952	104		228	97

**DUPLICATES EVERY 20TH SAMPLE**

LAB#

L991942-20

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	<10	<10	BDL
Cd	Cd		Cr	Cr	
<10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
48	20	82	1	1	0
Se	Se		Zn	Zn	
<10	<10	BDL	<10	25	BDL

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991942-40	31	16	64	18	10	57
	Cd	Cd		Cr	Cr	
	48	63	27	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	<20	<20	BDL	2.9	3	3
	Se	Se		Zn	Zn	
	<10	<10	BDL	40	29	32

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991942-60	42	43	2	10	<10	BDL
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	35	45	25	2.6	2.7	4
	Se	Se		Zn	Zn	
	<10	<10	BDL	46	49	6

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991948-11	34594	34883	1	12143	11903	2
	Cd	Cd		Cr	Cr	
	3373	3457	2	1267	1231	3
	Cu	Cu		Fe	Fe	
	65392	65550	0	6.6	6.6	0
	Se	Se		Zn	Zn	
	409	405	1	32066	32317	1

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-001	29-OCT-99	BH8-1A	AS	41	ppm	LCS	11-JAN-00		EDXRF
			CD	12	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.1	%	LCS	11-JAN-00		EDXRF
			PB	34	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	36	ppm	LCS	11-JAN-00		EDXRF
L991942-002	29-OCT-99	BH8-1B	AS	19	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	50	ppm	LCS	11-JAN-00		EDXRF
			FE	2.5	%	LCS	11-JAN-00		EDXRF
			PB	28	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	42	ppm	LCS	11-JAN-00		EDXRF
L991942-003	30-OCT-99	BH8-1C	AS	12	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.7	%	LCS	11-JAN-00		EDXRF
			PB	12	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	33	ppm	LCS	11-JAN-00		EDXRF
L991942-004	30-OCT-99	BH8-1D	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	50	ppm	LCS	11-JAN-00		EDXRF
			FE	1.5	%	LCS	11-JAN-00		EDXRF
			PB	14	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	30	ppm	LCS	11-JAN-00		EDXRF
L991942-005	30-OCT-99	BH8-1E	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-005	30-OCT-99	BH8-1E	CU	89	ppm	LCS	11-JAN-00		EDXRF
			FE	1.7	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-006	30-OCT-99	BH8-1F	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<10	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	0.30	%	LCS	11-JAN-00		EDXRF
L991942-007	30-OCT-99	BH8-1F2	PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	25	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-008	30-OCT-99	BH8-1G	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	0.39	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-009	30-OCT-99	BH8-1H	ZN	<10	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	46	ppm	LCS	11-JAN-00		EDXRF
L991942-009	30-OCT-99	BH8-1H	FE	1.2	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-009	30-OCT-99	BH8-1H	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	18	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-010	30-OCT-99	BH8-1I	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.4	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	21	ppm	LCS	11-JAN-00		EDXRF
			AS	171	ppm	LCS	11-JAN-00		EDXRF
			CD	68	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	400	ppm	LCS	11-JAN-00		EDXRF
L991942-011	01-NOV-99	BH8-2A	FE	1.1	%	LCS	11-JAN-00		EDXRF
			PB	54	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	540	ppm	LCS	11-JAN-00		EDXRF
			AS	64	ppm	LCS	11-JAN-00		EDXRF
			CD	610	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	47	ppm	LCS	11-JAN-00		EDXRF
			FE	2.5	%	LCS	11-JAN-00		EDXRF
			PB	30	ppm	LCS	11-JAN-00		EDXRF
L991942-012	01-NOV-99	BH8-2B	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	920	ppm	LCS	11-JAN-00		EDXRF
			AS	20	ppm	LCS	11-JAN-00		EDXRF
			CD	18	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.7	%	LCS	11-JAN-00		EDXRF
			PB	14	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	54	ppm	LCS	11-JAN-00		EDXRF
L991942-013	01-NOV-99	BH8-2C	AS	20	ppm	LCS	11-JAN-00		EDXRF
			CD	18	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
L991942-014	01-NOV-99	BH8-2D	FE	2.7	%	LCS	11-JAN-00		EDXRF
			PB	14	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	54	ppm	LCS	11-JAN-00		EDXRF
			AS	20	ppm	LCS	11-JAN-00		EDXRF
			CD	18	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.7	%	LCS	11-JAN-00		EDXRF
			PB	14	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991942-014	01-NOV-99	BH8-2D	AS	12	ppm	LCS	11-JAN-00	EDXRF
			CD	<10	ppm	LCS	11-JAN-00	EDXRF
			CR	<80	ppm	LCS	11-JAN-00	EDXRF
			CU	36	ppm	LCS	11-JAN-00	EDXRF
			FE	2.4	%	LCS	11-JAN-00	EDXRF
			PB	<10	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
			ZN	36	ppm	LCS	11-JAN-00	EDXRF
L991942-015	01-NOV-99	BH8-2D2	AS	10	ppm	LCS	11-JAN-00	EDXRF
			CD	11	ppm	LCS	11-JAN-00	EDXRF
			CR	<80	ppm	LCS	11-JAN-00	EDXRF
			CU	<20	ppm	LCS	11-JAN-00	EDXRF
			FE	2.4	%	LCS	11-JAN-00	EDXRF
			PB	12	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
			ZN	58	ppm	LCS	11-JAN-00	EDXRF
L991942-016	01-NOV-99	BH8-2E	AS	<10	ppm	LCS	11-JAN-00	EDXRF
			CD	<10	ppm	LCS	11-JAN-00	EDXRF
			CR	<80	ppm	LCS	11-JAN-00	EDXRF
			CU	38	ppm	LCS	11-JAN-00	EDXRF
			FE	1.9	%	LCS	11-JAN-00	EDXRF
			PB	<10	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
			ZN	69	ppm	LCS	11-JAN-00	EDXRF
L991942-017	01-NOV-99	BH8-2F	AS	29	ppm	LCS	11-JAN-00	EDXRF
			CD	10	ppm	LCS	11-JAN-00	EDXRF
			CR	<80	ppm	LCS	11-JAN-00	EDXRF
			CU	<20	ppm	LCS	11-JAN-00	EDXRF
			FE	3.1	%	LCS	11-JAN-00	EDXRF
			PB	11	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
			ZN	37	ppm	LCS	11-JAN-00	EDXRF
L991942-018	01-NOV-99	BH8-2G	AS	<10	ppm	LCS	11-JAN-00	EDXRF
			CD	<10	ppm	LCS	11-JAN-00	EDXRF
			CR	<80	ppm	LCS	11-JAN-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-018	01-NOV-99	BH8-2G	CU	27	ppm	LCS	11-JAN-00		EDXRF
			FE	2.2	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	47	ppm	LCS	11-JAN-00		EDXRF
L991942-019	01-NOV-99	BH8-2H	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	0.86	%	LCS	11-JAN-00		EDXRF
L991942-020	01-NOV-99	BH8-2I	PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	12	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-021	01-NOV-99	BH8-2J	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	48	ppm	LCS	11-JAN-00		EDXRF
			FE	1.0	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-022	01-NOV-99	BH8-2K	ZN	<10	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
L991942-023	01-NOV-99	BH8-2L	FE	1.2	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	45	ppm	LCS	11-JAN-00		EDXRF
			AS	25	ppm	LCS	11-JAN-00		EDXRF
L991942-024	01-NOV-99	BH8-2M	CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	3.0	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								DATE	METHOD
L991942-022	01-NOV-99	BH8-2J	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	44	ppm	LCS	11-JAN-00		EDXRF
L991942-023	01-NOV-99	BH8-2K	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.8	%	LCS	11-JAN-00		EDXRF
			PP	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	45	ppm	LCS	11-JAN-00		EDXRF
			AS	12	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-024	01-NOV-99	BH8-2L	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.2	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	36	ppm	LCS	11-JAN-00		EDXRF
			AS	63	ppm	LCS	11-JAN-00		EDXRF
			CD	11	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	65	ppm	LCS	11-JAN-00		EDXRF
L991942-025	01-NOV-99	BH8-3A	FE	2.1	%	LCS	11-JAN-00		EDXRF
			PB	143	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	38	ppm	LCS	11-JAN-00		EDXRF
			AS		ppm	LCS	11-JAN-00		EDXRF
			CD		ppm	LCS	11-JAN-00		EDXRF
			CR		ppm	LCS	11-JAN-00		EDXRF
			CU		ppm	LCS	11-JAN-00		EDXRF
			FE		%	LCS	11-JAN-00		EDXRF
			PB		ppm	LCS	11-JAN-00		EDXRF
L991942-026	01-NOV-99	BH8-3B	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	<10	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.3	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	<10	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-027	01-NOV-99	BH8-3C	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	45	ppm	LCS	11-JAN-00		EDXRF
			FE	1.2	%	LCS	11-JAN-00		EDXRF
			PB	15	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	17	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-028	01-NOV-99	BH8-3C2	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.3	%	LCS	11-JAN-00		EDXRF
			PB	12	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	21	ppm	LCS	11-JAN-00		EDXRF
			AS	116	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	79	ppm	LCS	11-JAN-00		EDXRF
L991942-029	01-NOV-99	BH8-3D	FE	2.4	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	24	ppm	LCS	11-JAN-00		EDXRF
			AS	87	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	48	ppm	LCS	11-JAN-00		EDXRF
			FE	1.6	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-030	01-NOV-99	BH8-3E	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	19	ppm	LCS	11-JAN-00		EDXRF
			AS	54	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			AS	87	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	48	ppm	LCS	11-JAN-00		EDXRF
			FE	1.6	%	LCS	11-JAN-00		EDXRF
L991942-031	02-NOV-99	BH8-3F	PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	19	ppm	LCS	11-JAN-00		EDXRF
			AS	54	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			AS	87	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	48	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-031	02-NOV-99	BH8-3F	CU	43	ppm	LCS	11-JAN-00		EDXRF
			FE	3.0	%	LCS	11-JAN-00		EDXRF
			PB	29	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	56	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-032	02-NOV-99	BH8-3G	CU	33	ppm	LCS	11-JAN-00		EDXRF
			FE	1.4	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	17	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-033	02-NOV-99	BH8-3H	CU	72	ppm	LCS	11-JAN-00		EDXRF
			FE	1.4	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	24	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-034	02-NOV-99	BH8-3I	CU	72	ppm	LCS	11-JAN-00		EDXRF
			FE	1.4	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	24	ppm	LCS	11-JAN-00		EDXRF
			AS	21	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-035	02-NOV-99	BH8-4A	CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.5	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	51	ppm	LCS	11-JAN-00		EDXRF
			AS	6100	ppm	LCS	11-JAN-00		EDXRF
			CD	2600	ppm	LCS	11-JAN-00		EDXRF
			CR	1800	ppm	LCS	11-JAN-00		EDXRF
			CU	49000	ppm	LCS	11-JAN-00		EDXRF
			FE	5.1	%	LCS	11-JAN-00		EDXRF
			PB	29000	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-035	02-NOV-99	BH8-4A	SE	270	ppm	LCS	11-JAN-00		EDXRF
			ZN	23000	ppm	LCS	11-JAN-00		EDXRF
			AS	210	ppm	LCS	11-JAN-00		EDXRF
			CD	110	ppm	LCS	11-JAN-00		EDXRF
L991942-036	02-NOV-99	BH8-4B	CR	210	ppm	LCS	11-JAN-00		EDXRF
			CU	760	ppm	LCS	11-JAN-00		EDXRF
			FE	1.4	%	LCS	11-JAN-00		EDXRF
			PB	550	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	2300	ppm	LCS	11-JAN-00		EDXRF
			AS	130	ppm	LCS	11-JAN-00		EDXRF
			CD	170	ppm	LCS	11-JAN-00		EDXRF
			CR	100	ppm	LCS	11-JAN-00		EDXRF
			CU	140	ppm	LCS	11-JAN-00		EDXRF
L991942-037	02-NOV-99	BH8-4C	FE	1.4	%	LCS	11-JAN-00		EDXRF
			PB	120	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	1900	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	150	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	26	ppm	LCS	11-JAN-00		EDXRF
			FE	1.8	%	LCS	11-JAN-00		EDXRF
			PB	26	ppm	LCS	11-JAN-00		EDXRF
L991942-038	02-NOV-99	BH8-4D	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	110	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	170	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.8	%	LCS	11-JAN-00		EDXRF
			PB	15	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	12	ppm	LCS	11-JAN-00		EDXRF
L991942-039	02-NOV-99	BH8-4E	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	170	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.8	%	LCS	11-JAN-00		EDXRF
			PB	15	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	12	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-040	02-NOV-99	BH8-4F	AS	31	ppm	LCS	11-JAN-00		EDXRF
			CD	48	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	3.4	%	LCS	11-JAN-00		EDXRF
			PB	10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	40	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-041	02-NOV-99	BH8-4G	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.3	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	34	ppm	LCS	11-JAN-00		EDXRF
			AS	13	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	60	ppm	LCS	11-JAN-00		EDXRF
L991942-042	02-NOV-99	BH8-4G2	FE	2.4	%	LCS	11-JAN-00		EDXRF
			PB	14	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	40	ppm	LCS	11-JAN-00		EDXRF
			AS	11	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.5	%	LCS	11-JAN-00		EDXRF
			PB	18	ppm	LCS	11-JAN-00		EDXRF
L991942-043	02-NOV-99	BH8-4H	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	39	ppm	LCS	11-JAN-00		EDXRF
			AS	15	ppm	LCS	11-JAN-00		EDXRF
			CD	11	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			AS	11	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.5	%	LCS	11-JAN-00		EDXRF
L991942-044	02-NOV-99	BH8-4I	PB	18	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	39	ppm	LCS	11-JAN-00		EDXRF
			AS	15	ppm	LCS	11-JAN-00		EDXRF
			CD	11	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			AS	11	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-044	02-NOV-99	BH8-4I	CU	49	ppm	LCS	11-JAN-00		EDXRF
			FE	2.3	%	LCS	11-JAN-00		EDXRF
			PB	11	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	60	ppm	LCS	11-JAN-00		EDXRF
			AS	11	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-045	02-NOV-99	BH8-4J	CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.3	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	31	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-046	02-NOV-99	BH8-4K	CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.5	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	10	ppm	LCS	11-JAN-00		EDXRF
			ZN	66	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-047	02-NOV-99	BH8-4L	CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.3	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	34	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
L991942-048	02-NOV-99	BH8-4M	CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.1	%	LCS	11-JAN-00		EDXRF
			PB	23	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.1	%	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	RECEIVED	
L991942-048	02-NOV-99	BH8-4M	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	33	ppm	LCS	11-JAN-00		EDXRF
L991942-049	02-NOV-99	BH8-4M2	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.0	%	LCS	11-JAN-00		EDXRF
			PB	11	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	<10	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-050	02-NOV-99	BH8-4N	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.2	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	13	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
L991942-051	02-NOV-99	BH8-4O	FE	1.1	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	23	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.1	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-052	02-NOV-99	BH8-4P	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	23	ppm	LCS	11-JAN-00		EDXRF
			AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.1	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	25	ppm	LCS	11-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991942-053	02-NOV-99	BH8-4Q	AS	<10	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	21	ppm	LCS	11-JAN-00		EDXRF
			FE	1.3	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	32	ppm	LCS	11-JAN-00		EDXRF
			AS	67	ppm	LCS	11-JAN-00		EDXRF
			CD	46	ppm	LCS	11-JAN-00		EDXRF
L991942-054	21-OCT-99	BH13-1A	CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	1500	ppm	LCS	11-JAN-00		EDXRF
			FE	1.9	%	LCS	11-JAN-00		EDXRF
			PB	860	ppm	LCS	11-JAN-00		EDXRF
			SE	13	ppm	LCS	11-JAN-00		EDXRF
			ZN	310	ppm	LCS	11-JAN-00		EDXRF
			AS	45	ppm	LCS	11-JAN-00		EDXRF
			CD	3100	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	25	ppm	LCS	11-JAN-00		EDXRF
L991942-055	21-OCT-99	BH13-1C	FE	1.8	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	1200	ppm	LCS	11-JAN-00		EDXRF
			AS	65	ppm	LCS	11-JAN-00		EDXRF
			CD	22	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.4	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
L991942-056	21-OCT-99	BH13-1D	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	36	ppm	LCS	11-JAN-00		EDXRF
			AS	76	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			AS	67	ppm	LCS	11-JAN-00		EDXRF
			CD	46	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	1500	ppm	LCS	11-JAN-00		EDXRF
			FE	1.9	%	LCS	11-JAN-00		EDXRF
L991942-057	21-OCT-99	BH13-1E	PB	860	ppm	LCS	11-JAN-00		EDXRF
			SE	13	ppm	LCS	11-JAN-00		EDXRF
			ZN	310	ppm	LCS	11-JAN-00		EDXRF
			AS	45	ppm	LCS	11-JAN-00		EDXRF
			CD	3100	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	25	ppm	LCS	11-JAN-00		EDXRF
			FE	1.8	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991942-057	21-OCT-99	BH13-1E	CU	24	ppm	LCS	11-JAN-00	EDXRF
			FE	2.8	%	LCS	11-JAN-00	EDXRF
			PB	<10	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
			ZN	46	ppm	LCS	11-JAN-00	EDXRF
L991942-058	21-OCT-99	BH13-1E2	AS	65	ppm	LCS	11-JAN-00	EDXRF
			CD	<10	ppm	LCS	11-JAN-00	EDXRF
			CR	<80	ppm	LCS	11-JAN-00	EDXRF
			CU	<20	ppm	LCS	11-JAN-00	EDXRF
			FE	2.8	%	LCS	11-JAN-00	EDXRF
L991942-059	21-OCT-99	BH13-1F	PB	<10	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
			ZN	71	ppm	LCS	11-JAN-00	EDXRF
			AS	39	ppm	LCS	11-JAN-00	EDXRF
			CD	<10	ppm	LCS	11-JAN-00	EDXRF
L991942-060	21-OCT-99	BH13-1G	CR	<80	ppm	LCS	11-JAN-00	EDXRF
			CU	<20	ppm	LCS	11-JAN-00	EDXRF
			FE	2.5	%	LCS	11-JAN-00	EDXRF
			PB	<10	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
L991942-061	21-OCT-99	BH13-1H	ZN	44	ppm	LCS	11-JAN-00	EDXRF
			AS	54	ppm	LCS	11-JAN-00	EDXRF
			CD	<10	ppm	LCS	11-JAN-00	EDXRF
			CR	86	ppm	LCS	11-JAN-00	EDXRF
			CU	36	ppm	LCS	11-JAN-00	EDXRF
L991942-062	21-OCT-99	BH13-1I	FE	2.6	%	LCS	11-JAN-00	EDXRF
			PB	<10	ppm	LCS	11-JAN-00	EDXRF
			SE	<10	ppm	LCS	11-JAN-00	EDXRF
			ZN	46	ppm	LCS	11-JAN-00	EDXRF
			AS	80	ppm	LCS	11-JAN-00	EDXRF
L991942-063	21-OCT-99	BH13-1J	CD	<10	ppm	LCS	11-JAN-00	EDXRF
			CR	<80	ppm	LCS	11-JAN-00	EDXRF
			CU	<20	ppm	LCS	11-JAN-00	EDXRF
			FE	2.6	%	LCS	11-JAN-00	EDXRF
			PB	12	ppm	LCS	11-JAN-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991942

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L991942-061	21-OCT-99	BH13-1H	SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	45	ppm	LCS	11-JAN-00		EDXRF
L991942-062	21-OCT-99	BH13-1I	AS	69	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	1.9	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	35	ppm	LCS	11-JAN-00		EDXRF
L991942-063	21-OCT-99	BH13-1J	AS	1000	ppm	LCS	11-JAN-00		EDXRF
			CD	17	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	22	ppm	LCS	11-JAN-00		EDXRF
			FE	2.0	%	LCS	11-JAN-00		EDXRF
			PB	<10	ppm	LCS	11-JAN-00		EDXRF
			SE	26	ppm	LCS	11-JAN-00		EDXRF
			ZN	54	ppm	LCS	11-JAN-00		EDXRF
L991942-064	29-OCT-99	BH13-1K	AS	87	ppm	LCS	11-JAN-00		EDXRF
			CD	<10	ppm	LCS	11-JAN-00		EDXRF
			CR	<80	ppm	LCS	11-JAN-00		EDXRF
			CU	<20	ppm	LCS	11-JAN-00		EDXRF
			FE	2.8	%	LCS	11-JAN-00		EDXRF
			PB	20	ppm	LCS	11-JAN-00		EDXRF
			SE	<10	ppm	LCS	11-JAN-00		EDXRF
			ZN	31	ppm	LCS	11-JAN-00		EDXRF

Approved

Reviewer

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

Правда, правда, правда.

Split Samples:  
11 accepted 11 declined

**Return results & electronic copy to:**

HEOBM-1.

# MAN OF CUS: ODY RECORD

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME	NO. OF CON-TAINERS	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Hg)	REMARKS
1035	ASARCO - EL PASO, TX	1 BAG										
SAMPLERS: (Signature)	HAROLD KUTZ											
DATE	TIME	GRAB	COMP.	SAMPLE NUMBER								
11/19	0925			BH8-2A								
	0927			BH8-2B								
	0940			BH8-2C								
	0942			BH8-2D								
	0947			BH8-2DD2								
	1000			BH8-2E								
	1002			BH8-2F								
	1030			BH8-2G								
	1032			BH8-2H								
	1105			BH8-2I								
	1107			BH8-2J2								
	1148			BH8-2J								
	1240			BH8-2K								
	1345			BH8-2L								
RELINQUISHED (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____	Air Bill # _____						
(Signature)	11/3/99 1600		ISC									
RELINQUISHED (Signature)	Date/Time	Received by: (Signature)	Remarks									
(Signature)			SALT LAKE CITY, UT									
RELINQUISHED (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time									
(Signature)		(Signature)	11/4/99 1130									
Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____												
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined												

330

HEOBM-1.

ПРИЛОЖЕНИЕ, и.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
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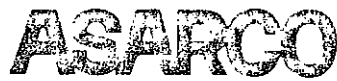
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3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

HFORM-1-

**Return results & electronic copy to:**



RECEIVED

JAN 24 2000

HYDROMETRICS, INC.

January 19, 2000

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

Please find attached the X-ray results for your El Paso soil sample collected on the 27<sup>th</sup> and 28<sup>th</sup> of October. Also attached are the X-ray QC results.

If you have any questions pertaining to the data please feel free to call.

A handwritten signature in black ink, reading "Lee Stone". The signature is written in a cursive, flowing style with a long horizontal line extending from the end.

Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)





L991947

**CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)**

As	% REC		Pb	% REC
601	86		8105	101
647	92		8473	105

**LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)**

As	% REC		Pb	% REC
930	101		230	97

**DUPLICATES EVERY 20TH SAMPLE**

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L991947-15	<10	<10	BDL	16	12	29
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<10	<10	BDL
	Cu	Cu		Fe	Fe	
	<10	<10	BDL	1	1	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	11	22	67

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991947

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991947-001	27-OCT-99	EP-111A	AS	33	ppm	LCS	19-JAN-00		EDXRF
			CD	27	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	420	ppm	LCS	19-JAN-00		EDXRF
			FE	1.9	%	LCS	19-JAN-00		EDXRF
			PB	430	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	200	ppm	LCS	19-JAN-00		EDXRF
			AS	<10	ppm	LCS	19-JAN-00		EDXRF
			CD	<10	ppm	LCS	19-JAN-00		EDXRF
L991947-002	27-OCT-99	EP-111B	CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	170	ppm	LCS	19-JAN-00		EDXRF
			FE	1.6	%	LCS	19-JAN-00		EDXRF
			PB	52	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	38	ppm	LCS	19-JAN-00		EDXRF
			AS	50	ppm	LCS	19-JAN-00		EDXRF
			CD	12	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	490	ppm	LCS	19-JAN-00		EDXRF
L991947-003	27-OCT-99	EP-111C	FE	2.6	%	LCS	19-JAN-00		EDXRF
			PB	600	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	280	ppm	LCS	19-JAN-00		EDXRF
			AS	65	ppm	LCS	19-JAN-00		EDXRF
			CD	<10	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	310	ppm	LCS	19-JAN-00		EDXRF
			FE	2.3	%	LCS	19-JAN-00		EDXRF
			PB	330	ppm	LCS	19-JAN-00		EDXRF
L991947-004	27-OCT-99	EP-111D	SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	190	ppm	LCS	19-JAN-00		EDXRF
			AS	35	ppm	LCS	19-JAN-00		EDXRF
			CD	13	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			AS	35	ppm	LCS	19-JAN-00		EDXRF
			CD	13	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			AS	35	ppm	LCS	19-JAN-00		EDXRF
			CD	13	ppm	LCS	19-JAN-00		EDXRF
L991947-005	27-OCT-99	EP-111E	CR	<80	ppm	LCS	19-JAN-00		EDXRF
			AS	35	ppm	LCS	19-JAN-00		EDXRF
			CD	13	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			AS	35	ppm	LCS	19-JAN-00		EDXRF
			CD	13	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			AS	35	ppm	LCS	19-JAN-00		EDXRF
			CD	13	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991947

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L991947-005	27-OCT-99	EP-111E	CU	190	ppm	LCS	19-JAN-00		EDXRF
			FE	2.0	%	LCS	19-JAN-00		EDXRF
			PB	240	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	120	ppm	LCS	19-JAN-00		EDXRF
			AS	84	ppm	LCS	19-JAN-00		EDXRF
			CD	32	ppm	LCS	19-JAN-00		EDXRF
L991947-006	27-OCT-99	EP-112A	CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	1300	ppm	LCS	19-JAN-00		EDXRF
			FE	2.3	%	LCS	19-JAN-00		EDXRF
			PB	1200	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	590	ppm	LCS	19-JAN-00		EDXRF
			AS	86	ppm	LCS	19-JAN-00		EDXRF
L991947-007	27-OCT-99	EP-112B	CD	54	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	1100	ppm	LCS	19-JAN-00		EDXRF
			FE	2.0	%	LCS	19-JAN-00		EDXRF
			PB	1500	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	740	ppm	LCS	19-JAN-00		EDXRF
L991947-008	27-OCT-99	EP-112C	AS	<10	ppm	LCS	19-JAN-00		EDXRF
			CD	23	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	320	ppm	LCS	19-JAN-00		EDXRF
			FE	1.5	%	LCS	19-JAN-00		EDXRF
			PB	430	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
L991947-009	27-OCT-99	EP-112D	ZN	190	ppm	LCS	19-JAN-00		EDXRF
			AS	<10	ppm	LCS	19-JAN-00		EDXRF
			CD	<10	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	<20	ppm	LCS	19-JAN-00		EDXRF
			FE	1.1	%	LCS	19-JAN-00		EDXRF
			PB	22	ppm	LCS	19-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991947

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L991947-009	27-OCT-99	EP-112D	SE	<10	ppm	LCS	19-JAN-00	EDXRF
			ZN	26	ppm	LCS	19-JAN-00	EDXRF
L991947-010	27-OCT-99	EP-112E	AS	<10	ppm	LCS	19-JAN-00	EDXRF
			CD	<10	ppm	LCS	19-JAN-00	EDXRF
			CR	<80	ppm	LCS	19-JAN-00	EDXRF
			CU	40	ppm	LCS	19-JAN-00	EDXRF
			FE	1.2	%	LCS	19-JAN-00	EDXRF
			PB	27	ppm	LCS	19-JAN-00	EDXRF
			SE	<10	ppm	LCS	19-JAN-00	EDXRF
			ZN	13	ppm	LCS	19-JAN-00	EDXRF
L991947-011	28-OCT-99	EP-113A	AS	<10	ppm	LCS	19-JAN-00	EDXRF
			CD	<10	ppm	LCS	19-JAN-00	EDXRF
			CR	<80	ppm	LCS	19-JAN-00	EDXRF
			CU	110	ppm	LCS	19-JAN-00	EDXRF
			FE	1.6	%	LCS	19-JAN-00	EDXRF
			PB	110	ppm	LCS	19-JAN-00	EDXRF
			SE	<10	ppm	LCS	19-JAN-00	EDXRF
			ZN	66	ppm	LCS	19-JAN-00	EDXRF
L991947-012	28-OCT-99	EP-113B	AS	26	ppm	LCS	19-JAN-00	EDXRF
			CD	20	ppm	LCS	19-JAN-00	EDXRF
			CR	<80	ppm	LCS	19-JAN-00	EDXRF
			CU	570	ppm	LCS	19-JAN-00	EDXRF
			FE	2.1	%	LCS	19-JAN-00	EDXRF
			PB	630	ppm	LCS	19-JAN-00	EDXRF
			SE	<10	ppm	LCS	19-JAN-00	EDXRF
			ZN	370	ppm	LCS	19-JAN-00	EDXRF
L991947-013	28-OCT-99	EP-113C	AS	33	ppm	LCS	19-JAN-00	EDXRF
			CD	<10	ppm	LCS	19-JAN-00	EDXRF
			CR	86	ppm	LCS	19-JAN-00	EDXRF
			CU	370	ppm	LCS	19-JAN-00	EDXRF
			FE	1.9	%	LCS	19-JAN-00	EDXRF
			PB	310	ppm	LCS	19-JAN-00	EDXRF
			SE	<10	ppm	LCS	19-JAN-00	EDXRF
			ZN	210	ppm	LCS	19-JAN-00	EDXRF

ASARCO TECHNICAL SERVICES CENTER


ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L991947

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	TEST METHOD
L991947-014	28-OCT-99	EP-113D	AS	24	ppm	LCS	19-JAN-00		EDXRF
			CD	11	ppm	LCS	19-JAN-00		EDXRF
			CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	310	ppm	LCS	19-JAN-00		EDXRF
			FE	2.2	%	LCS	19-JAN-00		EDXRF
			PB	160	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	110	ppm	LCS	19-JAN-00		EDXRF
			AS	<10	ppm	LCS	19-JAN-00		EDXRF
			CD	<10	ppm	LCS	19-JAN-00		EDXRF
L991947-015	28-OCT-99	EP-113E	CR	<80	ppm	LCS	19-JAN-00		EDXRF
			CU	<20	ppm	LCS	19-JAN-00		EDXRF
			FE	1.0	%	LCS	19-JAN-00		EDXRF
			PB	16	ppm	LCS	19-JAN-00		EDXRF
			SE	<10	ppm	LCS	19-JAN-00		EDXRF
			ZN	11	ppm	LCS	19-JAN-00		EDXRF

  
 Approved  
 B. J. Dill  
 Reviewer

## HYGIENICS, INC.

## CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
 P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	Commons UF/RAW	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Se)	REMARKS			
1035	ASARCO - EL PASO, TX		1 BAG													
SAMPLERS: (Signature)																
Harold KUTZ																
10/27/99	0917			EP-111A								X				
	0919			EP-111B								X				
	0922			EP-111C								X				
	0924			EP-111D								X				
	0944			EP-111E								X				
	1312			EP-112A								X				
	1315			EP-112B								X				
	1319			EP-112C								X				
	1317			EP-112D								X				
	1339			EP-112E								X				
Relinquished (Signature)					Received by: (Signature)		Lab TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS					
SILVAMBERS							Salt Lake City, UT				Other					
Relinquished (Signature)					Received by: (Signature)		Remarks				Air Bill #					
Date/Time					Date/Time		Date/Time		Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/ detection limits					
11/3/99 16:00					11/4/99 1030						<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter			
Relinquished (Signature)					Received by: (Signature)						<input type="checkbox"/> Other					
Date/Time					Date/Time		Date/Time		Date/Time		Split Samples: <input type="checkbox"/> Accented <input type="checkbox"/> Hardened					
11/3/99 16:00					11/4/99 1030											



# ASARCO

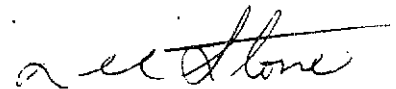
February 2, 2000

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

**RECEIVED**  
**FEB 04 2000**  
**HYDROMETRICS, INC.**

Please find attached the X-ray results for your El Paso soil sample collected from the 3<sup>rd</sup> of November to the 7<sup>th</sup> of January. Also attached are the X-ray QC results.

If you have any questions pertaining to the data please feel free to call.



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)





**L992004, L992061, L992077, L000066, L000096**

**CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)**

As	% REC		Pb	% REC
617	88		8220	102
632	90		8416	104
625	89		8239	102
664	95		8142	101
722	103		8239	102
640	91		8143	101
637	91		8275	103
605	86		8272	103
718	103		8094	100
702	100		8178	101
614	88		8205	102
600	86		8200	102
634	91		8192	102
644	92		8155	101
622	89		8247	102
699	100		8215	102

**LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)**

As	% REC		Pb	% REC
948	103		223	94
949	103		232	98
945	103		221	94
958	104		223	94
940	103		232	98
956	104		228	97
952	104		226	96
959	105		220	93

**DUPLICATES EVERY 20TH SAMPLE**

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L992004-20	<10	<10	BDL	33	693	182
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	82	<80	BDL
	Cu	Cu		Fe	Fe	
	32	49	42	1.3	1.3	0
	Se	Se		Zn	Zn	
	12	<10	BDL	277	275	1

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L992004-40	<10	<10	BDL	<10	<10	BDL
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	<20	<20	BDL	2.4	2.4	0
	Se	Se		Zn	Zn	
	<10	<10	BDL	63	72	13

LAB#

L992061-13

As	As	%DIFF	Pb	Pb	%DIFF
1877	1895	1	5258	5238	0
Cd	Cd		Cr	Cr	
534	530	1	<80	<80	BDL
Cu	Cu		Fe	Fe	
3631	3709	2	2.5	2.5	0
Se	Se		Zn	Zn	
36	36	0	1662	1627	2

LAB#

L992077-5

As	As	%DIFF	Pb	Pb	%DIFF
2764	2729	1	6967	6928	1
Cd	Cd		Cr	Cr	
853	853	0	<80	<80	BDL
Cu	Cu		Fe	Fe	
16236	16155	1	3.5	3.6	3
Se	Se		Zn	Zn	
66	57	15	5274	5280	0

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L992077-25	1049	993	5	7446	7698	3
	Cd	Cd		Cr	Cr	
	243	242	0	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	11985	11740	2	3.9	3.9	0
	Se	Se		Zn	Zn	
	65	74	13	3421	3504	2

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L992077-37	11	18	48	99	88	12
	Cd	Cd		Cr	Cr	
	<10	<10	BDL	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	110	87	23	2	2.1	5
	Se	Se		Zn	Zn	
	<10	<10	BDL	31	42	30

LAB#

L000066-5

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	65	70	7
Cd	Cd		Cr	Cr	
<10	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
<20	35	BDL	1.4	1.4	0
Se	Se		Zn	Zn	
<10	<10	BDL	29	33	13

LAB#

L000066-25

As	As	%DIFF	Pb	Pb	%DIFF
<10	<10	BDL	26	27	4
Cd	Cd		Cr	Cr	
12	<10	BDL	<80	<80	BDL
Cu	Cu		Fe	Fe	
26	36	32	1.2	1.2	0
Se	Se		Zn	Zn	
<10	<10	BDL	15	<10	BDL

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.

As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.

<u>LIMIT OF DETECTION</u>	As	Pb	Cd	Cr
	10PPM	10PPM	10PPM	80PPM
	Cu	Fe	Se	Zn
	20PPM	50PPM	10PPM	10PPM

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L992004-001	03 NOV-99	BH12-1A	AS	490	ppm	LCS	27-JAN-00	EDXRF
			CD	300	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	4300	ppm	LCS	27-JAN-00	EDXRF
			FE	4.2	%	LCS	27-JAN-00	EDXRF
			PB	2700	ppm	LCS	27-JAN-00	EDXRF
			SE	24	ppm	LCS	27-JAN-00	EDXRF
			ZN	2700	ppm	LCS	27-JAN-00	EDXRF
			AS	<10	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
L992004-002	03-NOV-99	BH12-1B	CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	99	ppm	LCS	27-JAN-00	EDXRF
			FE	2.2	%	LCS	27-JAN-00	EDXRF
			PB	140	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	88	ppm	LCS	27-JAN-00	EDXRF
			AS	<10	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	120	ppm	LCS	27-JAN-00	EDXRF
L992004-003	03-NOV-99	BH12-1C	FE	1.8	%	LCS	27-JAN-00	EDXRF
			PB	150	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	61	ppm	LCS	27-JAN-00	EDXRF
			AS	<10	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	120	ppm	LCS	27-JAN-00	EDXRF
			FE	1.8	%	LCS	27-JAN-00	EDXRF
			PB	150	ppm	LCS	27-JAN-00	EDXRF
L992004-004	03 NOV-99	BH12-1D	SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	61	ppm	LCS	27-JAN-00	EDXRF
			AS	<10	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	<20	ppm	LCS	27-JAN-00	EDXRF
			FE	1.1	%	LCS	27-JAN-00	EDXRF
			PB	<10	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	34	ppm	LCS	27-JAN-00	EDXRF
L992004-005	03-NOV-99	BH12-1E	AS	<10	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	<80	ppm	LCS	27-JAN-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992004-005	03-NOV-99	BH12-1E	CU	27	ppm	LCS	27-JAN-00		EDXRF
			FE	0.77	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-006	03-NOV-99	BH12-1E2	AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	1.0	%	LCS	27-JAN-00		EDXRF
L992004-007	03-NOV-99	BH12-2A	PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	19	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-008	03-NOV-99	BH12-2B	CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	93	ppm	LCS	27-JAN-00		EDXRF
			FE	1.5	%	LCS	27-JAN-00		EDXRF
			PB	130	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-009	03-NOV-99	BH12-3A	ZN	77	ppm	LCS	27-JAN-00		EDXRF
			AS	67	ppm	LCS	27-JAN-00		EDXRF
			CD	10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	570	ppm	LCS	27-JAN-00		EDXRF
L992004-009	03-NOV-99	BH12-3A	FE	2.4	%	LCS	27-JAN-00		EDXRF
			PB	610	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	320	ppm	LCS	27-JAN-00		EDXRF
			AS	10	ppm	LCS	27-JAN-00		EDXRF
L992004-009	03-NOV-99	BH12-3A	CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	170	ppm	LCS	27-JAN-00		EDXRF
			FE	1.8	%	LCS	27-JAN-00		EDXRF
			PB	170	ppm	LCS	27-JAN-00		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992004-009	03-NOV-99	BH12-3A	SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	80	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	26	ppm	LCS	27-JAN-00		EDXRF
			FE	1.1	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	12	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	1.4	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	20	ppm	LCS	27-JAN-00		EDXRF
			AS	3100	ppm	LCS	27-JAN-00		EDXRF
			CD	3100	ppm	LCS	27-JAN-00		EDXRF
			CR	230	ppm	LCS	27-JAN-00		EDXRF
			CU	17000	ppm	LCS	27-JAN-00		EDXRF
			FE	3.4	%	LCS	27-JAN-00		EDXRF
			PB	22000	ppm	LCS	27-JAN-00		EDXRF
			SE	220	ppm	LCS	27-JAN-00		EDXRF
			ZN	11000	ppm	LCS	27-JAN-00		EDXRF
			AS	3400	ppm	LCS	27-JAN-00		EDXRF
			CD	3400	ppm	LCS	27-JAN-00		EDXRF
			CR	240	ppm	LCS	27-JAN-00		EDXRF
			CU	18000	ppm	LCS	27-JAN-00		EDXRF
			FE	3.7	%	LCS	27-JAN-00		EDXRF
			PB	23000	ppm	LCS	27-JAN-00		EDXRF
			SE	220	ppm	LCS	27-JAN-00		EDXRF
			ZN	13000	ppm	LCS	27-JAN-00		EDXRF
			AS	3400	ppm	LCS	27-JAN-00		EDXRF
			CD	3400	ppm	LCS	27-JAN-00		EDXRF
			CR	240	ppm	LCS	27-JAN-00		EDXRF
			CU	18000	ppm	LCS	27-JAN-00		EDXRF
			FE	3.7	%	LCS	27-JAN-00		EDXRF
			PB	23000	ppm	LCS	27-JAN-00		EDXRF
			SE	220	ppm	LCS	27-JAN-00		EDXRF
			ZN	13000	ppm	LCS	27-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	METHOD
L992004-014	03-NOV-99	BH12-4C	AS	1200	ppm	LCS	27-JAN-00		EDXRF
			CD	1700	ppm	LCS	27-JAN-00		EDXRF
			CR	160	ppm	LCS	27-JAN-00		EDXRF
			CU	7700	ppm	LCS	27-JAN-00		EDXRF
			FE	3.0	%	LCS	27-JAN-00		EDXRF
			PB	14000	ppm	LCS	27-JAN-00		EDXRF
			SE	110	ppm	LCS	27-JAN-00		EDXRF
			ZN	6200	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-015	03-NOV-99	BH12-4D	CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	64	ppm	LCS	27-JAN-00		EDXRF
			FE	2.3	%	LCS	27-JAN-00		EDXRF
			PB	110	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	50	ppm	LCS	27-JAN-00		EDXRF
			AS	15	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
L992004-016	03-NOV-99	BH12-4D2	FE	2.4	%	LCS	27-JAN-00		EDXRF
			PB	20	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	45	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	1.4	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-017	03-NOV-99	BH12-4E	SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	<10	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	1.4	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-018	04-NOV-99	BH12-5A	AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	15	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	METHOD
L992004-018	04-NOV-99	BH12-5A	CU	45	ppm	LCS	27-JAN-00		EDXRF
			FE	1.5	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	21	ppm	LCS	27-JAN-00		EDXRF
L992004-019	04-NOV-99	BH12-6A	AS	120	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	37	ppm	LCS	27-JAN-00		EDXRF
			FE	2.3	%	LCS	27-JAN-00		EDXRF
			PB	21	ppm	LCS	27-JAN-00		EDXRF
L992004-020	04-NOV-99	BH12-7A	SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	63	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	82	ppm	LCS	27-JAN-00		EDXRF
L992004-021	04-NOV-99	BH12-7B	CU	32	ppm	LCS	27-JAN-00		EDXRF
			FE	1.3	%	LCS	27-JAN-00		EDXRF
			PB	33	ppm	LCS	27-JAN-00		EDXRF
			SE	12	ppm	LCS	27-JAN-00		EDXRF
			ZN	280	ppm	LCS	27-JAN-00		EDXRF
L992004-022	04-NOV-99	BH12-7B2	AS	33	ppm	LCS	27-JAN-00		EDXRF
			CD	38	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	94	ppm	LCS	27-JAN-00		EDXRF
			FE	1.6	%	LCS	27-JAN-00		EDXRF
			PB	52	ppm	LCS	27-JAN-00		EDXRF
L992004-022	04-NOV-99	BH12-7B2	SE	18	ppm	LCS	27-JAN-00		EDXRF
			ZN	350	ppm	LCS	27-JAN-00		EDXRF
			AS	33	ppm	LCS	27-JAN-00		EDXRF
			CD	51	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
L992004-022	04-NOV-99	BH12-7B2	CU	61	ppm	LCS	27-JAN-00		EDXRF
			FE	1.6	%	LCS	27-JAN-00		EDXRF
			PB	41	ppm	LCS	27-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L992004-022	04-NOV-99	BH12-7B2	SE	11	ppm	LCS	27-JAN-00	EDXRF
			ZN	330	ppm	LCS	27-JAN-00	EDXRF
L992004-023	04-NOV-99	BH12-8A	AS	23	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	64	ppm	LCS	27-JAN-00	EDXRF
			FE	1.6	%	LCS	27-JAN-00	EDXRF
			PB	130	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	300	ppm	LCS	27-JAN-00	EDXRF
L992004-024	04-NOV-99	BH12-8B	AS	<10	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	91	ppm	LCS	27-JAN-00	EDXRF
			FE	1.7	%	LCS	27-JAN-00	EDXRF
			PB	120	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	180	ppm	LCS	27-JAN-00	EDXRF
L992004-025	04-NOV-99	BH12-8C	AS	25	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	120	ppm	LCS	27-JAN-00	EDXRF
			FE	1.7	%	LCS	27-JAN-00	EDXRF
			PB	130	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	670	ppm	LCS	27-JAN-00	EDXRF
L992004-026	04-NOV-99	BH12-9A	AS	52	ppm	LCS	27-JAN-00	EDXRF
			CD	<10	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	42	ppm	LCS	27-JAN-00	EDXRF
			FE	1.9	%	LCS	27-JAN-00	EDXRF
			PB	<10	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	19	ppm	LCS	27-JAN-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L992004-027	04-NOV-99	BH12-9A2	AS	59	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	2.4	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	36	ppm	LCS	27-JAN-00		EDXRF
L992004-028	04-NOV-99	BH12-9B	AS	76	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	98	ppm	LCS	27-JAN-00		EDXRF
			CU	48	ppm	LCS	27-JAN-00		EDXRF
			FE	2.7	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	42	ppm	LCS	27-JAN-00		EDXRF
L992004-029	05-NOV-99	BH14-1A	AS	100	ppm	LCS	27-JAN-00		EDXRF
			CD	84	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	100	ppm	LCS	27-JAN-00		EDXRF
			FE	1.1	%	LCS	27-JAN-00		EDXRF
			PB	31	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	210	ppm	LCS	27-JAN-00		EDXRF
L992004-030	05-NOV-99	BH14-1B	AS	110	ppm	LCS	27-JAN-00		EDXRF
			CD	92	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	1.3	%	LCS	27-JAN-00		EDXRF
			PB	20	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	300	ppm	LCS	27-JAN-00		EDXRF
L992004-031	05-NOV-99	BH14-1C	AS	150	ppm	LCS	27-JAN-00		EDXRF
			CD	70	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992004-031	05-NOV-99	BH14-1C	CU	56	ppm	LCS	27-JAN-00		EDXRF
			FE	1.8	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	400	ppm	LCS	27-JAN-00		EDXRF
L992004-032	05-NOV-99	BH14-1D	AS	36	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	28	ppm	LCS	27-JAN-00		EDXRF
			FE	1.9	%	LCS	27-JAN-00		EDXRF
L992004-033	05-NOV-99	EH14-1E	PB	21	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	34	ppm	LCS	27-JAN-00		EDXRF
			AS	12	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-034	05-NOV-99	EH14-1F	CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	21	ppm	LCS	27-JAN-00		EDXRF
			FE	2.0	%	LCS	27-JAN-00		EDXRF
			PB	17	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-035	05-NOV-99	EH14-1F2	ZN	36	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	56	ppm	LCS	27-JAN-00		EDXRF
			FE	2.4	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	37	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	2.5	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992004-035	05-NOV-99	BH14-1F2	SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	34	ppm	LCS	27-JAN-00		EDXRF
L992004-036	05-NOV-99	BH14-1C	AS	16	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	2.4	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	25	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-037	05-NOV-99	BH14-1H	CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	2.1	%	LCS	27-JAN-00		EDXRF
			PB	13	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	40	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	35	ppm	LCS	27-JAN-00		EDXRF
L992004-038	05-NOV-99	BH14-1I	FE	1.5	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	26	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	35	ppm	LCS	27-JAN-00		EDXRF
			FE	1.5	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-039	05-NOV-99	BH14-1J	SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	26	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	41	ppm	LCS	27-JAN-00		EDXRF
			FE	1.7	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	13	ppm	LCS	27-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992004-040	05-NOV-99	BH14-1K	AS	40	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	2.4	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	63	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-041	08-NOV-99	BH14-1L	CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	32	ppm	LCS	27-JAN-00		EDXRF
			FE	1.5	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	<10	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
L992004-042	08-NOV-99	BH14-1L2	FE	1.6	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	21	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	<20	ppm	LCS	27-JAN-00		EDXRF
			FE	1.6	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
L992004-043	08-NOV-99	BH14-1M	SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	21	ppm	LCS	27-JAN-00		EDXRF
			AS	<10	ppm	LCS	27-JAN-00		EDXRF
			CD	<10	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF
			CU	42	ppm	LCS	27-JAN-00		EDXRF
			FE	1.9	%	LCS	27-JAN-00		EDXRF
			PB	<10	ppm	LCS	27-JAN-00		EDXRF
			SE	<10	ppm	LCS	27-JAN-00		EDXRF
			ZN	23	ppm	LCS	27-JAN-00		EDXRF
L992004-044	04-NOV-99	SS1A11-17	AS	110	ppm	LCS	27-JAN-00		EDXRF
			CD	15	ppm	LCS	27-JAN-00		EDXRF
			CR	<80	ppm	LCS	27-JAN-00		EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOID
L992004-044	04-NOV-99	SS1A11-17	CU	1000	ppm	LCS	27-JAN-00	EDXRF
			FE	3.1	%	LCS	27-JAN-00	EDXRF
			PB	920	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	810	ppm	LCS	27-JAN-00	EDXRF
L992004-045	05-NOV-99	SS1A11-18A	AS	150	ppm	LCS	27-JAN-00	EDXRF
			CD	45	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	1600	ppm	LCS	27-JAN-00	EDXRF
			FE	3.6	%	LCS	27-JAN-00	EDXRF
			FS	1100	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	1100	ppm	LCS	27-JAN-00	EDXRF
L992004-046	05-NOV-99	SS1A11-18B	AS	230	ppm	LCS	27-JAN-00	EDXRF
			CD	86	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	3000	ppm	LCS	27-JAN-00	EDXRF
			FE	3.4	%	LCS	27-JAN-00	EDXRF
			PB	2200	ppm	LCS	27-JAN-00	EDXRF
			SE	17	ppm	LCS	27-JAN-00	EDXRF
			ZN	1600	ppm	LCS	27-JAN-00	EDXRF
L992004-047	05-NOV-99	SS1A11-18C	AS	140	ppm	LCS	27-JAN-00	EDXRF
			CD	61	ppm	LCS	27-JAN-00	EDXRF
			CR	<80	ppm	LCS	27-JAN-00	EDXRF
			CU	1700	ppm	LCS	27-JAN-00	EDXRF
			FE	2.8	%	LCS	27-JAN-00	EDXRF
			PB	1300	ppm	LCS	27-JAN-00	EDXRF
			SE	<10	ppm	LCS	27-JAN-00	EDXRF
			ZN	990	ppm	LCS	27-JAN-00	EDXRF

ASARCO TECHNICAL SERVICES CENTER



ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992004

LAB NO.	DATE		DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
	COLLECTED	ANALYZED						ANALYZED	DAYS	

  
 Approved  
  
 Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992061

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	METHOD	HOLD
L992061-001	18-NOV-99	BH4-2A	AS	760	ppm	LCS	28-JAN-00	EDXRF	
			CD	380	ppm	LCS	28-JAN-00	EDXRF	
			CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			CU	5800	ppm	LCS	28-JAN-00	EDXRF	
			FE	2.8	%	LCS	28-JAN-00	EDXRF	
			PB	6500	ppm	LCS	28-JAN-00	EDXRF	
			SE	42	ppm	LCS	28-JAN-00	EDXRF	
			ZN	2900	ppm	LCS	28-JAN-00	EDXRF	
			AS	650	ppm	LCS	28-JAN-00	EDXRF	
			CD	320	ppm	LCS	28-JAN-00	EDXRF	
L992061-002	18-NOV-99	BH4-2B	CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			CU	4900	ppm	LCS	28-JAN-00	EDXRF	
			FE	3.2	%	LCS	28-JAN-00	EDXRF	
			PB	4800	ppm	LCS	28-JAN-00	EDXRF	
			SE	28	ppm	LCS	28-JAN-00	EDXRF	
			ZN	2600	ppm	LCS	28-JAN-00	EDXRF	
			AS	350	ppm	LCS	28-JAN-00	EDXRF	
			CD	120	ppm	LCS	28-JAN-00	EDXRF	
			CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			CU	2500	ppm	LCS	28-JAN-00	EDXRF	
L992061-003	18-NOV-99	BH4-2C	FE	3.1	%	LCS	28-JAN-00	EDXRF	
			PB	2300	ppm	LCS	28-JAN-00	EDXRF	
			SE	14	ppm	LCS	28-JAN-00	EDXRF	
			ZN	1400	ppm	LCS	28-JAN-00	EDXRF	
			AS	200	ppm	LCS	28-JAN-00	EDXRF	
			CD	83	ppm	LCS	28-JAN-00	EDXRF	
			CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			CU	1500	ppm	LCS	28-JAN-00	EDXRF	
			FE	2.9	%	LCS	28-JAN-00	EDXRF	
			PB	1400	ppm	LCS	28-JAN-00	EDXRF	
L992061-004	18-NOV-99	BH4-2D	SE	<10	ppm	LCS	28-JAN-00	EDXRF	
			ZN	810	ppm	LCS	28-JAN-00	EDXRF	
			AS	180	ppm	LCS	28-JAN-00	EDXRF	
			CD	72	ppm	LCS	28-JAN-00	EDXRF	
			CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			AS	200	ppm	LCS	28-JAN-00	EDXRF	
			CD	83	ppm	LCS	28-JAN-00	EDXRF	
			CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			CU	1500	ppm	LCS	28-JAN-00	EDXRF	
			FE	2.9	%	LCS	28-JAN-00	EDXRF	
L992061-005	18-NOV-99	BH4-2E	PB	1400	ppm	LCS	28-JAN-00	EDXRF	
			SE	<10	ppm	LCS	28-JAN-00	EDXRF	
			ZN	810	ppm	LCS	28-JAN-00	EDXRF	
			AS	180	ppm	LCS	28-JAN-00	EDXRF	
			CD	72	ppm	LCS	28-JAN-00	EDXRF	
			CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			AS	200	ppm	LCS	28-JAN-00	EDXRF	
			CD	83	ppm	LCS	28-JAN-00	EDXRF	
			CR	<80	ppm	LCS	28-JAN-00	EDXRF	
			CU	1500	ppm	LCS	28-JAN-00	EDXRF	

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992061

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOID
L992061-005	18-NOV-99	BH4-2E	CU	1600	ppm	LCS	28-JAN-00	EDXRF
			FE	3.0	%	LCS	28-JAN-00	EDXRF
			PB	1400	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	800	ppm	LCS	28-JAN-00	EDXRF
L992061-006	18-NOV-99	BH4-2F	AS	23	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	58	ppm	LCS	28-JAN-00	EDXRF
			FE	1.8	%	LCS	28-JAN-00	EDXRF
L992061-007	18-NOV-99	BH4-2G	PB	30	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	32	ppm	LCS	28-JAN-00	EDXRF
			AS	13	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
L992061-008	18-NOV-99	BH4-3A	CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	23	ppm	LCS	28-JAN-00	EDXRF
			FE	2.1	%	LCS	28-JAN-00	EDXRF
			PB	36	ppm	LCS	28-JAN-00	EDXRF
			SE	34	ppm	LCS	28-JAN-00	EDXRF
L992061-009	18-NOV-99	BH4-4A	ZN	180	ppm	LCS	28-JAN-00	EDXRF
			AS	54	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	350	ppm	LCS	28-JAN-00	EDXRF
L992061-009	18-NOV-99	BH4-4A	FE	3.0	%	LCS	28-JAN-00	EDXRF
			PB	390	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	390	ppm	LCS	28-JAN-00	EDXRF
			AS	11000	ppm	LCS	28-JAN-00	EDXRF
L992061-009	18-NOV-99	BH4-4A	CD	2600	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	20000	ppm	LCS	28-JAN-00	EDXRF
			FE	4.0	%	LCS	28-JAN-00	EDXRF
			PB	22000	ppm	LCS	28-JAN-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992061

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992061-009	18-NOV-99	BH4-4A	SE	220	ppm	LCS	28-JAN-00		EDXRF
			ZN	8600	ppm	LCS	28-JAN-00		EDXRF
L992061-010	18-NOV-99	BH4-4A2	AS	7100	ppm	LCS	28-JAN-00		EDXRF
			CD	1700	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	18000	ppm	LCS	28-JAN-00		EDXRF
			FE	3.9	%	LCS	28-JAN-00		EDXRF
			PB	15000	ppm	LCS	28-JAN-00		EDXRF
			SE	120	ppm	LCS	28-JAN-00		EDXRF
			ZN	7400	ppm	LCS	28-JAN-00		EDXRF
			AS	2000	ppm	LCS	28-JAN-00		EDXRF
			CD	580	ppm	LCS	28-JAN-00		EDXRF
L992061-011	18-NOV-99	BH4-4B	CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	4300	ppm	LCS	28-JAN-00		EDXRF
			FE	2.6	%	LCS	28-JAN-00		EDXRF
			PB	5300	ppm	LCS	28-JAN-00		EDXRF
			SE	38	ppm	LCS	28-JAN-00		EDXRF
			ZN	1900	ppm	LCS	28-JAN-00		EDXRF
			AS	3200	ppm	LCS	28-JAN-00		EDXRF
			CD	900	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	6300	ppm	LCS	28-JAN-00		EDXRF
L992061-012	18-NOV-99	BH4-4C	FE	3.0	%	LCS	28-JAN-00		EDXRF
			PB	7600	ppm	LCS	28-JAN-00		EDXRF
			SE	55	ppm	LCS	28-JAN-00		EDXRF
			ZN	2800	ppm	LCS	28-JAN-00		EDXRF
			AS	1900	ppm	LCS	28-JAN-00		EDXRF
			CD	530	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	3600	ppm	LCS	28-JAN-00		EDXRF
			FE	2.5	%	LCS	28-JAN-00		EDXRF
			PB	5300	ppm	LCS	28-JAN-00		EDXRF
L992061-013	18-NOV-99	BH4-4D	SE	36	ppm	LCS	28-JAN-00		EDXRF
			ZN	1700	ppm	LCS	28-JAN-00		EDXRF
			AS	1900	ppm	LCS	28-JAN-00		EDXRF
			CD	530	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992061

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	METHOD
L992061-014	18-NOV-99	BH4-4E	AS	410	ppm	LCS	28-JAN-00		EDXRF
			CD	82	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	570	ppm	LCS	28-JAN-00		EDXRF
			FE	2.1	%	LCS	28-JAN-00		EDXRF
			PB	1300	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	290	ppm	LCS	28-JAN-00		EDXRF
			AS	100	ppm	LCS	28-JAN-00		EDXRF
			CD	21	ppm	LCS	28-JAN-00		EDXRF
L992061-015	18-NOV-99	BH4-4F	CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	170	ppm	LCS	28-JAN-00		EDXRF
			FE	2.3	%	LCS	28-JAN-00		EDXRF
			PB	270	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	110	ppm	LCS	28-JAN-00		EDXRF
			AS	4200	ppm	LCS	28-JAN-00		EDXRF
			CD	1500	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	23000	ppm	LCS	28-JAN-00		EDXRF
L992061-016	18-NOV-99	BH4-5A	FE	4.8	%	LCS	28-JAN-00		EDXRF
			PB	8600	ppm	LCS	28-JAN-00		EDXRF
			SE	72	ppm	LCS	28-JAN-00		EDXRF
			ZN	4300	ppm	LCS	28-JAN-00		EDXRF
			AS	4100	ppm	LCS	28-JAN-00		EDXRF
			CD	1400	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	23000	ppm	LCS	28-JAN-00		EDXRF
			FE	4.9	%	LCS	28-JAN-00		EDXRF
			PB	8300	ppm	LCS	28-JAN-00		EDXRF
L992061-017	18-NOV-99	BH4-5A2	SE	68	ppm	LCS	28-JAN-00		EDXRF
			ZN	4300	ppm	LCS	28-JAN-00		EDXRF
			AS	4100	ppm	LCS	28-JAN-00		EDXRF
			CD	1400	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	23000	ppm	LCS	28-JAN-00		EDXRF
			FE	4.9	%	LCS	28-JAN-00		EDXRF
			PB	8300	ppm	LCS	28-JAN-00		EDXRF
			SE	68	ppm	LCS	28-JAN-00		EDXRF
			ZN	4300	ppm	LCS	28-JAN-00		EDXRF
L992061-018	18-NOV-99	BH4-5B	AS	2500	ppm	LCS	28-JAN-00		EDXRF
			CD	930	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992061

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	AUDIT	DATE ANALYZED	HOLD
L992061-018	18-NOV-99	BH4-5B	CU	11000	ppm	LCS	28-JAN-00	EDXRF
			FE	3.9	%	LCS	28-JAN-00	EDXRF
			PB	5300	ppm	LCS	28-JAN-00	EDXRF
			SE	32	ppm	LCS	28-JAN-00	EDXRF
			ZN	2500	ppm	LCS	28-JAN-00	EDXRF
L992061-019	18-NOV-99	BH4-5C	AS	2000	ppm	LCS	28-JAN-00	EDXRF
			CD	700	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	8900	ppm	LCS	28-JAN-00	EDXRF
			FE	3.5	%	LCS	28-JAN-00	EDXRF
L992061-020	18-NOV-99	BH4-5D	PB	4500	ppm	LCS	28-JAN-00	EDXRF
			SE	24	ppm	LCS	28-JAN-00	EDXRF
			ZN	2000	ppm	LCS	28-JAN-00	EDXRF
			AS	910	ppm	LCS	28-JAN-00	EDXRF
			CD	100	ppm	LCS	28-JAN-00	EDXRF
L992061-021	18-NOV-99	BH4-5E	CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	1500	ppm	LCS	28-JAN-00	EDXRF
			FE	3.0	%	LCS	28-JAN-00	EDXRF
			PB	3600	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
L992061-022	18-NOV-99	BH4-5F	ZN	610	ppm	LCS	28-JAN-00	EDXRF
			AS	300	ppm	LCS	28-JAN-00	EDXRF
			CD	84	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	1400	ppm	LCS	28-JAN-00	EDXRF
L992061-022	18-NOV-99	BH4-5F	FE	2.6	%	LCS	28-JAN-00	EDXRF
			PB	950	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	360	ppm	LCS	28-JAN-00	EDXRF
			AS	130	ppm	LCS	28-JAN-00	EDXRF
L992061-022	18-NOV-99	BH4-5F	CD	12	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	500	ppm	LCS	28-JAN-00	EDXRF
			FE	2.4	%	LCS	28-JAN-00	EDXRF
			PB	470	ppm	LCS	28-JAN-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992061

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	RECEIVED		
L992061-022	18-NOV-99	BH4-5F	SE	<10	ppm	LCS	28-JAN-00			EDXRF
			ZN	120	ppm	LCS	28-JAN-00			EDXRF
L992061-023	18-NOV-99	BH4-6A	AS	310	ppm	LCS	28-JAN-00			EDXRF
			CD	190	ppm	LCS	28-JAN-00			EDXRF
			CR	<80	ppm	LCS	28-JAN-00			EDXRF
			CU	4000	ppm	LCS	28-JAN-00			EDXRF
			FE	3.0	%	LCS	28-JAN-00			EDXRF
			PB	1500	ppm	LCS	28-JAN-00			EDXRF
			SE	15	ppm	LCS	28-JAN-00			EDXRF
			ZN	1600	ppm	LCS	28-JAN-00			EDXRF
L992061-024	18-NOV-99	BH4-6B	AS	50	ppm	LCS	28-JAN-00			EDXRF
			CD	24	ppm	LCS	28-JAN-00			EDXRF
			CR	<80	ppm	LCS	28-JAN-00			EDXRF
			CU	620	ppm	LCS	28-JAN-00			EDXRF
			FE	1.8	%	LCS	28-JAN-00			EDXRF
			PB	380	ppm	LCS	28-JAN-00			EDXRF
			SE	<10	ppm	LCS	28-JAN-00			EDXRF
			ZN	370	ppm	LCS	28-JAN-00			EDXRF
L992061-025	18-NOV-99	BH4-6C	AS	150	ppm	LCS	28-JAN-00			EDXRF
			CD	60	ppm	LCS	28-JAN-00			EDXRF
			CR	<80	ppm	LCS	28-JAN-00			EDXRF
			CU	1700	ppm	LCS	28-JAN-00			EDXRF
			FE	2.7	%	LCS	28-JAN-00			EDXRF
			PB	890	ppm	LCS	28-JAN-00			EDXRF
			SE	<10	ppm	LCS	28-JAN-00			EDXRF
			ZN	1100	ppm	LCS	28-JAN-00			EDXRF
L992061-026	18-NOV-99	BH4-6D	AS	690	ppm	LCS	28-JAN-00			EDXRF
			CD	190	ppm	LCS	28-JAN-00			EDXRF
			CR	<80	ppm	LCS	28-JAN-00			EDXRF
			CU	6600	ppm	LCS	28-JAN-00			EDXRF
			FE	3.3	%	LCS	28-JAN-00			EDXRF
			PB	2800	ppm	LCS	28-JAN-00			EDXRF
			SE	17	ppm	LCS	28-JAN-00			EDXRF
			ZN	2700	ppm	LCS	28-JAN-00			EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT


El Paso

Water and Solid Waste (Project 3220)

Batch No: L992061

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD DAYS	METHOD
L992061-027	18-NOV-99	BH4-6E	AS	29	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	230	ppm	LCS	28-JAN-00		EDXRF
			FE	1.4	%	LCS	28-JAN-00		EDXRF
			PB	210	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	130	ppm	LCS	28-JAN-00		EDXRF
			AS	19	ppm	LCS	28-JAN-00		EDXRF
			CD	18	ppm	LCS	28-JAN-00		EDXRF
L992061-028	18-NOV-99	BH4-6E2	CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	240	ppm	LCS	28-JAN-00		EDXRF
			FE	1.4	%	LCS	28-JAN-00		EDXRF
			PB	200	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	150	ppm	LCS	28-JAN-00		EDXRF
			AS	43	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	190	ppm	LCS	28-JAN-00		EDXRF
L992061-029	18-NOV-99	BH4-6F	FE	1.2	%	LCS	28-JAN-00		EDXRF
			PB	140	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	260	ppm	LCS	28-JAN-00		EDXRF
			AS	43	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF

Approved

  
Vince K. Kline  
Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PAYS	
L000066-001	15-DEC-99	BH14-1A	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	16	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	1800	ppm	LCS	28-JAN-00		EDXRF
			FE	2.0	%	LCS	28-JAN-00		EDXRF
			PB	2600	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	210	ppm	LCS	28-JAN-00		EDXRF
L000066-002	15-DEC-99	BH14-3B	AS	27	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	520	ppm	LCS	28-JAN-00		EDXRF
			FE	2.2	%	LCS	28-JAN-00		EDXRF
			PB	420	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	68	ppm	LCS	28-JAN-00		EDXRF
L000066-003	15-DEC-99	BH14-3C	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	82	ppm	LCS	28-JAN-00		EDXRF
			CU	73	ppm	LCS	28-JAN-00		EDXRF
			FE	1.8	%	LCS	28-JAN-00		EDXRF
			PB	250	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	11	ppm	LCS	28-JAN-00		EDXRF
L000066-004	15-DEC-99	BH14-3D	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	36	ppm	LCS	28-JAN-00		EDXRF
			FE	1.6	%	LCS	28-JAN-00		EDXRF
			PB	190	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	<10	ppm	LCS	28-JAN-00		EDXRF
L000066-005	15-DEC-99	BH14-3E	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000066-005	15-DEC-99	BH14-3E	CU	<20	ppm	LCS	28-JAN-00		EDXRF
			FE	1.4	%	LCS	28-JAN-00		EDXRF
			PB	65	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	29	ppm	LCS	28-JAN-00		EDXRF
L000066-006	15-DEC-99	BH14-3F	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	70	ppm	LCS	28-JAN-00		EDXRF
			FE	1.1	%	LCS	28-JAN-00		EDXRF
L000066-007	15-DEC-99	BH14-3G	PB	74	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	11	ppm	LCS	28-JAN-00		EDXRF
			AS	43	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
L000066-008	15-DEC-99	BH14-3AH	CR	90	ppm	LCS	28-JAN-00		EDXRF
			CU	72	ppm	LCS	28-JAN-00		EDXRF
			FE	2.9	%	LCS	28-JAN-00		EDXRF
			PB	530	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
L000066-009	15-DEC-99	BH14-3I	ZN	74	ppm	LCS	28-JAN-00		EDXRF
			AS	19	ppm	LCS	28-JAN-00		EDXRF
			CD	11	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	<20	ppm	LCS	28-JAN-00		EDXRF
L000066-009	15-DEC-99	BH14-3I	FE	2.1	%	LCS	28-JAN-00		EDXRF
			PB	33	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	36	ppm	LCS	28-JAN-00		EDXRF
			AS	23	ppm	LCS	28-JAN-00		EDXRF
L000066-009	15-DEC-99	BH14-3I	CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	61	ppm	LCS	28-JAN-00		EDXRF
			FE	2.4	%	LCS	28-JAN-00		EDXRF
			PB	62	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000066-009	15-DEC-99	BH14-3I	SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	59	ppm	LCS	28-JAN-00		EDXRF
L000066-010	15-DEC-99	BH14-3J	AS	20	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	55	ppm	LCS	28-JAN-00		EDXRF
			FE	2.3	%	LCS	28-JAN-00		EDXRF
			PB	31	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	32	ppm	LCS	28-JAN-00		EDXRF
L000066-011	15-DEC-99	BH14-3J2	AS	15	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	39	ppm	LCS	28-JAN-00		EDXRF
			FE	2.2	%	LCS	28-JAN-00		EDXRF
			PB	28	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	40	ppm	LCS	28-JAN-00		EDXRF
L000066-012	15-DEC-99	BH14-3K	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	73	ppm	LCS	28-JAN-00		EDXRF
			FE	1.9	%	LCS	28-JAN-00		EDXRF
			PB	65	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	27	ppm	LCS	28-JAN-00		EDXRF
L000066-013	15-DEC-99	BH14-3L	AS	11	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	48	ppm	LCS	28-JAN-00		EDXRF
			FE	2.6	%	LCS	28-JAN-00		EDXRF
			PB	54	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	54	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000066-014	15-DEC-99	BH14-3M	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	<20	ppm	LCS	28-JAN-00		EDXRF
			FE	2.0	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	49	ppm	LCS	28-JAN-00		EDXRF
			AS	12	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
L000066-015	15-DEC-99	BH14-3N	CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	41	ppm	LCS	28-JAN-00		EDXRF
			FE	2.1	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	32	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	12	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	34	ppm	LCS	28-JAN-00		EDXRF
L000066-016	15-DEC-99	BH14-3O	FE	2.0	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	40	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	12	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	34	ppm	LCS	28-JAN-00		EDXRF
			FE	2.0	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
L000066-017	15-DEC-99	BH14-3P	SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	40	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	13	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	45	ppm	LCS	28-JAN-00		EDXRF
			FE	1.5	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	21	ppm	LCS	28-JAN-00		EDXRF
L000066-018	15-DEC-99	BH14-3Q	AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOID DAYS	METHOD
L000066-018	15-DEC-99	BH14-3Q	CU	<20	ppm	LCS	28-JAN-00		EDXRF
			FE	1.3	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	44	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	32	ppm	LCS	28-JAN-00		EDXRF
			FE	1.4	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	43	ppm	LCS	28-JAN-00		EDXRF
			AS	210	ppm	LCS	28-JAN-00		EDXRF
			CD	130	ppm	LCS	28-JAN-00		EDXRF
			CR	130	ppm	LCS	28-JAN-00		EDXRF
			CU	55000	ppm	LCS	28-JAN-00		EDXRF
			FE	3.5	%	LCS	28-JAN-00		EDXRF
			PB	1400	ppm	LCS	28-JAN-00		EDXRF
			SE	64	ppm	LCS	28-JAN-00		EDXRF
			ZN	2300	ppm	LCS	28-JAN-00		EDXRF
			AS	170	ppm	LCS	28-JAN-00		EDXRF
			CD	87	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	3300	ppm	LCS	28-JAN-00		EDXRF
			FE	2.1	%	LCS	28-JAN-00		EDXRF
			PB	2800	ppm	LCS	28-JAN-00		EDXRF
			SE	15	ppm	LCS	28-JAN-00		EDXRF
			ZN	1500	ppm	LCS	28-JAN-00		EDXRF
			AS	210	ppm	LCS	28-JAN-00		EDXRF
			CD	140	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	4400	ppm	LCS	28-JAN-00		EDXRF
			FE	2.4	%	LCS	28-JAN-00		EDXRF
			PB	4400	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L000066-022	16-DEC-99	BH14-2C	SE	15	ppm	LCS	28-JAN-00		EDXRF
			ZN	1500	ppm	LCS	28-JAN-00		EDXRF
L000066-023	16-DEC-99	BH14-2D	AS	62	ppm	LCS	28-JAN-00		EDXRF
			CD	18	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	1500	ppm	LCS	28-JAN-00		EDXRF
			FE	2.0	%	LCS	28-JAN-00		EDXRF
			RE	510	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	190	ppm	LCS	28-JAN-00		EDXRF
			AS	210	ppm	LCS	28-JAN-00		EDXRF
			CD	18	ppm	LCS	28-JAN-00		EDXRF
L000066-024	16-DEC-99	BH14-2E	CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	2400	ppm	LCS	28-JAN-00		EDXRF
			FE	2.3	%	LCS	28-JAN-00		EDXRF
			PB	970	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	230	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	12	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	26	ppm	LCS	28-JAN-00		EDXRF
L000066-025	16-DEC-99	BH14-2F	FE	1.2	%	LCS	28-JAN-00		EDXRF
			PB	26	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	16	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	12	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	26	ppm	LCS	28-JAN-00		EDXRF
			FE	1.2	%	LCS	28-JAN-00		EDXRF
			PB	26	ppm	LCS	28-JAN-00		EDXRF
L000066-026	16-DEC-99	BH14-2G	SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	16	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	25	ppm	LCS	28-JAN-00		EDXRF
			FE	1.6	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	40	ppm	LCS	28-JAN-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L000066-027	16-DEC-99	BH14-2H	AS	11	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	65	ppm	LCS	28-JAN-00	EDXRF
			FE	1.5	%	LCS	28-JAN-00	EDXRF
			PB	<10	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	29	ppm	LCS	28-JAN-00	EDXRF
			AS	17	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
L000066-028	16-DEC-99	BH14-2I	CR	<90	ppm	LCS	28-JAN-00	EDXRF
			CU	<20	ppm	LCS	28-JAN-00	EDXRF
			FE	1.8	%	LCS	28-JAN-00	EDXRF
			PB	21	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	28	ppm	LCS	28-JAN-00	EDXRF
			AS	<10	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	<20	ppm	LCS	28-JAN-00	EDXRF
L000066-029	16-DEC-99	BH14-2J	FE	1.8	%	LCS	28-JAN-00	EDXRF
			PB	42	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	15	ppm	LCS	28-JAN-00	EDXRF
			AS	<10	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	<20	ppm	LCS	28-JAN-00	EDXRF
			FE	1.8	%	LCS	28-JAN-00	EDXRF
			PB	42	ppm	LCS	28-JAN-00	EDXRF
L000066-030	16-DEC-99	BH14-2J	SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	15	ppm	LCS	28-JAN-00	EDXRF
			AS	10	ppm	LCS	28-JAN-00	EDXRF
			CD	12	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	38	ppm	LCS	28-JAN-00	EDXRF
			FE	2.1	%	LCS	28-JAN-00	EDXRF
			PB	50	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	49	ppm	LCS	28-JAN-00	EDXRF
L000066-031	16-DEC-99	BH14-2K	AS	17	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	<80	ppm	LCS	28-JAN-00	EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
L000066-031	16-DEC-99	BH14-2K	CU	34	ppm	LCS	28-JAN-00	EDXRF
			FE	2.5	%	LCS	28-JAN-00	EDXRF
			PB	48	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	43	ppm	LCS	28-JAN-00	EDXRF
L000066-032	16-DEC-99	BH14-2L	AS	16	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	32	ppm	LCS	28-JAN-00	EDXRF
			FE	2.5	%	LCS	28-JAN-00	EDXRF
			PB	47	ppm	LCS	28-JAN-00	EDXRF
L000066-033	16-DEC-99	BH14-2M	SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	60	ppm	LCS	28-JAN-00	EDXRF
			AS	26	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
L000066-034	16-DEC-99	BH14-2O	CU	32	ppm	LCS	28-JAN-00	EDXRF
			FE	2.6	%	LCS	28-JAN-00	EDXRF
			PB	15	ppm	LCS	28-JAN-00	EDXRF
			SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	56	ppm	LCS	28-JAN-00	EDXRF
L000066-035	16-DEC-99	BH14-2P	AS	<10	ppm	LCS	28-JAN-00	EDXRF
			CD	12	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
			CU	38	ppm	LCS	28-JAN-00	EDXRF
			FE	2.1	%	LCS	28-JAN-00	EDXRF
			PB	<10	ppm	LCS	28-JAN-00	EDXRF
L000066-035	16-DEC-99	BH14-2P	SE	<10	ppm	LCS	28-JAN-00	EDXRF
			ZN	34	ppm	LCS	28-JAN-00	EDXRF
			AS	16	ppm	LCS	28-JAN-00	EDXRF
			CD	<10	ppm	LCS	28-JAN-00	EDXRF
			CR	<80	ppm	LCS	28-JAN-00	EDXRF
L000066-035	16-DEC-99	BH14-2P	CU	<20	ppm	LCS	28-JAN-00	EDXRF
			FE	2.6	%	LCS	28-JAN-00	EDXRF
			PB	10	ppm	LCS	28-JAN-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000066

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	VOID DAYS	
L000066-035	16-DEC-99	BH14-2P	SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	46	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
			CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	<20	ppm	LCS	28-JAN-00		EDXRF
L000066-036	16-DEC-99	BH14-2Q	FE	2.1	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	50	ppm	LCS	28-JAN-00		EDXRF
			AS	<10	ppm	LCS	28-JAN-00		EDXRF
			CD	<10	ppm	LCS	28-JAN-00		EDXRF
L000066-037	16-DEC-99	BH14-2Q2	CR	<80	ppm	LCS	28-JAN-00		EDXRF
			CU	<20	ppm	LCS	28-JAN-00		EDXRF
			FE	2.1	%	LCS	28-JAN-00		EDXRF
			PB	<10	ppm	LCS	28-JAN-00		EDXRF
			SE	<10	ppm	LCS	28-JAN-00		EDXRF
			ZN	48	ppm	LCS	28-JAN-00		EDXRF

*Dince*  
Approved

*Dorene Cable*  
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000096

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000096-001	07-JAN-00	S. END OF EXCAVATION @ 1st Roundabout	AS	970	ppm	LCS	01-FEB-00		EDXRF
			CD	110	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	9600	ppm	LCS	01-FEB-00		EDXRF
			FE	0.93	%	LCS	01-FEB-00		EDXRF
			PB	>5	%	LCS	01-FEB-00		EDXRF
			SE	160	ppm	LCS	01-FEB-00		EDXRF
			ZN	740	ppm	LCS	01-FEB-00		EDXRF
			AS	1600	ppm	LCS	01-FEB-00		EDXRF
			CD	82	ppm	LCS	01-FEB-00		EDXRF
L000096-002	07-JAN-00	N. END OF EXCAVATION	CR	220	ppm	LCS	01-FEB-00		EDXRF
			CU	18000	ppm	LCS	01-FEB-00		EDXRF
			FE	1.3	%	LCS	01-FEB-00		EDXRF
			PB	>5	%	LCS	01-FEB-00		EDXRF
			SE	300	ppm	LCS	01-FEB-00		EDXRF
			ZN	1000	ppm	LCS	01-FEB-00		EDXRF
			AS	2000	ppm	LCS	01-FEB-00		EDXRF
			CD	260	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	21000	ppm	LCS	01-FEB-00		EDXRF
L000096-003	07-JAN-00	CENTER OF EXCAVATION between Pots 2/3 on West Wall	FE	6.4	%	LCS	01-FEB-00		EDXRF
			PB	>5	%	LCS	01-FEB-00		EDXRF
			SE	400	ppm	LCS	01-FEB-00		EDXRF
			ZN	3800	ppm	LCS	01-FEB-00		EDXRF
			AS	2000	ppm	LCS	01-FEB-00		EDXRF
			CD	260	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	21000	ppm	LCS	01-FEB-00		EDXRF
			FE	6.4	%	LCS	01-FEB-00		EDXRF
			PB	>5	%	LCS	01-FEB-00		EDXRF

Approved

*Vince Kelle*  
*Deane Cobb*  
 Reviewer

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992077-001	15-NOV-99	EP 114A	AS	600	ppm	LCS	01-FEB-00		EDXRF
			CD	200	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	710	ppm	LCS	01-FEB-00		EDXRF
			FE	3.0	%	LCS	01-FEB-00		EDXRF
			PB	840	ppm	LCS	01-FEB-00		EDXRF
			SE	11	ppm	LCS	01-FEB-00		EDXRF
			ZN	3200	ppm	LCS	01-FEB-00		EDXRF
L992077-002	15-NOV-99	EP 114B	AS	310	ppm	LCS	01-FEB-00		EDXRF
			CD	460	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	250	ppm	LCS	01-FEB-00		EDXRF
			FE	2.1	%	LCS	01-FEB-00		EDXRF
			PB	270	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	1700	ppm	LCS	01-FEB-00		EDXRF
L992077-003	15-NOV-99	EP 114C	AS	18	ppm	LCS	01-FEB-00		EDXRF
			CD	<10	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	45	ppm	LCS	01-FEB-00		EDXRF
			FE	2.0	%	LCS	01-FEB-00		EDXRF
			PB	64	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	2000	ppm	LCS	01-FEB-00		EDXRF
L992077-004	15-NOV-99	EP 114D	AS	110	ppm	LCS	01-FEB-00		EDXRF
			CD	24	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	250	ppm	LCS	01-FEB-00		EDXRF
			FE	2.3	%	LCS	01-FEB-00		EDXRF
			PB	210	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	1300	ppm	LCS	01-FEB-00		EDXRF
L992077-005	16-NOV-99	EP 115A	AS	2800	ppm	LCS	01-FEB-00		EDXRF
			CD	850	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992077-005	16-NOV-99	EP 115A	CU	16000	ppm	LCS	01-FEB-00		EDXRF
			FE	3.5	%	LCS	01-FEB-00		EDXRF
			PB	7000	ppm	LCS	01-FEB-00		EDXRF
			SE	67	ppm	LCS	01-FEB-00		EDXRF
			ZN	5300	ppm	LCS	01-FEB-00		EDXRF
			AS	950	ppm	LCS	01-FEB-00		EDXRF
L992077-006	16-NOV-99	EP 115B	CD	400	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	5900	ppm	LCS	01-FEB-00		EDXRF
			FE	3.9	%	LCS	01-FEB-00		EDXRF
			PB	2800	ppm	LCS	01-FEB-00		EDXRF
			SE	21	ppm	LCS	01-FEB-00		EDXRF
L992077-007	16-NOV-99	EP 115C	ZN	2300	ppm	LCS	01-FEB-00		EDXRF
			AS	830	ppm	LCS	01-FEB-00		EDXRF
			CD	380	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	5000	ppm	LCS	01-FEB-00		EDXRF
			FE	4.0	%	LCS	01-FEB-00		EDXRF
L992077-008	16-NOV-99	EP 115D	PB	2300	ppm	LCS	01-FEB-00		EDXRF
			SE	26	ppm	LCS	01-FEB-00		EDXRF
			ZN	1900	ppm	LCS	01-FEB-00		EDXRF
			AS	1100	ppm	LCS	01-FEB-00		EDXRF
			CD	420	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
L992077-009	16-NOV-99	EP 115E	CU	5500	ppm	LCS	01-FEB-00		EDXRF
			FE	3.9	%	LCS	01-FEB-00		EDXRF
			PB	2800	ppm	LCS	01-FEB-00		EDXRF
			SE	20	ppm	LCS	01-FEB-00		EDXRF
			ZN	2100	ppm	LCS	01-FEB-00		EDXRF
			AS	750	ppm	LCS	01-FEB-00		EDXRF
			CD	320	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	3500	ppm	LCS	01-FEB-00		EDXRF
			FE	3.9	%	LCS	01-FEB-00		EDXRF
			PB	1700	ppm	LCS	01-FEB-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992077-009	16-NOV-99	EP 115E	SE	18	ppm	LCS	01-FEB-00		EDXRF
			ZN	1300	ppm	LCS	01-FEB-00		EDXRF
L992077-010	16-NOV-99	EP 115F	AS	360	ppm	LCS	01-FEB-00		EDXRF
			CD	270	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	350	ppm	LCS	01-FEB-00		EDXRF
			FE	2.4	%	LCS	01-FEB-00		EDXRF
			PB	510	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	1200	ppm	LCS	01-FEB-00		EDXRF
L992077-011	16-NOV-99	EP 116A	AS	18000	ppm	LCS	01-FEB-00		EDXRF
			CD	530	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	57000	ppm	LCS	01-FEB-00		EDXRF
			FE	9.9	%	LCS	01-FEB-00		EDXRF
			PB	40000	ppm	LCS	01-FEB-00		EDXRF
			SE	2400	ppm	LCS	01-FEB-00		EDXRF
			ZN	7000	ppm	LCS	01-FEB-00		EDXRF
L992077-012	16-NOV-99	EP 116A2	AS	11000	ppm	LCS	01-FEB-00		EDXRF
			CD	340	ppm	LCS	01-FEB-00		EDXRF
			CR	90	ppm	LCS	01-FEB-00		EDXRF
			CU	82000	ppm	LCS	01-FEB-00		EDXRF
			FE	1.1	%	LCS	01-FEB-00		EDXRF
			PB	19000	ppm	LCS	01-FEB-00		EDXRF
			SE	240	ppm	LCS	01-FEB-00		EDXRF
			ZN	5900	ppm	LCS	01-FEB-00		EDXRF
L992077-013	16-NOV-99	EP 116B	AS	9800	ppm	LCS	01-FEB-00		EDXRF
			CD	360	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	97000	ppm	LCS	01-FEB-00		EDXRF
			FE	10	%	LCS	01-FEB-00		EDXRF
			PB	26000	ppm	LCS	01-FEB-00		EDXRF
			SE	720	ppm	LCS	01-FEB-00		EDXRF
			ZN	7100	ppm	LCS	01-FEB-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992077-014	16-NOV-99	EP 116C	AS	9200	ppm	LCS	01-FEB-00		EDXRF
			CD	360	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	100000	ppm	LCS	01-FEB-00		EDXRF
			FE	10	%	LCS	01-FEB-00		EDXRF
			PB	23000	ppm	LCS	01-FEB-00		EDXRF
			SE	570	ppm	LCS	01-FEB-00		EDXRF
			ZN	6800	ppm	LCS	01-FEB-00		EDXRF
L992077-015	16-NOV-99	EP 116D	AS	6800	ppm	LCS	01-FEB-00		EDXRF
			CD	960	ppm	LCS	01-FEB-00		EDXRF
			CR	83	ppm	LCS	01-FEB-00		EDXRF
			CU	23000	ppm	LCS	01-FEB-00		EDXRF
			FE	6.7	%	LCS	01-FEB-00		EDXRF
			PB	16000	ppm	LCS	01-FEB-00		EDXRF
			SE	780	ppm	LCS	01-FEB-00		EDXRF
			ZN	4900	ppm	LCS	01-FEB-00		EDXRF
L992077-016	16-NOV-99	EP 116E	AS	5300	ppm	LCS	01-FEB-00		EDXRF
			CD	1200	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	33000	ppm	LCS	01-FEB-00		EDXRF
			FE	7.2	%	LCS	01-FEB-00		EDXRF
			PB	13000	ppm	LCS	01-FEB-00		EDXRF
			SE	280	ppm	LCS	01-FEB-00		EDXRF
			ZN	6300	ppm	LCS	01-FEB-00		EDXRF
L992077-017	16-NOV-99	EP 117A	AS	2300	ppm	LCS	01-FEB-00		EDXRF
			CD	480	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	4100	ppm	LCS	01-FEB-00		EDXRF
			FE	3.2	%	LCS	01-FEB-00		EDXRF
			PB	3500	ppm	LCS	01-FEB-00		EDXRF
			SE	34	ppm	LCS	01-FEB-00		EDXRF
			ZN	1900	ppm	LCS	01-FEB-00		EDXRF
L992077-018	16-NOV-99	EP 117B	AS	1700	ppm	LCS	01-FEB-00		EDXRF
			CD	300	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L992077-018	16-NOV-99	EP 117B	CU	2500	ppm	LCS	01-FEB-00	EDXRF
			FE	2.9	%	LCS	01-FEB-00	EDXRF
			PB	2300	ppm	LCS	01-FEB-00	EDXRF
			SE	23	ppm	LCS	01-FEB-00	EDXRF
			ZN	1300	ppm	LCS	01-FEB-00	EDXRF
L992077-019	16-NOV-99	EP 117C	AS	2300	ppm	LCS	01-FEB-00	EDXRF
			CD	460	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	5400	ppm	LCS	01-FEB-00	EDXRF
			FE	3.5	%	LCS	01-FEB-00	EDXRF
			PB	4700	ppm	LCS	01-FEB-00	EDXRF
			SE	30	ppm	LCS	01-FEB-00	EDXRF
			ZN	2400	ppm	LCS	01-FEB-00	EDXRF
L992077-020	16-NOV-99	EP 117D	AS	1200	ppm	LCS	01-FEB-00	EDXRF
			CD	230	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	2900	ppm	LCS	01-FEB-00	EDXRF
			FE	2.7	%	LCS	01-FEB-00	EDXRF
			PB	2900	ppm	LCS	01-FEB-00	EDXRF
			SE	21	ppm	LCS	01-FEB-00	EDXRF
			ZN	1200	ppm	LCS	01-FEB-00	EDXRF
L992077-021	16-NOV-99	EP 117E	AS	140	ppm	LCS	01-FEB-00	EDXRF
			CD	<10	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	160	ppm	LCS	01-FEB-00	EDXRF
			FE	2.0	%	LCS	01-FEB-00	EDXRF
			PB	230	ppm	LCS	01-FEB-00	EDXRF
			SE	11	ppm	LCS	01-FEB-00	EDXRF
			ZN	31	ppm	LCS	01-FEB-00	EDXRF
L992077-022	16-NOV-99	EP 117F	AS	210	ppm	LCS	01-FEB-00	EDXRF
			CD	<10	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	140	ppm	LCS	01-FEB-00	EDXRF
			FE	2.3	%	LCS	01-FEB-00	EDXRF
			PB	110	ppm	LCS	01-FEB-00	EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L992077-022	16-NOV-99	EP 117F	SE	<10	ppm	LCS	01-FEB-00	EDXRF
			ZN	62	ppm	LCS	01-FEB-00	EDXRF
L992077-023	16-NOV-99	EP 117F2	AS	500	ppm	LCS	01-FEB-00	EDXRF
			CD	66	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	1100	ppm	LCS	01-FEB-00	EDXRF
			FE	2.3	%	LCS	01-FEB-00	EDXRF
			PB	1100	ppm	LCS	01-FEB-00	EDXRF
			SE	<10	ppm	LCS	01-FEB-00	EDXRF
			ZN	470	ppm	LCS	01-FEB-00	EDXRF
L992077-024	17-NOV-99	EP 118A	AS	1300	ppm	LCS	01-FEB-00	EDXRF
			CD	340	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	17000	ppm	LCS	01-FEB-00	EDXRF
			FE	4.3	%	LCS	01-FEB-00	EDXRF
			PB	10000	ppm	LCS	01-FEB-00	EDXRF
			SE	110	ppm	LCS	01-FEB-00	EDXRF
			ZN	4800	ppm	LCS	01-FEB-00	EDXRF
L992077-025	17-NOV-99	EP 118A2	AS	1000	ppm	LCS	01-FEB-00	EDXRF
			CD	240	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	12000	ppm	LCS	01-FEB-00	EDXRF
			FE	3.9	%	LCS	01-FEB-00	EDXRF
			PB	7400	ppm	LCS	01-FEB-00	EDXRF
			SE	65	ppm	LCS	01-FEB-00	EDXRF
			ZN	3400	ppm	LCS	01-FEB-00	EDXRF
L992077-026	17-NOV-99	EP 118B	AS	720	ppm	LCS	01-FEB-00	EDXRF
			CD	200	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
			CU	8400	ppm	LCS	01-FEB-00	EDXRF
			FE	3.4	%	LCS	01-FEB-00	EDXRF
			PB	5900	ppm	LCS	01-FEB-00	EDXRF
			SE	57	ppm	LCS	01-FEB-00	EDXRF
			ZN	2800	ppm	LCS	01-FEB-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992077-027	17-NOV-99	EP 118C	AS	120	ppm	LCS	01-FEB-00		EDXRF
			CD	56	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	1600	ppm	LCS	01-FEB-00		EDXRF
			FE	1.9	%	LCS	01-FEB-00		EDXRF
			PB	1700	ppm	LCS	01-FEB-00		EDXRF
			SE	12	ppm	LCS	01-FEB-00		EDXRF
			ZN	640	ppm	LCS	01-FEB-00		EDXRF
			AS	61	ppm	LCS	01-FEB-00		EDXRF
			CD	29	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	860	ppm	LCS	01-FEB-00		EDXRF
L992077-028	17-NOV-99	EP 118D	FE	1.7	%	LCS	01-FEB-00		EDXRF
			PB	950	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	360	ppm	LCS	01-FEB-00		EDXRF
			AS	75	ppm	LCS	01-FEB-00		EDXRF
			CD	43	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	1100	ppm	LCS	01-FEB-00		EDXRF
			FE	1.7	%	LCS	01-FEB-00		EDXRF
			PB	1300	ppm	LCS	01-FEB-00		EDXRF
			SE	10	ppm	LCS	01-FEB-00		EDXRF
			ZN	480	ppm	LCS	01-FEB-00		EDXRF
L992077-029	17-NOV-99	EP 118E	AS	54	ppm	LCS	01-FEB-00		EDXRF
			CD	20	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	560	ppm	LCS	01-FEB-00		EDXRF
			FE	1.6	%	LCS	01-FEB-00		EDXRF
			PB	630	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	450	ppm	LCS	01-FEB-00		EDXRF
			AS	340	ppm	LCS	01-FEB-00		EDXRF
			CD	110	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	<80	ppm	LCS	01-FEB-00		EDXRF
L992077-030	17-NOV-99	EP 118F	AS	54	ppm	LCS	01-FEB-00		EDXRF
			CD	20	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	560	ppm	LCS	01-FEB-00		EDXRF
			FE	1.6	%	LCS	01-FEB-00		EDXRF
			PB	630	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	450	ppm	LCS	01-FEB-00		EDXRF
			AS	340	ppm	LCS	01-FEB-00		EDXRF
			CD	110	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	<80	ppm	LCS	01-FEB-00		EDXRF
L992077-031	17-NOV-99	BH4-1A	AS	54	ppm	LCS	01-FEB-00		EDXRF
			CD	20	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	560	ppm	LCS	01-FEB-00		EDXRF
			FE	1.6	%	LCS	01-FEB-00		EDXRF
			PB	630	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	450	ppm	LCS	01-FEB-00		EDXRF
			AS	340	ppm	LCS	01-FEB-00		EDXRF
			CD	110	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	<80	ppm	LCS	01-FEB-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L992077-031	17-NOV-99	BH4-1A	CU	7300	ppm	LCS	01-FEB-00	EDXRF
			FE	2.6	%	LCS	01-FEB-00	EDXRF
			PB	3700	ppm	LCS	01-FEB-00	EDXRF
			SE	<10	ppm	LCS	01-FEB-00	EDXRF
L992077-032	17-NOV-99	BH4-1A2	ZN	2100	ppm	LCS	01-FEB-00	EDXRF
			AS	240	ppm	LCS	01-FEB-00	EDXRF
			CD	66	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
L992077-033	17-NOV-99	BH4-1B	CU	6500	ppm	LCS	01-FEB-00	EDXRF
			FE	2.4	%	LCS	01-FEB-00	EDXRF
			PB	3500	ppm	LCS	01-FEB-00	EDXRF
			SE	<10	ppm	LCS	01-FEB-00	EDXRF
L992077-034	17-NOV-99	BH4-1C	ZN	1800	ppm	LCS	01-FEB-00	EDXRF
			AS	260	ppm	LCS	01-FEB-00	EDXRF
			CD	77	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
L992077-035	17-NOV-99	BH4-1D	CU	4600	ppm	LCS	01-FEB-00	EDXRF
			FE	2.5	%	LCS	01-FEB-00	EDXRF
			PB	4100	ppm	LCS	01-FEB-00	EDXRF
			SE	17	ppm	LCS	01-FEB-00	EDXRF
L992077-036	17-NOV-99	BH4-1E	ZN	2300	ppm	LCS	01-FEB-00	EDXRF
			AS	200	ppm	LCS	01-FEB-00	EDXRF
			CD	60	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
L992077-037	17-NOV-99	BH4-1F	CU	4400	ppm	LCS	01-FEB-00	EDXRF
			FE	2.6	%	LCS	01-FEB-00	EDXRF
			PB	2800	ppm	LCS	01-FEB-00	EDXRF
			SE	<10	ppm	LCS	01-FEB-00	EDXRF
L992077-038	17-NOV-99	BH4-1G	ZN	1600	ppm	LCS	01-FEB-00	EDXRF
			AS	170	ppm	LCS	01-FEB-00	EDXRF
			CD	83	ppm	LCS	01-FEB-00	EDXRF
			CR	<80	ppm	LCS	01-FEB-00	EDXRF
L992077-039	17-NOV-99	BH4-1H	CU	3400	ppm	LCS	01-FEB-00	EDXRF
			FE	2.3	%	LCS	01-FEB-00	EDXRF
			PB	3300	ppm	LCS	01-FEB-00	EDXRF

ASARCO TECHNICAL SERVICES CENTER

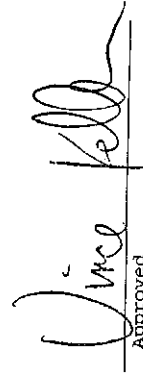
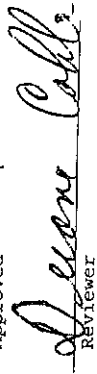
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L992077

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L992077-035	17-NOV-99	BH4-1D	SE	13	ppm	LCS	01-FEB-00		EDXRF
			ZN	1800	ppm	LCS	01-FEB-00		EDXRF
			AS	140	ppm	LCS	01-FEB-00		EDXRF
			CD	54	ppm	LCS	01-FEB-00		EDXRF
			CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	3300	ppm	LCS	01-FEB-00		EDXRF
L992077-036	17-NOV-99	BH4-1E	FE	2.4	%	LCS	01-FEB-00		EDXRF
			PB	2200	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	1200	ppm	LCS	01-FEB-00		EDXRF
			AS	11	ppm	LCS	01-FEB-00		EDXRF
			CD	<10	ppm	LCS	01-FEB-00		EDXRF
L992077-037	17-NOV-99	BH4-1F	CR	<80	ppm	LCS	01-FEB-00		EDXRF
			CU	110	ppm	LCS	01-FEB-00		EDXRF
			FE	2.0	%	LCS	01-FEB-00		EDXRF
			PB	97	ppm	LCS	01-FEB-00		EDXRF
			SE	<10	ppm	LCS	01-FEB-00		EDXRF
			ZN	31	ppm	LCS	01-FEB-00		EDXRF

  
 Approved  
  
 REVIEWER

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		ASARCO - EL PASO, TX		1 BAG													
SAMPLERS: (Signature)				SAMPLE NUMBER													
DATE	TIME	COMP.	GRAB			Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	TPH	XRF (As, Cd, Cr, Cu, Pb, Se, Zn)				
11/3/99	1223			BH12-1A									X				
	1225			BH12-1B									X				
	1227			BH12-1C									X				
	1229			BH12-1D									X				
	1231			BH12-1E									X				
	1233			BH12-1E2									X				
	1304			BH12-2A									X				
	1311			BH12-2B									X				
	1346			BH12-3A									X				
	1413			BH12-3B									X				
	1415			BH12-3C									X				
	1516			BH12-4A									X				
	1518			BH12-4B									X				
	1520			BH12-4C									X				
	1532			BH12-4D									X				
Relinquished (Signature)				Date/Time		Received by: (Signature)		Lab TSC		P.O. #		Shipped via: Bus Fed Ex, UPS					
11/11/99 1600								Salt Lake City, UT				Other					
Relinquished (Signature)				Date/Time		Received by: (Signature)		Remarks				Air Bill #					
11/11/99 1600																	
Relinquished (Signature)				Date/Time		Received for Laboratory by: (Signature)		Date/Time				Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits					
						11/12/99 1030						<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter			
						11/12/99 1030						<input type="checkbox"/> Other					

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		ASARCO - EL PASO, TX		1 BAG													
SAMPLERS: (Signature)																	
Handwritten Signature																	
DATE	TIME	COMP	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Se)	REMARKS		
11/4/99	1600			SS1A11-17													
	0930			BH12-5A													
	1115			BH12-6A													
	1330			BH12-7A													
	1337			BH12-7B													
	1335			BH12-7B													
	1402			BH12-8A													
	1404			BH12-8B													
	1406			BH12-8C													
	1500			BH12-9A													
	1502			BH12-9A2													
	1522			BH12-9B													
11/5/99	0915			SS1A11-18A													
	0920			SS1A11-18B													
	0923			SS1A11-18C													
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other			
Handwritten Signature		11/1/99 1600				Salt Lake City, UT											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks											
Handwritten Signature																	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:									
Handwritten Signature				Handwritten Signature		11/2/99 1030		<input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other									

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PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		ASARCO - EL PASO, TX		1 BAG													
SAMPLERS: (Signature)		Hansel Gutierrez															
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (K, Co, Cu, Fe, Pb, Zn, etc.)				
11/5/99	1400			BH14-1A									X				
	1426			BH14-1B									X				
	1435			BH14-1C									X				
	1437			BH14-1D									X				
	1446			BH14-1E									X				
	1448			BH14-1F									X				
	1447			BH14-1F									X				
	1455			BH14-1G									X				
	1457			BH14-1H									X				
	1500			BH14-1I									X				
	1503			BH14-1J									X				
	1532			BH14-1K									X				
<div> <div>Relinquished (Signature)</div> <div>11/5/99 1400</div> <div>Received by: (Signature)</div> </div> <div> <div>Relinquished (Signature)</div> <div>11/11/99 1600</div> <div>Received by: (Signature)</div> </div> <div> <div>Relinquished (Signature)</div> <div></div> <div>Received for Laboratory by: (Signature)</div> </div>																	
<div> <div>Lab</div> <div>TSX</div> <div>Date/Time</div> <div>11-12-99 1030</div> </div> <div> <div>Shipped via: Bus, Fed Ex, UPS</div> <div>Other</div> <div>Air Bill #</div> </div>																	
<div> <div>Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits</div> <div><input type="checkbox"/> QA/QC standard mixing instructions</div> <div><input type="checkbox"/> Cover letter</div> </div> <div> <div>Split Samples: <input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Declined</div> </div>																	

Return results & electronic copy to:

HFORM-1-

## CHAIN OF CUSTODY RECORD

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS									
1035		ASARCO-EL PASO, TX		1 BAG		<div style="display: flex; justify-content: space-between;"> <div> <p>TPH</p> <p>BTEX</p> <p>Total Recoverable Metals UF/HNO<sub>3</sub></p> <p>Total Metals UF/HNO<sub>3</sub></p> <p>CN UF/NaOH</p> <p>Diss. Metal F/HNO<sub>3</sub></p> <p>Nutrients UF/H<sub>2</sub>SO<sub>4</sub></p> <p>Commons UF/RAW</p> </div> <div> <p>Fe, Pb, Zn, Cu</p> <p>XRF (As, Cd, Cr, Cu)</p> </div> </div>									
DATE		TIME		SAMPLE NUMBER											
11/3/99		1534		BH12-4D2											
↓		1536		BH12-4E											
11/8/99		0936		BH14-1L											
↓		0938		BH14-1L2		<div style="display: flex; justify-content: space-between;"> <div> <p>TPH</p> <p>BTEX</p> <p>Total Recoverable Metals UF/HNO<sub>3</sub></p> <p>Total Metals UF/HNO<sub>3</sub></p> <p>CN UF/NaOH</p> <p>Diss. Metal F/HNO<sub>3</sub></p> <p>Nutrients UF/H<sub>2</sub>SO<sub>4</sub></p> <p>Commons UF/RAW</p> </div> <div> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> </div> </div>									
↓		0940		BH14-1M											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS Other Air Bill #			
SVP Champ 03		11/1/99 1600				Selt Lake City, UT									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time						Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other			
SVP Champ 03		11/1/99 1600		SVP Champ 03		11-12-99 1630						Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined			



# CHAIN OF CUSTODY RECORD

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PROJ. NO.	PROJECT NAME		NO. OF CONTAINERS		REMARKS									
1035	ASARCO - El Paso, TX		1 BAG		<div style="transform: rotate(-45deg); display: inline-block;">                     XRF (As, Cd, Cu, Pb, Zn, Se)                 </div>									
SAMPLERS: (Signature)														
HAROLD KUTZ														
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	REMARKS	
11/28/99	0808			BH4-2A								X		
	0810			BH4-2B								X		
	0812			BH4-2C								X		
	0815			BH4-2D								X		
	0819			BH4-2E								X		
	0825			BH4-2F								X		
	0830			BH4-2G								X		
	1253			BH4-4A								X		
	1255			BH4-4A2								X		
	1258			BH4-4B								X		
	1300			BH4-4C								X		
	1304			BH4-4D								X		
	1306			BH4-4E								X		
	1310			BH4-4F								X		
Relinquished (Signature)					Received by: (Signature)		Lab		P.O. #		Shipped via: Bus Fed Ex, UPS			
<div style="font-family: cursive;">                         Eric Chambers                     </div>					11/28/99 1600		TSC				Other			
Relinquished (Signature)					Received by: (Signature)		Remarks				Air Bill #			
<div style="font-family: cursive;">                         Matten                     </div>					11/24/99 1030									
Relinquished (Signature)					Received for Laboratory by: (Signature)		Date/Time				Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits			
											<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter	
Return results & electronic copy to:														

CHAIN OF CUSTODY RECORD

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PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		ANALYSIS										REMARKS	
DATE	TIME	GRAB	COMP.	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, etc.)		
1035	ASARCO, EL PASO, TX														
SAMPLERS: (Signature)															
HAROLD KUTZ															
11/15/99	1440			BH4-6A									X		
	1442			BH4-6B									X		
	1446			BH4-6C									X		
	1448			BH4-6D									X		
	1450			BH4-6E									X		
	1452			BH4-6E2									X		
	1502			BH4-6F									X		
	1505			BH4-3A									X		
	1348			BH4-5A									X		
	1350			BH4-5A2									X		
	1353			BH4-5B									X		
	1355			BH4-5C									X		
	1357			BH4-5D									X		
	1359			BH4-5E									X		
	1464			BH4-5F									X		
Relinquished (Signature)					Received by: (Signature)					Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS Other	
Date/Time					Date/Time					TSL					
11/23/99 1600															
Relinquished (Signature)					Received by: (Signature)					Remarks					
Date/Time					Date/Time										
11/23/99 1600															
Relinquished (Signature)					Received for Laboratory by: (Signature)					Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined	
Date/Time					Date/Time					11/24/99 1030					
11/24/99 1030															

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[illegible]

# HYDROTECHNICS, INC.

## CHAIN OF CUSTODY RECORD

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME		NO. OF CONTAINERS		REMARKS									
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Se, Zn)	REMARKS
10/15/99	1053			EP 114 A									X	
↓	1055			EP 114 B									X	
↓	1059			EP 114 C									X	
↓	1108			EP 114 D									X	
↓	0752			EP 115 A									X	
↓	0754			EP 115 B									X	
↓	0804			EP 115 C									X	
↓	0806			EP 115 D									X	
↓	0808			EP 115 E									X	
↓	0815			EP 115 F									X	
↓	0930			EP 116 A									X	
↓	0932			EP 116 A2									X	
↓	0935			EP 116 B									X	
↓	0937			EP 116 C									X	
↓	0943			EP 116 D									X	
Relinquished (Signature)		Received by: (Signature)		Date/Time	Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
Relinquished (Signature)		Received by: (Signature)		Date/Time	TSC				Other					
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time	11/23/99 1600		11/30/99 12:30		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits					
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time	11/23/99 1600		11/30/99 12:30		<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter			
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time	11/23/99 1600		11/30/99 12:30		<input type="checkbox"/> Other					

CHAIN OF CUSTODY RECORD

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PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		ASARCO - El Paso, TX		1 BAG													
SAMPLERS: (Signature)		HAROLD KUTZ															
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Pb, Zn, Se)	REMARKS			
11/16/99	0533			EP 116-E									X				
	1315			EP 117-A									X				
	1318			EP 117-B									X				
	1320			EP 117-C									X				
	1326			EP 117-D									X				
	1328			EP 117-E									X				
	1330			EP 117-F									X				
	1332			EP 117-F2									X				
11/17/99	1520			BH4-1A									X				
	1522			BH4-1A2									X				
	1525			BH4-1B									X				
	1528			BH4-1C									X				
	1530			BH4-1D									X				
	1535			BH4-1E									X				
	1540			BH4-1F									X				
Relinquished (Signature)		Received by: (Signature)		Date/Time		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS							
11/16/99		11/23/99		1600		TSC											
Relinquished (Signature)		Received by: (Signature)		Date/Time		Remarks											
11/16/99		11/23/99		1600		TSC											
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits											
11/16/99		11/23/99		1600		TSC											
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions											
11/16/99		11/23/99		1600		TSC											
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Cover letter											
11/16/99		11/23/99		1600		TSC											
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined											
11/16/99		11/23/99		1600		TSC											

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HFORM-1-4

# HYGIENICS, INC.

## CHAIN OF CUSTODY RECORD

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Hg, Ni, Se, V)			
1035	ASARCO - EL PASO, TX		1 BAG													
12/15/98	1340			BH14-30												
	1445			BH14-3P												
	1500			BH14-3Q												
	1502			BH14-3Q2												
	12/16/98	0845		BH14-2A												
	0847			BH14-2B												
	0849			BH14-2C												
	0851			BH14-2D												
	0853			BH14-2E												
	0915			BH14-2F												
	0917			BH14-2G												
	0935			BH14-2H												
	0937			BH14-2I												
	0939			BH14-2J												
	1020			BH14-2J												
Relinquished (Signature)		Received by: (Signature)		Lab		TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		Air Bill #		
12/16/98		11/7/00 16:00		SALT LAKE CITY, UT												
Relinquished (Signature)		Received by: (Signature)		Remarks												
12/16/98		11/10/00 16:00		Received for Laboratory by: (Signature)												
Relinquished (Signature)		Received by: (Signature)		Date/Time		11:00		11:30								
				Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other												
				Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined												

Return results & electronic copy to:



**THE UNIVERSITY OF CHICAGO**

•

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Zn, Se)	REMARKS
1035	ASARCO - EL PASO, TX	1 BAG										
1030	BH14-2K											
1035	BH14-2L											
1110	BH14-2M											
1300	BH14-20											
1302	BH14-2P											
1330	BH14-2Q											
1332	BH14-2Q2											

RELINQUISHED (SIGNATURE) *[Signature]*

RELINQUISHED (SIGNATURE) *[Signature]*

RELINQUISHED (SIGNATURE) *[Signature]*

DATE/TIME 1/7/00 16:00

DATE/TIME 1/10/00 16:00

DATE/TIME 1/10/00 16:00

RECEIVED BY: (SIGNATURE) *[Signature]*

RECEIVED BY: (SIGNATURE) *[Signature]*

RECEIVED FOR LABORATORY BY: (SIGNATURE) *[Signature]*

LAB TSC

REMARKS SALT LAKE CITY, UT

SHIPPED VIA: BUS, Fed Ex, UPS

OTHER

AIR BILL #

ENCLOSED: ☐ Parameter sheet w/ detection limits

☐ QA/QC standard mixing instructions

☐ Cover letter

SPLIT SAMPLES: ☐ Accepted ☐ Declined

RETURN RESULTS & ELECTRONIC COPY TO:

HFORM-1-4

# ASARCO

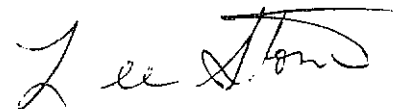
March 22, 2000

Lairy Johnson  
Hydrometrics, Inc.  
El Paso

**RECEIVED**  
MAR 27 2000  
HYDROMETRICS, INC.

Please find attached the X-ray results for your El Paso soil sample collected on the 9<sup>th</sup> of February. Also attached are the X-ray QC results.

If you have any questions pertaining to the data please feel free to call.



Lee Stone  
Senior Analytical  
Chemist

cc: GRStanga (w\attach)



L000237

CCV EVERY 10TH SAMPLE (30651-58 As= 700PPM Pb= 8062PPM)

As	% REC		Pb	% REC
739	106		7807	97
702	100		7877	98
727	104		7853	97
763	109		7894	98

LCS EVERY 20TH SAMPLE (LCS287 As= 917PPM Pb= 236PPM)

As	% REC		Pb	% REC
970	106		248	105
975	106		264	112

DUPLICATES EVERY 20TH SAMPLE

LAB#	As	As	%DIFF	Pb	Pb	%DIFF
L000237-20	1220	1282	5	16589	16958	2
	Cd	Cd		Cr	Cr	
	547	630	14	<80	<80	BDL
	Cu	Cu		Fe	Fe	
	31286	32326	3	5.5	5.6	2
	Se	Se		Zn	Zn	
	132	129	2	12207	12515	2

LAB#

L000237-36

As	As	%DIFF	Pb	Pb	%DIFF
27	17	45	556	572	3
Cd	Cd		Cr	Cr	
<10	22	BDL	114	<80	BDL
Cu	Cu		Fe	Fe	
291	290	0	1.3	1.4	7
Se	Se		Zn	Zn	
<10	<10	BDL	241	228	6

BLD = BELOW DETECTION LIMIT

Fe VALUES ARE IN %

ALL VALUES WITH THE EXCEPTION OF As AND Pb ARE  
FUNDAMENTAL PARAMETER RESULTS.As AND Pb CURVES ARE BASED UPON SANDY AND MURRAY  
SOIL AND ARE NOT SITE SPECIFIC TO EL PASO SOILS.LIMIT OF DETECTION

As	Pb	Cd	Cr
10PPM	10PPM	10PPM	80PPM
Cu	Fe	Se	Zn
20PPM	50PPM	10PPM	10PPM

A&RACO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L000237-001	09-FEB-00	BH9-5-1A	AS	1800	ppm	LCS	21-MAR-00		EDXRF
			CD	120	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	6900	ppm	LCS	09-MAR-00		EDXRF
			FE	5.4	%	LCS	09-MAR-00		EDXRF
			PB	7900	ppm	LCS	21-MAR-00		EDXRF
			SE	34	ppm	LCS	09-MAR-00		EDXRF
			ZN	3400	ppm	LCS	09-MAR-00		EDXRF
			AS	190	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
L000237-002	09-FEB-00	BH9-5-1B	CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	720	ppm	LCS	09-MAR-00		EDXRF
			FE	4.4	%	LCS	09-MAR-00		EDXRF
			PB	890	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	310	ppm	LCS	09-MAR-00		EDXRF
			AS	210	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	280	ppm	LCS	09-MAR-00		EDXRF
L000237-003	09-FEB-00	BH9-5-1C	FE	4.5	%	LCS	09-MAR-00		EDXRF
			PB	1400	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	340	ppm	LCS	09-MAR-00		EDXRF
			AS	650	ppm	LCS	21-MAR-00		EDXRF
			CD	35	ppm	LCS	09-MAR-00		EDXRF
			CR	82	ppm	LCS	09-MAR-00		EDXRF
			CU	1100	ppm	LCS	09-MAR-00		EDXRF
			FE	4.9	%	LCS	09-MAR-00		EDXRF
			PB	7500	ppm	LCS	21-MAR-00		EDXRF
L000237-004	09-FEB-00	BH9-5-1D	SE	17	ppm	LCS	09-MAR-00		EDXRF
			ZN	1500	ppm	LCS	09-MAR-00		EDXRF
			AS	270	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			AS	650	ppm	LCS	21-MAR-00		EDXRF
			CD	35	ppm	LCS	09-MAR-00		EDXRF
			CR	82	ppm	LCS	09-MAR-00		EDXRF
			CU	1100	ppm	LCS	09-MAR-00		EDXRF
			FE	4.9	%	LCS	09-MAR-00		EDXRF
L000237-005	09-FEB-00	BH9-5-1E	PB	7500	ppm	LCS	21-MAR-00		EDXRF
			SE	17	ppm	LCS	09-MAR-00		EDXRF
			ZN	1500	ppm	LCS	09-MAR-00		EDXRF
			AS	270	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			AS	650	ppm	LCS	21-MAR-00		EDXRF
			CD	35	ppm	LCS	09-MAR-00		EDXRF
			CR	82	ppm	LCS	09-MAR-00		EDXRF
			CU	1100	ppm	LCS	09-MAR-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000237-005	09-FEB-00	BH9-5-1E	CU	250	ppm	LCS	09-MAR-00		EDXRF
			FE	4.9	%	LCS	09-MAR-00		EDXRF
			PB	1200	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	260	ppm	LCS	09-MAR-00		EDXRF
			AS	91	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	95	ppm	LCS	09-MAR-00		EDXRF
			FE	4.7	%	LCS	09-MAR-00		EDXRF
			PB	320	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	110	ppm	LCS	09-MAR-00		EDXRF
			AS	20	ppm	LCS	21-MAR-00		EDXRF
			CD	11	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	580	ppm	LCS	09-MAR-00		EDXRF
			FE	2.3	%	LCS	09-MAR-00		EDXRF
			PB	510	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	230	ppm	LCS	09-MAR-00		EDXRF
			AS	1000	ppm	LCS	21-MAR-00		EDXRF
			CD	390	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	27000	ppm	LCS	09-MAR-00		EDXRF
			FE	5.2	%	LCS	09-MAR-00		EDXRF
			PB	12000	ppm	LCS	21-MAR-00		EDXRF
			SE	81	ppm	LCS	09-MAR-00		EDXRF
			ZN	7800	ppm	LCS	09-MAR-00		EDXRF
			AS	1400	ppm	LCS	21-MAR-00		EDXRF
			CD	130	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	12000	ppm	LCS	09-MAR-00		EDXRF
			FE	5.3	%	LCS	09-MAR-00		EDXRF
			PB	9600	ppm	LCS	21-MAR-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	TEST METHOD	
L000237-009	09-FEB-00	BH9-5-2B	SE	30	ppm	LCS	09-MAR-00	EDXRF	EDXRF
			ZN	3300	ppm	LCS	09-MAR-00	EDXRF	
			AS	1200	ppm	LCS	21-MAR-00	EDXRF	
			CD	74	ppm	LCS	09-MAR-00	EDXRF	
L000237-010	09-FEB-00	BH9-5-2C	CR	<80	ppm	LCS	09-MAR-00	EDXRF	EDXRF
			CU	3900	ppm	LCS	09-MAR-00	EDXRF	
			FE	4.7	%	LCS	09-MAR-00	EDXRF	
			PB	6000	ppm	LCS	09-MAR-00	EDXRF	
			SE	18	ppm	LCS	21-MAR-00	EDXRF	
			ZN	1700	ppm	LCS	09-MAR-00	EDXRF	
			AS	560	ppm	LCS	21-MAR-00	EDXRF	
			CD	33	ppm	LCS	09-MAR-00	EDXRF	
			CR	120	ppm	LCS	09-MAR-00	EDXRF	
			CU	1800	ppm	LCS	09-MAR-00	EDXRF	
L000237-011	09-FEB-00	BH9-5-2D	FE	4.8	%	LCS	09-MAR-00	EDXRF	EDXRF
			PB	3600	ppm	LCS	09-MAR-00	EDXRF	
			SE	<10	ppm	LCS	21-MAR-00	EDXRF	
			ZN	860	ppm	LCS	09-MAR-00	EDXRF	
			AS	1200	ppm	LCS	21-MAR-00	EDXRF	
			CD	54	ppm	LCS	09-MAR-00	EDXRF	
			CR	88	ppm	LCS	09-MAR-00	EDXRF	
			CU	3800	ppm	LCS	09-MAR-00	EDXRF	
			FE	4.9	%	LCS	09-MAR-00	EDXRF	
			PB	6200	ppm	LCS	21-MAR-00	EDXRF	
L000237-012	09-FEB-00	BH9-5-2E	SE	20	ppm	LCS	09-MAR-00	EDXRF	EDXRF
			ZN	1400	ppm	LCS	09-MAR-00	EDXRF	
			AS	220	ppm	LCS	21-MAR-00	EDXRF	
			CD	25	ppm	LCS	09-MAR-00	EDXRF	
			CR	<80	ppm	LCS	09-MAR-00	EDXRF	
			CU	1600	ppm	LCS	09-MAR-00	EDXRF	
			FE	4.3	%	LCS	09-MAR-00	EDXRF	
			PB	2600	ppm	LCS	21-MAR-00	EDXRF	
			SE	<10	ppm	LCS	09-MAR-00	EDXRF	
			ZN	730	ppm	LCS	09-MAR-00	EDXRF	
L000237-013	09-FEB-00	BH9-5-2F	AS	220	ppm	LCS	21-MAR-00	EDXRF	EDXRF
			CD	25	ppm	LCS	09-MAR-00	EDXRF	
			CR	<80	ppm	LCS	09-MAR-00	EDXRF	
			CU	1600	ppm	LCS	09-MAR-00	EDXRF	
L000237-014	09-FEB-00	BH9-5-2G	FE	4.3	%	LCS	09-MAR-00	EDXRF	EDXRF
			PB	2600	ppm	LCS	21-MAR-00	EDXRF	
			SE	<10	ppm	LCS	09-MAR-00	EDXRF	
			ZN	730	ppm	LCS	09-MAR-00	EDXRF	

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L000237-014	09-FEB-00	BH9-5-2G	AS	22	ppm	LCS	21-MAR-00	EDXRF
			CD	<10	ppm	LCS	09-MAR-00	EDXRF
			CR	<80	ppm	LCS	09-MAR-00	EDXRF
			CU	190	ppm	LCS	09-MAR-00	EDXRF
			FE	2.7	%	LCS	09-MAR-00	EDXRF
			PB	190	ppm	LCS	21-MAR-00	EDXRF
			SE	<10	ppm	LCS	09-MAR-00	EDXRF
			ZN	120	ppm	LCS	09-MAR-00	EDXRF
			AS	1600	ppm	LCS	21-MAR-00	EDXRF
			CD	700	ppm	LCS	09-MAR-00	EDXRF
L000237-015	09-FEB-00	BH9-5-3A	CR	<80	ppm	LCS	09-MAR-00	EDXRF
			CU	30000	ppm	LCS	09-MAR-00	EDXRF
			FE	5.6	%	LCS	09-MAR-00	EDXRF
			PB	18000	ppm	LCS	21-MAR-00	EDXRF
			SE	120	ppm	LCS	09-MAR-00	EDXRF
			ZN	13000	ppm	LCS	09-MAR-00	EDXRF
			AS	28	ppm	LCS	21-MAR-00	EDXRF
			CD	22	ppm	LCS	09-MAR-00	EDXRF
			CR	<80	ppm	LCS	09-MAR-00	EDXRF
			CU	770	ppm	LCS	09-MAR-00	EDXRF
L000237-016	09-FEB-00	BH9-5-3B	FE	2.6	%	LCS	09-MAR-00	EDXRF
			PB	710	ppm	LCS	21-MAR-00	EDXRF
			SE	<10	ppm	LCS	09-MAR-00	EDXRF
			ZN	360	ppm	LCS	09-MAR-00	EDXRF
			AS	32	ppm	LCS	21-MAR-00	EDXRF
			CD	30	ppm	LCS	09-MAR-00	EDXRF
			CR	94	ppm	LCS	09-MAR-00	EDXRF
			CU	1400	ppm	LCS	09-MAR-00	EDXRF
			FE	2.5	%	LCS	09-MAR-00	EDXRF
			PB	1200	ppm	LCS	21-MAR-00	EDXRF
L000237-017	09-FEB-00	BH9-5-3C	SE	<10	ppm	LCS	09-MAR-00	EDXRF
			ZN	630	ppm	LCS	09-MAR-00	EDXRF
			AS	32	ppm	LCS	21-MAR-00	EDXRF
			CD	30	ppm	LCS	09-MAR-00	EDXRF
			CR	94	ppm	LCS	09-MAR-00	EDXRF
			CU	1400	ppm	LCS	09-MAR-00	EDXRF
			FE	2.5	%	LCS	09-MAR-00	EDXRF
			PB	1200	ppm	LCS	21-MAR-00	EDXRF
			SE	<10	ppm	LCS	09-MAR-00	EDXRF
			ZN	630	ppm	LCS	09-MAR-00	EDXRF
L000237-018	09-FEB-00	BH9-5-3D	AS	24	ppm	LCS	21-MAR-00	EDXRF
			CD	23	ppm	LCS	09-MAR-00	EDXRF
			CR	<80	ppm	LCS	09-MAR-00	EDXRF



## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L000237-018	09-FEB-00	BH9-5-3D	CU	970	ppm	LCS	09-MAR-00	EDXRF
			FE	2.6	%	LCS	09-MAR-00	EDXRF
			PB	900	ppm	LCS	21-MAR-00	EDXRF
			SE	<10	ppm	LCS	09-MAR-00	EDXRF
			ZN	440	ppm	LCS	09-MAR-00	EDXRF
L000237-019	09-FEB-00	BH9-5-4A	AS	1800	ppm	LCS	21-MAR-00	EDXRF
			CD	790	ppm	LCS	09-MAR-00	EDXRF
			CR	110	ppm	LCS	09-MAR-00	EDXRF
			CU	45000	ppm	LCS	09-MAR-00	EDXRF
			FE	6.2	%	LCS	09-MAR-00	EDXRF
			PB	23000	ppm	LCS	21-MAR-00	EDXRF
			SE	160	ppm	LCS	09-MAR-00	EDXRF
			ZN	17000	ppm	LCS	09-MAR-00	EDXRF
L000237-020	09-FEB-00	BH9-5-4B	AS	1200	ppm	LCS	21-MAR-00	EDXRF
			CD	550	ppm	LCS	09-MAR-00	EDXRF
			CR	<80	ppm	LCS	09-MAR-00	EDXRF
			CU	31000	ppm	LCS	09-MAR-00	EDXRF
			FE	5.5	%	LCS	09-MAR-00	EDXRF
			PB	17000	ppm	LCS	21-MAR-00	EDXRF
			SE	130	ppm	LCS	09-MAR-00	EDXRF
			ZN	12000	ppm	LCS	09-MAR-00	EDXRF
L000237-021	09-FEB-00	BH9-5-4C	AS	180	ppm	LCS	21-MAR-00	EDXRF
			CD	54	ppm	LCS	09-MAR-00	EDXRF
			CR	<80	ppm	LCS	09-MAR-00	EDXRF
			CU	2300	ppm	LCS	09-MAR-00	EDXRF
			FE	4.6	%	LCS	09-MAR-00	EDXRF
			PB	3100	ppm	LCS	21-MAR-00	EDXRF
			SE	13	ppm	LCS	09-MAR-00	EDXRF
			ZN	1000	ppm	LCS	09-MAR-00	EDXRF
L000237-022	09-FEB-00	BH9-5-4D	AS	200	ppm	LCS	21-MAR-00	EDXRF
			CD	13	ppm	LCS	09-MAR-00	EDXRF
			CR	<80	ppm	LCS	09-MAR-00	EDXRF
			CU	420	ppm	LCS	09-MAR-00	EDXRF
			FE	5.1	%	LCS	09-MAR-00	EDXRF
			PB	3600	ppm	LCS	21-MAR-00	EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000237-022	09-FEB-00	BH9-5-4D	SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	520	ppm	LCS	09-MAR-00		EDXRF
L000237-023	09-FEB-00	BH9-5-4E	AS	74	ppm	LCS	21-MAR-00		EDXRF
			CD	11	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	880	ppm	LCS	09-MAR-00		EDXRF
			FE	4.4	%	LCS	09-MAR-00		EDXRF
			PB	1300	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	490	ppm	LCS	09-MAR-00		EDXRF
L000237-024	09-FEB-00	BH9-5-4F	AS	43	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	690	ppm	LCS	09-MAR-00		EDXRF
			FE	4.1	%	LCS	09-MAR-00		EDXRF
			PB	1000	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	380	ppm	LCS	09-MAR-00		EDXRF
L000237-025	09-FEB-00	BH9-5-5A	AS	4000	ppm	LCS	21-MAR-00		EDXRF
			CD	1300	ppm	LCS	09-MAR-00		EDXRF
			CR	92	ppm	LCS	09-MAR-00		EDXRF
			CU	57000	ppm	LCS	09-MAR-00		EDXRF
			FE	6.8	%	LCS	09-MAR-00		EDXRF
			PB	30000	ppm	LCS	21-MAR-00		EDXRF
			SE	180	ppm	LCS	09-MAR-00		EDXRF
			ZN	23000	ppm	LCS	09-MAR-00		EDXRF
L000237-026	09-FEB-00	BH9-5-5B	AS	1400	ppm	LCS	21-MAR-00		EDXRF
			CD	370	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	20000	ppm	LCS	09-MAR-00		EDXRF
			FE	4.8	%	LCS	09-MAR-00		EDXRF
			PB	12000	ppm	LCS	21-MAR-00		EDXRF
			SE	42	ppm	LCS	09-MAR-00		EDXRF
			ZN	6700	ppm	LCS	09-MAR-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000237 027	09-FEB-00	BH9-5-5C	AS	750	ppm	LCS	21-MAR-00		EDXRF
			CD	63	ppm	LCS	09-MAR-00		EDXRF
			CR	97	ppm	LCS	09-MAR-00		EDXRF
			CU	7700	ppm	LCS	09-MAR-00		EDXRF
			FE	4.2	%	LCS	09-MAR-00		EDXRF
			PB	6700	ppm	LCS	21-MAR-00		EDXRF
			SE	18	ppm	LCS	09-MAR-00		EDXRF
			ZN	2300	ppm	LCS	09-MAR-00		EDXRF
			AS	71	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
L000237-028	09-FEB-00	BH9-5-5D	CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	860	ppm	LCS	09-MAR-00		EDXRF
			FE	2.9	%	LCS	09-MAR-00		EDXRF
			PB	940	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	300	ppm	LCS	09-MAR-00		EDXRF
			AS	1500	ppm	LCS	21-MAR-00		EDXRF
			CD	840	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	19000	ppm	LCS	09-MAR-00		EDXRF
L000237-029	09-FEB-00	BH9-5-6A	FE	5.0	%	LCS	09-MAR-00		EDXRF
			PB	12000	ppm	LCS	21-MAR-00		EDXRF
			SE	64	ppm	LCS	09-MAR-00		EDXRF
			ZN	8400	ppm	LCS	09-MAR-00		EDXRF
			AS	1700	ppm	LCS	21-MAR-00		EDXRF
			CD	760	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	37000	ppm	LCS	09-MAR-00		EDXRF
			FE	5.9	%	LCS	09-MAR-00		EDXRF
			PB	20000	ppm	LCS	21-MAR-00		EDXRF
L000237-030	09-FEB-00	BH9-5-6B	SE	150	ppm	LCS	09-MAR-00		EDXRF
			ZN	15000	ppm	LCS	09-MAR-00		EDXRF
			AS	88	ppm	LCS	21-MAR-00		EDXRF
			CD	44	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			AS	88	ppm	LCS	21-MAR-00		EDXRF
			CD	44	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			AS	88	ppm	LCS	21-MAR-00		EDXRF
			CD	44	ppm	LCS	09-MAR-00		EDXRF
L000237-031	09-FEB-00	BH9-5-6C	CR	<80	ppm	LCS	09-MAR-00		EDXRF
			AS	88	ppm	LCS	21-MAR-00		EDXRF
			CD	44	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			AS	88	ppm	LCS	21-MAR-00		EDXRF
			CD	44	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			AS	88	ppm	LCS	21-MAR-00		EDXRF
			CD	44	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000237-031	09-FEB-00	BH9-5-6C	CU	3000	ppm	LCS	09-MAR-00		EDXRF
			FE	1.8	%	LCS	09-MAR-00		EDXRF
			PB	1900	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	1000	ppm	LCS	09-MAR-00		EDXRF
L000237-032	09-FEB-00	BH9-5-6D	AS	10	ppm	LCS	21-MAR-00		EDXRF
			CD	<10	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	110	ppm	LCS	09-MAR-00		EDXRF
			FE	2.2	%	LCS	09-MAR-00		EDXRF
L000237-033	09-FEB-00	BH9-5-7A	PB	120	ppm	LCS	21-MAR-00		EDXRF
			SE	<10	ppm	LCS	09-MAR-00		EDXRF
			ZN	85	ppm	LCS	09-MAR-00		EDXRF
			AS	3900	ppm	LCS	21-MAR-00		EDXRF
			CD	1200	ppm	LCS	09-MAR-00		EDXRF
L000237-034	09-FEB-00	BH9-5-7B	CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	50000	ppm	LCS	09-MAR-00		EDXRF
			FE	6.6	%	LCS	09-MAR-00		EDXRF
			PB	31000	ppm	LCS	21-MAR-00		EDXRF
			SE	170	ppm	LCS	09-MAR-00		EDXRF
L000237-035	09-FEB-00	BH9-5-7C	ZN	21000	ppm	LCS	09-MAR-00		EDXRF
			AS	900	ppm	LCS	21-MAR-00		EDXRF
			CD	300	ppm	LCS	09-MAR-00		EDXRF
			CR	<80	ppm	LCS	09-MAR-00		EDXRF
			CU	14000	ppm	LCS	09-MAR-00		EDXRF
L000237-036	09-FEB-00	BH9-5-7D	FE	4.3	%	LCS	09-MAR-00		EDXRF
			PB	9700	ppm	LCS	21-MAR-00		EDXRF
			SE	64	ppm	LCS	09-MAR-00		EDXRF
			ZN	5700	ppm	LCS	09-MAR-00		EDXRF
			AS	240	ppm	LCS	21-MAR-00		EDXRF
L000237-037	09-FEB-00	BH9-5-7E	CD	85	ppm	LCS	09-MAR-00		EDXRF
			CR	130	ppm	LCS	09-MAR-00		EDXRF
			CU	4400	ppm	LCS	09-MAR-00		EDXRF
			FE	1.6	%	LCS	09-MAR-00		EDXRF
			PB	3700	ppm	LCS	21-MAR-00		EDXRF

## ASARCO TECHNICAL SERVICES CENTER

## ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000237

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	ANALYZED		
L000237-035	09-FEB-00	BH9-5-7C	SE	<10	ppm	LCS	09-MAR-00			EDXRF
			ZN	1700	ppm	LCS	09-MAR-00			EDXRF
L000237-036	09-FEB-00	BH9-5-7D	AS	27	ppm	LCS	21-MAR-00			EDXRF
			CD	<10	ppm	LCS	09-MAR-00			EDXRF
			CR	110	ppm	LCS	09-MAR-00			EDXRF
			CU	290	ppm	LCS	09-MAR-00			EDXRF
			FE	1.3	%	LCS	09-MAR-00			EDXRF
			PB	560	ppm	LCS	21-MAR-00			EDXRF
			SE	<10	ppm	LCS	09-MAR-00			EDXRF
			ZN	240	ppm	LCS	09-MAR-00			EDXRF

Approved  
*[Signature]*  
Reviewer

# CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190  
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO. PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035 ASARCO - EL PASO, TX		1 BKG		COMMONS UF/RAW	NUTRIENTS UF/H <sub>2</sub> SO <sub>4</sub>	DISS. METAL F/HNO <sub>3</sub>	CN UF/NaOH	TOTAL METALS UF/HNO <sub>3</sub>	TOTAL RECOVERABLE METALS UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, S, Zn)			
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER											
2/1/00	0900			BH9-S-1A											
	0805			BH9-S-1B											
	0830			BH9-S-1C											
	0832			BH9-S-1D											
	0837			BH9-S-1E											
	0840			BH9-S-1F											
	0903			BH9-S-1G											
	0915			BH9-S-2A											
	0918			BH9-S-2B											
	0932			BH9-S-2C											
	0937			BH9-S-2D											
	0940			BH9-S-2E											
	0942			BH9-S-2F											
	1015			BH9-S-2G											
	1025			BH9-S-3A											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		TSC		P.O. #		Shipped via: Bus, Fed Ex, UPS			
[Signature]		2/23/00 1600		[Signature]		SALT LAKE CITY, UT						Other			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
[Signature]				[Signature]											
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:				<input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other			
[Signature]				[Signature]		2-24-00 11:00									

Return results & electronic copy to:

Split Samples:  
☐ Accepted ☐ Declined

# CHAIN OF CUSTODY RECORD

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
1035		ASARCO - EL PASO, TX		1 BAG													
SAMPLERS: (Signature)																	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H <sub>2</sub> SO <sub>4</sub>	Diss. Metal F/HNO <sub>3</sub>	CN UF/NaOH	Total Metals UF/HNO <sub>3</sub>	Total Recoverable Metals UF/HNO <sub>3</sub>	BTEX	TPH	XRF (As, Cd, Cr, Cu, Fe, Pb, Se, Zn)	REMARKS		
1/2/00	1030			BH9-5-3B										X			
	1043			BH9-5-3C										X			
	1047			BH9-5-3D										X			
	1055			BH9-5-4A										X			
	1105			BH9-5-4B										X			
	1113			BH9-5-4C										X			
	1115			BH9-5-4D										X			
	1117			BH9-5-4E										X			
	1120			BH9-5-4F										X			
	1125			BH9-5-5A										X			
	1130			BH9-5-5B										X			
	1135			BH9-5-5C										X			
	1155			BH9-5-5D										X			
	1245			BH9-5-6A										X			
	1248			BH9-5-6B										X			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		TSC		P.O. #		Shipped via: Bus Fed Ex UPS					
1/2/00		1600		SALT LAKE CITY, UT													
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks											
1/2/00		1600		SALT LAKE CITY, UT													
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits											
1/2/00		1600		SALT LAKE CITY, UT													
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions											
1/2/00		1600		SALT LAKE CITY, UT													
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed: <input type="checkbox"/> Other											
1/2/00		1600		SALT LAKE CITY, UT													

# Hydrophilics,

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P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

HEOBM-1-4



