ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT
EL PASO, TEXAS

Prepared For:

ASARCO

2301 West Paisano Drive
El Paso, Texas 79922

Prepared By:

Hydrometrics, Inc. ®
consulting scientists, engineers and contractors

VOLUME III

October 1998

APPENDIX I

LABORATORY REPORTS

APPENDIX I

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LABORATORY REPORTS

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SECTION 1

LABORATORY REPORTS FOR WATER SAMPLES, AUGUST 1997

ASARCO

August 27, 1997

RECEIVED
SEP 02 1997
HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results for fifteen water samples collected Aug 06 through Aug 09, 1997.

The samples were received by the laboratory on Aug 12, 1997.

Sincerely,

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-1	06-AUG-97	EPRI-9708-100	ALK.	318.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.16	ppm	KPB	18-AUG-97	180	6020
			CA(D)	135.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	356.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	2350	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	1.2	ppm	BD	13-AUG-97	28	340.2
			FE(D)	1.1	ppm	JJT	13-AUG-97	180	6010
			HCO3	318.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	17.	ppm	JJT	13-AUG-97		6010
			MG(D)	36.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	356.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	<.050	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			SO4=	454.	ppm	LV	25-AUG-97	28	9036
			TDS	1557.	ppm	EBK	13-AUG-97	7	160.1
			TSS	14.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	18-AUG-97	180	6020
L971905-2	06-AUG-97	EPRI-9708-101	ALK.	766.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.047	ppm	KPB	18-AUG-97	180	6020
			CA(D)	96.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	424.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	3350	umhos	BD	12-AUG-97	28	120.1
			CR(D)	.016	ppm	KPB	18-AUG-97	180	6020
			F-	2.8	ppm	BD	13-AUG-97	28	340.2
			FE(D)	.31	ppm	JJT	13-AUG-97	180	6010
			HCO3	766.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	16.	ppm	JJT	13-AUG-97		6010
			MG(D)	39.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	650.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	<.050	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020

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L971905-2	06-AUG-97	EPRI-9708-101	PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			SO4=	544.	ppm	LV	25-AUG-97	28	9036
			TDS	2342.	ppm	EBK	13-AUG-97	7	160.1
			TSS	199.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	18-AUG-97	180	6020
L971905-3	06-AUG-97	EPRI-9708-102	ALK.	324.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.032	ppm	KPB	18-AUG-97	180	6020
			CA(D)	411.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	914.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	7320	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	1.5	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	324.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	36.	ppm	JJT	13-AUG-97		6010
			MG(D)	128.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1409.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	11.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.9	pH	BD	12-AUG-97		150.1
			SE(D)	.033	ppm	KPB	18-AUG-97	180	6020
			SO4=	2632.	ppm	LV	25-AUG-97	28	9036
			TDS	6029.	ppm	EBK	13-AUG-97	7	160.1
			TSS	1.9	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.021	ppm	KPB	18-AUG-97	180	6020
L971905-4	06-AUG-97	EPRI-9708-103	ALK.	320.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.064	ppm	KPB	18-AUG-97	180	6020
			CA(D)	103.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	320.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	2810	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	1.7	ppm	BD	13-AUG-97	28	340.2

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L971905-4	06-AUG-97	EPRI-9708-103	FE(D)	1.0	ppm	JJT	13-AUG-97	180	6010
			HCO3	320.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	12.	ppm	JJT	13-AUG-97		6010
			MG(D)	34.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	490.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	<.050	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			SO4=	672.	ppm	LV	25-AUG-97	28	9036
			TDS	1942.	ppm	EBK	13-AUG-97	7	160.1
			TSS	12.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	18-AUG-97	180	6020
L971905-5	07-AUG-97	EPRI-9708-115	ALK.	312.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.31	ppm	KPB	18-AUG-97	180	6020
			CA(D)	79.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	289.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	3090	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	3.0	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	312.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	29.	ppm	JJT	13-AUG-97		6010
			MG(D)	27.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	567.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	7.6	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	8.0	pH	BD	12-AUG-97		150.1
			SE(D)	.20	ppm	KPB	18-AUG-97	180	6020
			SO4=	742.	ppm	LV	25-AUG-97	28	9036
			TDS	2085.	ppm	EBK	13-AUG-97	7	160.1
			TSS	1.1	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	18-AUG-97	180	6020
L971905-6	07-AUG-97	EPRI-9708-116	ALK.	196.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.40	ppm	KPB	18-AUG-97	180	6020

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L971905-6	07-AUG-97	EPRI-9708-116	CA(D)	395.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	575.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	6530	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	.95	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	196.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	26.	ppm	JJT	13-AUG-97		6010
			MG(D)	176.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1124.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	67.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	8.0	pH	BD	12-AUG-97		150.1
			SE(D)	1.4	ppm	KPB	18-AUG-97	180	6020
			SO4=	2558.	ppm	LV	25-AUG-97	28	9036
			TDS	5678.	ppm	EBK	13-AUG-97	7	160.1
			TSS	4.8	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.026	ppm	KPB	18-AUG-97	180	6020
L971905-7	07-AUG-97	EPRI-9708-108	ALK.	328.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	1.2	ppm	KPB	18-AUG-97	180	6020
			CA(D)	584.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	.036	ppm	KPB	18-AUG-97	180	6020
			CL-	817.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	11160	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	2.3	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	328.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	71.	ppm	JJT	13-AUG-97		6010
			MG(D)	323.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	2070.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	235.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.4	pH	BD	12-AUG-97		150.1
			SE(D)	.38	ppm	KPB	18-AUG-97	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-7	07-AUG-97	EPRI-9708-108							
			SO4=	4582.	ppm	LV	25-AUG-97	28	9036
			TDS	10541.	ppm	EBK	13-AUG-97	7	160.1
			TSS	161.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.057	ppm	KPB	18-AUG-97	180	6020
L971905-8	07-AUG-97	EPRI-9708-105							
			ALK.	352.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	49.	ppm	KPB	18-AUG-97	180	6020
			CA(D)	434.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	.82	ppm	KPB	18-AUG-97	180	6020
			CL-	673.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	12500	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	1.5	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	352.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	110.	ppm	JJT	13-AUG-97		6010
			MG(D)	73.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	3087.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	104.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	.008	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	7.0	ppm	KPB	18-AUG-97	180	6020
			SO4=	5745.	ppm	LV	25-AUG-97	28	9036
			TDS	11243.	ppm	EBK	13-AUG-97	7	160.1
			TSS	52.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.052	ppm	KPB	18-AUG-97	180	6020
L971905-9	07-AUG-97	EPRI-9708-107							
			ALK.	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.076	ppm	KPB	18-AUG-97	180	6020
			CA(D)	125.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	315.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	3150	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	.93	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010

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L971905-9	07-AUG-97	EPRI-9708-107	HCO3	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	13.	ppm	JJT	13-AUG-97		6010
			MG(D)	44.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	525.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	23.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	.17	ppm	KPB	18-AUG-97	180	6020
			SO4=	889.	ppm	LV	25-AUG-97	28	9036
			TDS	2263.	ppm	EBK	13-AUG-97	7	160.1
			TSS	220.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	18-AUG-97	180	6020
L971905-10	08-AUG-97	EPRI-9708-131	ALK.	458.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	13.	ppm	KPB	18-AUG-97	180	6020
			CA(D)	666.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	697.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	8390	umhos	BD	12-AUG-97	28	120.1
			CR(D)	.011	ppm	KPB	18-AUG-97	180	6020
			F-	3.2	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	458.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	52.	ppm	JJT	13-AUG-97		6010
			MG(D)	161.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1505.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	40.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.5	pH	BD	12-AUG-97		150.1
			SE(D)	.26	ppm	KPB	18-AUG-97	180	6020
			SO4=	3474.	ppm	LV	25-AUG-97	28	9036
			TDS	7776.	ppm	EBK	13-AUG-97	7	160.1
			TSS	78.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.046	ppm	KPB	18-AUG-97	180	6020
L971905-11	08-AUG-97	EPRI-9708-125	ALK.	240.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.007	ppm	KPB	18-AUG-97	180	6020
			CA(D)	360.	ppm	JJT	13-AUG-97	180	6010

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L971905-11	08-AUG-97	EPRI-9708-125	CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	1345.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	9140	umhos	BD	12-AUG-97	28	120.1
			CR(D)	.011	ppm	KPB	18-AUG-97	180	6020
			F-	1.7	ppm	BD	13-AUG-97	28	340.2
			FE(D)	.38	ppm	JJT	13-AUG-97	180	6010
			HCO3	240.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	14.	ppm	JJT	13-AUG-97		6010
			MG(D)	152.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	857.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	90.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.5	pH	BD	12-AUG-97		150.1
			SE(D)	.24	ppm	KPB	18-AUG-97	180	6020
			SO4=	3055.	ppm	LV	25-AUG-97	28	9036
			TDS	8015.	ppm	EBK	13-AUG-97	7	160.1
			TSS	8.9	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.026	ppm	KPB	18-AUG-97	180	6020
L971905-12	09-AUG-97	EPRI-9708-124	ALK.	432.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	3.6	ppm	KPB	18-AUG-97	180	6020
			CA(D)	191.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	419.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	4780	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	4.9	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	432.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	105.	ppm	JJT	13-AUG-97		6010
			MG(D)	93.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	876.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	7.7	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	.18	ppm	KPB	18-AUG-97	180	6020
			SO4=	1632.	ppm	LV	25-AUG-97	28	9036

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-12	09-AUG-97	EPRI-9708-124							
			TDS	3693.	ppm	EBK	13-AUG-97	7	160.1
			TSS	<1.0	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	18-AUG-97	180	6020
L971905-13	09-AUG-97	EPRI-9708-129							
			ALK.	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.025	ppm	KPB	18-AUG-97	180	6020
			CA(D)	360.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	744.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	8590	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	1.9	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	25.	ppm	JJT	13-AUG-97		6010
			MG(D)	115.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1713.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	77.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	.50	ppm	KPB	18-AUG-97	180	6020
			SO4=	3359.	ppm	LV	25-AUG-97	28	9036
			TDS	7433.	ppm	EBK	13-AUG-97	7	160.1
			TSS	84.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	18-AUG-97	180	6020
L971905-14	09-AUG-97	EPRI-9708-127							
			ALK.	328.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	1.1	ppm	KPB	18-AUG-97	180	6020
			CA(D)	228.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	434.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	5050	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	3.0	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	328.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	72.	ppm	JJT	13-AUG-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-14	09-AUG-97	EPRI-9708-127	MG(D)	97.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	904.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	9.8	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	.36	ppm	KPB	18-AUG-97	180	6020
			SO4=	1760.	ppm	LV	25-AUG-97	28	9036
			TDS	3954.	ppm	EBK	13-AUG-97	7	160.1
			TSS	3.4	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	18-AUG-97	180	6020
L971905-15	09-AUG-97	EPRI-9708-128	ALK.	390.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.019	ppm	KPB	18-AUG-97	180	6020
			CA(D)	293.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	1045.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	8100	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			F-	2.3	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	390.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	33.	ppm	JJT	13-AUG-97		6010
			MG(D)	153.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1638.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	25.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	.23	ppm	KPB	18-AUG-97	180	6020
			SO4=	2643.	ppm	LV	25-AUG-97	28	9036
			TDS	6442.	ppm	EBK	13-AUG-97	7	160.1
			TSS	52.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	18-AUG-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

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

Approved

E. B. Kuhn

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971217

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971217-1		Matrix Spike	AS(D)	98	% RECOVERY	KPB	18-AUG-97		6020
			CA(D)	94	% RECOVERY	JJT	13-AUG-97		6010
			CD(D)	96	% RECOVERY	KPB	18-AUG-97		6020
			CL-	103	% RECOVERY	LV	26-AUG-97		325.2
			CR(D)	96	% RECOVERY	KPB	18-AUG-97		6020
			CU	99	% RECOVERY	KPB	18-AUG-97		6020
			F-	95	% RECOVERY	BD	13-AUG-97		340.2
			FE(D)	84	% RECOVERY	JJT	13-AUG-97		6010
			K(D)	121	% RECOVERY	JJT	13-AUG-97		6010
			MG(D)	97	% RECOVERY	JJT	13-AUG-97		6010
			NA(D)	>4xSA	% RECOVERY	BD	15-AUG-97		6010
			NO2/NO3	[illegible]	% RECOVERY	LV	26-AUG-97		353.2
			PB(D)	93	% RECOVERY	KPB	18-AUG-97		6020
			SE(D)	101	% RECOVERY	KPB	18-AUG-97		6020
			SO4=	94	% RECOVERY	LV	25-AUG-97		9036
			ZN(D)	93	% RECOVERY	KPB	18-AUG-97		6020
WG971217-2		Prep Blank	ALK.	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			AS(D)	<.005	ppm	KPB	18-AUG-97		6020
			CA(D)	<1.0	ppm	JJT	13-AUG-97		6010
			CD(D)	<.005	ppm	KPB	18-AUG-97		6020
			CL-	<1.0	ppm	LV	26-AUG-97		325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	<5	umhos	BD	12-AUG-97		120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97		6020
			CU	<.025	ppm	KPB	18-AUG-97		6020
			F-	<.050	ppm	BD	13-AUG-97		340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97		6010
			HCO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			K(D)	<2.0	ppm	JJT	13-AUG-97		6010
			MG(D)	<1.0	ppm	JJT	13-AUG-97		6010
			NA(D)	<2.0	ppm	BD	15-AUG-97		6010
			NO2/NO3	<.050	ppm	LV	26-AUG-97		353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97		6020
			SE(D)	<.005	ppm	KPB	18-AUG-97		6020
			SO4=	<2.0	ppm	LV	25-AUG-97		9036
			TDS	<10.	ppm	EBK	13-AUG-97		160.1
			TSS	<1.0	ppm	EBK	13-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	18-AUG-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971217

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971217-3		Laboratory Control	ALK.	102	% RECOVERY	BD	12-AUG-97		310.1
			AS(D)	104	% RECOVERY	KPB	18-AUG-97		6020
			CA(D)	107	% RECOVERY	JJT	13-AUG-97		6010
			CD(D)	104	% RECOVERY	KPB	18-AUG-97		6020
			CL-	101	% RECOVERY	LV	26-AUG-97		325.2
			COND.	98	% RECOVERY	BD	12-AUG-97		120.1
			CR(D)	95	% RECOVERY	KPB	18-AUG-97		6020
			CU	106	% RECOVERY	KPB	18-AUG-97		6020
			F-	90	% RECOVERY	BD	13-AUG-97		340.2
			FE(D)	97	% RECOVERY	JJT	13-AUG-97		6010
			HCO3	102	% RECOVERY	BD	12-AUG-97		310.1
			K(D)	95	% RECOVERY	JJT	13-AUG-97		6010
			MG(D)	100	% RECOVERY	JJT	13-AUG-97		6010
			NA(D)	99	% RECOVERY	BD	15-AUG-97		6010
			NO2/NO3	102	% RECOVERY	LV	26-AUG-97		353.2
			PB(D)	104	% RECOVERY	KPB	18-AUG-97		6020
			SE(D)	98	% RECOVERY	KPB	18-AUG-97		6020
			SO4=	101	% RECOVERY	LV	25-AUG-97		9036
			TDS	109	% RECOVERY	EBK	13-AUG-97		160.1
			TSS	97	% RECOVERY	EBK	13-AUG-97		160.2
			ZN(D)	122	% RECOVERY	KPB	18-AUG-97		6020
WG971217-4		Duplicate	ALK.	1.5	% RPD	BD	12-AUG-97		310.1
			AS(D)	<1	% RPD	KPB	18-AUG-97		6020
			CA(D)	1.8	% RPD	JJT	13-AUG-97		6010
			CD(D)	<1	% RPD	KPB	18-AUG-97		6020
			CL-	1.7	% RPD	LV	26-AUG-97		325.2
			CO3	<1	% RPD	BD	12-AUG-97		310.1
			COND.	<1	% RPD	BD	12-AUG-97		120.1
			CR(D)	<1	% RPD	KPB	18-AUG-97		6020
			CU	<1	% RPD	KPB	18-AUG-97		6020
			F-	<1	% RPD	BD	13-AUG-97		340.2
			FE(D)	<1	% RPD	JJT	13-AUG-97		6010
			HCO3	1.5	% RPD	BD	12-AUG-97		310.1
			K(D)	3.8	% RPD	JJT	13-AUG-97		6010
			MG(D)	<1	% RPD	JJT	13-AUG-97		6010
			NA(D)	5.8	% RPD	BD	15-AUG-97		6010
			NO2/NO3	<1	% RPD	LV	26-AUG-97		353.2
			PB(D)	<1	% RPD	KPB	18-AUG-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971217

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971217-4		Duplicate	SE(D)	<1	% RPD	KPB	18-AUG-97		6020
			SO4=	<1	% RPD	LV	25-AUG-97		9036
			TDS	2.9	% RPD	EBK	13-AUG-97		160.1
			TSS	1.9	% RPD	EBK	13-AUG-97		160.2
			ZN(D)	<1	% RPD	KPB	18-AUG-97		6020
WG971217-5		Detection Limit	ALK.	1.0	ppm CaCO3				310.1
			AS(D)	.005	ppm				6020
			CA(D)	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K(D)	2.0	ppm				6010
			MG(D)	1.0	ppm				6010
			NA(D)	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

Reviewer

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.: 0734

PROJECT NAME: ASARCO - EL PASO

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Cammahs	Metals-filtered	Nutrients					REMARKS
8-6-97	1000		X	EPRI-9708-100	3									X	X	X					
8-6-97	1045			EPRI-9708-101																	
8-6-97	1120			EPRI-9708-102																	
8-6-97	1140			EPRI-9708-103																	
8-7-97	0930			EPRI-9708-115																	
8-7-97	1040			EPRI-9708-116																	
8-7-97	1010			EPRI-9708-108																	
8-7-97	1430			EPRI-9708-105																	
8-7-97	1600			EPRI-9708-107																	
8-8-97	0830			EPRI-9708-131																	
8-8-97	0930			EPRI-9708-125																	
8-9-97	1030			EPRI-9708-124																	
8-9-97	1145			EPRI-9708-129																	
8-9-97	1250			EPRI-9708-127																	
8-9-97	1300			EPRI-9708-128																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	8-11-97 1700				Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks
			Send Copy of Results to Lairy Johnson in EL PASO

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
			8-12-97 10:00	[X] Parameter sheet w/detection limits; [ ] QA/QC standard mixing instructions; [X] Cover letter; [ ] Other ____

Split Samples: [] Accepted [] Declined ____ Signature

HFORM-1-4/95

Return results & electronic copy to:

ASARCO

August 28, 1997

Lairy Johnson
HYDROMETRICS
EL PASO

Please find attached the amended report for lab # L971905 which includes samples collected from August 06 to August 09, 1997. This attachment includes the dissolved copper results that were inadvertently excluded from the previous report dated August 27, 1997.

We regret any inconvenience this may have caused.

Sincerely,

Bilquis Dhedhy
Chemist

BD/mo
Attach.

cc: GRStanga (w/attach.)
Claire Bridge

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-1	06-AUG-97	EPRI-9708-100	ALK.	318.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.16	ppm	KPB	18-AUG-97	180	6020
			CA(D)	135.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	356.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	2350	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	1.2	ppm	BD	13-AUG-97	28	340.2
			FE(D)	1.1	ppm	JJT	13-AUG-97	180	6010
			HCO3	318.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	17.	ppm	JJT	13-AUG-97		6010
			MG(D)	36.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	356.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	<.050	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			SO4=	454.	ppm	LV	25-AUG-97	28	9036
			TDS	1557.	ppm	EBK	13-AUG-97	7	160.1
			TSS	14.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	18-AUG-97	180	6020
L971905-2	06-AUG-97	EPRI-9708-101	ALK.	766.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.047	ppm	KPB	18-AUG-97	180	6020
			CA(D)	96.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	424.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	3350	umhos	BD	12-AUG-97	28	120.1
			CR(D)	.016	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	2.8	ppm	BD	13-AUG-97	28	340.2
			FE(D)	.31	ppm	JJT	13-AUG-97	180	6010
			HCO3	766.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	16.	ppm	JJT	13-AUG-97		6010
			MG(D)	39.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	650.	ppm	BD	15-AUG-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-2	06-AUG-97	EPRI-9708-101	NO2/NO3	<.050	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			SO4=	544.	ppm	LV	25-AUG-97	28	9036
			TDS	2342.	ppm	EBK	13-AUG-97	7	160.1
			TSS	199.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	18-AUG-97	180	6020
L971905-3	06-AUG-97	EPRI-9708-102	ALK.	324.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.032	ppm	KPB	18-AUG-97	180	6020
			CA(D)	411.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	914.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	7320	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	1.5	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	324.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	36.	ppm	JJT	13-AUG-97		6010
			MG(D)	128.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1409.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	11.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.9	pH	BD	12-AUG-97		150.1
			SE(D)	.033	ppm	KPB	18-AUG-97	180	6020
			SO4=	2632.	ppm	LV	25-AUG-97	28	9036
			TDS	6029.	ppm	EBK	13-AUG-97	7	160.1
			TSS	1.9	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.021	ppm	KPB	18-AUG-97	180	6020
L971905-4	06-AUG-97	EPRI-9708-103	ALK.	320.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.064	ppm	KPB	18-AUG-97	180	6020
			CA(D)	103.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	320.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-4	06-AUG-97	EPRI-9708-103	COND.	2810	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	1.7	ppm	BD	13-AUG-97	28	340.2
			FE(D)	1.0	ppm	JJT	13-AUG-97	180	6010
			HCO3	320.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	12.	ppm	JJT	13-AUG-97		6010
			MG(D)	34.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	490.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	<.050	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			SO4=	672.	ppm	LV	25-AUG-97	28	9036
			TDS	1942.	ppm	EBK	13-AUG-97	7	160.1
			TSS	12.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	18-AUG-97	180	6020
L971905-5	07-AUG-97	EPRI-9708-115	ALK.	312.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.31	ppm	KPB	18-AUG-97	180	6020
			CA(D)	79.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	289.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	3090	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	3.0	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	312.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	29.	ppm	JJT	13-AUG-97		6010
			MG(D)	27.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	567.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	7.6	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	8.0	pH	BD	12-AUG-97		150.1
			SE(D)	.20	ppm	KPB	18-AUG-97	180	6020
			SO4=	742.	ppm	LV	25-AUG-97	28	9036
			TDS	2085.	ppm	EBK	13-AUG-97	7	160.1

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L971905-5	07-AUG-97	EPRI-9708-115	TSS	1.1	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	18-AUG-97	180	6020
L971905-6	07-AUG-97	EPRI-9708-116	ALK.	196.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.40	ppm	KPB	18-AUG-97	180	6020
			CA(D)	395.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	575.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	6530	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	.95	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	196.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	26.	ppm	JJT	13-AUG-97		6010
			MG(D)	176.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1124.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	67.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	8.0	pH	BD	12-AUG-97		150.1
			SE(D)	1.4	ppm	KPB	18-AUG-97	180	6020
			SO4=	2558.	ppm	LV	25-AUG-97	28	9036
			TDS	5678.	ppm	EBK	13-AUG-97	7	160.1
			TSS	4.8	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.026	ppm	KPB	18-AUG-97	180	6020
L971905-7	07-AUG-97	EPRI-9708-108	ALK.	328.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	1.2	ppm	KPB	18-AUG-97	180	6020
			CA(D)	584.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	.036	ppm	KPB	18-AUG-97	180	6020
			CL-	817.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	11160	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	2.3	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	328.	ppm CaCO3	BD	12-AUG-97	14	310.1

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L971905-7	07-AUG-97	EPRI-9708-108	K(D)	71.	ppm	JJT	13-AUG-97		6010
			MG(D)	323.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	2070.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	235.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.4	pH	BD	12-AUG-97		150.1
			SE(D)	.38	ppm	KPB	18-AUG-97	180	6020
			SO4=	4582.	ppm	LV	25-AUG-97	28	9036
			TDS	10541.	ppm	EBK	13-AUG-97	7	160.1
			TSS	161.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.057	ppm	KPB	18-AUG-97	180	6020
L971905-8	07-AUG-97	EPRI-9708-105	ALK.	352.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	49.	ppm	KPB	18-AUG-97	180	6020
			CA(D)	434.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	.82	ppm	KPB	18-AUG-97	180	6020
			CL-	673.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	12500	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	1.5	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	352.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	110.	ppm	JJT	13-AUG-97		6010
			MG(D)	73.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	3087.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	104.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	.008	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	7.0	ppm	KPB	18-AUG-97	180	6020
			SO4=	5745.	ppm	LV	25-AUG-97	28	9036
			TDS	11243.	ppm	EBK	13-AUG-97	7	160.1
			TSS	52.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.052	ppm	KPB	18-AUG-97	180	6020
L971905-9	07-AUG-97	EPRI-9708-107	ALK.	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.076	ppm	KPB	18-AUG-97	180	6020
			CA(D)	125.	ppm	JJT	13-AUG-97	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-9	07-AUG-97	EPRI-9708-107	CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	315.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	3150	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	.93	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	13.	ppm	JJT	13-AUG-97		6010
			MG(D)	44.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	525.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	23.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	.17	ppm	KPB	18-AUG-97	180	6020
			SO4=	889.	ppm	LV	25-AUG-97	28	9036
			TDS	2263.	ppm	EBK	13-AUG-97	7	160.1
			TSS	220.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	18-AUG-97	180	6020
L971905-10	08-AUG-97	EPRI-9708-131	ALK.	458.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	13.	ppm	KPB	18-AUG-97	180	6020
			CA(D)	666.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	697.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	8390	umhos	BD	12-AUG-97	28	120.1
			CR(D)	.011	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	3.2	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	458.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	52.	ppm	JJT	13-AUG-97		6010
			MG(D)	161.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1505.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	40.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.5	pH	BD	12-AUG-97		150.1

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L971905-10	08-AUG-97	EPRI-9708-131	SE(D)	.26	ppm	KPB	18-AUG-97	180	6020
			SO4=	3474.	ppm	LV	25-AUG-97	28	9036
			TDS	7776.	ppm	EBK	13-AUG-97	7	160.1
			TSS	78.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.046	ppm	KPB	18-AUG-97	180	6020
L971905-11	08-AUG-97	EPRI-9708-125	ALK.	240.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.007	ppm	KPB	18-AUG-97	180	6020
			CA(D)	360.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	1345.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	9140	umhos	BD	12-AUG-97	28	120.1
			CR(D)	.011	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	1.7	ppm	BD	13-AUG-97	28	340.2
			FE(D)	.38	ppm	JJT	13-AUG-97	180	6010
			HCO3	240.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	14.	ppm	JJT	13-AUG-97		6010
			MG(D)	152.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	857.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	90.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.5	pH	BD	12-AUG-97		150.1
			SE(D)	.24	ppm	KPB	18-AUG-97	180	6020
			SO4=	3055.	ppm	LV	25-AUG-97	28	9036
			TDS	8015.	ppm	EBK	13-AUG-97	7	160.1
			TSS	8.9	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.026	ppm	KPB	18-AUG-97	180	6020
L971905-12	09-AUG-97	EPRI-9708-124	ALK.	432.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	3.6	ppm	KPB	18-AUG-97	180	6020
			CA(D)	191.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	419.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	4780	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-12	09-AUG-97	EPRI-9708-124	F-	4.9	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	432.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	105.	ppm	JJT	13-AUG-97		6010
			MG(D)	93.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	876.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	7.7	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	.18	ppm	KPB	18-AUG-97	180	6020
			SO4=	1632.	ppm	LV	25-AUG-97	28	9036
			TDS	3693.	ppm	EBK	13-AUG-97	7	160.1
			TSS	<1.0	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	18-AUG-97	180	6020
L971905-13	09-AUG-97	EPRI-9708-129	ALK.	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.025	ppm	KPB	18-AUG-97	180	6020
			CA(D)	360.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	744.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	8590	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	1.9	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	266.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	25.	ppm	JJT	13-AUG-97		6010
			MG(D)	115.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1713.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	77.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	.50	ppm	KPB	18-AUG-97	180	6020
			SO4=	3359.	ppm	LV	25-AUG-97	28	9036
			TDS	7433.	ppm	EBK	13-AUG-97	7	160.1
			TSS	84.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	18-AUG-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-14	09-AUG-97	EPRI-9708-127	ALK.	328.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	1.1	ppm	KPB	18-AUG-97	180	6020
			CA(D)	228.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	434.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	5050	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	3.0	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	328.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	72.	ppm	JJT	13-AUG-97		6010
			MG(D)	97.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	904.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	9.8	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.7	pH	BD	12-AUG-97		150.1
			SE(D)	.36	ppm	KPB	18-AUG-97	180	6020
			SO4=	1760.	ppm	LV	25-AUG-97	28	9036
			TDS	3954.	ppm	EBK	13-AUG-97	7	160.1
			TSS	3.4	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	18-AUG-97	180	6020
L971905-15	09-AUG-97	EPRI-9708-128	ALK.	390.	ppm CaCO3	BD	12-AUG-97	14	310.1
			AS(D)	.019	ppm	KPB	18-AUG-97	180	6020
			CA(D)	293.	ppm	JJT	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6020
			CL-	1045.	ppm	LV	26-AUG-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	12-AUG-97		310.1
			COND.	8100	umhos	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	2.3	ppm	BD	13-AUG-97	28	340.2
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	6010
			HCO3	390.	ppm CaCO3	BD	12-AUG-97	14	310.1
			K(D)	33.	ppm	JJT	13-AUG-97		6010
			MG(D)	153.	ppm	JJT	13-AUG-97	180	6010
			NA(D)	1638.	ppm	BD	15-AUG-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-15	09-AUG-97	EPRI-9708-128	NO2/NO3	25.	ppm	LV	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	18-AUG-97	180	6020
			PH	7.8	pH	BD	12-AUG-97		150.1
			SE(D)	.23	ppm	KPB	18-AUG-97	180	6020
			SO4=	2643.	ppm	LV	25-AUG-97	28	9036
			TDS	6442.	ppm	EBK	13-AUG-97	7	160.1
			TSS	52.	ppm	EBK	13-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	18-AUG-97	180	6020

Approved

Reviewer

ASARCO

September 04, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for twenty five water samples collected August 11 through August 13, 1997 and received by the lab on August 15, 1997.

As discussed, some of these samples were misplaced in transit. Shipment occured during the UPS strike.

The following samples were not received by the lab.

Sample ID#	Collection date
EPRI-9708-121	August 11, 1997
EPRI-9708-118	"
EPRI-9708-119	"
EPRI-9708-158	"
EPRI-9708-156	"
EPRI-9708-159	"
EPRI-9708-135	August 12, 1997

As you have indicated, resampling is being conducted for the above locations.

Sincerely,

Bilquis Dhedhy

Bilquis Dhedhy
Chemist

RECEIVED
SEP 09 1997
HYDROMETRICS, INC.

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971944

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971944-1	11-AUG-97	EPRI-9708-114	ALK.	37.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.32	ppm	KPB	28-AUG-97	180	6020
			CA(D)	23.	ppm	BD	21-AUG-97	180	6010
			CD(D)	.62	ppm	KPB	28-AUG-97	180	6020
			CL-	43.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	544	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	.21	ppm	KPB	28-AUG-97	180	6020
			F-	.86	ppm	BD	27-AUG-97	28	340.2
			FE(D)	.12	ppm	BD	21-AUG-97	180	6010
			HCO3	37.	ppm	BD	18-AUG-97	14	310.1
			K(D)	6.9	ppm	BD	21-AUG-97		6010
			MG(D)	3.7	ppm	BD	21-AUG-97	180	6010
			NA(D)	88.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	2.3	ppm	LV	03-SEP-97	28	353.2
			PB(D)	.036	ppm	KPB	28-AUG-97	180	6020
			PH	7.2	pH	BD	18-AUG-97		150.1
			SE(D)	.079	ppm	KPB	28-AUG-97	180	6020
			SO4=	157.	ppm	LV	27-AUG-97	28	9036
			TDS	395.	ppm	EBK	18-AUG-97	7	160.1
			TSS	163.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	1.9	ppm	KPB	28-AUG-97	180	6020
L971944-3	11-AUG-97	EPRI-9708-111	ALK.	212.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	2.5	ppm	KPB	28-AUG-97	180	6020
			CA(D)	218.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	494.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	6790	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	3.1	ppm	BD	27-AUG-97	28	340.2
			FE(D)	.65	ppm	BD	21-AUG-97	180	6010
			HCO3	212.	ppm	BD	18-AUG-97	14	310.1
			K(D)	80.	ppm	BD	21-AUG-97		6010
			MG(D)	115.	ppm	BD	21-AUG-97	180	6010
			NA(D)	930.	ppm	BD	02-SEP-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971944

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971944-3	11-AUG-97	EPRI-9708-111	NO2/NO3	.30	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.5	pH	BD	18-AUG-97		150.1
			SE(D)	.027	ppm	KPB	28-AUG-97	180	6020
			SO4=	3239.	ppm	LV	27-AUG-97	28	9036
			TDS	5028.	ppm	EBK	18-AUG-97	7	160.1
			TSS	124.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.027	ppm	KPB	28-AUG-97	180	6020
L971944-4	11-AUG-97	EPRI-9708-172	ALK.	252.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	51.	ppm	KPB	28-AUG-97	180	6020
			CA(D)	394.	ppm	BD	21-AUG-97	180	6010
			CD(D)	1.3	ppm	KPB	28-AUG-97	180	6020
			CL-	494.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	7790	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	4.9	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	252.	ppm	BD	18-AUG-97	14	310.1
			K(D)	147.	ppm	BD	21-AUG-97		6010
			MG(D)	89.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1450.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	122	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.2	pH	BD	18-AUG-97		150.1
			SE(D)	.76	ppm	KPB	28-AUG-97	180	6020
			SO4=	3200.	ppm	LV	27-AUG-97	28	9036
			TDS	6739.	ppm	EBK	18-AUG-97	7	160.1
			TSS	239.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	3.6	ppm	KPB	28-AUG-97	180	6020
L971944-10	11-AUG-97	EPRI-9708-160	ALK.	322.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.030	ppm	KPB	28-AUG-97	180	6020
			CA(D)	127.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	422.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971944

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971944-10	11-AUG-97	EPRI-9708-160	COND.	4520	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.2	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	322.	ppm	BD	18-AUG-97	14	310.1
			K(D)	14.	ppm	BD	21-AUG-97		6010
			MG(D)	80.	ppm	BD	21-AUG-97	180	6010
			NA(D)	897.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	10	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	18-AUG-97		150.1
			SE(D)	.11	ppm	KPB	28-AUG-97	180	6020
			SO4=	1707.	ppm	LV	27-AUG-97	28	9036
			TDS	3400.	ppm	EBK	18-AUG-97	7	160.1
			TSS	3.1	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.030	ppm	KPB	28-AUG-97	180	6020
L971944-11	11-AUG-97	EPRI-9708-173	ALK.	330.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.027	ppm	KPB	28-AUG-97	180	6020
			CA(D)	135.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	442.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	4500	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.2	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	330.	ppm	BD	18-AUG-97	14	310.1
			K(D)	15.	ppm	BD	21-AUG-97		6010
			MG(D)	83.	ppm	BD	21-AUG-97	180	6010
			NA(D)	879.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	8.2	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.8	pH	BD	18-AUG-97		150.1
			SE(D)	.11	ppm	KPB	28-AUG-97	180	6020
			SO4=	1653.	ppm	LV	27-AUG-97	28	9036
			TDS	3498.	ppm	EBK	18-AUG-97	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971944

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971944-11	11-AUG-97	EPRI-9708-173							
			TSS	3.4	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.027	ppm	KPB	28-AUG-97	180	6020
L971944-12	12-AUG-97	EPRI-9708-154							
			ALK.	224.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.010	ppm	KPB	28-AUG-97	180	6020
			CA(D)	175.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	308.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	2780	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	.77	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	224.	ppm	BD	18-AUG-97	14	310.1
			K(D)	21.	ppm	BD	21-AUG-97		6010
			MG(D)	68.	ppm	BD	21-AUG-97	180	6010
			NA(D)	379.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	8.3	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	18-AUG-97		150.1
			SE(D)	.029	ppm	KPB	28-AUG-97	180	6020
			SO4=	859.	ppm	LV	27-AUG-97	28	9036
			TDS	2085.	ppm	EBK	18-AUG-97	7	160.1
			TSS	5.4	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.020	ppm	KPB	28-AUG-97	180	6020
L971944-13	12-AUG-97	EPRI-9708-153							
			ALK.	442.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.020	ppm	KPB	28-AUG-97	180	6020
			CA(D)	68.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	483.	ppm	LV	28-AUG-97	28	325.2
			CO3	10.	ppm	BD	18-AUG-97		310.1
			COND.	5150	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.3	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	432.	ppm	BD	18-AUG-97	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971944

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971944-13	12-AUG-97	EPRI-9708-153	K(D)	8.8	ppm	BD	21-AUG-97		6010
			MG(D)	46.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1145.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	1.7	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.4	pH	BD	18-AUG-97		150.1
			SE(D)	.094	ppm	KPB	28-AUG-97	180	6020
			SO4=	1790.	ppm	LV	27-AUG-97	28	9036
			TDS	3679.	ppm	EBK	18-AUG-97	7	160.1
			TSS	438.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.025	ppm	KPB	28-AUG-97	180	6020
L971944-14	12-AUG-97	EPRI-9708-142	ALK.	308.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	5.6	ppm	KPB	28-AUG-97	180	6020
			CA(D)	240.	ppm	BD	21-AUG-97	180	6010
			CD(D)	.012	ppm	KPB	28-AUG-97	180	6020
			CL-	616.	ppm	LV	28-AUG-97	28	325.2
			CO3	10.	ppm	BD	18-AUG-97		310.1
			COND.	5400	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.6	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	298.	ppm	BD	18-AUG-97	14	310.1
			K(D)	35.	ppm	BD	21-AUG-97		6010
			MG(D)	58.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1034.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	.67	ppm	LV	03-SEP-97	28	353.2
			PB(D)	.006	ppm	KPB	28-AUG-97	180	6020
			PH	8.4	pH	BD	18-AUG-97		150.1
			SE(D)	.034	ppm	KPB	28-AUG-97	180	6020
			SO4=	2129.	ppm	LV	27-AUG-97	28	9036
			TDS	4175.	ppm	EBK	18-AUG-97	7	160.1
			TSS	752.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.025	ppm	KPB	28-AUG-97	180	6020
L971944-15	12-AUG-97	EPRI-9708-141	ALK.	396.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.48	ppm	KPB	28-AUG-97	180	6020
			CA(D)	195.	ppm	BD	21-AUG-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971944

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971944-15	12-AUG-97	EPRI-9708-141	CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	492.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	5110	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.1	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	396.	ppm	BD	18-AUG-97	14	310.1
			K(D)	72.	ppm	BD	21-AUG-97		6010
			MG(D)	105.	ppm	BD	21-AUG-97	180	6010
			NA(D)	937.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	5.2	ppm	LV	03-SEP-97	28	353.2
			PB(D)	.007	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	18-AUG-97		150.1
			SE(D)	.14	ppm	KPB	28-AUG-97	180	6020
			SO4=	1889.	ppm	LV	27-AUG-97	28	9036
			TDS	3967.	ppm	EBK	18-AUG-97	7	160.1
			TSS	25.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.16	ppm	KPB	28-AUG-97	180	6020
L971944-16	12-AUG-97	EPRI-9708-140	ALK.	654.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	12.	ppm	KPB	28-AUG-97	180	6020
			CA(D)	438.	ppm	BD	21-AUG-97	180	6010
			CD(D)	.036	ppm	KPB	28-AUG-97	180	6020
			CL-	352.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	19620	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	.054	ppm	KPB	28-AUG-97	180	6020
			F-	1.8	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	654.	ppm	BD	18-AUG-97	14	310.1
			K(D)	586.	ppm	BD	21-AUG-97		6010
			MG(D)	463.	ppm	BD	21-AUG-97	180	6010
			NA(D)	4680.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	191	ppm	LV	03-SEP-97	28	353.2
			PB(D)	.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.4	pH	BD	18-AUG-97		150.1

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L971944-16	12-AUG-97	EPRI-9708-140	SE(D)	5.3	ppm	KPB	28-AUG-97	180	6020
			SO4=	13167.	ppm	LV	27-AUG-97	28	9036
			TDS	20923.	ppm	EBK	18-AUG-97	7	160.1
			TSS	116.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.15	ppm	KPB	28-AUG-97	180	6020
L971944-17	12-AUG-97	EPRI-9708-138	ALK.	240.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.031	ppm	KPB	28-AUG-97	180	6020
			CA(D)	287.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	485.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	6760	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.8	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	240.	ppm	BD	18-AUG-97	14	310.1
			K(D)	388.	ppm	BD	21-AUG-97		6010
			MG(D)	117.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1048	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	25	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	18-AUG-97		150.1
			SE(D)	1.1	ppm	KPB	28-AUG-97	180	6020
			SO4=	3223.	ppm	LV	27-AUG-97	28	9036
			TDS	5763.	ppm	EBK	18-AUG-97	7	160.1
			TSS	2.0	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.030	ppm	KPB	28-AUG-97	180	6020
L971944-18	12-AUG-97	EPRI-9708-137	ALK.	238.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.48	ppm	KPB	28-AUG-97	180	6020
			CA(D)	366.	ppm	BD	21-AUG-97	180	6010
			CD(D)	.21	ppm	KPB	28-AUG-97	180	6020
			CL-	553.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	6220	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020

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L971944-18	12-AUG-97	EPRI-9708-137	F-	1.4	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	238.	ppm	BD	18-AUG-97	14	310.1
			K(D)	25.	ppm	BD	21-AUG-97		6010
			MG(D)	167.	ppm	BD	21-AUG-97	180	6010
			NA(D)	997.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	58	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.8	pH	BD	18-AUG-97		150.1
			SE(D)	.51	ppm	KPB	28-AUG-97	180	6020
			SO4=	2767.	ppm	LV	27-AUG-97	28	9036
			TDS	5403.	ppm	EBK	18-AUG-97	7	160.1
			TSS	6.4	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.45	ppm	KPB	28-AUG-97	180	6020
L971944-19	12-AUG-97	EPRI-9708-136	ALK.	248.	ppm	BD	18-AUG-97	14	310.1
			AS(D)	.16	ppm	KPB	28-AUG-97	180	6020
			CA(D)	388.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	517.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	6480	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	.95	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	248.	ppm	BD	18-AUG-97	14	310.1
			K(D)	21.	ppm	BD	21-AUG-97		6010
			MG(D)	180.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1046.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	89	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.5	pH	BD	18-AUG-97		150.1
			SE(D)	.28	ppm	KPB	28-AUG-97	180	6020
			SO4=	2720.	ppm	LV	27-AUG-97	28	9036
			TDS	5636.	ppm	EBK	18-AUG-97	7	160.1
			TSS	4.9	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020

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L971944-21	12-AUG-97	EPRI-9708-132	ALK.	206.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.015	ppm	KPB	28-AUG-97	180	6020
			CA(D)	560.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	415.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	4400	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	.82	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	206.	ppm	BD	19-AUG-97	14	310.1
			K(D)	19.	ppm	BD	21-AUG-97		6010
			MG(D)	156.	ppm	BD	21-AUG-97	180	6010
			NA(D)	488.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	18	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.6	pH	BD	19-AUG-97		150.1
			SE(D)	.14	ppm	KPB	28-AUG-97	180	6020
			SO4=	1923.	ppm	LV	27-AUG-97	28	9036
			TDS	4098.	ppm	EBK	18-AUG-97	7	160.1
			TSS	4.0	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	28-AUG-97	180	6020
L971944-22	13-AUG-97	EPRI-9708-139	ALK.	240.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.12	ppm	KPB	28-AUG-97	180	6020
			CA(D)	87.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	253.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	2550	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	.85	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	240.	ppm	BD	19-AUG-97	14	310.1
			K(D)	7.6	ppm	BD	21-AUG-97		6010
			MG(D)	36.	ppm	BD	21-AUG-97	180	6010
			NA(D)	448.	ppm	BD	21-AUG-97	180	6010

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L971944-22	13-AUG-97	EPRI-9708-139							
			NO2/NO3	5.9	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	19-AUG-97		150.1
			SE(D)	.44	ppm	KPB	28-AUG-97	180	6020
			SO4=	710.	ppm	LV	27-AUG-97	28	9036
			TDS	1771.	ppm	EBK	18-AUG-97	7	160.1
			TSS	31.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.020	ppm	KPB	28-AUG-97	180	6020
L971944-23	13-AUG-97	EPRI-9708-143							
			ALK.	282.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	6.3	ppm	KPB	28-AUG-97	180	6020
			CA(D)	46.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	179.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	2600	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	4.9	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	282.	ppm	BD	19-AUG-97	14	310.1
			K(D)	46.	ppm	BD	21-AUG-97		6010
			MG(D)	26.	ppm	BD	21-AUG-97	180	6010
			NA(D)	492.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	7.6	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	19-AUG-97		150.1
			SE(D)	.35	ppm	KPB	28-AUG-97	180	6020
			SO4=	807.	ppm	LV	27-AUG-97	28	9036
			TDS	1773.	ppm	EBK	18-AUG-97	7	160.1
			TSS	9.8	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	28-AUG-97	180	6020
L971944-24	13-AUG-97	EPRI-9708-144							
			ALK.	388.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.011	ppm	KPB	28-AUG-97	180	6020
			CA(D)	59.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	437.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1

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L971944-24	13-AUG-97	EPRI-9708-144	COND.	4890	umhos	BD	02-SEP-97	28	120.1
			CR(D)	.012	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	4.1	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	388.	ppm	BD	19-AUG-97	14	310.1
			K(D)	9.3	ppm	BD	21-AUG-97		6010
			MG(D)	71.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1018.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	9.5	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	19-AUG-97		150.1
			SE(D)	.17	ppm	KPB	28-AUG-97	180	6020
			SO4=	1596.	ppm	LV	27-AUG-97	28	9036
			TDS	3643.	ppm	EBK	18-AUG-97	7	160.1
			TSS	20.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971944-25	13-AUG-97	EPRI-9708-145	ALK.	456.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.019	ppm	KPB	28-AUG-97	180	6020
			CA(D)	190.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	432.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	5040	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.3	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	456.	ppm	BD	19-AUG-97	14	310.1
			K(D)	20.	ppm	BD	21-AUG-97		6010
			MG(D)	87.	ppm	BD	21-AUG-97	180	6010
			NA(D)	934.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	1.4	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.7	pH	BD	19-AUG-97		150.1
			SE(D)	.017	ppm	KPB	28-AUG-97	180	6020
			SO4=	1889.	ppm	LV	27-AUG-97	28	9036
			TDS	4036.	ppm	EBK	18-AUG-97	7	160.1

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L971944-25	13-AUG-97	EPRI-9708-145	TSS	382.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971944-26	13-AUG-97	EPRI-9708-146	ALK.	360.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.21	ppm	KPB	28-AUG-97	180	6020
			CA(D)	176.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	164.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	2550	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.4	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	360.	ppm	BD	19-AUG-97	14	310.1
			K(D)	18.	ppm	BD	21-AUG-97		6010
			MG(D)	86.	ppm	BD	21-AUG-97	180	6010
			NA(D)	327.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	6.2	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.7	pH	BD	19-AUG-97		150.1
			SE(D)	.22	ppm	KPB	28-AUG-97	180	6020
			SO4=	961.	ppm	LV	27-AUG-97	28	9036
			TDS	2045.	ppm	EBK	18-AUG-97	7	160.1
			TSS	233.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971944-27	13-AUG-97	EPRI-9708-147	ALK.	362.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.016	ppm	KPB	28-AUG-97	180	6020
			CA(D)	151.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	422.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	3980	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.5	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	362.	ppm	BD	19-AUG-97	14	310.1

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L971944-27	13-AUG-97	EPRI-9708-147	K(D)	21.	ppm	BD	21-AUG-97		6010
			MG(D)	74.	ppm	BD	21-AUG-97	180	6010
			NA(D)	693.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	8.9	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.7	pH	BD	19-AUG-97		150.1
			SE(D)	.27	ppm	KPB	28-AUG-97	180	6020
			SO4=	1310.	ppm	LV	27-AUG-97	28	9036
			TDS	2948.	ppm	EBK	18-AUG-97	7	160.1
			TSS	7.3	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971944-28	13-AUG-97	EPRI-9708-148	ALK.	308.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.010	ppm	KPB	28-AUG-97	180	6020
			CA(D)	86.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	359.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	3940	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.9	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	308.	ppm	BD	19-AUG-97	14	310.1
			K(D)	12.	ppm	BD	21-AUG-97		6010
			MG(D)	73.	ppm	BD	21-AUG-97	180	6010
			NA(D)	748.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	8.2	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	19-AUG-97		150.1
			SE(D)	.053	ppm	KPB	28-AUG-97	180	6020
			SO4=	1382.	ppm	LV	27-AUG-97	28	9036
			TDS	2910.	ppm	EBK	18-AUG-97	7	160.1
			TSS	6.0	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.021	ppm	KPB	28-AUG-97	180	6020
L971944-29	13-AUG-97	EPRI-9708-149	ALK.	224.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.10	ppm	KPB	28-AUG-97	180	6020
			CA(D)	148.	ppm	BD	21-AUG-97	180	6010

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L971944-29	13-AUG-97	EPRI-9708-149	CD(D)	.007	ppm	KPB	28-AUG-97	180	6020
			CL-	184.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	1958	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	.026	ppm	KPB	28-AUG-97	180	6020
			F-	.80	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	224.	ppm	BD	19-AUG-97	14	310.1
			K(D)	8.5	ppm	BD	21-AUG-97		6010
			MG(D)	62.	ppm	BD	21-AUG-97	180	6010
			NA(D)	224.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	8.4	ppm	LV	03-SEP-97	28	353.2
			PB(D)	.009	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	19-AUG-97		150.1
			SE(D)	.036	ppm	KPB	28-AUG-97	180	6020
			SO4=	524.	ppm	LV	27-AUG-97	28	9036
			TDS	1525.	ppm	EBK	18-AUG-97	7	160.1
			TSS	18.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.042	ppm	KPB	28-AUG-97	180	6020
L971944-30	13-AUG-97	EPRI-9708-150	ALK.	314.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	3.1	ppm	KPB	28-AUG-97	180	6020
			CA(D)	106.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	193.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	2900	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	3.6	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	314.	ppm	BD	19-AUG-97	14	310.1
			K(D)	32.	ppm	BD	21-AUG-97		6010
			MG(D)	49.	ppm	BD	21-AUG-97	180	6010
			NA(D)	495.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	7.3	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	19-AUG-97		150.1

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L971944-30	13-AUG-97	EPRI-9708-150	SE(D)	.22	ppm	KPB	28-AUG-97	180	6020
			SO4=	1034.	ppm	LV	27-AUG-97	28	9036
			TDS	2126.	ppm	EBK	18-AUG-97	7	160.1
			TSS	4.4	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971944-31	13-AUG-97	EPRI-9708-151	ALK.	292.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.011	ppm	KPB	28-AUG-97	180	6020
			CA(D)	46.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	285.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	2630	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.8	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	292.	ppm	BD	19-AUG-97	14	310.1
			K(D)	11.	ppm	BD	21-AUG-97		6010
			MG(D)	33.	ppm	BD	21-AUG-97	180	6010
			NA(D)	493.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	6.6	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	19-AUG-97		150.1
			SE(D)	.043	ppm	KPB	28-AUG-97	180	6020
			SO4=	658.	ppm	LV	27-AUG-97	28	9036
			TDS	1780.	ppm	EBK	18-AUG-97	7	160.1
			TSS	78.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971944-32	13-AUG-97	EPRI-9708-155	ALK.	184.	ppm	BD	19-AUG-97	14	310.1
			AS(D)	.011	ppm	KPB	28-AUG-97	180	6020
			CA(D)	184.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	687.	ppm	LV	28-AUG-97	28	325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	5200	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020

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L971944-32	13-AUG-97	EPRI-9708-155	F-	.81	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	184.	ppm	BD	19-AUG-97	14	310.1
			K(D)	32.	ppm	BD	21-AUG-97		6010
			MG(D)	100.	ppm	BD	21-AUG-97	180	6010
			NA(D)	900.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	.23	ppm	LV	03-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.8	pH	BD	19-AUG-97		150.1
			SE(D)	.017	ppm	KPB	28-AUG-97	180	6020
			SO4=	1849.	ppm	LV	27-AUG-97	28	9036
			TDS	3948.	ppm	EBK	18-AUG-97	7	160.1
			TSS	58.	ppm	EBK	18-AUG-97		160.2
			ZN(D)	.029	ppm	KPB	28-AUG-97	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971305-1		Matrix Spike	AS(D)	102	% RECOVERY	KPB	28-AUG-97		6020
			CA(D)	SR>4xSA	% RECOVERY	BD	21-AUG-97		6010
			CD(D)	101	% RECOVERY	KPB	28-AUG-97		6020
			CL-	103	% RECOVERY	LV	28-AUG-97		325.2
			CR(D)	88	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	98	% RECOVERY	KPB	28-AUG-97		6020
			F-	99	% RECOVERY	BD	27-AUG-97		340.2
			FE(D)	97	% RECOVERY	BD	21-AUG-97		6010
			K(D)	106	% RECOVERY	BD	21-AUG-97		6010
			MG(D)	SR>4xSA	% RECOVERY	BD	21-AUG-97		6010
			NA(D)	SR>4xSA	% RECOVERY	BD	21-AUG-97		6010
			NO2/NO3	100	% RECOVERY	LV	03-SEP-97		353.2
			PB(D)	108	% RECOVERY	KPB	28-AUG-97		6020
			SE(D)	111	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	106	% RECOVERY	LV	27-AUG-97		9036
			ZN(D)	99	% RECOVERY	KPB	28-AUG-97		6020
WG971305-2		Prep Blank	ALK.	<1.0	ppm	BD	18-AUG-97		310.1
			AS(D)	<.005	ppm	KPB	28-AUG-97		6020
			CA(D)	<1.0	ppm	BD	21-AUG-97		6010
			CD(D)	<.005	ppm	KPB	28-AUG-97		6020
			CL-	<1.0	ppm	LV	28-AUG-97		325.2
			CO3	<1.0	ppm	BD	18-AUG-97		310.1
			COND.	<5	umhos	BD	02-SEP-97		120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97		6020
			CU(D)	<.025	ppm	KPB	28-AUG-97		6020
			F-	<.050	ppm	BD	27-AUG-97		340.2
			FE(D)	<.10	ppm	BD	21-AUG-97		6010
			HCO3	<1.0	ppm	BD	18-AUG-97		310.1
			K(D)	<2.0	ppm	BD	21-AUG-97		6010
			MG(D)	<1.0	ppm	BD	21-AUG-97		6010
			NA(D)	<2.0	ppm	BD	21-AUG-97		6010
			NO2/NO3	<.050	ppm	LV	03-SEP-97		353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97		6020
			SE(D)	<.005	ppm	KPB	28-AUG-97		6020
			SO4=	<2.0	ppm	LV	27-AUG-97		9036
			TDS	<10.	ppm	EBK	18-AUG-97		160.1
			TSS	<1.0	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97		6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971305-3		Laboratory Control	ALK.	102	% RECOVERY	BD	18-AUG-97		310.1
			AS(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			CA(D)	95	% RECOVERY	BD	21-AUG-97		6010
			CD(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			CL-	100	% RECOVERY	LV	28-AUG-97		325.2
			COND.	101	% RECOVERY	BD	02-SEP-97		120.1
			CR(D)	95	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			F-	93	% RECOVERY	BD	27-AUG-97		340.2
			FE(D)	96	% RECOVERY	BD	21-AUG-97		6010
			HCO3	102	% RECOVERY	BD	18-AUG-97		310.1
			K(D)	106	% RECOVERY	BD	21-AUG-97		6010
			MG(D)	95	% RECOVERY	BD	21-AUG-97		6010
			NA(D)	110	% RECOVERY	BD	21-AUG-97		6010
			NO2/NO3	101	% RECOVERY	LV	03-SEP-97		353.2
			PB(D)	100	% RECOVERY	KPB	28-AUG-97		6020
			SE(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	104	% RECOVERY	LV	27-AUG-97		9036
			TDS	103	% RECOVERY	EBK	18-AUG-97		160.1
			TSS	108	% RECOVERY	EBK	18-AUG-97		160.2
			ZN(D)	103	% RECOVERY	KPB	28-AUG-97		6020
WG971305-4		Duplicate	ALK.	<1	% RPD	BD	18-AUG-97		310.1
			AS(D)	<1	% RPD	KPB	28-AUG-97		6020
			CA(D)	1.1	% RPD	BD	21-AUG-97		6010
			CD(D)	<1	% RPD	KPB	28-AUG-97		6020
			CL-	2.2	% RPD	LV	28-AUG-97		325.2
			CO3	<1	% RPD	BD	18-AUG-97		310.1
			COND.	<1	% RPD	BD	02-SEP-97		120.1
			CR(D)	<1	% RPD	KPB	02-SEP-97		6020
			CU(D)	<1	% RPD	KPB	28-AUG-97		6020
			F-	<1	% RPD	BD	27-AUG-97		340.2
			FE(D)	<1	% RPD	BD	21-AUG-97		6010
			HCO3	<1	% RPD	BD	18-AUG-97		310.1
			K(D)	<1	% RPD	BD	21-AUG-97		6010
			MG(D)	2.0	% RPD	BD	21-AUG-97		6010
			NA(D)	1.4	% RPD	BD	21-AUG-97		6010
			NO2/NO3	6.0	% RPD	LV	03-SEP-97		353.2
			PB(D)	2.4	% RPD	KPB	28-AUG-97		6020

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WG971305-4		Duplicate	SE(D)	3.1	% RPD	KPB	28-AUG-97		6020
			SO4=	3.1	% RPD	LV	27-AUG-97		9036
			TDS	<1	% RPD	EBK	18-AUG-97		160.1
			TSS	7.1	% RPD	EBK	18-AUG-97		160.2
			ZN(D)	<1	% RPD	KPB	28-AUG-97		6020
WG971305-5		Detection Limit	ALK.	1.0	ppm				310.1
			AS(D)	.005	ppm				6020
			CA(D)	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm				310.1
			K(D)	2.0	ppm				6010
			MG(D)	1.0	ppm				6010
			NA(D)	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
WG971305-6		Matrix Spike	AS(D)	108	% RECOVERY	KPB	28-AUG-97		6020
			CD(D)	101	% RECOVERY	KPB	28-AUG-97		6020
			CL-	100	% RECOVERY	LV	28-AUG-97		325.2
			CR(D)	92	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	95	% RECOVERY	KPB	28-AUG-97		6020
			F-	88	% RECOVERY	BD	27-AUG-97		340.2
			NO2/NO3	85	% RECOVERY	LV	03-SEP-97		353.2
			PB(D)	104	% RECOVERY	KPB	28-AUG-97		6020
			SE(D)	114	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	107	% RECOVERY	LV	27-AUG-97		9036

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WG971305-6		Matrix Spike	ZN(D)	104	% RECOVERY	KPB	28-AUG-97		6020
WG971305-7		Prep Blank	ALK.	<1.0	ppm	BD	19-AUG-97		310.1
			AS(D)	<.005	ppm	KPB	28-AUG-97		6020
			CD(D)	<.005	ppm	KPB	28-AUG-97		6020
			CL-	<1.0	ppm	LV	28-AUG-97		325.2
			CO3	<1.0	ppm	BD	19-AUG-97		310.1
			COND.	<5	umhos	BD	02-SEP-97		120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97		6020
			CU(D)	<.025	ppm	KPB	28-AUG-97		6020
			F-	<.050	ppm	BD	27-AUG-97		340.2
			HCO3	<1.0	ppm	BD	19-AUG-97		310.1
			NA(D)	<2.0	ppm	BD	02-SEP-97		6010
			NO2/NO3	<.050	ppm	LV	03-SEP-97		353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97		6020
			SE(D)	<.005	ppm	KPB	28-AUG-97		6020
			SO4=	<2.0	ppm	LV	27-AUG-97		9036
			TDS	<10.	ppm	EBK	18-AUG-97		160.1
			TSS	<1.0	ppm	EBK	18-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97		6020
WG971305-8		Laboratory Control	ALK.	103	% RECOVERY	BD	19-AUG-97		310.1
			AS(D)	108	% RECOVERY	KPB	28-AUG-97		6020
			CD(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			CL-	102	% RECOVERY	LV	28-AUG-97		325.2
			COND.	101	% RECOVERY	BD	02-SEP-97		120.1
			CR(D)	100	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			HCO3	103	% RECOVERY	BD	19-AUG-97		310.1
			NA(D)	105	% RECOVERY	BD	02-SEP-97		6010
			NO2/NO3	98	% RECOVERY	LV	03-SEP-97		353.2
			PB(D)	100	% RECOVERY	KPB	28-AUG-97		6020
			SE(D)	100	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	109	% RECOVERY	LV	27-AUG-97		9036
			TDS	107	% RECOVERY	EBK	18-AUG-97		160.1
			TSS	95	% RECOVERY	EBK	18-AUG-97		160.2
			ZN(D)	105	% RECOVERY	KPB	28-AUG-97		6020

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Water and Solid Waste (Project 3220)

Batch No: WG971305

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971305-9		Duplicate	ALK.	<1	% RPD	BD	19-AUG-97		310.1
			AS(D)	<1	% RPD	KPB	28-AUG-97		6020
			CD(D)	<1	% RPD	KPB	28-AUG-97		6020
			CL-	<1	% RPD	LV	28-AUG-97		325.2
			CO3	<1	% RPD	BD	19-AUG-97		310.1
			COND.	<1	% RPD	BD	02-SEP-97		120.1
			CR(D)	<1	% RPD	KPB	02-SEP-97		6020
			CU(D)	<1	% RPD	KPB	28-AUG-97		6020
			F-	<1	% RPD	BD	27-AUG-97		340.2
			HCO3	<1	% RPD	BD	19-AUG-97		310.1
			NO2/NO3	4.7	% RPD	LV	03-SEP-97		353.2
			PB(D)	<1	% RPD	KPB	28-AUG-97		6020
			SE(D)	<1	% RPD	KPB	28-AUG-97		6020
			SO4=	6.9	% RPD	LV	27-AUG-97		9036
			TDS	5.3	% RPD	EBK	18-AUG-97		160.1
			TSS	11	% RPD	EBK	18-AUG-97		160.2
			ZN(D)	<1	% RPD	KPB	28-AUG-97		6020

Approved

Reviewer

Hydrometrics Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

CHAIN OF CUSTODY RECORD

PROJ. NO. ~~0782~~ 0731 502.100

PROJECT NAME: ASARCO - El Paso - R1

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
8-11-97	0845			EPR1-9708-114	3	X	X	X													
8-11-97	0930			EPR1-9708-121																	
8-11-97	1015			EPR1-9708-111																	
8-11-97	1200			EPR1-9708-172																	
8-11-97	1400			EPR1-9708-118																	
8-11-97	1445			EPR1-9708-119																	
8-11-97	1545			EPR1-9708-158																	
8-11-97	1730			EPR1-9708-156																	
8-11-97	1800			EPR1-9708-159																	
8-11-97	1830			EPR1-9708-160																	
8-11-97	1840			EPR1-9708-173																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	8/13/97 1600				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			8-15-97 9:30		

HFORM-1-4/95

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

Split Samples:
[] Accepted [] Declined _____ Signature

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.
2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO. 0734.502 | PROJECT NAME ASARCO - El Paso - RI

SAMPLERS: (Signature)

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
8-12-97	14:30			EPRI-9708-154	3	X	X	X													
8-12-97	16:06			EPRI-9708-153																	
8-12-97	15:15			EPRI-9708-142																	
8-12-97	18:45			EPRI-9708-141																	
8-12-97	17:50			EPRI-9708-140																	
8-12-97	16:45			EPRI-9708-138																	
8-12-97	11:50			EPRI-9708-137																	
8-12-97	10:00			EPRI-9708-136																	
8-12-97	10:45			EPRI-9708-135																	
8-12-97	9:15			EPRI-9708-132																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	8/13/97 1600				

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other
			8.15.97 9:30	

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

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

Hydrometrics Inc.

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.: 0734.502.100

PROJECT NAME: ASARCO-El Paso - RI

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
8-13-97	945			EPRI-9708-139	3	X	X	X													
8-13-97	1545			EPRI-9708-143	↓	↓	↓	↓													
8-13-97	1515			EPRI-9708-144																	
8-13-97	1100			EPRI-9708-145																	
8-13-97	1130			EPRI-9708-146																	
8-13-97	1645			EPRI-9708-147																	
8-13-97	1830			EPRI-9708-148																	
8-13-97	1800			EPRI-9708-149																	
8-13-97	1230			EPRI-9708-150																	
8-13-97	1415			EPRI-9708-151																	
8-13-97	740			EPRI-9708-155	↓	↓	↓	↓													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	8-14-97 1400				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time 8-15-97 9:30	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	

Split Samples:
[] Accepted [] Declined _____ Signature

HFORM-1-4/95

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

ASARCO

September 18, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated QC deliverables and chain of custody forms for twenty three water samples collected August 14 through August 18, 1997 and received by the lab on August 19, 1997.

If you have questions, please call (801) 263-5268.

Sincerely,

Bilquis Dhedhy

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-1	15-AUG-97	EPRI-9708-110	ALK.	1078.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	.035	ppm	KPB	17-SEP-97	180	6020
			CA(D)	106.	ppm	BD	21-AUG-97	180	6010
			CD(D)	.006	ppm	KPB	28-AUG-97	180	6020
			CL-	711.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	8540	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	.031	ppm	KPB	28-AUG-97	180	6020
			F-	5.1	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	02-SEP-97	180	6010
			HCO3	1078.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	180.	ppm	BD	21-AUG-97		6010
			MG(D)	91.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1168.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	100.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	.016	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	26-AUG-97		150.1
			SE(D)	.32	ppm	KPB	28-AUG-97	180	6020
			SO4=	1866.	ppm	LV	09-SEP-97	28	9036
			TDS	5188.	ppm	EBK	20-AUG-97	7	160.1
			TSS	14.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.64	ppm	KPB	28-AUG-97	180	6020
L971969-2	15-AUG-97	EPRI-9708-112	ALK.	800.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	.47	ppm	KPB	28-AUG-97	180	6020
			CA(D)	174.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	831.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	5150	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.6	ppm	BD	27-AUG-97	28	340.2
			FE(D)	4.4	ppm	BD	21-AUG-97	180	6010
			HCO3	800.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	25.	ppm	BD	21-AUG-97		6010
			MG(D)	55.	ppm	BD	21-AUG-97	180	6010
			NA(D)	910.	ppm	BD	02-SEP-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-2	15-AUG-97	EPRI-9708-112							
			NO2/NO3	<.050	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	26-AUG-97		150.1
			SE(D)	.014	ppm	KPB	28-AUG-97	180	6020
			SO4=	765.	ppm	LV	09-SEP-97	28	9036
			TDS	3451.	ppm	EBK	20-AUG-97	7	160.1
			TSS	17.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.035	ppm	KPB	28-AUG-97	180	6020
L971969-3	15-AUG-97	EPRI-9708-113							
			ALK.	990.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	3.0	ppm	KPB	28-AUG-97	180	6020
			CA(D)	113.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	1127.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	5990	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.6	ppm	BD	27-AUG-97	28	340.2
			FE(D)	2.6	ppm	BD	21-AUG-97	180	6010
			HCO3	990.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	78.	ppm	BD	21-AUG-97		6010
			MG(D)	40.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1040.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	.94	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.4	pH	BD	26-AUG-97		150.1
			SE(D)	.17	ppm	KPB	28-AUG-97	180	6020
			SO4=	695.	ppm	LV	09-SEP-97	28	9036
			TDS	3995.	ppm	EBK	20-AUG-97	7	160.1
			TSS	84.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.021	ppm	KPB	28-AUG-97	180	6020
L971969-4	15-AUG-97	EPRI-9708-166							
			ALK.	178.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	62.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-4	15-AUG-97	EPRI-9708-166							
			CL-	74.	ppm	LV	08-SEP-97	28	325.2
			CO3	4.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	858	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.66	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	5.6	ppm	JJT	09-SEP-97	180	6010
			HCO3	174.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.1	ppm	BD	21-AUG-97		6010
			MG(D)	14.	ppm	BD	21-AUG-97	180	6010
			NA(D)	104.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.39	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.008	ppm	KPB	05-SEP-97	180	6020M
			PH	8.4	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	149.	ppm	LV	09-SEP-97	28	9036
			TDS	571.	ppm	EBK	20-AUG-97	7	160.1
			TSS	321.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.035	ppm	KPB	05-SEP-97	180	6020M
L971969-5	15-AUG-97	EPRI-9708-178							
			ALK.	180.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	61.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	76.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	854	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-5	15-AUG-97	EPRI-9708-178	F-	.65	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	5.4	ppm	JJT	09-SEP-97	180	6010
			HCO3	180.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.3	ppm	BD	21-AUG-97		6010
			MG(D)	14.	ppm	BD	21-AUG-97	180	6010
			NA(D)	102.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.38	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.006	ppm	KPB	05-SEP-97	180	6020M
			PH	8.2	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	141.	ppm	LV	09-SEP-97	28	9036
			TDS	554.	ppm	EBK	20-AUG-97	7	160.1
			TSS	305.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.026	ppm	KPB	05-SEP-97	180	6020M
L971969-6	15-AUG-97	EPRI-9708-177	ALK.	176.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	61.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	68.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	850	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.64	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	5.2	ppm	JJT	09-SEP-97	180	6010
			HCO3	176.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.2	ppm	BD	21-AUG-97		6010
			MG(D)	14.	ppm	BD	21-AUG-97	180	6010
			NA(D)	101.	ppm	BD	21-AUG-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-6	15-AUG-97	EPRI-9708-177							
			NO2/NO3	.38	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.009	ppm	KPB	05-SEP-97	180	6020M
			PH	8.3	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	134.	ppm	LV	09-SEP-97	28	9036
			TDS	590.	ppm	EBK	20-AUG-97	7	160.1
			TSS	224.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.036	ppm	KPB	05-SEP-97	180	6020M
L971969-7	15-AUG-97	EPRI-9708-164							
			ALK.	172.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	61.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	75.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	842	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.64	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	3.9	ppm	JJT	09-SEP-97	180	6010
			HCO3	172.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.2	ppm	BD	21-AUG-97		6010
			MG(D)	14.	ppm	BD	21-AUG-97	180	6010
			NA(D)	102.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.35	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.006	ppm	KPB	05-SEP-97	180	6020M
			PH	8.3	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	131.	ppm	LV	09-SEP-97	28	9036

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Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-7	15-AUG-97	EPRI-9708-164							
			TDS	585.	ppm	EBK	20-AUG-97	7	160.1
			TSS	180.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.033	ppm	KPB	05-SEP-97	180	6020M
L971969-8	15-AUG-97	EPRI-9708-176							
			ALK.	162.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	60.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	73.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	814	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.57	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	5.0	ppm	JJT	09-SEP-97	180	6010
			HCO3	162.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.3	ppm	BD	21-AUG-97		6010
			MG(D)	14.	ppm	BD	21-AUG-97	180	6010
			NA(D)	101.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.36	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.006	ppm	KPB	05-SEP-97	180	6020M
			PH	8.1	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	140.	ppm	LV	09-SEP-97	28	9036
			TDS	526.	ppm	EBK	20-AUG-97	7	160.1
			TSS	432.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.037	ppm	KPB	05-SEP-97	180	6020M
L971969-9	15-AUG-97	EPRI-9708-175							
			ALK.	170.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-9	15-AUG-97	EPRI-9708-175	AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	60.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	69.	ppm	LV	08-SEP-97	28	325.2
			CO3	4.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	835	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.64	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	5.9	ppm	JJT	09-SEP-97	180	6010
			HCO3	166.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.2	ppm	BD	21-AUG-97		6010
			MG(D)	14.	ppm	BD	21-AUG-97	180	6010
			NA(D)	100.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.36	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.007	ppm	KPB	05-SEP-97	180	6020M
			PH	8.4	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	145.	ppm	LV	09-SEP-97	28	9036
			TDS	576.	ppm	EBK	20-AUG-97	7	160.1
			TSS	286.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.040	ppm	KPB	05-SEP-97	180	6020M
L971969-10	15-AUG-97	EPRI-9708-179	ALK.	174.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	60.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	67.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	837	umhos	BD	02-SEP-97	28	120.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-10	15-AUG-97	EPRI-9708-179							
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.64	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	5.1	ppm	JJT	09-SEP-97	180	6010
			HCO3	174.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.3	ppm	BD	21-AUG-97		6010
			MG(D)	14.	ppm	BD	21-AUG-97	180	6010
			NA(D)	100.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.37	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.007	ppm	KPB	05-SEP-97	180	6020M
			PH	8.3	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	131.	ppm	LV	09-SEP-97	28	9036
			TDS	543.	ppm	EBK	20-AUG-97	7	160.1
			TSS	339.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.042	ppm	KPB	05-SEP-97	180	6020M
L971969-11	15-AUG-97	EPRI-9708-163							
			ALK.	180.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	62.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	81.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	910	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.65	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	4.4	ppm	JJT	09-SEP-97	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-11	15-AUG-97	EPRI-9708-163							
			HCO3	180.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.4	ppm	BD	21-AUG-97		6010
			MG(D)	15.	ppm	BD	21-AUG-97	180	6010
			NA(D)	114.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.50	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.008	ppm	KPB	05-SEP-97	180	6020M
			PH	8.3	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	156.	ppm	LV	09-SEP-97	28	9036
			TDS	635.	ppm	EBK	20-AUG-97	7	160.1
			TSS	275.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.044	ppm	KPB	05-SEP-97	180	6020M
L971969-12	15-AUG-97	EPRI-9708-171							
			ALK.	174.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			AS(TR)	.006	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	64.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	116.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	1133	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.68	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	3.2	ppm	JJT	09-SEP-97	180	6010
			HCO3	174.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	9.5	ppm	BD	21-AUG-97		6010
			MG(D)	15.	ppm	BD	21-AUG-97	180	6010
			NA(D)	155.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	2.3	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.004	ppm	KPB	05-SEP-97	180	6020M

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-12	15-AUG-97	EPRI-9708-171							
			PH	8.3	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	203.	ppm	LV	09-SEP-97	28	9036
			TDS	730.	ppm	EBK	20-AUG-97	7	160.1
			TSS	223.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.023	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.034	ppm	KPB	05-SEP-97	180	6020M
L971969-13	15-AUG-97	EPRI-9708-120							
			ALK.	460.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	62.	ppm	BD	21-AUG-97	180	6010
			CA(D)	569.	ppm	BD	09-SEP-97	180	6010
			CD(D)	.13	ppm	KPB	28-AUG-97	180	6020
			CL-	945.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	10550	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	17.	ppm	BD	27-AUG-97	28	340.2
			FE(D)	229.	ppm	BD	09-SEP-97	180	6010
			HCO3	460.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	227.	ppm	BD	09-SEP-97		6010
			MG(D)	373.	ppm	BD	09-SEP-97	180	6010
			NA(D)	1602.	ppm	BD	09-SEP-97	180	6010
			NO2/NO3	<.050	ppm	LV	04-SEP-97	28	353.2
			PB(D)	.020	ppm	KPB	28-AUG-97	180	6020
			PH	7.0	pH	BD	26-AUG-97		150.1
			SE(D)	.28	ppm	KPB	28-AUG-97	180	6020
			SO4=	4747.	ppm	LV	09-SEP-97	28	9036
			TDS	9746.	ppm	EBK	20-AUG-97	7	160.1
			TSS	947.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	200.	ppm	BD	09-SEP-97	180	6010
L971969-14	16-AUG-97	EPRI-9708-122							
			ALK.	1032.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	1.1	ppm	KPB	28-AUG-97	180	6020
			CA(D)	129.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	284.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-14	16-AUG-97	EPRI-9708-122							
			COND.	3330	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.2	ppm	BD	27-AUG-97	28	340.2
			FE(D)	.60	ppm	BD	21-AUG-97	180	6010
			HCO3	1032.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	23.	ppm	BD	21-AUG-97		6010
			MG(D)	87.	ppm	BD	21-AUG-97	180	6010
			NA(D)	587.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	3.8	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	26-AUG-97		150.1
			SE(D)	.030	ppm	KPB	28-AUG-97	180	6020
			SO4=	521.	ppm	LV	09-SEP-97	28	9036
			TDS	2510.	ppm	EBK	20-AUG-97	7	160.1
			TSS	452.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.027	ppm	KPB	28-AUG-97	180	6020
L971969-15	16-AUG-97	EPRI-9708-130							
			ALK.	408.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			CA(D)	392.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	643.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	7420	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.1	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	408.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	24.	ppm	BD	21-AUG-97		6010
			MG(D)	144.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1380.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	30.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.7	pH	BD	26-AUG-97		150.1
			SE(D)	.33	ppm	KPB	28-AUG-97	180	6020
			SO4=	2651.	ppm	LV	09-SEP-97	28	9036
			TDS	6449.	ppm	EBK	20-AUG-97	7	160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-15	16-AUG-97	EPRI-9708-130							
			TSS	21.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971969-16	16-AUG-97	EPRI-9708-126							
			ALK.	300.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			CA(D)	455.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	891.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	9290	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.7	ppm	BD	27-AUG-97	28	340.2
			FE(D)	1.4	ppm	BD	21-AUG-97	180	6010
			HCO3	300.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	22.	ppm	BD	21-AUG-97		6010
			MG(D)	185.	ppm	BD	21-AUG-97	180	6010
			NA(D)	1723.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	154.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	26-AUG-97		150.1
			SE(D)	.42	ppm	KPB	28-AUG-97	180	6020
			SO4=	3189.	ppm	LV	09-SEP-97	28	9036
			TDS	8194.	ppm	EBK	20-AUG-97	7	160.1
			TSS	562.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.021	ppm	KPB	28-AUG-97	180	6020
L971969-17	18-AUG-97	EPRI-9708-169							
			ALK.	176.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	16-SEP-97	180	6020
			AS(TR)	.006	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	66.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	75.	ppm	LV	08-SEP-97	28	325.2
			CO3	4.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	896	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020

ASARCO TECHN. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-17	18-AUG-97	EPRI-9708-169	CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.66	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	4.7	ppm	JJT	09-SEP-97	180	6010
			HCO3	172.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.0	ppm	BD	21-AUG-97		6010
			MG(D)	15.	ppm	BD	21-AUG-97	180	6010
			NA(D)	115.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.37	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			PH	8.4	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	157.	ppm	LV	09-SEP-97	28	9036
			TDS	594.	ppm	EBK	20-AUG-97	7	160.1
			TSS	257.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.035	ppm	KPB	05-SEP-97	180	6020M
L971969-18	18-AUG-97	EPRI-9708-165	ALK.	172.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	16-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	66.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	82.	ppm	LV	08-SEP-97	28	325.2
			CO3	4.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	959	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.66	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	4.4	ppm	JJT	09-SEP-97	180	6010
			HCO3	168.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.2	ppm	BD	21-AUG-97		6010
			MG(D)	15.	ppm	BD	21-AUG-97	180	6010

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Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-18	18-AUG-97	EPRI-9708-165	NA(D)	124.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.63	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.006	ppm	KPB	05-SEP-97	180	6020M
			PH	8.4	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	182.	ppm	LV	09-SEP-97	28	9036
			TDS	633.	ppm	EBK	20-AUG-97	7	160.1
			TSS	229.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.034	ppm	KPB	05-SEP-97	180	6020M
L971969-19	18-AUG-97	EPRI-9708-168	ALK.	174.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	16-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	65.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	85.	ppm	LV	08-SEP-97	28	325.2
			CO3	4.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	961	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	.028	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.66	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	4.5	ppm	JJT	09-SEP-97	180	6010
			HCO3	170.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.3	ppm	BD	21-AUG-97		6010
			MG(D)	15.	ppm	BD	21-AUG-97	180	6010
			NA(D)	121.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.76	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.006	ppm	KPB	05-SEP-97	180	6020M
			PH	8.4	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M

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Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-19	18-AUG-97	EPRI-9708-168	SO4=	176.	ppm	LV	09-SEP-97	28	9036
			TDS	643.	ppm	EBK	20-AUG-97	7	160.1
			TSS	178.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.035	ppm	KPB	05-SEP-97	180	6020M
L971969-20	18-AUG-97	EPRI-9708-170	ALK.	178.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	16-SEP-97	180	6020
			AS(TR)	.005	ppm	KPB	05-SEP-97	180	6020M
			CA(D)	65.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97	180	6020M
			CL-	85.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	958	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97	180	6020M
			F-	.67	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	4.3	ppm	JJT	09-SEP-97	180	6010
			HCO3	178.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	8.2	ppm	BD	21-AUG-97		6010
			MG(D)	15.	ppm	BD	21-AUG-97	180	6010
			NA(D)	121.	ppm	BD	21-AUG-97	180	6010
			NO2/NO3	.62	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PB(TR)	.008	ppm	KPB	05-SEP-97	180	6020M
			PH	8.3	pH	BD	26-AUG-97		150.1
			SE(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	190.	ppm	LV	09-SEP-97	28	9036
			TDS	677.	ppm	EBK	20-AUG-97	7	160.1
			TSS	11.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
			ZN(TR)	.032	ppm	KPB	05-SEP-97	180	6020M

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Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-21	14-AUG-97	EPRI-9708-133	ALK.	180.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			CA(D)	337.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	717.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	5430	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	.77	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	180.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	18.	ppm	BD	21-AUG-97		6010
			MG(D)	141.	ppm	BD	21-AUG-97	180	6010
			NA(D)	784.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	24.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.7	pH	BD	26-AUG-97		150.1
			SE(D)	.33	ppm	KPB	28-AUG-97	180	6020
			SO4=	1740.	ppm	LV	09-SEP-97	28	9036
			TDS	4246.	ppm	EBK	20-AUG-97	7	160.1
			TSS	19.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.024	ppm	KPB	28-AUG-97	180	6020
L971969-22	14-AUG-97	EPRI-9708-174	ALK.	184.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	<.005	ppm	KPB	17-SEP-97	180	6020
			CA(D)	320.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	735.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	5330	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	.78	ppm	BD	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			HCO3	184.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	18.	ppm	BD	21-AUG-97		6010
			MG(D)	133.	ppm	BD	21-AUG-97	180	6010
			NA(D)	774.	ppm	BD	02-SEP-97	180	6010

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Batch No: L971969

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971969-22	14-AUG-97	EPRI-9708-174	NO2/NO3	25.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.7	pH	BD	26-AUG-97		150.1
			SE(D)	.33	ppm	KPB	28-AUG-97	180	6020
			SO4=	1683.	ppm	LV	09-SEP-97	28	9036
			TDS	4220.	ppm	EBK	20-AUG-97	7	160.1
			TSS	19.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97	180	6020
L971969-23	16-AUG-97	EPRI-9708-123	ALK.	1900.	ppm CaCO3	BD	26-AUG-97	14	310.1
			AS(D)	1.4	ppm	KPB	28-AUG-97	180	6020
			CA(D)	463.	ppm	BD	21-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	989.	ppm	LV	08-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	11230	umhos	BD	02-SEP-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	4.9	ppm	BD	27-AUG-97	28	340.2
			FE(D)	2.7	ppm	BD	21-AUG-97	180	6010
			HCO3	1900.	ppm CaCO3	BD	26-AUG-97	14	310.1
			K(D)	220.	ppm	BD	21-AUG-97		6010
			MG(D)	161.	ppm	BD	21-AUG-97	180	6010
			NA(D)	2098.	ppm	BD	02-SEP-97	180	6010
			NO2/NO3	<.050	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	6.9	pH	BD	26-AUG-97		150.1
			SE(D)	.16	ppm	KPB	28-AUG-97	180	6020
			SO4=	4586.	ppm	LV	09-SEP-97	28	9036
			TDS	9153.	ppm	EBK	20-AUG-97	7	160.1
			TSS	7753.	ppm	EBK	20-AUG-97		160.2
			ZN(D)	.022	ppm	KPB	28-AUG-97	180	6020

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

Approved

Reviewer

ASARCO TECH[illegible]L SERVICES CENTER

ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

Batch No: WG971306

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971306-1		Matrix Spike	AS(D)	110	% RECOVERY	KPB	28-AUG-97		6020
			AS(TR)	103	% RECOVERY	KPB	05-SEP-97		6020M
			CA(D)	SR>4xSA	% RECOVERY	BD	21-AUG-97		6010
			CD(D)	100	% RECOVERY	KPB	28-AUG-97		6020
			CD(TR)	104	% RECOVERY	KPB	05-SEP-97		6020M
			CL-	96	% RECOVERY	LV	08-SEP-97		325.2
			CR(D)	101	% RECOVERY	KPB	02-SEP-97		6020
			CR(TR)	100	% RECOVERY	KPB	05-SEP-97		6020M
			CU(D)	90	% RECOVERY	KPB	28-AUG-97		6020
			CU(TR)	102	% RECOVERY	KPB	05-SEP-97		6020M
			F-	95	% RECOVERY	BD	27-AUG-97		340.2
			FE(D)	96	% RECOVERY	BD	21-AUG-97		6010
			FE(TR)	SR>4xSA	% RECOVERY	JJT	09-SEP-97		6010
			K(D)	SR>4xSA	% RECOVERY	BD	21-AUG-97		6010
			MG(D)	120	% RECOVERY	BD	21-AUG-97		6010
			NA(D)	SR>4xSA	% RECOVERY	BD	21-AUG-97		6010
			NO2/NO3	94	% RECOVERY	LV	04-SEP-97		353.2
			PB(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			PB(TR)	103	% RECOVERY	KPB	05-SEP-97		6020M
			SE(D)	104	% RECOVERY	KPB	28-AUG-97		6020
			SE(TR)	103	% RECOVERY	KPB	05-SEP-97		6020M
			SO4=	94	% RECOVERY	LV	09-SEP-97		9036
			ZN(D)	108	% RECOVERY	KPB	28-AUG-97		6020
			ZN(TR)	105	% RECOVERY	KPB	05-SEP-97		6020M
WG971306-2		Prep Blank	ALK.	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			AS(D)	<.005	ppm	KPB	28-AUG-97		6020
			AS(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			CA(D)	<1.0	ppm	BD	21-AUG-97		6010
			CD(D)	<.005	ppm	KPB	28-AUG-97		6020
			CD(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			CL-	<1.0	ppm	LV	08-SEP-97		325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	<5	umhos	BD	02-SEP-97		120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97		6020
			CR(TR)	<.010	ppm	KPB	05-SEP-97		6020M
			CU(D)	<.025	ppm	KPB	28-AUG-97		6020
			CU(TR)	<.025	ppm	KPB	05-SEP-97		6020M
			F-	<.050	ppm	BD	27-AUG-97		340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971306-2		Prep Blank	FE(D)	<.10	ppm	BD	21-AUG-97		6010
			FE(TR)	<.10	ppm	JJT	09-SEP-97		6010
			HCO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			K(D)	<5.	ppm	BD	21-AUG-97		6010
			MG(D)	<1.0	ppm	BD	21-AUG-97		6010
			NA(D)	<5.	ppm	BD	21-AUG-97		6010
			NO2/NO3	<.050	ppm	LV	04-SEP-97		353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97		6020
			PB(TR)	<.003	ppm	KPB	05-SEP-97		6020M
			SE(D)	<.005	ppm	KPB	28-AUG-97		6020
			SE(TR)	<.005	ppm	KPB	05-SEP-97		6020M
			SO4=	<2.0	ppm	LV	09-SEP-97		9036
			TDS	<10.	ppm	EBK	20-AUG-97		160.1
			TSS	<1.0	ppm	EBK	20-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97		6020
			ZN(TR)	<.020	ppm	KPB	05-SEP-97		6020M
WG971306-3		Laboratory Control	ALK.	103	% RECOVERY	BD	26-AUG-97		310.1
			AS(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			AS(TR)	104	% RECOVERY	KPB	05-SEP-97		6020M
			CA(D)	104	% RECOVERY	BD	21-AUG-97		6010
			CD(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			CD(TR)	104	% RECOVERY	KPB	05-SEP-97		6020M
			CL-	105	% RECOVERY	LV	08-SEP-97		325.2
			COND.	101	% RECOVERY	BD	02-SEP-97		120.1
			CR(D)	98	% RECOVERY	KPB	02-SEP-97		6020
			CR(TR)	94	% RECOVERY	KPB	05-SEP-97		6020M
			CU(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			CU(TR)	103	% RECOVERY	KPB	05-SEP-97		6020M
			F-	99	% RECOVERY	BD	27-AUG-97		340.2
			FE(D)	103	% RECOVERY	BD	21-AUG-97		6010
			FE(TR)	130*	% RECOVERY	JJT	09-SEP-97		6010
			HCO3	103	% RECOVERY	BD	26-AUG-97		310.1
			K(D)	110	% RECOVERY	BD	21-AUG-97		6010
			MG(D)	101	% RECOVERY	BD	21-AUG-97		6010
			NA(D)	100	% RECOVERY	BD	21-AUG-97		6010
			NO2/NO3	103	% RECOVERY	LV	04-SEP-97		353.2
			PB(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			PB(TR)	100	% RECOVERY	KPB	05-SEP-97		6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971306

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971306-3		Laboratory Control	SE(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			SE(TR)	105	% RECOVERY	KPB	05-SEP-97		6020M
			SO4=	95	% RECOVERY	LV	09-SEP-97		9036
			TDS	98	% RECOVERY	EBK	20-AUG-97		160.1
			TSS	96	% RECOVERY	EBK	20-AUG-97		160.2
			ZN(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			ZN(TR)	107	% RECOVERY	KPB	05-SEP-97		6020M
WG971306-4		Duplicate	ALK.	5.1	% RPD	BD	26-AUG-97		310.1
			AS(D)	2.2	% RPD	KPB	28-AUG-97		6020
			AS(TR)	<1	% RPD	KPB	05-SEP-97		6020M
			CA(D)	1.1	% RPD	BD	21-AUG-97		6010
			CD(D)	<1	% RPD	KPB	28-AUG-97		6020
			CD(TR)	<1	% RPD	KPB	05-SEP-97		6020M
			CL-	3.7	% RPD	LV	08-SEP-97		325.2
			CO3	<1	% RPD	BD	26-AUG-97		310.1
			COND.	<1	% RPD	BD	02-SEP-97		120.1
			CR(D)	<1	% RPD	KPB	02-SEP-97		6020
			CR(TR)	<1	% RPD	KPB	05-SEP-97		6020M
			CU(D)	<1	% RPD	KPB	28-AUG-97		6020
			CU(TR)	<1	% RPD	KPB	05-SEP-97		6020M
			F-	3.1	% RPD	BD	27-AUG-97		340.2
			FE(D)	<1	% RPD	BD	21-AUG-97		6010
			FE(TR)	7.4	% RPD	JJT	09-SEP-97		6010
			HCO3	5.1	% RPD	BD	26-AUG-97		310.1
			K(D)	1.4	% RPD	BD	21-AUG-97		6010
			MG(D)	<1	% RPD	BD	21-AUG-97		6010
			NA(D)	<1	% RPD	BD	21-AUG-97		6010
			NO2/NO3	<1	% RPD	LV	04-SEP-97		353.2
			PB(D)	<1	% RPD	KPB	28-AUG-97		6020
			PB(TR)	13	% RPD	KPB	05-SEP-97		6020M
			SE(D)	<1	% RPD	KPB	28-AUG-97		6020
			SE(TR)	<1	% RPD	KPB	05-SEP-97		6020M
			SO4=	<1	% RPD	LV	09-SEP-97		9036
			TDS	5.2	% RPD	EBK	20-AUG-97		160.1
			TSS	3.3	% RPD	EBK	20-AUG-97		160.2
			ZN(D)	<1	% RPD	KPB	28-AUG-97		6020
			ZN(TR)	+/-crdl	% RPD	KPB	05-SEP-97		6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971306

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971306-5		Detection Limit	ALK.	1.0	ppm CaCO3				310.1
			AS(D)	.005	ppm				6020
			AS(TR)	.005	ppm				6020M
			CA(D)	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CD(TR)	.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CR(TR)	.010	ppm				6020M
			CU(D)	.025	ppm				6020
			CU(TR)	.025	ppm				6020M
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			FE(TR)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K(D)	5.	ppm				6010
			MG(D)	1.0	ppm				6010
			NA(D)	5.	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			PB(TR)	.003	ppm				6020M
			SE(D)	.005	ppm				6020
			SE(TR)	.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
			ZN(TR)	.020	ppm				6020M
WG971306-6		Matrix Spike	AS(D)	119	% RECOVERY	BD	21-AUG-97		6010
			CD(D)	96	% RECOVERY	KPB	28-AUG-97		6020
			CL-	99	% RECOVERY	LV	08-SEP-97		325.2
			CR(D)	95	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	98	% RECOVERY	KPB	28-AUG-97		6020
			F-	97	% RECOVERY	BD	27-AUG-97		340.2
			NO2/NO3	89	% RECOVERY	LV	04-SEP-97		353.2
			PB(D)	104	% RECOVERY	KPB	28-AUG-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971306

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971306-6		Matrix Spike	SE(D)	101	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	95	% RECOVERY	LV	09-SEP-97		9036
			ZN(D)	96	% RECOVERY	KPB	28-AUG-97		6020
WG971306-7		Prep Blank	ALK.	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			AS(D)	<.050	ppm	BD	21-AUG-97		6010
			CD(D)	<.005	ppm	KPB	28-AUG-97		6020
			CL-	<1.0	ppm	LV	08-SEP-97		325.2
			CO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			COND.	<5	umhos	BD	02-SEP-97		120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97		6020
			CU(D)	<.025	ppm	KPB	28-AUG-97		6020
			F-	<.050	ppm	BD	27-AUG-97		340.2
			HCO3	<1.0	ppm CaCO3	BD	26-AUG-97		310.1
			NO2/NO3	<.050	ppm	LV	04-SEP-97		353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97		6020
			SE(D)	<.005	ppm	KPB	28-AUG-97		6020
			SO4=	<2.0	ppm	LV	09-SEP-97		9036
			ZN(D)	<.020	ppm	KPB	28-AUG-97		6020
WG971306-8		Laboratory Control	ALK.	103	% RECOVERY	BD	26-AUG-97		310.1
			AS(D)	97	% RECOVERY	BD	21-AUG-97		6010
			CD(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			CL-	103	% RECOVERY	LV	08-SEP-97		325.2
			COND.	101	% RECOVERY	BD	02-SEP-97		120.1
			CR(D)	98	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			F-	93	% RECOVERY	BD	27-AUG-97		340.2
			HCO3	103	% RECOVERY	BD	26-AUG-97		310.1
			NO2/NO3	98	% RECOVERY	LV	04-SEP-97		353.2
			PB(D)	100	% RECOVERY	KPB	28-AUG-97		6020
			SE(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	98	% RECOVERY	LV	09-SEP-97		9036
			ZN(D)	108	% RECOVERY	KPB	28-AUG-97		6020
WG971306-9		Duplicate	ALK.	5.1	% RPD	BD	26-AUG-97		310.1
			AS(D)	<1	% RPD	BD	21-AUG-97		6010
			CD(D)	<1	% RPD	KPB	28-AUG-97		6020
			CL-	2.4	% RPD	LV	08-SEP-97		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971306

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971306-9		Duplicate	CO3	<1	% RPD	BD	26-AUG-97		310.1
			COND.	<1	% RPD	BD	02-SEP-97		120.1
			CR(D)	<1	% RPD	KPB	02-SEP-97		6020
			CU(D)	<1	% RPD	KPB	28-AUG-97		6020
			F-	<1	% RPD	BD	27-AUG-97		340.2
			HCO3	5.1	% RPD	BD	26-AUG-97		310.1
			NO2/NO3	1.3	% RPD	LV	04-SEP-97		353.2
			PB(D)	<1	% RPD	KPB	28-AUG-97		6020
			SE(D)	<1	% RPD	KPB	28-AUG-97		6020
			SO4=	4.6	% RPD	LV	09-SEP-97		9036
			TSS	2.0	% RPD	EBK	20-AUG-97		160.2
			ZN(D)	2.9	% RPD	KPB	28-AUG-97		6020

* = high recovery due to spot contamination.

Approved

Reviewer

Hydrometrics Inc.

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.: 0734

PROJECT NAME: ASARCO - El PASO TX

SAMPLERS: (Signature) Douglas M. Solar

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
8-15-97	1645			EPRI-9708-110	3	X	X	X													✓
8-15-97	1700			EPRI-9708-112	3	X	X	X													✓
8-15-97	1620			EPRI-9708-113	3	X	X	X													✓
8-15-97	810			EPRI-9708-166	4	X	X	X			X										✓
8-15-97	845			EPRI-9708-178	4	X	X	X			X										✓
8-15-97	905			EPRI-9708-177	4	X	X	X			X										✓
8-15-97	925			EPRI-9708-164	4	X	X	X			X										✓
8-15-97	1020			EPRI-9708-176	4	X	X	X			X										✓
8-15-97	1040			EPRI-9708-175	4	X	X	X			X										✓
8-15-97	1040			EPRI-9708-179	4	X	X	X			X										✓
8-15-97	1115			EPRI-9708-163	4	X	X	X			X										✓
8-15-97	1140			EPRI-9708-171	4	X	X	X			X										✓
8-15-97	1815			EPRI-9708-120	3	X	X	X													✓
8-16-97	915			EPRI-9708-122	3	X	X	X													✓
8-16-97	1000			EPRI-9708-130	3	X	X	X													✓

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solar	8/18/97 1600		ASARCO Salt Lake City		Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Labratory by: (Signature)	Date/Time	Enclosed:
		[illegible]	8-19-97 9:30	☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____

HFORM-1-4/95

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

Split Samples:
[] Accepted [] Declined ____ Signature

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.: 0734

PROJECT NAME: ASARCO - El PASO

SAMPLERS: (Signature) Douglas M. Solo

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH							REMARKS
8-16-97	1015			EPRI-9708-126	3	X	X	X			X			no (TR)	Larry				8/20	
8-18-97	845			EPRI-9708-169	3-4	X	X	X			X									
8-18-97	940			EPRI-9708-165	3-4	X	X	X			X									
8-18-97	1015			EPRI 9708-168	4	X	X	X			X									
8-18-97	1050			EPRI-9708-170	4	X	X	X			X									
8-14-97	930			EPRI-9708-133	3	X	X	X												
8-14-97	940			EPRI-9708-174	3	X	X	X												
8-16-97	1100			EPRI-9708-123	3	X	X	X												

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solo	8/18/97 1600		ASARCO Salt Lake City, UT		Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____
		[illegible]	8.20.97 9:00	Spl[illegible]ples: ☐ Accepted ☐ Declined ____ Signature

HFORM-1[illegible]5

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

ASARCO

September 12, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for eight water samples collected August 26 and received by the lab on August 28, 1997.

If you have any questions, please call (801) 263 5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

RECEIVED
SEP 17 1997
HYDROMETRICS, INC.

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972044

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972044-1	26-AUG-97	EPRI-9708-118							
			ALK.	214.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	.033	ppm	BD	12-SEP-97	180	206.2
			CA(D)	655.	ppm	BD	02-SEP-97	180	6010
			CD(D)	.034	ppm	KPB	28-AUG-97	180	6020
			CL-	2649.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	11800	umhos	BD	29-AUG-97	28	120.1
			CR(D)	.029	ppm	KPB	02-SEP-97	180	6020
			CU(D)	.076	ppm	KPB	28-AUG-97	180	6020
			F-	.78	ppm	BD	10-SEP-97	28	340.2
			FE(D)	1.4	ppm	BD	02-SEP-97	180	6010
			HCO3	214.	ppm CaCO3	BD	29-AUG-97	14	310.1
			K(D)	54.	ppm	BD	02-SEP-97		6010
			MG(D)	478.	ppm	BD	02-SEP-97	180	6010
			NA(D)	1416.	ppm	BD	03-SEP-97	180	6010
			NO2/NO3	115.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.3	pH	BD	29-AUG-97		150.1
			SE(D)	.22	ppm	KPB	28-AUG-97	180	6020
			SO4=	2125.	ppm	LV	09-SEP-97	28	9036
			TDS	9539.	ppm	EBK	29-AUG-97	7	160.1
			TSS	35.	ppm	EBK	29-AUG-97		160.2
			ZN(D)	.53	ppm	KPB	28-AUG-97	180	6020
L972044-2	26-AUG-97	EPRI-9708-119							
			ALK.	360.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	22.	ppm	KPB	28-AUG-97	180	6020
			CA(D)	432.	ppm	BD	02-SEP-97	180	6010
			CD(D)	5.7	ppm	KPB	28-AUG-97	180	6020
			CL-	891.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	11340	umhos	BD	29-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	.18	ppm	KPB	28-AUG-97	180	6020
			F-	16.	ppm	BD	10-SEP-97	28	340.2
			FE(D)	13.	ppm	BD	02-SEP-97	180	6010
			HCO3	360.	ppm CaCO3	BD	29-AUG-97	14	310.1
			K(D)	345.	ppm	BD	02-SEP-97		6010
			MG(D)	276.	ppm	BD	02-SEP-97	180	6010
			NA(D)	1842.	ppm	BD	03-SEP-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972044

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972044-2	26-AUG-97	EPRI-9708-119	NO2/NO3	.24	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	6.9	pH	BD	29-AUG-97		150.1
			SE(D)	.075	ppm	KPB	28-AUG-97	180	6020
			SO4=	5049.	ppm	LV	09-SEP-97	28	9036
			TDS	10210.	ppm	EBK	29-AUG-97	7	160.1
			TSS	386.	ppm	EBK	29-AUG-97		160.2
			ZN(D)	113.	ppm	KPB	28-AUG-97	180	6020
L972044-3	26-AUG-97	EPRI-9708-121	ALK.	262.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	1.9	ppm	KPB	28-AUG-97	180	6020
			CA(D)	255.	ppm	BD	02-SEP-97	180	6010
			CD(D)	.004	ppm	KPB	28-AUG-97	180	6020
			CL-	666.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	5600	umhos	BD	29-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	2.1	ppm	BD	10-SEP-97	28	340.2
			FE(D)	<.10	ppm	BD	02-SEP-97	180	6010
			HCO3	262.	ppm CaCO3	BD	29-AUG-97	14	310.1
			K(D)	27.	ppm	BD	02-SEP-97		6010
			MG(D)	63.	ppm	BD	02-SEP-97	180	6010
			NA(D)	1026.	ppm	BD	03-SEP-97	180	6010
			NO2/NO3	.77	ppm	LV	04-SEP-97	28	353.2
			PB(D)	.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.6	pH	BD	29-AUG-97		150.1
			SE(D)	.048	ppm	KPB	28-AUG-97	180	6020
			SO4=	1864.	ppm	LV	09-SEP-97	28	9036
			TDS	4474.	ppm	EBK	29-AUG-97	7	160.1
			TSS	243.	ppm	EBK	29-AUG-97		160.2
			ZN(D)	.026	ppm	KPB	28-AUG-97	180	6020
L972044-4	26-AUG-97	EPRI-9708-135	ALK.	252.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	2.0	ppm	KPB	28-AUG-97	180	6020
			CA(D)	274.	ppm	BD	02-SEP-97	180	6010
			CD(D)	.010	ppm	KPB	28-AUG-97	180	6020
			CL-	615.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972044

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972044-4	26-AUG-97	EPRI-9708-135	COND.	6970	umhos	BD	29-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.3	ppm	BD	10-SEP-97	28	340.2
			FE(D)	<.10	ppm	BD	02-SEP-97	180	6010
			HCO3	252.	ppm CaCO3	BD	29-AUG-97	14	310.1
			K(D)	31.	ppm	BD	02-SEP-97		6010
			MG(D)	149.	ppm	BD	02-SEP-97	180	6010
			NA(D)	1238.	ppm	BD	03-SEP-97	180	6010
			NO2/NO3	62.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	29-AUG-97		150.1
			SE(D)	.24	ppm	KPB	28-AUG-97	180	6020
			SO4=	2496.	ppm	LV	09-SEP-97	28	9036
			TDS	5856.	ppm	EBK	29-AUG-97	7	160.1
			TSS	6.5	ppm	EBK	29-AUG-97		160.2
			ZN(D)	.15	ppm	KPB	28-AUG-97	180	6020
L972044-5	26-AUG-97	EPRI-9708-156	ALK.	280.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	.84	ppm	KPB	28-AUG-97	180	6020
			CA(D)	204.	ppm	BD	02-SEP-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	497.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	4550	umhos	BD	29-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.4	ppm	BD	10-SEP-97	28	340.2
			FE(D)	<.10	ppm	BD	02-SEP-97	180	6010
			HCO3	280.	ppm CaCO3	BD	29-AUG-97	14	310.1
			K(D)	16.	ppm	BD	02-SEP-97		6010
			MG(D)	74.	ppm	BD	02-SEP-97	180	6010
			NA(D)	831.	ppm	BD	03-SEP-97	180	6010
			NO2/NO3	28.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	29-AUG-97		150.1
			SE(D)	.16	ppm	KPB	28-AUG-97	180	6020
			SO4=	1448.	ppm	LV	09-SEP-97	28	9036
			TDS	3589.	ppm	EBK	29-AUG-97	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972044

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972044-5	26-AUG-97	EPRI-9708-156	TSS	68.	ppm	EBK	29-AUG-97		160.2
			ZN(D)	.025	ppm	KPB	28-AUG-97	180	6020
L972044-6	26-AUG-97	EPRI-9708-158	ALK.	127.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	.009	ppm	BD	12-SEP-97	180	206.2
			CA(D)	441.	ppm	BD	02-SEP-97	180	6010
			CD(D)	<.005	ppm	KPB	28-AUG-97	180	6020
			CL-	3507.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	10410	umhos	BD	29-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.3	ppm	BD	10-SEP-97	28	340.2
			FE(D)	<.10	ppm	BD	02-SEP-97	180	6010
			HCO3	127.	ppm CaCO3	BD	29-AUG-97	14	310.1
			K(D)	38.	ppm	BD	02-SEP-97		6010
			MG(D)	198.	ppm	BD	02-SEP-97	180	6010
			NA(D)	1684.	ppm	BD	03-SEP-97	180	6010
			NO2/NO3	.30	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.9	pH	BD	29-AUG-97		150.1
			SE(D)	.011	ppm	KPB	28-AUG-97	180	6020
			SO4=	450.	ppm	LV	09-SEP-97	28	9036
			TDS	7094.	ppm	EBK	29-AUG-97	7	160.1
			TSS	15.	ppm	EBK	29-AUG-97		160.2
			ZN(D)	.031	ppm	KPB	28-AUG-97	180	6020
L972044-7	26-AUG-97	EPRI-9708-159	ALK.	162.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	1.6	ppm	KPB	28-AUG-97	180	6020
			CA(D)	197.	ppm	BD	02-SEP-97	180	6010
			CD(D)	.080	ppm	KPB	28-AUG-97	180	6020
			CL-	742.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	6160	umhos	BD	29-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	.046	ppm	KPB	28-AUG-97	180	6020
			F-	6.1	ppm	BD	10-SEP-97	28	340.2
			FE(D)	.55	ppm	BD	02-SEP-97	180	6010
			HCO3	162.	ppm CaCO3	BD	29-AUG-97	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972044

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972044-7	26-AUG-97	EPRI-9708-159	K(D)	79.	ppm	BD	02-SEP-97		6010
			MG(D)	46.	ppm	BD	02-SEP-97	180	6010
			NA(D)	1238.	ppm	BD	03-SEP-97	180	6010
			NO2/NO3	.15	ppm	LV	04-SEP-97	28	353.2
			PB(D)	.010	ppm	KPB	28-AUG-97	180	6020
			PH	8.0	pH	BD	29-AUG-97		150.1
			SE(D)	.027	ppm	KPB	28-AUG-97	180	6020
			SO4=	1943.	ppm	LV	09-SEP-97	28	9036
			TDS	4700.	ppm	EBK	29-AUG-97	7	160.1
			TSS	36.	ppm	EBK	29-AUG-97		160.2
			ZN(D)	.31	ppm	KPB	28-AUG-97	180	6020
L972044-8	26-AUG-97	EPRI-9708-180	ALK.	248.	ppm CaCO3	BD	29-AUG-97	14	310.1
			AS(D)	1.9	ppm	KPB	28-AUG-97	180	6020
			CA(D)	278.	ppm	BD	02-SEP-97	180	6010
			CD(D)	.010	ppm	KPB	28-AUG-97	180	6020
			CL-	626.	ppm	LV	10-SEP-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	6970	umhos	BD	29-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97	180	6020
			CU(D)	<.025	ppm	KPB	28-AUG-97	180	6020
			F-	1.3	ppm	BD	10-SEP-97	28	340.2
			FE(D)	<.10	ppm	BD	02-SEP-97	180	6010
			HCO3	248.	ppm CaCO3	BD	29-AUG-97	14	310.1
			K(D)	32.	ppm	BD	02-SEP-97		6010
			MG(D)	152.	ppm	BD	02-SEP-97	180	6010
			NA(D)	1221.	ppm	BD	03-SEP-97	180	6010
			NO2/NO3	59.	ppm	LV	04-SEP-97	28	353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97	180	6020
			PH	7.6	pH	BD	29-AUG-97		150.1
			SE(D)	.26	ppm	KPB	28-AUG-97	180	6020
			SO4=	2639.	ppm	LV	09-SEP-97	28	9036
			TDS	5831.	ppm	EBK	29-AUG-97	7	160.1
			TSS	9.8	ppm	EBK	29-AUG-97		160.2
			ZN(D)	.13	ppm	KPB	28-AUG-97	180	6020

ASARCO TECHN... SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972044

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

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971307

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971307-1		Matrix Spike	AS(D)	101/99	% RECOVERY	KPB	28-AUG-97		6020/206.2
			CA(D)	SR>4xSA	% RECOVERY	BD	02-SEP-97		6010
			CD(D)	97	% RECOVERY	KPB	28-AUG-97		6020
			CL-	101	% RECOVERY	LV	10-SEP-97		325.2
			CR(D)	95	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	90	% RECOVERY	KPB	28-AUG-97		6020
			F-	92	% RECOVERY	BD	10-SEP-97		340.2
			FE(D)	95	% RECOVERY	BD	02-SEP-97		6010
			K(D)	117	% RECOVERY	BD	02-SEP-97		6010
			MG(D)	SR>4xSA	% RECOVERY	BD	02-SEP-97		6010
			NO2/NO3	102	% RECOVERY	LV	04-SEP-97		353.2
			PB(D)	102	% RECOVERY	KPB	28-AUG-97		6020
			SE(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	95	% RECOVERY	LV	09-SEP-97		9036
			ZN(D)	100	% RECOVERY	KPB	28-AUG-97		6020
WG971307-2		Prep Blank	ALK.	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			AS(D)	<.005/<.005	ppm	KPB	28-AUG-97		6020/206.2
			CA(D)	<1.0	ppm	BD	02-SEP-97		6010
			CD(D)	<.005	ppm	KPB	28-AUG-97		6020
			CL-	<1.0	ppm	LV	10-SEP-97		325.2
			CO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			COND.	<5	umhos	BD	29-AUG-97		120.1
			CR(D)	<.010	ppm	KPB	02-SEP-97		6020
			CU(D)	<.025	ppm	KPB	28-AUG-97		6020
			F-	<.10	ppm	BD	10-SEP-97		340.2
			FE(D)	<.10	ppm	BD	02-SEP-97		6010
			HCO3	<1.0	ppm CaCO3	BD	29-AUG-97		310.1
			K(D)	<2.0	ppm	BD	02-SEP-97		6010
			MG(D)	<1.0	ppm	BD	02-SEP-97		6010
			NA(D)	<2.0	ppm	BD	03-SEP-97		6010
			NO2/NO3	<.10	ppm	LV	04-SEP-97		353.2
			PB(D)	<.003	ppm	KPB	28-AUG-97		6020
			SE(D)	<.005	ppm	KPB	28-AUG-97		6020
			SO4=	<2.0	ppm	LV	09-SEP-97		9036
			TDS	<10.	ppm	EBK	29-AUG-97		160.1
			TSS	<1.0	ppm	EBK	29-AUG-97		160.2
			ZN(D)	<.020	ppm	KPB	28-AUG-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971307

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971307-3		Laboratory Control	ALK.	101	% RECOVERY	BD	29-AUG-97		310.1
			AS(D)	105/92	% RECOVERY	KPB	28-AUG-97		6020/206.2
			CA(D)	96	% RECOVERY	BD	02-SEP-97		6010
			CD(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			CL-	100	% RECOVERY	LV	10-SEP-97		325.2
			COND.	101	% RECOVERY	BD	29-AUG-97		120.1
			CR(D)	98	% RECOVERY	KPB	02-SEP-97		6020
			CU(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			F-	89	% RECOVERY	BD	10-SEP-97		340.2
			FE(D)	94	% RECOVERY	BD	02-SEP-97		6010
			HCO3	101	% RECOVERY	BD	29-AUG-97		310.1
			K(D)	110	% RECOVERY	BD	02-SEP-97		6010
			MG(D)	93	% RECOVERY	BD	02-SEP-97		6010
			NA(D)	93	% RECOVERY	BD	03-SEP-97		6010
			NO2/NO3	99	% RECOVERY	LV	04-SEP-97		353.2
			PB(D)	103	% RECOVERY	KPB	28-AUG-97		6020
			SE(D)	105	% RECOVERY	KPB	28-AUG-97		6020
			SO4=	90	% RECOVERY	LV	09-SEP-97		9036
			TDS	103	% RECOVERY	EBK	29-AUG-97		160.1
			TSS	92	% RECOVERY	EBK	29-AUG-97		160.2
			ZN(D)	105	% RECOVERY	KPB	28-AUG-97		6020
WG971307-4		Duplicate	ALK.	<1	% RPD	BD	29-AUG-97		310.1
			AS(D)	1.7/12	% RPD	KPB	28-AUG-97		6020/206.2
			CA(D)	1.8	% RPD	BD	02-SEP-97		6010
			CD(D)	<1	% RPD	KPB	28-AUG-97		6020
			CL-	7.3	% RPD	LV	10-SEP-97		325.2
			CO3	<1	% RPD	BD	29-AUG-97		310.1
			COND.	<1	% RPD	BD	29-AUG-97		120.1
			CR(D)	<1	% RPD	KPB	02-SEP-97		6020
			CU(D)	<1	% RPD	KPB	28-AUG-97		6020
			F-	2.6	% RPD	BD	10-SEP-97		340.2
			FE(D)	<1	% RPD	BD	02-SEP-97		6010
			HCO3	<1	% RPD	BD	29-AUG-97		310.1
			K(D)	1.6	% RPD	BD	02-SEP-97		6010
			MG(D)	2.0	% RPD	BD	02-SEP-97		6010
			NA(D)	1.7	% RPD	BD	03-SEP-97		6010
			NO2/NO3	5.7	% RPD	LV	04-SEP-97		353.2
			PB(D)	<1	% RPD	KPB	28-AUG-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971307

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971307-4		Duplicate	SE(D)	<1	% RPD	KPB	28-AUG-97		6020
			SO4=	1.0	% RPD	LV	09-SEP-97		9036
			TDS	2.4	% RPD	EBK	29-AUG-97		160.1
			TSS	15	% RPD	EBK	29-AUG-97		160.2
			ZN(D)	<1	% RPD	KPB	28-AUG-97		6020
WG971307-5		Detection Limit	ALK.	1.0	ppm CaCO3				310.1
			AS(D)	.005	ppm				6020
			CA(D)	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.10	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K(D)	2.0	ppm				6010
			MG(D)	1.0	ppm				6010
			NA(D)	2.0	ppm				6010
			NO2/NO3	.10	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

James J. Travis
Reviewer

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.: 0734

PROJECT NAME: ASARCO-El Paso

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
8-26-97	11:45			EPRI-9708-118	3	X	X	X													
8-26-97	10:00			EPRI-9708-119																	
8-26-97	09:20			EPRI-9708-121																	
8-26-97	12:45			EPRI-9708-135																	
8-26-97	14:00			EPRI-9708-156																	
8-26-97	13:30			EPRI-9708-158																	
8-26-97	14:45			EPRI-9708-159																	
8-26-97	12:50			EPRI-9708-180																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
	8/27/97 1500hr				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			8-28-97 9:30		

HFORM-1-4/95

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

Split Samples:
[] Accepted [] Declined _____ Signature

ASARCO

October 02, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control and chains of custody forms for a water sample collected September 15, 1997 and received by the lab on September 17, 1997.

If you have any questions, please call at (801) 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

RECEIVED
OCT 10 1997
HYDROMETRICS, INC.

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHN... SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972231

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972231-1	15-SEP-97	EPRI-9708-152	ALK.	232.	ppm CaCO3	BD	17-SEP-97	14	310.1
			AS(D)	.054	ppm	KPB	24-SEP-97	180	6020
			CA(D)	72.	ppm	BD	23-SEP-97	180	6010
			CD(D)	<.005	ppm	KPB	24-SEP-97	180	6020
			CL-	7.6	ppm	LV	01-OCT-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-SEP-97		310.1
			COND.	546	umhos	BD	26-SEP-97	28	120.1
			CR(D)	.016	ppm	KPB	24-SEP-97	180	6020
			CU(D)	.033	ppm	KPB	24-SEP-97	180	6020
			F-	.47	ppm	BD	30-SEP-97	28	340.2
			FE(D)	<.10	ppm	BD	23-SEP-97	180	6010
			HCO3	232.	ppm CaCO3	BD	17-SEP-97	14	310.1
			K(D)	5.	ppm	BD	23-SEP-97		6010
			MG(D)	17.	ppm	BD	23-SEP-97	180	6010
			NA(D)	18.	ppm	BD	23-SEP-97	180	6010
			NO2/NO3	1.5	ppm	LV	01-OCT-97	28	353.2
			PB(D)	.006	ppm	KPB	24-SEP-97	180	6020
			PH	7.5	pH	BD	23-SEP-97		150.1
			SE(D)	<.005	ppm	KPB	24-SEP-97	180	6020
			SO4=	41.	ppm	LV	29-SEP-97	28	9036
			TDS	365.	ppm	EBK	22-SEP-97	7	160.1
			TSS	20.	ppm	EBK	22-SEP-97		160.1
			ZN(D)	.030	ppm	KPB	24-SEP-97	180	6020

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971442

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971442-1		Matrix Spike	AS(D)	107	% RECOVERY	KPB	24-SEP-97		6020
			CA(D)	SR>4xSA	% RECOVERY	BD	23-SEP-97		6010
			CD(D)	94	% RECOVERY	KPB	24-SEP-97		6020
			CL-	102	% RECOVERY	LV	01-OCT-97		325.2
			CR(D)	99	% RECOVERY	KPB	24-SEP-97		6020
			CU(D)	99	% RECOVERY	KPB	24-SEP-97		6020
			F-	101	% RECOVERY	BD	30-SEP-97		340.2
			FE(D)	99	% RECOVERY	BD	23-SEP-97		6010
			K(D)	77	% RECOVERY	BD	23-SEP-97		6010
			MG(D)	SR>4xSA	% RECOVERY	BD	23-SEP-97		6010
			NA(D)	SR>4xSA	% RECOVERY	BD	23-SEP-97		6010
			NO2/NO3	79	% RECOVERY	LV	01-OCT-97		353.2
			PB(D)	98	% RECOVERY	KPB	24-SEP-97		6020
			SE(D)	109	% RECOVERY	KPB	24-SEP-97		6020
			SO4=	102	% RECOVERY	LV	29-SEP-97		9036
			ZN(D)	97	% RECOVERY	KPB	24-SEP-97		6020
WG971442-2		Prep Blank	ALK.	<1.0	ppm CaCO3	BD	17-SEP-97		310.1
			AS(D)	<.005	ppm	KPB	24-SEP-97		6020
			CA(D)	<1.0	ppm	BD	23-SEP-97		6010
			CD(D)	<.005	ppm	KPB	24-SEP-97		6020
			CL-	<1.0	ppm	LV	01-OCT-97		325.2
			CO3	<1.0	ppm CaCO3	BD	17-SEP-97		310.1
			COND.	<5	umhos	BD	26-SEP-97		120.1
			CR(D)	<.010	ppm	KPB	24-SEP-97		6020
			CU(D)	<.025	ppm	KPB	24-SEP-97		6020
			F-	<.050	ppm	BD	30-SEP-97		340.2
			FE(D)	<.10	ppm	BD	23-SEP-97		6010
			HCO3	<1.0	ppm CaCO3	BD	17-SEP-97		310.1
			K(D)	<2.0	ppm	BD	23-SEP-97		6010
			MG(D)	<1.0	ppm	BD	23-SEP-97		6010
			NA(D)	<2.0	ppm	BD	23-SEP-97		6010
			NO2/NO3	<.05	ppm	LV	01-OCT-97		353.2
			PB(D)	<.003	ppm	KPB	24-SEP-97		6020
			SE(D)	<.005	ppm	KPB	24-SEP-97		6020
			SO4=	<2.0	ppm	LV	29-SEP-97		9036
			TDS	<10.	ppm	EBK	22-SEP-97		160.1
			TSS	<1.0	ppm	EBK	22-SEP-97		160.1
			ZN(D)	<.020	ppm	KPB	24-SEP-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971442

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971442-3		Laboratory Control	ALK.	104	% RECOVERY	BD	17-SEP-97		310.1
			AS(D)	103	% RECOVERY	KPB	24-SEP-97		6020
			CA(D)	104	% RECOVERY	BD	23-SEP-97		6010
			CD(D)	100	% RECOVERY	KPB	24-SEP-97		6020
			CL-	106	% RECOVERY	LV	01-OCT-97		325.2
			COND.	100	% RECOVERY	BD	26-SEP-97		120.1
			CR(D)	98	% RECOVERY	KPB	24-SEP-97		6020
			CU(D)	100	% RECOVERY	KPB	24-SEP-97		6020
			F-	92	% RECOVERY	BD	30-SEP-97		340.2
			FE(D)	103	% RECOVERY	BD	23-SEP-97		6010
			HCO3	104	% RECOVERY	BD	17-SEP-97		310.1
			K(D)	83	% RECOVERY	BD	23-SEP-97		6010
			MG(D)	100	% RECOVERY	BD	23-SEP-97		6010
			NA(D)	93	% RECOVERY	BD	23-SEP-97		6010
			NO2/NO3	89	% RECOVERY	LV	01-OCT-97		353.2
			PB(D)	103	% RECOVERY	KPB	24-SEP-97		6020
			SE(D)	103	% RECOVERY	KPB	24-SEP-97		6020
			SO4=	115	% RECOVERY	LV	29-SEP-97		9036
			TDS	103	% RECOVERY	EBK	22-SEP-97		160.1
			TSS	99	% RECOVERY	EBK	22-SEP-97		160.1
			ZN(D)	103	% RECOVERY	KPB	24-SEP-97		6020
WG971442-4		Duplicate	ALK.	<1	% RPD	BD	17-SEP-97		310.1
			AS(D)	<1	% RPD	KPB	24-SEP-97		6020
			CD(D)	<1	% RPD	KPB	24-SEP-97		6020
			CL-	3.3	% RPD	LV	01-OCT-97		325.2
			CO3	<1	% RPD	BD	17-SEP-97		310.1
			COND.	<1	% RPD	BD	26-SEP-97		120.1
			CR(D)	<1	% RPD	KPB	24-SEP-97		6020
			CU(D)	<1	% RPD	KPB	24-SEP-97		6020
			F-	<1	% RPD	BD	30-SEP-97		340.2
			HCO3	<1	% RPD	BD	17-SEP-97		310.1
			NO2/NO3	1.1	% RPD	LV	01-OCT-97		353.2
			PB(D)	<1	% RPD	KPB	24-SEP-97		6020
			SE(D)	<1	% RPD	KPB	24-SEP-97		6020
			SO4=	2.5	% RPD	LV	29-SEP-97		9036
			TDS	1.9	% RPD	EBK	22-SEP-97		160.1
			TSS	5.1	% RPD	EBK	22-SEP-97		160.1
			ZN(D)	<1	% RPD	KPB	24-SEP-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971442

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971442-5		Detection Limit	ALK.	1.0	ppm CaCO3				310.1
			AS(D)	.005	ppm				6020
			CA(D)	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K(D)	2.0	ppm				6010
			MG(D)	1.0	ppm				6010
			NA(D)	2.0	ppm				6010
			NO2/NO3	.05	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.1
			ZN(D)	.020	ppm				6020

Approved

Reviewer

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85[illegible] (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
0734	ASARCO - RI EIPASO

SAMPLERS: *(Signature)* Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
9-15-97	1600			EPRI-9708-152	3	X	X	X													

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	9-15-97 1630		ASARCO - SALT LAKE City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks: Hard-copy results, electronic [illegible]		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time: 9.17.97 9:30	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____	

Split Samples: [] Accepted [] Declined ____ Signature

HFORM-1-4/95

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

TABLE 4-3B. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR SOIL SAMPLES

Parameter	Method[1]	PDLG[2] (mg/kg)	Holding Times
SOIL or SEDIMENT MATRIX			
Acid digestion of soils and sediments, Method SW 3050			
As	XRF 6010/6020/SW 7060/SW 7061 ICP/ICP-MS/GFAA/HGAA	10	
Cd	XRF 6010/6020/SW 7130/SW 7131 ICP/ ICP-MS/FAA/GFAA	10	
Cr	XRF 6010/6020/SW 7190/SW 7191 ICP/ ICP-MS/FAA/GFAA	20	
Cu	XRF 6010/6020/SW 7210 ICP/ ICP-MS/FAA	10	None for XRF 6 months for digestate
Fe	XRF ICP/ ICP-MS/FAA 6010/6020/SW 7380	20	
Pb	XRF ICP/ ICP-MS/FAA/GFAA 6010/6020/SW 7420/SW 7421	10	
Se	XRF ICP/ ICP-MS/GFAA/HGAA 6010/6020/SW 7740/SW7741	10	
Zn	XRF ICP/ ICP-MS/FAA 6010/6020/SW 7950	10	

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983). XRF used for soils only. Confirmation analysis of soil/sediment split samples (performed at a frequency of one confirmation analysis per twenty XRF analyses) will be performed by digesting soil/sediment according to Method 3050 from SW-846 (EPA, 1990) and analyzing digestate using methodologies for individual elements given in the table above.

2 Project Detection Limit Goal.

Note: Soil and sediment samples analyzed for total metals only.

Note to Lab:
Please analyze all samples w/ the suffix A-B notation. Archive samples C-D. If you have any questions please call Lainy @ 532-3489
Thanks
Lainy

SECTION 2

LABORATORY REPORTS FOR WATER SAMPLES, NOVEMBER 1997

ASARCO

RECEIVED
DEC 08 1997
HYDROMETRICS, INC.

December 02, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated QC deliverables and chain of custody forms for twelve water samples collected Nov 03 and Nov 04, 1997 and received by the lab on Nov 06, 1997.

If you have any questions, please call (801) 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-1	03-NOV-97	EPRI-9711-108	AS(D)	1.2	ppm	KPB	20-NOV-97	180	6020
			CA	520.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	.040	ppm	KPB	20-NOV-97	180	6020
			CL-	786.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	10760	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	.026	ppm	KPB	20-NOV-97	180	6020
			F-	2.4	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	JJT	11-NOV-97	180	6010
			HCO3	330.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	56.	ppm	JJT	11-NOV-97	180	6010
			MG	310.	ppm	JJT	11-NOV-97	180	6010
			NA	2253.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	107.	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.3	pH	BD	07-NOV-97		150.1
			SE(D)	.35	ppm	KPB	20-NOV-97	180	6020
			SO4=	4608.	ppm	LV	01-DEC-97	28	9036
			TDS	10175.	ppm	BK	10-NOV-97	7	160.1
			TSS	78.	ppm	BK	10-NOV-97		160.2
			ZN(D)	.059	ppm	KPB	20-NOV-97	180	6020
L972673-2	03-NOV-97	EPRI-9711-115	AS(D)	.48	ppm	KPB	20-NOV-97	180	6020
			CA	50.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	305.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	2960	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	3.0	ppm	BD	17-NOV-97	28	340.2
			FE(D)	1.8	ppm	JJT	11-NOV-97	180	6010
			HCO3	324.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	24.	ppm	JJT	11-NOV-97	180	6010
			MG	18.	ppm	JJT	11-NOV-97	180	6010
			NA	576.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	6.3	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020

ASARCO TECHN. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-2	03-NOV-97	EPRI-9711-115	PH	7.9	pH	BD	07-NOV-97		150.1
			SE(D)	.12	ppm	KPB	20-NOV-97	180	6020
			SO4=	706.	ppm	LV	01-DEC-97	28	9036
			TDS	2096.	ppm	BK	10-NOV-97	7	160.1
			TSS	56.	ppm	BK	10-NOV-97		160.2
			ZN(D)	.030	ppm	KPB	20-NOV-97	180	6020
L972673-3	03-NOV-97	EPRI-9711-116	AS(D)	.40	ppm	KPB	20-NOV-97	180	6020
			CA	408.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	527.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	6340	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.1	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	JJT	11-NOV-97	180	6010
			HCO3	404.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	19.	ppm	JJT	11-NOV-97	180	6010
			MG	165.	ppm	JJT	11-NOV-97	180	6010
			NA	1116.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	86.	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.5	pH	BD	07-NOV-97		150.1
			SE(D)	6.7	ppm	KPB	20-NOV-97	180	6020
			SO4=	2396.	ppm	LV	01-DEC-97	28	9036
			TDS	5731.	ppm	BK	10-NOV-97	7	160.1
			TSS	73.	ppm	BK	10-NOV-97		160.2
			ZN(D)	.022	ppm	KPB	20-NOV-97	180	6020
L972673-4	03-NOV-97	EPRI-9711-104	AS(D)	1.3	ppm	KPB	20-NOV-97	180	6020
			CA	370.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	539.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	5840	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.0	ppm	BD	17-NOV-97	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-4	03-NOV-97	EPRI-9711-104	FE(D)	<.10	ppm	JJT	11-NOV-97	180	6010
			HCO3	626.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	17.	ppm	JJT	11-NOV-97	180	6010
			MG	121.	ppm	JJT	11-NOV-97	180	6010
			NA	995.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	21.	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.3	pH	BD	07-NOV-97		150.1
			SE(D)	6.9	ppm	KPB	20-NOV-97	180	6020
			SO4=	1925.	ppm	LV	01-DEC-97	28	9036
			TDS	4846.	ppm	BK	10-NOV-97	7	160.1
			TSS	7.9	ppm	BK	10-NOV-97		160.2
			ZN(D)	.022	ppm	KPB	20-NOV-97	180	6020
L972673-5	03-NOV-97	EPRI-9711-172	AS(D)	.78	ppm	KPB	20-NOV-97	180	6020
			CA	118.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	806.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	4950	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	2.6	ppm	BD	17-NOV-97	28	340.2
			FE(D)	1.1	ppm	JJT	11-NOV-97	180	6010
			HCO3	538.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	60.	ppm	JJT	11-NOV-97	180	6010
			MG	55.	ppm	JJT	11-NOV-97	180	6010
			NA	974.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.6	pH	BD	07-NOV-97		150.1
			SE(D)	.053	ppm	KPB	20-NOV-97	180	6020
			SO4=	987.	ppm	LV	01-DEC-97	28	9036
			TDS	3361.	ppm	BK	10-NOV-97	7	160.1
			TSS	14.	ppm	BK	10-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	20-NOV-97	180	6020
L972673-6	04-NOV-97	EPRI-9711-100	AS(D)	.14	ppm	KPB	20-NOV-97	180	6020
			CA	56.	ppm	JJT	11-NOV-97	180	6010

ASARCO TECHNIC. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-6	04-NOV-97	EPRI-9711-100	CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	196.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	1656	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.4	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.85	ppm	JJT	11-NOV-97	180	6010
			HCO3	284.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	12.	ppm	JJT	11-NOV-97	180	6010
			MG	15.	ppm	JJT	11-NOV-97	180	6010
			NA	251.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.8	pH	BD	07-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			SO4=	287.	ppm	LV	01-DEC-97	28	9036
			TDS	1102.	ppm	BK	10-NOV-97	7	160.1
			TSS	22.	ppm	BK	10-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	20-NOV-97	180	6020
L972673-7	04-NOV-97	EPRI-9711-101	AS(D)	.033	ppm	KPB	20-NOV-97	180	6020
			CA	80.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	343.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	3100	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	2.8	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	JJT	11-NOV-97	180	6010
			HCO3	746.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	11.	ppm	JJT	11-NOV-97	180	6010
			MG	35.	ppm	JJT	11-NOV-97	180	6010
			NA	623.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	23-NOV-97	28	353.2
			PB(D)	.010	ppm	KPB	20-NOV-97	180	6020
			PH	8.0	pH	BD	07-NOV-97		150.1
			SE(D)	.033	ppm	KPB	20-NOV-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-7	04-NOV-97	EPRI-9711-101	SO4=	434.	ppm	LV	01-DEC-97	28	9036
			TDS	2141.	ppm	BK	10-NOV-97	7	160.1
			TSS	186.	ppm	BK	10-NOV-97		160.2
			ZN(D)	.027	ppm	KPB	20-NOV-97	180	6020
L972673-8	04-NOV-97	EPRI-9711-102	AS(D)	.031	ppm	KPB	20-NOV-97	180	6020
			CA	365.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	827.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	7010	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.6	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	JJT	11-NOV-97	180	6010
			HCO3	348.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	25.	ppm	JJT	11-NOV-97	180	6010
			MG	118.	ppm	JJT	11-NOV-97	180	6010
			NA	1409.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	17.	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.9	pH	BD	07-NOV-97		150.1
			SE(D)	.049	ppm	KPB	20-NOV-97	180	6020
			SO4=	2332.	ppm	LV	01-DEC-97	28	9036
			TDS	5909.	ppm	BK	10-NOV-97	7	160.1
			TSS	7.5	ppm	BK	10-NOV-97		160.2
			ZN(D)	.024	ppm	KPB	20-NOV-97	180	6020
L972673-9	04-NOV-97	EPRI-9711-103	AS(D)	.084	ppm	KPB	20-NOV-97	180	6020
			CA	96.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	311.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	2710	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.8	ppm	BD	17-NOV-97	28	340.2
			FE(D)	1.2	ppm	JJT	11-NOV-97	180	6010
			HCO3	320.	ppm CaCO3	BD	07-NOV-97	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-9	04-NOV-97	EPRI-9711-103	K	5.9	ppm	JJT	11-NOV-97	180	6010
			MG	32.	ppm	JJT	11-NOV-97	180	6010
			NA	484.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.9	pH	BD	07-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			SO4=	687.	ppm	LV	01-DEC-97	28	9036
			TDS	1974.	ppm	BK	10-NOV-97	7	160.1
			TSS	15.	ppm	BK	10-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	20-NOV-97	180	6020
L972673-10	04-NOV-97	EPRI-9711-114	AS(D)	.32	ppm	KPB	20-NOV-97	180	6020
			CA	62.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	1.5	ppm	KPB	20-NOV-97	180	6020
			CL-	163.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	1700	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	.16	ppm	KPB	20-NOV-97	180	6020
			F-	1.4	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	JJT	11-NOV-97	180	6010
			HCO3	36.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	20.	ppm	JJT	11-NOV-97	180	6010
			MG	13.	ppm	JJT	11-NOV-97	180	6010
			NA	244.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	3.9	ppm	LV	23-NOV-97	28	353.2
			PB(D)	.010	ppm	KPB	20-NOV-97	180	6020
			PH	7.3	pH	BD	07-NOV-97		150.1
			SE(D)	.27	ppm	KPB	20-NOV-97	180	6020
			SO4=	561.	ppm	LV	01-DEC-97	28	9036
			TDS	1191.	ppm	BK	10-NOV-97	7	160.1
			TSS	99.	ppm	BK	10-NOV-97		160.2
			ZN(D)	4.2	ppm	KPB	20-NOV-97	180	6020
L972673-11	04-NOV-97	EPRI-9711-121	AS(D)	2.9	ppm	KPB	20-NOV-97	180	6020
			CA	265.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	646.	ppm	LV	01-DEC-97	28	325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-11	04-NOV-97	EPRI-9711-121	CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	5520	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	2.4	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	JJT	11-NOV-97	180	6010
			HCO3	290.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	26.	ppm	JJT	11-NOV-97	180	6010
			MG	65.	ppm	JJT	11-NOV-97	180	6010
			NA	1080.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	2.0	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.6	pH	BD	07-NOV-97		150.1
			SE(D)	.057	ppm	KPB	20-NOV-97	180	6020
			SO4=	1863.	ppm	LV	01-DEC-97	28	9036
			TDS	4378.	ppm	BK	10-NOV-97	7	160.1
			TSS	565.	ppm	BK	10-NOV-97		160.2
			ZN(D)	.022	ppm	KPB	20-NOV-97	180	6020
L972673-12	04-NOV-97	EPRI-9711-111	AS(D)	4.0	ppm	KPB	20-NOV-97	180	6020
			CA	181.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	541.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	6130	umhos	BD	07-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	3.2	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.46	ppm	JJT	11-NOV-97	180	6010
			HCO3	264.	ppm CaCO3	BD	07-NOV-97	14	310.1
			K	76.	ppm	JJT	11-NOV-97	180	6010
			MG	96	ppm	JJT	11-NOV-97	180	6010
			NA	876.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	.16	ppm	LV	23-NOV-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.7	pH	BD	07-NOV-97		150.1
			SE(D)	.023	ppm	KPB	20-NOV-97	180	6020
			SO4=	2236.	ppm	LV	01-DEC-97	28	9036
			TDS	4089.	ppm	BK	10-NOV-97	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972673

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972673-12	04-NOV-97	EPRI-9711-111	TSS	61.	ppm	BK	10-NOV-97		160.2
			ZN(D)	.028	ppm	KPB	20-NOV-97	180	6020

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971675

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971675-1		Matrix Spike	AS(D)	101	% RECOVERY	KPB	20-NOV-97		6020
			CA	SR>4xSA	% RECOVERY	JJT	11-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	20-NOV-97		6020
			CL-	101	% RECOVERY	LV	01-DEC-97		325.2
			CR(D)	93	% RECOVERY	JJT	11-NOV-97		6010
			CU(D)	101	% RECOVERY	KPB	20-NOV-97		6020
			F-	89	% RECOVERY	BD	17-NOV-97		340.2
			FE(D)	93	% RECOVERY	JJT	11-NOV-97		6010
			K	102	% RECOVERY	JJT	11-NOV-97		6010
			MG	SR>4xSA	% RECOVERY	JJT	11-NOV-97		6010
			NA	SR>4xSA	% RECOVERY	JJT	11-NOV-97		6010
			NO2/NO3	99	% RECOVERY	LV	23-NOV-97		353.2
			PB(D)	102	% RECOVERY	KPB	20-NOV-97		6020
			SE(D)	106	% RECOVERY	KPB	20-NOV-97		6020
			SO4=	96	% RECOVERY	LV	01-DEC-97		9036
			ZN(D)	100	% RECOVERY	KPB	20-NOV-97		6020
WG971675-2		Prep Blank	AS(D)	<.005	ppm	KPB	20-NOV-97		6020
			CA	<1.0	ppm	JJT	11-NOV-97		6010
			CD(D)	<.005	ppm	KPB	20-NOV-97		6020
			CL-	<1.0	ppm	LV	01-DEC-97		325.2
			CO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			COND.	<5	umhos	BD	07-NOV-97		120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97		6010
			CU(D)	<.025	ppm	KPB	20-NOV-97		6020
			F-	<.050	ppm	BD	17-NOV-97		340.2
			FE(D)	<.10	ppm	JJT	11-NOV-97		6010
			HCO3	<1.0	ppm CaCO3	BD	07-NOV-97		310.1
			K	<2.0	ppm	JJT	11-NOV-97		6010
			MG	<1.0	ppm	JJT	11-NOV-97		6010
			NA	<2.0	ppm	JJT	11-NOV-97		6010
			NO2/NO3	<.050	ppm	LV	23-NOV-97		353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97		6020
			SE(D)	<.005	ppm	KPB	20-NOV-97		6020
			SO4=	<2.0	ppm	LV	01-DEC-97		9036
			TDS	<10.	ppm	BK	10-NOV-97		160.1
			TSS	<1.0	ppm	BK	10-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	20-NOV-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971675

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971675-3		Laboratory Control	AS(D)	100	% RECOVERY	KPB	20-NOV-97		6020
			CA	101	% RECOVERY	JJT	11-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	20-NOV-97		6020
			CL-	95	% RECOVERY	LV	01-DEC-97		325.2
			COND.	100	% RECOVERY	BD	07-NOV-97		120.1
			CR(D)	100	% RECOVERY	JJT	11-NOV-97		6010
			CU(D)	103	% RECOVERY	KPB	20-NOV-97		6020
			F-	90	% RECOVERY	BD	17-NOV-97		340.2
			FE(D)	98	% RECOVERY	JJT	11-NOV-97		6010
			HCO3	98	% RECOVERY	BD	07-NOV-97		310.1
			K	100	% RECOVERY	JJT	11-NOV-97		6010
			MG	101	% RECOVERY	JJT	11-NOV-97		6010
			NA	85	% RECOVERY	JJT	11-NOV-97		6010
			NO2/NO3	102	% RECOVERY	LV	23-NOV-97		353.2
			PB(D)	103	% RECOVERY	KPB	20-NOV-97		6020
			SE(D)	103	% RECOVERY	KPB	20-NOV-97		6020
			SO4=	96	% RECOVERY	LV	01-DEC-97		9036
			TDS	105	% RECOVERY	BK	10-NOV-97		160.1
			TSS	109	% RECOVERY	BK	10-NOV-97		160.2
			ZN(D)	103	% RECOVERY	KPB	20-NOV-97		6020
WG971675-4		Duplicate	AS(D)	<1	% RPD	KPB	20-NOV-97		6020
			CA	3.4	% RPD	JJT	11-NOV-97		6010
			CD(D)	<1	% RPD	KPB	20-NOV-97		6020
			CL-	4.9	% RPD	LV	01-DEC-97		325.2
			CO3	<1	% RPD	BD	07-NOV-97		310.1
			COND.	<1	% RPD	BD	07-NOV-97		120.1
			CR(D)	<1	% RPD	JJT	11-NOV-97		6010
			CU(D)	3.9	% RPD	KPB	20-NOV-97		6020
			F-	<1	% RPD	BD	17-NOV-97		340.2
			FE(D)	6.7	% RPD	JJT	11-NOV-97		6010
			HCO3	3.4	% RPD	BD	07-NOV-97		310.1
			K	6.8	% RPD	JJT	11-NOV-97		6010
			MG	3.2	% RPD	JJT	11-NOV-97		6010
			NA	4.0	% RPD	JJT	11-NOV-97		6010
			NO2/NO3	7.8	% RPD	LV	23-NOV-97		353.2
			PB(D)	<1	% RPD	KPB	20-NOV-97		6020
			SE(D)	<1	% RPD	KPB	20-NOV-97		6020
			SO4=	2.2	% RPD	LV	01-DEC-97		9036

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971675

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971675-4		Duplicate	TDS	3.4	% RPD	BK	10-NOV-97		160.1
			TSS	8.5	% RPD	BK	10-NOV-97		160.2
			ZN(D)	7.0	% RPD	KPB	20-NOV-97		6020
WG971675-5		Detection Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6010
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

Reviewer

Hydrometrics Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 857[illegible] (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.: 0734
PROJECT NAME: ASARCO- EL PASO, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11-3-97	1030			EPRI-9711-108	3	X	X	X													
11-3-97	1200			EPRI-9711-115	3	X	X	X													
11-3-97	1400			EPRI-9711-116	3	X	X	X													
11-3-97	1425			EPRI-9711-104	3	X	X	X													
11-3-97	1500			EPRI-9711-172	3	X	X	X													
11-4-97	910			EPRI-9711-100	3	X	X	X													
11-4-97	930			EPRI-9711-101	3	X	X	X													
11-4-97	1045			EPRI-9711-102	3	X	X	X													
11-4-97	1115			EPRI-9711-103	3	X	X	X													
11-4-97	1320			EPRI-9711-114	3	X	X	X													
11-4-97	1400			EPRI-9711-121	3	X	X	X													
11-4-97	1440			EPRI-9711-111	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, ~~Red Ex~~, UPS
Douglas M. Solon	11-4-97 1615		TSC Laboratory SALT LAKE City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	
		[illegible]	11-6-97 9:30		

HFORM-1-4/95

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

Split Samples:
[] Accepted [] Declined ____ Signature

ASARCO

December 08, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated QC deliverables and chain of custody forms for twenty eight water samples collected Nov 05 and Nov 11, 1997 and received by the lab on Nov 10 and Nov 13, 1997.

If you have any questions, please call (801) 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-1	05-NOV-97	EPRI-9711-106	AS(D)	1.1	ppm	KPB	20-NOV-97	180	6020
			CA	364.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	347.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	4430	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.5	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	272.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	53.	ppm	JJT	11-NOV-97	180	6010
			MG	92.	ppm	JJT	11-NOV-97	180	6010
			NA	623.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	19.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.5	pH	DC	11-NOV-97		150.1
			SE(D)	.36	ppm	KPB	20-NOV-97	180	6020
			SO4=	1876.	ppm	LV	02-DEC-97	28	9036
			TDS	3686.	ppm	BK	11-NOV-97	7	160.1
			TSS	3.6	ppm	BK	11-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	20-NOV-97	180	6020
L972701-2	05-NOV-97	EPRI-9711-124	AS(D)	3.8	ppm	KPB	20-NOV-97	180	6020
			CA	169.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	421.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	4660	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	4.8	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	420.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	95.	ppm	JJT	11-NOV-97	180	6010
			MG	84.	ppm	JJT	11-NOV-97	180	6010
			NA	818.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	8.8	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-2	05-NOV-97	EPRI-9711-124	PH	7.6	pH	DC	11-NOV-97		150.1
			SE(D)	.21	ppm	KPB	20-NOV-97	180	6020
			SO4=	1555.	ppm	LV	02-DEC-97	28	9036
			TDS	3629.	ppm	BK	11-NOV-97	7	160.1
			TSS	6.0	ppm	BK	11-NOV-97		160.2
			ZN(D)	.021	ppm	KPB	20-NOV-97	180	6020
L972701-3	05-NOV-97	EPRI-9711-129	AS(D)	.048	ppm	KPB	20-NOV-97	180	6020
			CA	482.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	916.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	11000	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	2.0	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	319.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	23.	ppm	JJT	11-NOV-97	180	6010
			MG	155.	ppm	JJT	11-NOV-97	180	6010
			NA	2601.	ppm	BD	08-DEC-97	180	6010
			NO2/NO3	114.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.8	pH	DC	11-NOV-97		150.1
			SE(D)	.70	ppm	KPB	20-NOV-97	180	6020
			SO4=	4379.	ppm	LV	03-DEC-97	28	9036
			TDS	9787.	ppm	BK	11-NOV-97	7	160.1
			TSS	65.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.030	ppm	KPB	20-NOV-97	180	6020
L972701-4	05-NOV-97	EPRI-9711-127	AS(D)	1.2	ppm	KPB	20-NOV-97	180	6020
			CA	216.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	497.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	5050	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	2.9	ppm	BD	17-NOV-97	28	340.2

ASARCO TECHN SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-4	05-NOV-97	EPRI-9711-127	FE(D)	<.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	328.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	64.	ppm	JJT	11-NOV-97	180	6010
			MG	96.	ppm	JJT	11-NOV-97	180	6010
			NA	906.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	7.3	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.7	pH	DC	11-NOV-97		150.1
			SE(D)	.39	ppm	KPB	20-NOV-97	180	6020
			SO4=	1919.	ppm	LV	02-DEC-97	28	9036
			TDS	3897.	ppm	BK	11-NOV-97	7	160.1
			TSS	8.2	ppm	BK	11-NOV-97		160.2
			ZN(D)	.023	ppm	KPB	20-NOV-97	180	6020
L972701-5	05-NOV-97	EPRI-9711-128	AS(D)	.021	ppm	KPB	20-NOV-97	180	6020
			CA	260.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	1018.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	8260	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	2.3	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.11	ppm	BD	04-DEC-97	180	236.1
			HCO3	393.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	35.	ppm	JJT	11-NOV-97	180	6010
			MG	152.	ppm	JJT	11-NOV-97	180	6010
			NA	1747.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	21.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.8	pH	DC	11-NOV-97		150.1
			SE(D)	.21	ppm	KPB	20-NOV-97	180	6020
			SO4=	2779.	ppm	LV	02-DEC-97	28	9036
			TDS	6381.	ppm	BK	11-NOV-97	7	160.1
			TSS	32.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.025	ppm	KPB	20-NOV-97	180	6020
L972701-6	05-NOV-97	EPRI-9711-125	AS(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CA	571.	ppm	JJT	11-NOV-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-6	05-NOV-97	EPRI-9711-125	CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	1227.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	8560	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.6	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.80	ppm	BD	04-DEC-97	180	236.1
			HCO3	238.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	17.	ppm	JJT	11-NOV-97	180	6010
			MG	229.	ppm	JJT	11-NOV-97	180	6010
			NA	1417.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	90.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.5	pH	DC	11-NOV-97		150.1
			SE(D)	.24	ppm	KPB	20-NOV-97	180	6020
			SO4=	3090.	ppm	LV	02-DEC-97	28	9036
			TDS	7339.	ppm	BK	11-NOV-97	7	160.1
			TSS	27.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.021	ppm	KPB	20-NOV-97	180	6020
L972701-7	05-NOV-97	EPRI-9711-131	AS(D)	11.	ppm	KPB	20-NOV-97	180	6020
			CA	618.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	699.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	7920	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	3.2	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.15	ppm	BD	04-DEC-97	180	236.1
			HCO3	408.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	48.	ppm	JJT	11-NOV-97	180	6010
			MG	143.	ppm	JJT	11-NOV-97	180	6010
			NA	1502.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	44.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.5	pH	DC	11-NOV-97		150.1
			SE(D)	.26	ppm	KPB	20-NOV-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-7	05-NOV-97	EPRI-9711-131	SO4=	3435.	ppm	LV	02-DEC-97	28	9036
			TDS	7183.	ppm	BK	11-NOV-97	7	160.1
			TSS	19.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.027	ppm	KPB	20-NOV-97	180	6020
L972701-8	06-NOV-97	EPRI-9711-105	AS(D)	46.	ppm	KPB	20-NOV-97	180	6020
			CA	371.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	.80	ppm	KPB	20-NOV-97	180	6020
			CL-	724.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	12210	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	1.4	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.15	ppm	BD	04-DEC-97	180	236.1
			HCO3	346.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	91.	ppm	JJT	11-NOV-97	180	6010
			MG	70.	ppm	JJT	11-NOV-97	180	6010
			NA	3043.	ppm	BD	08-DEC-97	180	6010
			NO2/NO3	105.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.8	pH	DC	11-NOV-97		150.1
			SE(D)	6.7	ppm	KPB	20-NOV-97	180	6020
			SO4=	5541.	ppm	LV	02-DEC-97	28	9036
			TDS	10653.	ppm	BK	11-NOV-97	7	160.1
			TSS	14.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.033	ppm	KPB	20-NOV-97	180	6020
L972701-9	06-NOV-97	EPRI-9711-107	AS(D)	.013	ppm	KPB	20-NOV-97	180	6020
			CA	116.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	20-NOV-97	180	6020
			CL-	333.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	3060	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	20-NOV-97	180	6020
			F-	.89	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	238.	ppm CaCO3	DC	11-NOV-97	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-9	06-NOV-97	EPRI-9711-107	K	10.	ppm	JJT	11-NOV-97	180	6010
			MG	42.	ppm	JJT	11-NOV-97	180	6010
			NA	529.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	12.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97	180	6020
			PH	7.9	pH	DC	11-NOV-97		150.1
			SE(D)	.16	ppm	KPB	20-NOV-97	180	6020
			SO4=	974.	ppm	LV	02-DEC-97	28	9036
			TDS	2189.	ppm	BK	11-NOV-97	7	160.1
			TSS	165.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.021	ppm	KPB	20-NOV-97	180	6020
L972701-10	06-NOV-97	EPRI-9711-173	AS(D)	.97	ppm	KPB	24-NOV-97	180	6020
			CA	537.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	.64	ppm	KPB	24-NOV-97	180	6020
			CL-	1330.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	9750	umhos	BD	12-NOV-97	28	120.1
			CR(D)	.017	ppm	JJT	11-NOV-97	180	6010
			CU(D)	.53	ppm	KPB	24-NOV-97	180	6020
			F-	6.3	ppm	BD	17-NOV-97	28	340.2
			FE(D)	.55	ppm	BD	04-DEC-97	180	236.1
			HCO3	468.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	23.	ppm	JJT	11-NOV-97	180	6010
			MG	211.	ppm	JJT	11-NOV-97	180	6010
			NA	1893.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	157.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	.044	ppm	KPB	24-NOV-97	180	6020
			PH	7.1	pH	DC	11-NOV-97		150.1
			SE(D)	.36	ppm	KPB	24-NOV-97	180	6020
			SO4=	2953.	ppm	LV	02-DEC-97	28	9036
			TDS	8243.	ppm	BK	11-NOV-97	7	160.1
			TSS	57.	ppm	BK	11-NOV-97		160.2
			ZN(D)	2.6	ppm	KPB	24-NOV-97	180	6020
L972701-11	06-NOV-97	EPRI-9711-118	AS(D)	.29	ppm	KPB	24-NOV-97	180	6020
			CA	658.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	.18	ppm	KPB	24-NOV-97	180	6020
			CL-	2609.	ppm	LV	01-DEC-97	28	325.2

ASARCO TECHN. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-11	06-NOV-97	EPRI-9711-118	CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	11670	umhos	BD	12-NOV-97	28	120.1
			CR(D)	.031	ppm	JJT	11-NOV-97	180	6010
			CU(D)	.19	ppm	KPB	24-NOV-97	180	6020
			F-	1.5	ppm	BD	17-NOV-97	28	340.2
			FE(D)	2.2	ppm	BD	04-DEC-97	180	236.1
			HCO3	220.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	47.	ppm	JJT	11-NOV-97	180	6010
			MG	469.	ppm	JJT	11-NOV-97	180	6010
			NA	1437.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	138.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.3	pH	DC	11-NOV-97		150.1
			SE(D)	.16	ppm	KPB	24-NOV-97	180	6020
			SO4=	2401.	ppm	LV	02-DEC-97	28	9036
			TDS	9116.	ppm	BK	11-NOV-97	7	160.1
			TSS	41.	ppm	BK	11-NOV-97		160.2
			ZN(D)	4.4	ppm	KPB	24-NOV-97	180	6020
L972701-12	06-NOV-97	EPRI-9711-174	AS(D)	.28	ppm	KPB	24-NOV-97	180	6020
			CA	645.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	.21	ppm	KPB	24-NOV-97	180	6020
			CL-	2746.	ppm	LV	01-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	11440	umhos	BD	12-NOV-97	28	120.1
			CR(D)	.022	ppm	JJT	11-NOV-97	180	6010
			CU(D)	.19	ppm	KPB	24-NOV-97	180	6020
			F-	1.6	ppm	BD	17-NOV-97	28	340.2
			FE(D)	2.2	ppm	BD	04-DEC-97	180	236.1
			HCO3	221.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	46.	ppm	JJT	11-NOV-97	180	6010
			MG	461.	ppm	JJT	11-NOV-97	180	6010
			NA	1409.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	134.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.2	pH	DC	11-NOV-97		150.1
			SE(D)	.19	ppm	KPB	24-NOV-97	180	6020
			SO4=	2432.	ppm	LV	02-DEC-97	28	9036
			TDS	8894.	ppm	BK	11-NOV-97	7	160.1

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-12	06-NOV-97	EPRI-9711-174	TSS	45.	ppm	BK	11-NOV-97		160.2
			ZN(D)	5.1	ppm	KPB	24-NOV-97	180	6020
L972701-13	06-NOV-97	EPRI-9711-119	AS(D)	29.	ppm	KPB	24-NOV-97	180	6020
			CA	455.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	4.5	ppm	KPB	24-NOV-97	180	6020
			CL-	791.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	10750	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	.57	ppm	KPB	24-NOV-97	180	6020
			F-	13.	ppm	BD	17-NOV-97	28	340.2
			FE(D)	14.	ppm	BD	04-DEC-97	180	236.1
			HCO3	407.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	375.	ppm	JJT	11-NOV-97	180	6010
			MG	307.	ppm	JJT	11-NOV-97	180	6010
			NA	1984.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	.30	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	6.8	pH	DC	11-NOV-97		150.1
			SE(D)	.071	ppm	KPB	24-NOV-97	180	6020
			SO4=	5255.	ppm	LV	02-DEC-97	28	9036
			TDS	9568.	ppm	BK	11-NOV-97	7	160.1
			TSS	222.	ppm	BK	11-NOV-97		160.2
			ZN(D)	94.	ppm	KPB	24-NOV-97	180	6020
L972701-14	07-NOV-97	EPRI-9711-132	AS(D)	.042	ppm	KPB	24-NOV-97	180	6020
			CA	456.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	377.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	4460	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.79	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	210.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	15.	ppm	JJT	11-NOV-97	180	6010
			MG	144.	ppm	JJT	11-NOV-97	180	6010

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Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-14	07-NOV-97	EPRI-9711-132	NA	472.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	17.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.4	pH	DC	11-NOV-97		150.1
			SE(D)	.15	ppm	KPB	24-NOV-97	180	6020
			SO4=	2228.	ppm	LV	02-DEC-97	28	9036
			TDS	4028.	ppm	BK	11-NOV-97	7	160.1
			TSS	12.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.038	ppm	KPB	24-NOV-97	180	6020
L972701-15	07-NOV-97	EPRI-9711-136	AS(D)	.19	ppm	KPB	24-NOV-97	180	6020
			CA	380.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	573.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	6470	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.92	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	244.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	18.	ppm	JJT	11-NOV-97	180	6010
			MG	185.	ppm	JJT	11-NOV-97	180	6010
			NA	1091.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	99.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.5	pH	DC	11-NOV-97		150.1
			SE(D)	.32	ppm	KPB	24-NOV-97	180	6020
			SO4=	2564.	ppm	LV	02-DEC-97	28	9036
			TDS	5567.	ppm	BK	11-NOV-97	7	160.1
			TSS	10.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.027	ppm	KPB	24-NOV-97	180	6020
L972701-16	07-NOV-97	EPRI-9711-135	AS(D)	1.7	ppm	KPB	24-NOV-97	180	6020
			CA	298.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	.013	ppm	KPB	24-NOV-97	180	6020
			CL-	624.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	6740	umhos	BD	12-NOV-97	28	120.1

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Batch No: L972701

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972701-16	07-NOV-97	EPRI-9711-135	CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	1.2	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	246.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	25.	ppm	JJT	11-NOV-97	180	6010
			MG	165.	ppm	JJT	11-NOV-97	180	6010
			NA	1236.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	62.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.5	pH	DC	11-NOV-97		150.1
			SE(D)	.22	ppm	KPB	24-NOV-97	180	6020
			SO4=	2586.	ppm	LV	02-DEC-97	28	9036
			TDS	5436.	ppm	BK	11-NOV-97	7	160.1
			TSS	6.4	ppm	BK	11-NOV-97		160.2
			ZN(D)	.18	ppm	KPB	24-NOV-97	180	6020
L972701-17	07-NOV-97	EPRI-9711-137	AS(D)	.49	ppm	KPB	24-NOV-97	180	6020
			CA	347.	ppm	JJT	11-NOV-97	180	6010
			CD(D)	.20	ppm	KPB	24-NOV-97	180	6020
			CL-	608.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	6040	umhos	BD	12-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	1.4	ppm	BD	17-NOV-97	28	340.2
			FE(D)	<.10	ppm	BD	04-DEC-97	180	236.1
			HCO3	235.	ppm CaCO3	DC	11-NOV-97	14	310.1
			K	22.	ppm	JJT	11-NOV-97	180	6010
			MG	162.	ppm	JJT	11-NOV-97	180	6010
			NA	995.	ppm	JJT	11-NOV-97	180	6010
			NO2/NO3	59.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.4	pH	DC	11-NOV-97		150.1
			SE(D)	.38	ppm	KPB	24-NOV-97	180	6020
			SO4=	2522.	ppm	LV	02-DEC-97	28	9036
			TDS	5075.	ppm	BK	11-NOV-97	7	160.1
			TSS	11.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.47	ppm	KPB	24-NOV-97	180	6020

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Batch No: L972701

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

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Water and Solid Waste (Project 3220)

Batch No: WG971674

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971674-1		Matrix Spike	AS(D)	101	% RECOVERY	KPB	20-NOV-97		6020
			CA	SR>4xSA	% RECOVERY	JJT	11-NOV-97		6010
			CD(D)	106	% RECOVERY	KPB	20-NOV-97		6020
			CL-	101	% RECOVERY	LV	03-DEC-97		325.2
			CR(D)	94	% RECOVERY	JJT	11-NOV-97		6010
			CU(D)	102	% RECOVERY	KPB	20-NOV-97		6020
			F-	90	% RECOVERY	BD	17-NOV-97		340.2
			FE(D)	80	% RECOVERY	BD	04-DEC-97		236.1
			K	103	% RECOVERY	JJT	11-NOV-97		6010
			MG	SR>4xSA	% RECOVERY	JJT	11-NOV-97		6010
			NA	SR>4xSA	% RECOVERY	JJT	11-NOV-97		6010
			NO2/NO3	100	% RECOVERY	LV	03-DEC-97		353.2
			PB(D)	104	% RECOVERY	KPB	20-NOV-97		6020
			SE(D)	107	% RECOVERY	KPB	20-NOV-97		6020
			SO4=	103	% RECOVERY	LV	02-DEC-97		9036
			ZN(D)	106	% RECOVERY	KPB	20-NOV-97		6020
WG971674-2		Prep Blank	AS(D)	<.005	ppm	KPB	20-NOV-97		6020
			CA	<1.0	ppm	JJT	11-NOV-97		6010
			CD(D)	<.005	ppm	KPB	20-NOV-97		6020
			CL-	<1.0	ppm	LV	03-DEC-97		325.2
			CO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			COND.	<5	umhos	BD	12-NOV-97		120.1
			CR(D)	<.010	ppm	JJT	11-NOV-97		6010
			CU(D)	<.025	ppm	KPB	20-NOV-97		6020
			F-	<.050	ppm	BD	17-NOV-97		340.2
			FE(D)	<.10	ppm	BD	04-DEC-97		236.1
			HCO3	<1.0	ppm CaCO3	DC	11-NOV-97		310.1
			K	<2.0	ppm	JJT	11-NOV-97		6010
			MG	<1.0	ppm	JJT	11-NOV-97		6010
			NA	<2.0	ppm	JJT	11-NOV-97		6010
			NO2/NO3	<.050	ppm	LV	03-DEC-97		353.2
			PB(D)	<.003	ppm	KPB	20-NOV-97		6020
			SE(D)	<.005	ppm	KPB	20-NOV-97		6020
			SO4=	<2.0	ppm	LV	02-DEC-97		9036
			TDS	<10.	ppm	BK	11-NOV-97		160.1
			TSS	<1.0	ppm	BK	11-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	20-NOV-97		6020

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Batch No: WG971674

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971674-3		Laboratory Control	AS(D)	110	% RECOVERY	KPB	20-NOV-97		6020
			CA	100	% RECOVERY	JJT	11-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	20-NOV-97		6020
			CL-	100	% RECOVERY	LV	03-DEC-97		325.2
			COND.	101	% RECOVERY	BD	12-NOV-97		120.1
			CR(D)	98	% RECOVERY	JJT	11-NOV-97		6010
			CU(D)	108	% RECOVERY	KPB	20-NOV-97		6020
			F-	88	% RECOVERY	BD	17-NOV-97		340.2
			FE(D)	96	% RECOVERY	BD	04-DEC-97		236.1
			HCO3	99	% RECOVERY	DC	11-NOV-97		310.1
			K	100	% RECOVERY	JJT	11-NOV-97		6010
			MG	98	% RECOVERY	JJT	11-NOV-97		6010
			NA	83	% RECOVERY	JJT	11-NOV-97		6010
			NO2/NO3	101	% RECOVERY	LV	03-DEC-97		353.2
			PB(D)	105	% RECOVERY	KPB	20-NOV-97		6020
			SE(D)	112	% RECOVERY	KPB	20-NOV-97		6020
			SO4=	110	% RECOVERY	LV	02-DEC-97		9036
			TDS	104	% RECOVERY	BK	11-NOV-97		160.1
			TSS	94	% RECOVERY	BK	11-NOV-97		160.2
			ZN(D)	108	% RECOVERY	KPB	20-NOV-97		6020
WG971674-4		Duplicate	AS(D)	<1	% RPD	KPB	20-NOV-97		6020
			CA	<1	% RPD	JJT	11-NOV-97		6010
			CD(D)	<1	% RPD	KPB	20-NOV-97		6020
			CL-	3.2	% RPD	LV	03-DEC-97		325.2
			CO3	<1	% RPD	DC	11-NOV-97		310.1
			COND.	<1	% RPD	BD	12-NOV-97		120.1
			CR(D)	<1	% RPD	JJT	11-NOV-97		6010
			CU(D)	<1	% RPD	KPB	20-NOV-97		6020
			F-	<1	% RPD	BD	17-NOV-97		340.2
			FE(D)	<1	% RPD	BD	04-DEC-97		236.1
			HCO3	<1	% RPD	DC	11-NOV-97		310.1
			K	15	% RPD	JJT	11-NOV-97		6010
			MG	<1	% RPD	JJT	11-NOV-97		6010
			NA	<1	% RPD	JJT	11-NOV-97		6010
			NO2/NO3	<1	% RPD	LV	03-DEC-97		353.2
			PB(D)	<1	% RPD	KPB	20-NOV-97		6020
			SE(D)	2.7	% RPD	KPB	20-NOV-97		6020
			SO4=	2.2	% RPD	LV	02-DEC-97		9036

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Batch No: WG971674

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971674-4		Duplicate	TDS	<1	% RPD	BK	11-NOV-97		160.1
			TSS	+/-crdl	% RPD	BK	11-NOV-97		160.2
			ZN(D)	<1	% RPD	KPB	20-NOV-97		6020
WG971674-5		Detection Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6010
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				236.1
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

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Water and Solid Waste (Project 3220)

Batch No: L972740

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972740-1	10-NOV-97	EPRI-9711-166	AS(D)	.009	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.012	ppm	KPB	24-NOV-97	180	6020
			CA	107.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	249.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	1952.	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.77	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.41	ppm	JJT	24-NOV-97	180	6010
			HCO3	245.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	8.0	ppm	JJT	17-NOV-97	180	6010
			MG	26.	ppm	JJT	17-NOV-97	180	6010
			NA	275.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	1.7	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	.007	ppm	KPB	24-NOV-97	180	6020
			PH	7.9	pH	LV	17-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	424.	ppm	LV	03-DEC-97	28	9036
			TDS	1289.	ppm	BK	17-NOV-97	7	160.1
			TSS	31.	ppm	BK	17-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	.020	ppm	KPB	24-NOV-97	180	6020
L972740-2	10-NOV-97	EPRI-9711-175	AS(D)	.009	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.010	ppm	KPB	24-NOV-97	180	6020
			CA	107.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	249.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	1993	umhos	BD	14-NOV-97	28	120.1

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El Paso

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Batch No: L972740

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972740-2	10-NOV-97	EPRI-9711-175	CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.77	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.58	ppm	JJT	24-NOV-97	180	6010
			HCO3	235.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	9.7	ppm	JJT	17-NOV-97	180	6010
			MG	27.	ppm	JJT	17-NOV-97	180	6010
			NA	286.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	2.1	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	.003	ppm	KPB	24-NOV-97	180	6020
			PH	8.3	pH	LV	17-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	422.	ppm	LV	03-DEC-97	28	9036
			TDS	1304.	ppm	BK	17-NOV-97	7	160.1
			TSS	38.	ppm	BK	17-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	<.020	ppm	KPB	24-NOV-97	180	6020
L972740-3	10-NOV-97	EPRI-9711-176	AS(D)	.009	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.010	ppm	KPB	24-NOV-97	180	6020
			CA	105.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	254.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	1970	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.75	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.45	ppm	JJT	24-NOV-97	180	6010
			HCO3	234.	ppm CaCO3	LV	17-NOV-97	14	310.1

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L972740-3	10-NOV-97	EPRI-9711-176	K	11.	ppm	JJT	17-NOV-97	180	6010
			MG	26.	ppm	JJT	17-NOV-97	180	6010
			NA	272.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	2.2	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	.004	ppm	KPB	24-NOV-97	180	6020
			PH	8.3	pH	LV	17-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	427.	ppm	LV	03-DEC-97	28	9036
			TDS	1323.	ppm	BK	17-NOV-97	7	160.1
			TSS	31.	ppm	BK	17-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	<.020	ppm	KPB	24-NOV-97	180	6020
L972740-4	10-NOV-97	EPRI-9711-164	AS(D)	.009	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.012	ppm	KPB	24-NOV-97	180	6020
			CA	104.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	248.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	1950	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	.026	ppm	KPB	24-NOV-97	180	6020
			F-	.75	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.40	ppm	JJT	24-NOV-97	180	6010
			HCO3	222.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	7.7	ppm	JJT	17-NOV-97	180	6010
			MG	25.	ppm	JJT	17-NOV-97	180	6010
			NA	277.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	2.3	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	.010	ppm	KPB	24-NOV-97	180	6020
			PH	8.3	pH	LV	17-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020

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L972740-4	10-NOV-97	EPRI-9711-164	SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	415.	ppm	LV	03-DEC-97	28	9036
			TDS	1289.	ppm	BK	17-NOV-97	7	160.1
			TSS	25.	ppm	BK	17-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	.026	ppm	KPB	24-NOV-97	180	6020
L972740-5	10-NOV-97	EPRI-9711-177	AS(D)	.009	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.010	ppm	KPB	24-NOV-97	180	6020
			CA	104.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	246.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	1933	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.74	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.17	ppm	JJT	24-NOV-97	180	6010
			HCO3	231.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	9.2	ppm	JJT	17-NOV-97	180	6010
			MG	25.	ppm	JJT	17-NOV-97	180	6010
			NA	272.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	2.2	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	.005	ppm	KPB	24-NOV-97	180	6020
			PH	8.3	pH	LV	17-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	415.	ppm	LV	03-DEC-97	28	9036
			TDS	1258.	ppm	BK	17-NOV-97	7	160.1
			TSS	23.	ppm	BK	17-NOV-97		160.2
			ZN(D)	.021	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	<.020	ppm	KPB	24-NOV-97	180	6020

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L972740-6	10-NOV-97	EPRI-9711-171	AS(D)	.011	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.011	ppm	KPB	24-NOV-97	180	6020
			CA	99.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	248.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	1886	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.77	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.15	ppm	JJT	24-NOV-97	180	6010
			HCO3	208.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	10.	ppm	JJT	17-NOV-97	180	6010
			MG	23.	ppm	JJT	17-NOV-97	180	6010
			NA	285.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	3.7	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	8.3	pH	LV	17-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	401.	ppm	LV	03-DEC-97	28	9036
			TDS	1225.	ppm	BK	17-NOV-97	7	160.1
			TSS	16.	ppm	BK	17-NOV-97		160.2
			ZN(D)	.025	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	.024	ppm	KPB	24-NOV-97	180	6020
L972740-7	10-NOV-97	EPRI-9711-169	AS(D)	.009	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.010	ppm	KPB	24-NOV-97	180	6020
			CA	100.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	249.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	1924	umhos	BD	14-NOV-97	28	120.1

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L972740-7	10-NOV-97	EPRI-9711-169	CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.75	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.36	ppm	JJT	24-NOV-97	180	6010
			HCO3	225.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	12.	ppm	JJT	17-NOV-97	180	6010
			MG	24.	ppm	JJT	17-NOV-97	180	6010
			NA	272.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	2.7	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	.005	ppm	KPB	24-NOV-97	180	6020
			PH	8.3	pH	LV	17-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	412.	ppm	LV	03-DEC-97	28	9036
			TDS	1290.	ppm	BK	17-NOV-97	7	160.1
			TSS	38.	ppm	BK	17-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	.024	ppm	KPB	24-NOV-97	180	6020
L972740-8	10-NOV-97	EPRI-9711-163	AS(D)	.82	ppm	KPB	24-NOV-97	180	6020
			AS(TR)	.80	ppm	KPB	24-NOV-97	180	6020
			CA	196.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	438.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	4660	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			CU(TR)	.032	ppm	KPB	24-NOV-97	180	6020
			F-	2.3	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			FE(TR)	.13	ppm	JJT	24-NOV-97	180	6010
			HCO3	312.	ppm CaCO3	LV	17-NOV-97	14	310.1

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L972740-8	10-NOV-97	EPRI-9711-163	K	60.	ppm	JJT	17-NOV-97	180	6010
			MG	77.	ppm	JJT	17-NOV-97	180	6010
			NA	793.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	4.1	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PB(TR)	.021	ppm	KPB	24-NOV-97	180	6020
			PH	8.0	pH	LV	17-NOV-97		150.1
			SE(D)	.16	ppm	KPB	24-NOV-97	180	6020
			SE(TR)	.15	ppm	KPB	24-NOV-97		6020
			SO4=	1616.	ppm	LV	03-DEC-97	28	9036
			TDS	3424.	ppm	BK	17-NOV-97	7	160.1
			TSS	13.	ppm	BK	17-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
			ZN(TR)	.068	ppm	KPB	24-NOV-97	180	6020
L972740-9	11-NOV-97	EPRI-9711-133	AS(D)	<.005	ppm	BD	05-DEC-97	180	206.2
			CA	314.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	751.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	5440	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	.70	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			HCO3	183.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	12.	ppm	JJT	17-NOV-97	180	6010
			MG	132.	ppm	JJT	17-NOV-97	180	6010
			NA	841.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	24.	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.3	pH	LV	17-NOV-97		150.1
			SE(D)	.32	ppm	KPB	24-NOV-97	180	6020
			SO4=	1725.	ppm	LV	03-DEC-97	28	9036
			TDS	4350.	ppm	BK	17-NOV-97	7	160.1
			TSS	38.	ppm	BK	17-NOV-97		160.2
			ZN(D)	.023	ppm	KPB	24-NOV-97	180	6020

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L972740-10	11-NOV-97	EPRI-9711-153	AS(D)	.017	ppm	KPB	24-NOV-97	180	6020
			CA	57.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	471.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	5240	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	2.2	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			HCO3	443.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	4.9	ppm	JJT	17-NOV-97	180	6010
			MG	39.	ppm	JJT	17-NOV-97	180	6010
			NA	1323.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	1.0	ppm	LV	03-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.9	pH	LV	17-NOV-97		150.1
			SE(D)	.029	ppm	KPB	24-NOV-97	180	6020
			SO4=	1787.	ppm	LV	03-DEC-97	28	9036
			TDS	3700.	ppm	BK	17-NOV-97	7	160.1
			TSS	72.	ppm	BK	17-NOV-97		160.2
			ZN(D)	.026	ppm	KPB	24-NOV-97	180	6020
L972740-11	11-NOV-97	EPRI-9711-141	AS(D)	.48	ppm	KPB	24-NOV-97	180	6020
			CA	157.	ppm	JJT	17-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	479.	ppm	LV	03-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	4670	umhos	BD	14-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	24-NOV-97	180	6020
			F-	2.1	ppm	LV	04-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97	180	6010
			HCO3	398.	ppm CaCO3	LV	17-NOV-97	14	310.1
			K	58.	ppm	JJT	17-NOV-97	180	6010
			MG	88.	ppm	JJT	17-NOV-97	180	6010
			NA	891.	ppm	JJT	17-NOV-97	180	6010
			NO2/NO3	4.6	ppm	LV	03-DEC-97	28	353.2
			PB(D)	.004	ppm	KPB	24-NOV-97	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972740-11	11-NOV-97	EPRI-9711-141	PH	7.5	pH	LV	17-NOV-97		150.1
			SE(D)	.17	ppm	KPB	24-NOV-97	180	6020
			SO4=	1498.	ppm	LV	03-DEC-97	28	9036
			TDS	3497.	ppm	BK	17-NOV-97	7	160.1
			TSS	5.6	ppm	BK	17-NOV-97		160.2
			ZN(D)	.078	ppm	KPB	24-NOV-97	180	6020

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971692-1		Matrix Spike	AS(D)	90	% RECOVERY	BD	05-DEC-97		206.2
			AS(TR)	109	% RECOVERY	KPB	24-NOV-97		6020
			CA	92	% RECOVERY	JJT	17-NOV-97		6010
			CD(D)	108	% RECOVERY	KPB	24-NOV-97		6020
			CD(TR)	103	% RECOVERY	KPB	24-NOV-97		6020
			CL-	100	% RECOVERY	LV	03-DEC-97		325.2
			CR(D)	95	% RECOVERY	JJT	17-NOV-97		6010
			CR(TR)	104	% RECOVERY	JJT	24-NOV-97		6010
			CU(D)	107	% RECOVERY	KPB	24-NOV-97		6020
			CU(TR)	99	% RECOVERY	KPB	24-NOV-97		6020
			F-	97	% RECOVERY	LV	04-DEC-97		340.2
			FE(D)	96	% RECOVERY	JJT	17-NOV-97		6010
			FE(TR)	80	% RECOVERY	JJT	24-NOV-97		6010
			K	108	% RECOVERY	JJT	17-NOV-97		6010
			MG	90	% RECOVERY	JJT	17-NOV-97		6010
			NA	SR>4xSA	% RECOVERY	JJT	17-NOV-97		6010
			NO2/NO3	97	% RECOVERY	LV	03-DEC-97		353.2
			PB(D)	100	% RECOVERY	KPB	24-NOV-97		6020
			PB(TR)	99	% RECOVERY	KPB	24-NOV-97		6020
			SE(D)	118	% RECOVERY	KPB	24-NOV-97		6020
			SE(TR)	114	% RECOVERY	KPB	24-NOV-97		6020
			SO4=	102	% RECOVERY	LV	03-DEC-97		9036
			ZN(D)	113	% RECOVERY	KPB	24-NOV-97		6020
			ZN(TR)	107	% RECOVERY	KPB	24-NOV-97		6020
WG971692-2		Prep Blank	AS(D)	<.005	ppm	BD	05-DEC-97		206.2
			AS(TR)	<.005	ppm	KPB	24-NOV-97		6020
			CA	<1.0	ppm	JJT	17-NOV-97		6010
			CD(D)	<.005	ppm	KPB	24-NOV-97		6020
			CD(TR)	<.005	ppm	KPB	24-NOV-97		6020
			CL-	<1.0	ppm	LV	03-DEC-97		325.2
			CO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			COND.	<5	umhos	BD	14-NOV-97		120.1
			CR(D)	<.010	ppm	JJT	17-NOV-97		6010
			CR(TR)	<.010	ppm	JJT	24-NOV-97		6010
			CU(D)	<.025	ppm	KPB	24-NOV-97		6020
			CU(TR)	<.025	ppm	KPB	24-NOV-97		6020
			F-	<.050	ppm	LV	04-DEC-97		340.2
			FE(D)	<.10	ppm	JJT	17-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971692-2		Prep Blank	FE(TR)	<.10	ppm	JJT	24-NOV-97		6010
			HCO3	<1.0	ppm CaCO3	LV	17-NOV-97		310.1
			K	<2.0	ppm	JJT	17-NOV-97		6010
			MG	<1.0	ppm	JJT	17-NOV-97		6010
			NA	<2.0	ppm	JJT	17-NOV-97		6010
			NO2/NO3	<.050	ppm	LV	03-DEC-97		353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97		6020
			PB(TR)	<.003	ppm	KPB	24-NOV-97		6020
			SE(D)	<.005	ppm	KPB	24-NOV-97		6020
			SE(TR)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	<2.0	ppm	LV	03-DEC-97		9036
			TDS	<10.	ppm	BK	17-NOV-97		160.1
			TSS	<1.0	ppm	BK	17-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97		6020
			ZN(TR)	<.020	ppm	KPB	24-NOV-97		6020
WG971692-3		Laboratory Control	AS(D)	90	% RECOVERY	BD	05-DEC-97		206.2
			AS(TR)	113	% RECOVERY	KPB	24-NOV-97		6020
			CA	104	% RECOVERY	JJT	17-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	24-NOV-97		6020
			CD(TR)	112	% RECOVERY	KPB	24-NOV-97		6020
			CL-	96	% RECOVERY	LV	03-DEC-97		325.2
			COND.	100	% RECOVERY	BD	14-NOV-97		120.1
			CR(D)	101	% RECOVERY	JJT	17-NOV-97		6010
			CR(TR)	107	% RECOVERY	JJT	24-NOV-97		6010
			CU(D)	108	% RECOVERY	KPB	24-NOV-97		6020
			CU(TR)	106	% RECOVERY	KPB	24-NOV-97		6020
			F-	98	% RECOVERY	LV	04-DEC-97		340.2
			FE(D)	95	% RECOVERY	JJT	17-NOV-97		6010
			FE(TR)	103	% RECOVERY	JJT	24-NOV-97		6010
			HCO3	103	% RECOVERY	LV	17-NOV-97		310.1
			K	99	% RECOVERY	JJT	17-NOV-97		6010
			MG	96	% RECOVERY	JJT	17-NOV-97		6010
			NA	100	% RECOVERY	JJT	17-NOV-97		6010
			NO2/NO3	101	% RECOVERY	LV	03-DEC-97		353.2
			PB(D)	103	% RECOVERY	KPB	24-NOV-97		6020
			PB(TR)	106	% RECOVERY	KPB	24-NOV-97		6020
			SE(D)	110	% RECOVERY	KPB	24-NOV-97		6020
			SE(TR)	113	% RECOVERY	KPB	24-NOV-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971692-3		Laboratory Control	SO4=	103	% RECOVERY	LV	03-DEC-97		9036
			TDS	93	% RECOVERY	BK	17-NOV-97		160.1
			TSS	89	% RECOVERY	BK	17-NOV-97		160.2
			ZN(D)	110	% RECOVERY	KPB	24-NOV-97		6020
			ZN(TR)	120	% RECOVERY	KPB	24-NOV-97		6020
WG971692-4		Duplicate	AS(D)	<1	% RPD	BD	05-DEC-97		206.2
			AS(TR)	8.7	% RPD	KPB	24-NOV-97		6020
			CA	<1	% RPD	JJT	17-NOV-97		6010
			CD(D)	<1	% RPD	KPB	24-NOV-97		6020
			CD(TR)	<1	% RPD	KPB	24-NOV-97		6020
			CL-	1.6	% RPD	LV	03-DEC-97		325.2
			CO3	<1	% RPD	LV	17-NOV-97		310.1
			COND.	<1	% RPD	BD	14-NOV-97		120.1
			CR(D)	<1	% RPD	JJT	17-NOV-97		6010
			CR(TR)	<1	% RPD	JJT	24-NOV-97		6010
			CU(D)	<1	% RPD	KPB	24-NOV-97		6020
			CU(TR)	<1	% RPD	KPB	24-NOV-97		6020
			F-	2.6	% RPD	LV	04-DEC-97		340.2
			FE(D)	<1	% RPD	JJT	17-NOV-97		6010
			FE(TR)	2.5	% RPD	JJT	24-NOV-97		6010
			HCO3	1.6	% RPD	LV	17-NOV-97		310.1
			K	+/-crdl	% RPD	JJT	17-NOV-97		6010
			MG	2.6	% RPD	JJT	17-NOV-97		6010
			NA	1.8	% RPD	JJT	17-NOV-97		6010
			NO2/NO3	4.0	% RPD	LV	03-DEC-97		353.2
			PB(D)	<1	% RPD	KPB	24-NOV-97		6020
			PB(TR)	+/-crdl	% RPD	KPB	24-NOV-97		6020
			SE(D)	<1	% RPD	KPB	24-NOV-97		6020
			SE(TR)	<1	% RPD	KPB	24-NOV-97		6020
			SO4=	<1	% RPD	LV	03-DEC-97		9036
			TDS	2.9	% RPD	BK	17-NOV-97		160.1
			TSS	3.6	% RPD	BK	17-NOV-97		160.2
			ZN(D)	<1	% RPD	KPB	24-NOV-97		6020
			ZN(TR)	<1	% RPD	KPB	24-NOV-97		6020
WG971692-5		Detection Limit	AS(D)	.005	ppm				206.2
			AS(TR)	.005	ppm				6020
			CA	1.0	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971692

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971692-5		Detection Limit	CD(D)	.005	ppm				6020
			CD(TR)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6010
			CR(TR)	.010	ppm				6010
			CU(D)	.025	ppm				6020
			CU(TR)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			FE(TR)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			PB(TR)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SE(TR)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
			ZN(TR)	.020	ppm				6020

Approved

Reviewer

Hydrometrics, 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.: 0734

PROJECT NAME: ASARCO - EL PASO, TX

SAMPLERS: (Signature) Douglas M. Solo

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11-10-97	930			EPRI-9711-166	4	X	X	X			X										
	1000			EPRI-9711-175	4	X	X	X			X										
	1025			EPRI-9711-176	4	X	X	X			X										
	1040			EPRI-9711-164	4	X	X	X			X										
	1240			EPRI-9711-177	4	X	X	X			X										
	1310			EPRI-9711-171	4	X	X	X			X										
	1345			EPRI-9711-169	4	X	X	X			X										
	1415			EPRI-9711-163	4	X	X	X			X										
11-11-97	845			EPRI-9711 ~~168~~ 133	3	X	X	X													
	945			EPRI-9711-153	3	X	X	X													
	1030			EPRI-9711-141	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solo	11-12-97 1600		TSC - SALT LAKE CITY, UT		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		Enclosed: [X] Parameter sheet w/detection limits; [ ] QA/QC standard mixing instructions; [X] Cover letter; [ ] Other ____
		[illegible]	NOV 12-13-97	9:30	

HFORM-1

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

Split Samples:
[ ] Accepted [ ] Declined

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 8574[illegible] (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.: 0734

PROJECT NAME: ASARCO - EIPASO, TX

SAMPLERS: (Signature) Douglas M. Solar

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11-7-97	850			EPRI-9711-132	3	X	X	X													
11-7-97	940			EPRI-9711-136	3	X	X	X													
11-7-97	1015			EPRI-9711-135	3	X	X	X													
11-7-97	1100			EPRI-9711-137	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solar	11-7-97 1400		TSC LAB Salt Lake City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		Enclosed: [X] Parameter sheet w/detection limits; [ ] QA/QC standard mixing instructions; [X] Cover letter; [ ] Other ____
		[illegible]	11-9-97 9:45		

Split Samples: [ ] Accepted [ ] Declined ____ Signature

HFORM-1-4/95

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

Hydrometrics, 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.: 0734-

PROJECT NAME: ASARCO - El PASO, TX

SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11-5-97	950			EPRI-9711-106	3	X	X	X													
11-5-97	1310			EPRI-9711-124	3	X	X	X													
11-5-97	1330			EPRI-9711-129	3	X	X	X													
11-5-97	1400			EPRI-9711-127	3	X	X	X													
11-5-97	1445			EPRI-9711-128	3	X	X	X													
11-5-97	1525			EPRI-9711-125	3	X	X	X													
11-5-97	1600			EPRI-9711-131	3	X	X	X													
11-6-97	1110			EPRI-9711-105	3	X	X	X													
11-6-97	1215			EPRI-9711-107	3	X	X	X													
11-6-97	1425			EPRI-9711-173	3	X	X	X													
11-6-97	1520			EPRI-9711-118	3	X	X	X													
11-6-97	1530			EPRI-9711-174	3	X	X	X													
11-6-97	1620			EPRI-9711-119	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	11-7-97 1400		TSC LAB Salt Lake City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	
			11-9-97 9:45	Split Samples: [] Accepted [] Declined	

HFORM-1

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

ASARCO

December 11, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for nine water samples collected November 13 and November 14, 1997 and received by the lab on November 17, 1997.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972756

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972756-1	13-NOV-97	EPRI-9711-140	AS(D)	21.	ppm	KPB	24-NOV-97	180	6020
			CA	406.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	.019	ppm	KPB	24-NOV-97	180	6020
			CL-	258.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	18340.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	.051	ppm	JJT	19-NOV-97	180	6010
			F-	1.5	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	19-NOV-97	180	6010
			HCO3	608.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	760.	ppm	JJT	19-NOV-97	180	6010
			MG	407.	ppm	JJT	19-NOV-97	180	6010
			NA	5246.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	193.	ppm	LV	08-DEC-97	28	353.2
			PB(D)	.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.2	pH	DC	18-NOV-97		150.1
			SE(D)	4.0	ppm	KPB	24-NOV-97	180	6020
			SO4=	10061.	ppm	LV	03-DEC-97	28	9036
			TDS	18239.	ppm	BK	20-NOV-97	7	160.1
			TSS	41.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.16	ppm	KPB	24-NOV-97	180	6020
L972756-2	13-NOV-97	EPRI-9711-138	AS(D)	.033	ppm	KPB	24-NOV-97	180	6020
			CA	265.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	441.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	6520.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	2.6	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	19-NOV-97	180	6010
			HCO3	235.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	382.	ppm	JJT	19-NOV-97	180	6010
			MG	113.	ppm	JJT	19-NOV-97	180	6010
			NA	1087.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	23.	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020

ASARCO TEC AL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972756

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972756-2	13-NOV-97	EPRI-9711-138	PH	7.4	pH	DC	18-NOV-97		150.1
			SE(D)	1.1	ppm	KPB	24-NOV-97	180	6020
			SO4=	2584.	ppm	LV	03-DEC-97	28	9036
			TDS	5329.	ppm	BK	20-NOV-97	7	160.1
			TSS	12.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.033	ppm	KPB	24-NOV-97	180	6020
L972756-3	13-NOV-97	EPRI-9711-142	AS(D)	6.0	ppm	KPB	24-NOV-97	180	6020
			CA	223.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	.013	ppm	KPB	24-NOV-97	180	6020
			CL-	608.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	5350.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	2.4	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	19-NOV-97	180	6010
			HCO3	253.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	36.	ppm	JJT	19-NOV-97	180	6010
			MG	53.	ppm	JJT	19-NOV-97	180	6010
			NA	1030.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	13.	ppm	LV	08-DEC-97	28	353.2
			PB(D)	.005	ppm	KPB	24-NOV-97	180	6020
			PH	7.6	pH	DC	18-NOV-97		150.1
			SE(D)	.019	ppm	KPB	24-NOV-97	180	6020
			SO4=	1793.	ppm	LV	03-DEC-97	28	9036
			TDS	3956.	ppm	BK	20-NOV-97	7	160.1
			TSS	142.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.022	ppm	KPB	24-NOV-97	180	6020
L972756-4	13-NOV-97	EPRI-9711-178	AS(D)	5.7	ppm	KPB	24-NOV-97	180	6020
			CA	226.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	.012	ppm	KPB	24-NOV-97	180	6020
			CL-	621.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	5360.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	2.2	ppm	LV	05-DEC-97	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972756

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972756-4	13-NOV-97	EPRI-9711-178							
			FE(D)	<.10	ppm	JJT	19-NOV-97	180	6010
			HCO3	254.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	35.	ppm	JJT	19-NOV-97	180	6010
			MG	55.	ppm	JJT	19-NOV-97	180	6010
			NA	1045.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	.59	ppm	LV	08-DEC-97	28	353.2
			PB(D)	.005	ppm	KPB	24-NOV-97	180	6020
			PH	7.6	pH	DC	18-NOV-97		150.1
			SE(D)	.024	ppm	KPB	24-NOV-97	180	6020
			SO4=	1793.	ppm	LV	03-DEC-97	28	9036
			TDS	4057.	ppm	BK	20-NOV-97	7	160.1
			TSS	82.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.022	ppm	KPB	24-NOV-97	180	6020
L972756-5	13-NOV-97	EPRI-9711-154							
			AS(D)	.005	ppm	KPB	24-NOV-97	180	6020
			CA	157.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	356.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	2770.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	.72	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	19-NOV-97	180	6010
			HCO3	230.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	20.	ppm	JJT	19-NOV-97	180	6010
			MG	62.	ppm	JJT	19-NOV-97	180	6010
			NA	350.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	9.0	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.4	pH	DC	18-NOV-97		150.1
			SE(D)	.018	ppm	KPB	24-NOV-97	180	6020
			SO4=	777.	ppm	LV	03-DEC-97	28	9036
			TDS	1956.	ppm	BK	20-NOV-97	7	160.1
			TSS	2.9	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
L972756-6	14-NOV-97	EPRI-9711-123							
			AS(D)	4.8	ppm	KPB	24-NOV-97	180	6020
			CA	487.	ppm	JJT	19-NOV-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972756

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972756-6	14-NOV-97	EPRI-9711-123	CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	930.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	11480.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	4.7	ppm	LV	05-DEC-97	28	340.2
			FE(D)	.98	ppm	JJT	19-NOV-97	180	6010
			HCO3	1044.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	260.	ppm	JJT	19-NOV-97	180	6010
			MG	178.	ppm	JJT	19-NOV-97	180	6010
			NA	2396.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	6.9	pH	DC	18-NOV-97		150.1
			SE(D)	.027	ppm	KPB	24-NOV-97	180	6020
			SO4=	4699.	ppm	LV	03-DEC-97	28	9036
			TDS	9286.	ppm	BK	20-NOV-97	7	160.1
			TSS	28.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.024	ppm	KPB	24-NOV-97	180	6020
L972756-7	14-NOV-97	EPRI-9711-122	AS(D)	.97	ppm	KPB	24-NOV-97	180	6020
			CA	104.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	278.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	3070.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	1.0	ppm	LV	05-DEC-97	28	340.2
			FE(D)	.28	ppm	JJT	19-NOV-97	180	6010
			HCO3	937.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	25.	ppm	JJT	19-NOV-97	180	6010
			MG	79.	ppm	JJT	19-NOV-97	180	6010
			NA	525.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	1.5	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.4	pH	DC	18-NOV-97		150.1
			SE(D)	<.005	ppm	KPB	24-NOV-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972756

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972756-7	14-NOV-97	EPRI-9711-122							
			SO4=	466.	ppm	LV	03-DEC-97	28	9036
			TDS	2159.	ppm	BK	20-NOV-97	7	160.1
			TSS	14.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
L972756-8	14-NOV-97	EPRI-9711-130							
			AS(D)	.013	ppm	KPB	24-NOV-97	180	6020
			CA	373.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	676.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	7380.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	1.9	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	19-NOV-97	180	6010
			HCO3	455.	ppm CaCO3	DC	18-NOV-97	14	310.1
			K	30.	ppm	JJT	19-NOV-97	180	6010
			MG	143.	ppm	JJT	19-NOV-97	180	6010
			NA	1480.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	66.	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.6	pH	DC	18-NOV-97		150.1
			SE(D)	.29	ppm	KPB	24-NOV-97	180	6020
			SO4=	2699.	ppm	LV	03-DEC-97	28	9036
			TDS	6235.	ppm	BK	20-NOV-97	7	160.1
			TSS	25.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97	180	6020
L972756-9	14-NOV-97	EPRI-9711-126							
			AS(D)	.011	ppm	KPB	24-NOV-97	180	6020
			CA	436.	ppm	JJT	19-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	24-NOV-97	180	6020
			CL-	941.	ppm	LV	10-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	9080.	umhos	DC	18-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97	180	6010
			CU(D)	<.025	ppm	JJT	19-NOV-97	180	6010
			F-	1.7	ppm	LV	05-DEC-97	28	340.2
			FE(D)	1.2	ppm	JJT	19-NOV-97	180	6010
			HCO3	360.	ppm CaCO3	DC	18-NOV-97	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972756

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972756-9	14-NOV-97	EPRI-9711-126	K	28.	ppm	JJT	19-NOV-97	180	6010
			MG	182.	ppm	JJT	19-NOV-97	180	6010
			NA	1962.	ppm	JJT	19-NOV-97	180	6010
			NO2/NO3	164.	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97	180	6020
			PH	7.2	pH	DC	18-NOV-97		150.1
			SE(D)	.38	ppm	KPB	24-NOV-97	180	6020
			SO4=	3446.	ppm	LV	03-DEC-97	28	9036
			TDS	7684.	ppm	BK	20-NOV-97	7	160.1
			TSS	38.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.021	ppm	KPB	24-NOV-97	180	6020

Approved

James J. Travis
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971723

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971723-1		Matrix Spike	AS(D)	105	% RECOVERY	KPB	24-NOV-97		6020
			CA	92	% RECOVERY	JJT	19-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	24-NOV-97		6020
			CL-	100	% RECOVERY	LV	10-DEC-97		325.2
			CR(D)	94	% RECOVERY	JJT	19-NOV-97		6010
			CU(D)	100	% RECOVERY	JJT	19-NOV-97		6010
			F-	93	% RECOVERY	LV	05-DEC-97		340.2
			FE(D)	98	% RECOVERY	JJT	19-NOV-97		6010
			K	120	% RECOVERY	JJT	19-NOV-97		6010
			MG	80	% RECOVERY	JJT	19-NOV-97		6010
			NA	SR>4xSA	% RECOVERY	JJT	19-NOV-97		6010
			NO2/NO3	103	% RECOVERY	LV	08-DEC-97		353.2
			PB(D)	94	% RECOVERY	KPB	24-NOV-97		6020
			SE(D)	97	% RECOVERY	KPB	24-NOV-97		6020
			SO4=	100	% RECOVERY	LV	03-DEC-97		9036
			ZN(D)	94	% RECOVERY	KPB	24-NOV-97		6020
WG971723-2		Prep Blank	AS(D)	<.005	ppm	KPB	24-NOV-97		6020
			CA	<1.0	ppm	JJT	19-NOV-97		6010
			CD(D)	<.005	ppm	KPB	24-NOV-97		6020
			CL-	<1.0	ppm	LV	10-DEC-97		325.2
			CO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			COND.	<5.	umhos	DC	18-NOV-97		120.1
			CR(D)	<.010	ppm	JJT	19-NOV-97		6010
			CU(D)	<.025	ppm	JJT	19-NOV-97		6010
			F-	<.050	ppm	LV	05-DEC-97		340.2
			FE(D)	<.10	ppm	JJT	19-NOV-97		6010
			HCO3	<1.0	ppm CaCO3	DC	18-NOV-97		310.1
			K	<2.0	ppm	JJT	19-NOV-97		6010
			MG	<1.0	ppm	JJT	19-NOV-97		6010
			NA	<2.0	ppm	JJT	19-NOV-97		6010
			NO2/NO3	<.050	ppm	LV	08-DEC-97		353.2
			PB(D)	<.003	ppm	KPB	24-NOV-97		6020
			SE(D)	<.005	ppm	KPB	24-NOV-97		6020
			SO4=	<2.0	ppm	LV	03-DEC-97		9036
			TDS	<10.	ppm	BK	20-NOV-97		160.1
			TSS	<10.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	24-NOV-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971723

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971723-3		Laboratory Control							
			AS(D)	103	% RECOVERY	KPB	24-NOV-97		6020
			CA	100	% RECOVERY	JJT	19-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	24-NOV-97		6020
			CL-	95	% RECOVERY	LV	10-DEC-97		325.2
			COND.	101	% RECOVERY	DC	18-NOV-97		120.1
			CR(D)	101	% RECOVERY	JJT	19-NOV-97		6010
			CU(D)	103	% RECOVERY	JJT	19-NOV-97		6010
			F-	94	% RECOVERY	LV	05-DEC-97		340.2
			FE(D)	94	% RECOVERY	JJT	19-NOV-97		6010
			HCO3	101	% RECOVERY	DC	18-NOV-97		310.1
			K	103	% RECOVERY	JJT	19-NOV-97		6010
			MG	96	% RECOVERY	JJT	19-NOV-97		6010
			NA	93	% RECOVERY	JJT	19-NOV-97		6010
			NO2/NO3	106	% RECOVERY	LV	08-DEC-97		353.2
			PB(D)	100	% RECOVERY	KPB	24-NOV-97		6020
			SE(D)	105	% RECOVERY	KPB	24-NOV-97		6020
			SO4=	103	% RECOVERY	LV	03-DEC-97		9036
			TDS	100	% RECOVERY	BK	20-NOV-97		160.1
			TSS	94	% RECOVERY	BK	20-NOV-97		160.2
			ZN(D)	103	% RECOVERY	KPB	24-NOV-97		6020
WG971723-4		Duplicate							
			AS(D)	<1	% RPD	KPB	24-NOV-97		6020
			CA	3.5	% RPD	JJT	19-NOV-97		6010
			CD(D)	<1	% RPD	KPB	24-NOV-97		6020
			CL-	4.3	% RPD	LV	10-DEC-97		325.2
			CO3	<1	% RPD	DC	18-NOV-97		310.1
			COND.	<1	% RPD	DC	18-NOV-97		120.1
			CR(D)	<1	% RPD	JJT	19-NOV-97		6010
			CU(D)	<1	% RPD	JJT	19-NOV-97		6010
			F-	2.0	% RPD	LV	05-DEC-97		340.2
			FE(D)	3.5	% RPD	JJT	19-NOV-97		6010
			HCO3	<1	% RPD	DC	18-NOV-97		310.1
			K	<1	% RPD	JJT	19-NOV-97		6010
			MG	2.8	% RPD	JJT	19-NOV-97		6010
			NA	3.3	% RPD	JJT	19-NOV-97		6010
			NO2/NO3	<1	% RPD	LV	08-DEC-97		353.2
			PB(D)	<1	% RPD	KPB	24-NOV-97		6020
			SE(D)	<1	% RPD	KPB	24-NOV-97		6020
			SO4=	2.3	% RPD	LV	03-DEC-97		9036

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971723

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971723-4		Duplicate							
			TDS	<1	% RPD	BK	20-NOV-97		160.1
			TSS	5.4	% RPD	BK	20-NOV-97		160.2
			ZN(D)	2.9	% RPD	KPB	24-NOV-97		6020
WG971723-5		Detection Limit							
			AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.	umhos				120.1
			CR(D)	.010	ppm				6010
			CU(D)	.025	ppm				6010
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

Reviewer

Hydrometrics, Inc.
3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85 (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734-
PROJECT NAME: ASARCO - ELPASO, TX
SAMPLERS: (Signature) Douglas M. Solomon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11-13-97	915			EPRI-9711-140	3	X	X	X													
11-13-97	1025			EPRI-9711-138	3	X	X	X													
11-13-97	1115			EPRI-9711-142	3	X	X	X													
11-13-97	1125			EPRI-9711-178	3	X	X	X													
11-13-97	1400			EPRI-9711-154	3	X	X	X													
11-14-97	940			EPRI-9711-123	3	X	X	X													
11-14-97	1130			EPRI-9711-122	3	X	X	X													
11-14-97	1100			EPRI-9711-130	3	X	X	X													
11-14-97	1030			EPRI-9711-126	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solomon	11/14/97 1600		TSC - ASARCO SALT LAKE City, UT		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____
		[illegible]	11/17/97 9:30		

HFORM-1-4/95

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

Split Samples:
|| Accepted || Declined ____ Signature

HYDROMETRICS, INC. - EL PASO

PROJECT MEMO

TO: TSC Laboratory - Salt Lake City
FILE

FROM: Lairy Johnson, Doug Solon

DATE: November 1, 1997

SUBJECT: Analysis of Ground Water - 0734-502.100

The samples included are to be analyzed for the parameters on the attached sheet. The samples will follow Standard SW846 sample analysis protocol.

We would like the sample results to be completed and forwarded to our office in 15 work days from time of receipt. Please send the original results with chain-of-custody to us in El Paso and a copy of the results with chain-of-custody to Clare Bridge in Helena.

Please call us upon receipt to verify that the cooler(s) has arrived.

If you have any questions, please call us.

Thanks,

Lairy

TABLE 4-8A. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR WATER SAMPLES

Parameter	Method[1]	PDLG[2] Water (mg/L)	Holding Time
WATER MATRIX			
pH	150.1 (field and lab)	--	analyze immediately
SC	120.1 (field and lab)	--	analyze immediately
temperature	field measurement only	--	analyze immediately
TDS	160.1	10	7 days
TSS	160.2	10	7 days
oxygen (Dis)	field measurement only	--	analyze immediately
bicarbonate	310.x	1	14 days
carbonate.	310.x	1	14 days
sulfate	375.x	1	28 days
chloride	325.x	1	28 days
fluoride	340.2	0.1	28 days
nitrite/ nitrate	353.2	0.1	28 days
Ca	200.7/215.1/6020, ICP/FAA/ICP-MS	1	6 months
Mg	200.7/242.1/6020, ICP/FAA ICP-MS	1	6 months
Na	200.7/273.1/6020, ICP/FAA ICP-MS	5	6 months
K	200.7/258.1/6020, ICP/FAA ICP-MS	5	6 months
As	200.7/6020/206.2, ICP/ICP-MS/GFAA	0.005	6 months
Cd	200.7/6020/213.2, ICP/ ICP-MS/GFAA	0.005	6 months
Cu	200.7/6020/220.1, ICP/ ICP-MS/FAA	0.025	6 months
Cr	200.7/6020/218.2, ICP/ ICP-MS/FAA	0.01	6 months
Fe	200.7/6020/236.1, ICP/ ICP-MS/FAA	0.1	6 months
Pb	200.7/6020/239.2. ICP/ ICP-MS/GFAA	0.003	6 months
Se	200.7/6020/270.2/270.3/st meth 303A ICP/ ICP-MS/GFAA/HGAA/FAA	0.005	6 months
Zn	200.7/6020/289.2. ICP/ ICP-MS/GFAA	0.02	6 months

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983) and "Test Methods for Evaluating Solid Wastes" (EPA, 1990).

2 Project Detection Limit Goal.

Note: Groundwater samples analyzed for dissolved constituents only. Surface water analyzed for both total recoverable and dissolved metals.

ASARCO

December 15, 1997

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for six water samples collected November 17, 1997. The samples were received by the laboratory on November 19, 1997.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

RECEIVED
DEC 18 1997
HYDROMETRICS, INC.

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TE AL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972777

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972777-1	17-NOV-97	EPRI-9711-159	AG(D)	<.0003	ppm	KPB	12-DEC-97	180	6020
			ALK.	174.	ppm CaCO3	DC	05-DEC-97	14	310.1
			AS(D)	1.7	ppm	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	12-DEC-97	180	6020
			CA	249.	ppm	JT	24-NOV-97	180	6010
			CD(D)	.069	ppm	KPB	05-DEC-97	180	6020
			CL-	806.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	6700	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	6.4	ppm	LV	05-DEC-97	28	340.2
			FE(D)	1.8	ppm	JT	24-NOV-97	180	6010
			HCO3	174.	ppm CaCO3	DC	05-DEC-97	14	310.1
			HG(D)	<.20	ppb	BD	20-NOV-97		245.1
			K	83.	ppm	JT	24-NOV-97	180	6010
			MG	60.	ppm	JT	24-NOV-97	180	6010
			MN(D)	.73	ppm	JT	24-NOV-97	180	6010
			NA	1445.	ppm	JT	24-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	08-DEC-97	28	353.2
			PB(D)	.006	ppm	KPB	05-DEC-97	180	6020
			PH	7.7	pH	DC	05-DEC-97		150.1
			SE(D)	.009	ppm	KPB	05-DEC-97	180	6020
			SO4=	2224.	ppm	LV	12-DEC-97	28	9036
			TDS	5176.	ppm	BK	20-NOV-97	7	160.1
			TSS	7.4	ppm	BK	20-NOV-97		160.2
			ZN(D)	.31	ppm	KPB	05-DEC-97	180	6020
L972777-2	17-NOV-97	EPRI-9711-160	AG(D)	<.0003	ppm	KPB	12-DEC-97	180	6020
			ALK.	318.	ppm CaCO3	DC	05-DEC-97	14	310.1
			AS(D)	.026	ppm	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	12-DEC-97	180	6020
			CA	124.	ppm	JT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	451.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	4500	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CU(D)	.045	ppm	KPB	05-DEC-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972777

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972777-2	17-NOV-97	EPRI-9711-160	F-	2.0	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JT	24-NOV-97	180	6010
			HCO3	318.	ppm CaCO3	DC	05-DEC-97	14	310.1
			HG(D)	<.20	ppb	BD	20-NOV-97		245.1
			K	14.	ppm	JT	24-NOV-97	180	6010
			MG	78.	ppm	JT	24-NOV-97	180	6010
			MN(D)	<.010	ppm	JT	24-NOV-97	180	6010
			NA	902.	ppm	JT	24-NOV-97	180	6010
			NO2/NO3	6.9	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.6	pH	DC	05-DEC-97		150.1
			SE(D)	.11	ppm	KPB	05-DEC-97	180	6020
			SO4=	1470.	ppm	LV	12-DEC-97	28	9036
			TDS	3372.	ppm	BK	20-NOV-97	7	160.1
			TSS	2.2	ppm	BK	20-NOV-97		160.2
			ZN(D)	.039	ppm	KPB	05-DEC-97	180	6020
L972777-3	17-NOV-97	EPRI-9711-161	AG(D)	<.0003	ppm	KPB	12-DEC-97	180	6020
			ALK.	362.	ppm CaCO3	DC	05-DEC-97	14	310.1
			AS(D)	1.7	ppm	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	12-DEC-97	180	6020
			CA	215.	ppm	JT	24-NOV-97	180	6010
			CD(D)	.021	ppm	KPB	05-DEC-97	180	6020
			CL-	714.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	5700	umhos	BD	24-NOV-97	28	120.1
			CR(D)	.008	ppm	KPB	05-DEC-97	180	6020
			CU(D)	.067	ppm	KPB	05-DEC-97	180	6020
			F-	4.9	ppm	LV	05-DEC-97	28	340.2
			FE(D)	.35	ppm	JT	24-NOV-97	180	6010
			HCO3	362.	ppm CaCO3	DC	05-DEC-97	14	310.1
			HG(D)	<.20	ppb	BD	20-NOV-97		245.1
			K	51.	ppm	JT	24-NOV-97	180	6010
			MG	42.	ppm	JT	24-NOV-97	180	6010
			MN(D)	.33	ppm	JT	24-NOV-97	180	6010
			NA	1216.	ppm	JT	24-NOV-97	180	6010
			NO2/NO3	1.5	ppm	LV	08-DEC-97	28	353.2
			PB(D)	.058	ppm	KPB	05-DEC-97	180	6020
			PH	8.4	pH	DC	05-DEC-97		150.1

ASARCO TEC AL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972777

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972777-3	17-NOV-97	EPRI-9711-161	SE(D)	.13	ppm	KPB	05-DEC-97	180	6020
			SO4=	1864.	ppm	LV	12-DEC-97	28	9036
			TDS	4264.	ppm	BK	20-NOV-97	7	160.1
			TSS	54.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.11	ppm	KPB	05-DEC-97	180	6020
L972777-4	17-NOV-97	EPRI-9711-158	AG(D)	<.0003	ppm	KPB	12-DEC-97	180	6020
			ALK.	126.	ppm CaCO3	DC	05-DEC-97	14	310.1
			AS(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	12-DEC-97	180	6020
			CA	469.	ppm	JT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	3423.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	11300	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	1.3	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JT	24-NOV-97	180	6010
			HCO3	126.	ppm CaCO3	DC	05-DEC-97	14	310.1
			HG(D)	<.20	ppb	BD	20-NOV-97		245.1
			K	42.	ppm	JT	24-NOV-97	180	6010
			MG	211.	ppm	JT	24-NOV-97	180	6010
			MN(D)	<.010	ppm	JT	24-NOV-97	180	6010
			NA	1959.	ppm	JT	24-NOV-97	180	6010
			NO2/NO3	.19	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.7	pH	DC	05-DEC-97		150.1
			SE(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			SO4=	547.	ppm	LV	12-DEC-97	28	9036
			TDS	7198.	ppm	BK	20-NOV-97	7	160.1
			TSS	7.7	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972777-5	17-NOV-97	EPRI-9711-156	AG(D)	<.0003	ppm	KPB	12-DEC-97	180	6020
			ALK.	250.	ppm CaCO3	DC	05-DEC-97	14	310.1
			AS(D)	.57	ppm	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	12-DEC-97	180	6020
			CA	176.	ppm	JT	24-NOV-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972777

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972777-5	17-NOV-97	EPRI-9711-156	CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	456.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	3960	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	1.3	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JT	24-NOV-97	180	6010
			HCO3	250.	ppm CaCO3	DC	05-DEC-97	14	310.1
			HG(D)	<.20	ppb	BD	20-NOV-97		245.1
			K	11.	ppm	JT	24-NOV-97	180	6010
			MG	65.	ppm	JT	24-NOV-97	180	6010
			MN(D)	<.010	ppm	JT	24-NOV-97	180	6010
			NA	704.	ppm	JT	24-NOV-97	180	6010
			NO2/NO3	17.	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.7	pH	DC	05-DEC-97		150.1
			SE(D)	.11	ppm	KPB	05-DEC-97	180	6020
			SO4=	1185.	ppm	LV	12-DEC-97	28	9036
			TDS	2952.	ppm	BK	20-NOV-97	7	160.1
			TSS	7.5	ppm	BK	20-NOV-97		160.2
			ZN(D)	.023	ppm	KPB	05-DEC-97	180	6020
L972777-6	17-NOV-97	EPRI-9711-155	AG(D)	<.0003	ppm	KPB	12-DEC-97	180	6020
			ALK.	148.	ppm CaCO3	DC	05-DEC-97	14	310.1
			AS(D)	.007	ppm	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	12-DEC-97	180	6020
			CA	173.	ppm	JT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	564.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	4020	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	.74	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JT	24-NOV-97	180	6010
			HCO3	148.	ppm CaCO3	DC	05-DEC-97	14	310.1
			HG(D)	<.20	ppb	BD	20-NOV-97		245.1
			K	30.	ppm	JT	24-NOV-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972777

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972777-6	17-NOV-97	EPRI-9711-155	MG	95.	ppm	JT	24-NOV-97	180	6010
			MN(D)	.015	ppm	JT	24-NOV-97	180	6010
			NA	857.	ppm	JT	24-NOV-97	180	6010
			NO2/NO3	.073	ppm	LV	08-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	8.0	pH	DC	05-DEC-97		150.1
			SE(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			SO4=	1206.	ppm	LV	12-DEC-97	28	9036
			TDS	2899.	ppm	BK	20-NOV-97	7	160.1
			TSS	6.6	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971767

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971767-1		Matrix Spike	AG(D)	93	% RECOVERY	KPB	12-DEC-97		6020
			AS(D)	109	% RECOVERY	KPB	05-DEC-97		6020
			BA(D)	105	% RECOVERY	KPB	12-DEC-97		6020
			CA	SR>4xSA	% RECOVERY	JT	24-NOV-97		6010
			CD(D)	102	% RECOVERY	KPB	05-DEC-97		6020
			CL-	103	% RECOVERY	LV	12-DEC-97		325.2
			CR(D)	99	% RECOVERY	KPB	05-DEC-97		6020
			CU(D)	91	% RECOVERY	KPB	05-DEC-97		6020
			F-	100	% RECOVERY	LV	05-DEC-97		340.2
			FE(D)	102	% RECOVERY	JT	24-NOV-97		6010
			HG(D)	90	% RECOVERY	BD	20-NOV-97		245.1
			K	117	% RECOVERY	JT	24-NOV-97		6010
			MG	SR>4xSA	% RECOVERY	JT	24-NOV-97		6010
			MN(D)	96	% RECOVERY	JT	24-NOV-97		6010
			NA	SR>4xSA	% RECOVERY	JT	24-NOV-97		6010
			NO2/NO3	102	% RECOVERY	LV	08-DEC-97		353.2
			PB(D)	98	% RECOVERY	KPB	05-DEC-97		6020
			SE(D)	115	% RECOVERY	KPB	05-DEC-97		6020
			SO4=	112	% RECOVERY	LV	12-DEC-97		9036
			ZN(D)	100	% RECOVERY	KPB	05-DEC-97		6020
WG971767-2		Prep Blank	AG(D)	<.0003	ppm	KPB	12-DEC-97		6020
			ALK.	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			AS(D)	<.005	ppm	KPB	05-DEC-97		6020
			BA(D)	<.10	ppm	KPB	12-DEC-97		6020
			CA	<1.0	ppm	JT	24-NOV-97		6010
			CD(D)	<.005	ppm	KPB	05-DEC-97		6020
			CL-	<1.0	ppm	LV	12-DEC-97		325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	<5	umhos	BD	24-NOV-97		120.1
			CR(D)	<.005	ppm	KPB	05-DEC-97		6020
			CU(D)	<.025	ppm	KPB	05-DEC-97		6020
			F-	<.050	ppm	LV	05-DEC-97		340.2
			FE(D)	<.10	ppm	JT	24-NOV-97		6010
			HCO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			HG(D)	<.20	ppb	BD	20-NOV-97		245.1
			K	<2.0	ppm	JT	24-NOV-97		6010
			MG	<1.0	ppm	JT	24-NOV-97		6010
			MN(D)	<.010	ppm	JT	24-NOV-97		6010

ASARCO TECH SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971767

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971767-2		Prep Blank	NA	<2.0	ppm	JT	24-NOV-97		6010
			NO2/NO3	<.050	ppm	LV	08-DEC-97		353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97		6020
			SE(D)	<.005	ppm	KPB	05-DEC-97		6020
			SO4=	<2.0	ppm	LV	12-DEC-97		9036
			TDS	<10.	ppm	BK	20-NOV-97		160.1
			TSS	<1.0	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97		6020
WG971767-3		Laboratory Control	AG(D)	103	% RECOVERY	KPB	12-DEC-97		6020
			ALK.	103	% RECOVERY	DC	05-DEC-97		310.1
			AS(D)	103	% RECOVERY	KPB	05-DEC-97		6020
			BA(D)	98	% RECOVERY	KPB	12-DEC-97		6020
			CA	100	% RECOVERY	JT	24-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	05-DEC-97		6020
			CL-	95	% RECOVERY	LV	12-DEC-97		325.2
			COND.	99	% RECOVERY	BD	24-NOV-97		120.1
			CR(D)	98	% RECOVERY	KPB	05-DEC-97		6020
			CU(D)	103	% RECOVERY	KPB	05-DEC-97		6020
			F-	94	% RECOVERY	LV	05-DEC-97		340.2
			FE(D)	94	% RECOVERY	JT	24-NOV-97		6010
			HCO3	103	% RECOVERY	DC	05-DEC-97		310.1
			HG(D)	90	% RECOVERY	BD	20-NOV-97		245.1
			K	94	% RECOVERY	JT	24-NOV-97		6010
			MG	96	% RECOVERY	JT	24-NOV-97		6010
			MN(D)	98	% RECOVERY	JT	24-NOV-97		6010
			NA	98	% RECOVERY	JT	24-NOV-97		6010
			NO2/NO3	98	% RECOVERY	LV	08-DEC-97		353.2
			PB(D)	103	% RECOVERY	KPB	05-DEC-97		6020
			SE(D)	103	% RECOVERY	KPB	05-DEC-97		6020
			SO4=	112	% RECOVERY	LV	12-DEC-97		9036
			TDS	100	% RECOVERY	BK	20-NOV-97		160.1
			TSS	94	% RECOVERY	BK	20-NOV-97		160.2
			ZN(D)	103	% RECOVERY	KPB	05-DEC-97		6020
WG971767-4		Duplicate	AG(D)	<1	% RPD	KPB	12-DEC-97		6020
			ALK.	4.7	% RPD	DC	05-DEC-97		310.1
			AS(D)	<1	% RPD	KPB	05-DEC-97		6020
			BA(D)	<1	% RPD	KPB	12-DEC-97		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971767

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971767-4		Duplicate	CA	<1	% RPD	JT	24-NOV-97		6010
			CD(D)	<1	% RPD	KPB	05-DEC-97		6020
			CL-	<1	% RPD	LV	12-DEC-97		325.2
			CO3	<1	% RPD	DC	05-DEC-97		310.1
			COND.	<1	% RPD	BD	24-NOV-97		120.1
			CR(D)	<1	% RPD	KPB	05-DEC-97		6020
			CU(D)	<1	% RPD	KPB	05-DEC-97		6020
			F-	1.7	% RPD	LV	05-DEC-97		340.2
			FE(D)	<1	% RPD	JT	24-NOV-97		6010
			HCO3	4.7	% RPD	DC	05-DEC-97		310.1
			HG(D)	+/-crdl	% RPD	BD	20-NOV-97		245.1
			K	11	% RPD	JT	24-NOV-97		6010
			MG	<1	% RPD	JT	24-NOV-97		6010
			MN(D)	2.1	% RPD	JT	24-NOV-97		6010
			NA	<1	% RPD	JT	24-NOV-97		6010
			NO2/NO3	4.0	% RPD	LV	08-DEC-97		353.2
			PB(D)	<1	% RPD	KPB	05-DEC-97		6020
			SE(D)	<1	% RPD	KPB	05-DEC-97		6020
			SO4=	6.4	% RPD	LV	12-DEC-97		9036
			TDS	<1	% RPD	BK	20-NOV-97		160.1
			TSS	5.4	% RPD	BK	20-NOV-97		160.2
			ZN(D)	<1	% RPD	KPB	05-DEC-97		6020
WG971767-5		Detection Limit	AG(D)	.0003	ppm				6020
			ALK.	1.0	ppm CaCO3				310.1
			AS(D)	.005	ppm				6020
			BA(D)	.10	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.005	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			HG(D)	.20	ppb				245.1
			K	2.0	ppm				6010

ASARCO TECHN. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971767

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971767-5		Detection Limit	MG	1.0	ppm				6010
			MN(D)	.010	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

Reviewer

Hydrotechnics, Inc.
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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734-
PROJECT NAME: ASARCO - EL PASO, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11-17-97	900			EPRI-9711-159	3	X	X	X													
11-17-97	930			EPRI-9711-160	3	X	X	X													
11-17-97	1020			EPRI-9711-161	3	X	X	X													
11-17-97	1050			EPRI-9711-158	3	X	X	X													
11-17-97	1145			EPRI-9711-156	3	X	X	X													
11-17-97	1215			EPRI-9711-155	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	11/18/97 0900		TSC - SALT LAKE City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks: Note: Parameters on these samples are different than previous samples		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 11-19-97 9:30	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	

Split Samples: ☐ Accepted ☐ Declined ____ Signature

HFORM 95

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

ASARCO

H_2O Samples
FAll 1997
See Analytical Review
Red.

December 18, 1997

RECEIVED
DEC 29 1997
HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for twenty water samples collected November 17 through November 19, 1997. The samples were received by the laboratory on November 20, 1997.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: GRStanga (w/attach.)
Claire Bridge "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-1	17-NOV-97	EPRI-9711-145	AS(D)	.018	ppm	KPB	05-DEC-97	180	6020
			CA	226.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	356.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	5100	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	1.3	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	444.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	19.	ppm	JJT	24-NOV-97	180	6010
			MG	85.	ppm	JJT	24-NOV-97	180	6010
			NA	1052.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	5.0	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.9	pH	DC	05-DEC-97		150.1
			SE(D)	.041	ppm	KPB	05-DEC-97	180	6020
			SO4=	2004.	ppm	LV	15-DEC-97	28	9036
			TDS	4029.	ppm	BK	20-NOV-97	7	160.1
			TSS	127.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-2	17-NOV-97	EPRI-9711-150	AS(D)	3.2	ppm	KPB	05-DEC-97	180	6020
			CA	67.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	143.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	2300	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	3.8	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	296.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	26.	ppm	JJT	24-NOV-97	180	6010
			MG	32.	ppm	JJT	24-NOV-97	180	6010
			NA	401.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	5.8	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020

ASARCO TECHNI SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-2	17-NOV-97	EPRI-9711-150	PH	8.0	pH	DC	05-DEC-97		150.1
			SE(D)	.19	ppm	KPB	05-DEC-97	180	6020
			SO4=	680.	ppm	LV	15-DEC-97	28	9036
			TDS	1622.	ppm	BK	20-NOV-97	7	160.1
			TSS	1.1	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-3	17-NOV-97	EPRI-9711-146	AS(D)	.19	ppm	KPB	05-DEC-97	180	6020
			CA	150.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	102.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	2390	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	1.2	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	438.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	14.	ppm	JJT	24-NOV-97	180	6010
			MG	79.	ppm	JJT	24-NOV-97	180	6010
			NA	311.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	8.2	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.8	pH	DC	05-DEC-97		150.1
			SE(D)	.21	ppm	KPB	05-DEC-97	180	6020
			SO4=	748.	ppm	LV	15-DEC-97	28	9036
			TDS	1809.	ppm	BK	20-NOV-97	7	160.1
			TSS	11.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.025	ppm	KPB	05-DEC-97	180	6020
L972784-4	18-NOV-97	EPRI-9711-151	AS(D)	.007	ppm	KPB	05-DEC-97	180	6020
			CA	42.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	291.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	2650	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	2.7	ppm	LV	05-DEC-97	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-4	18-NOV-97	EPRI-9711-151	FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	340.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	10.	ppm	JJT	24-NOV-97	180	6010
			MG	32.	ppm	JJT	24-NOV-97	180	6010
			NA	519.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	5.9	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	8.3	pH	DC	05-DEC-97		150.1
			SE(D)	.038	ppm	KPB	05-DEC-97	180	6020
			SO4=	664.	ppm	LV	15-DEC-97	28	9036
			TDS	1758.	ppm	BK	20-NOV-97	7	160.1
			TSS	182.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-5	18-NOV-97	EPRI-9711-144	AS(D)	.010	ppm	KPB	05-DEC-97	180	6020
			CA	58.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	432.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	4900	umhos	BD	24-NOV-97	28	120.1
			CR(D)	.012	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	3.7	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	372.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	12.	ppm	JJT	24-NOV-97	180	6010
			MG	71.	ppm	JJT	24-NOV-97	180	6010
			NA	1153.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	10.	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	8.2	pH	DC	05-DEC-97		150.1
			SE(D)	.19	ppm	KPB	05-DEC-97	180	6020
			SO4=	1802.	ppm	LV	15-DEC-97	28	9036
			TDS	3560.	ppm	BK	20-NOV-97	7	160.1
			TSS	89.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-6	18-NOV-97	EPRI-9711-143	AS(D)	5.6	ppm	KPB	05-DEC-97	180	6020
			CA	43.	ppm	JJT	24-NOV-97	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-6	18-NOV-97	EPRI-9711-143	CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	179.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	2310	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	4.8	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	242.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	46.	ppm	JJT	24-NOV-97	180	6010
			MG	24.	ppm	JJT	24-NOV-97	180	6010
			NA	380.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	9.2	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.9	pH	DC	05-DEC-97		150.1
			SE(D)	.24	ppm	KPB	05-DEC-97	180	6020
			SO4=	674.	ppm	LV	15-DEC-97	28	9036
			TDS	1437.	ppm	BK	20-NOV-97	7	160.1
			TSS	5.9	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-7	18-NOV-97	EPRI-9711-179	AS(D)	5.6	ppm	KPB	05-DEC-97	180	6020
			CA	44.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	179.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	2320	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	4.9	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	245.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	46.	ppm	JJT	24-NOV-97	180	6010
			MG	24.	ppm	JJT	24-NOV-97	180	6010
			NA	381.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	8.7	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.9	pH	DC	05-DEC-97		150.1
			SE(D)	.24	ppm	KPB	05-DEC-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-7	18-NOV-97	EPRI-9711-179	SO4=	654.	ppm	LV	15-DEC-97	28	9036
			TDS	1484.	ppm	BK	20-NOV-97	7	160.1
			TSS	3.8	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-8	18-NOV-97	EPRI-9711-147	AS(D)	.011	ppm	KPB	05-DEC-97	180	6020
			CA	91.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	361.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	3250	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	2.7	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	416.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	17.	ppm	JJT	24-NOV-97	180	6010
			MG	48.	ppm	JJT	24-NOV-97	180	6010
			NA	613.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	6.4	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	8.0	pH	DC	05-DEC-97		150.1
			SE(D)	.21	ppm	KPB	05-DEC-97	180	6020
			SO4=	865.	ppm	LV	15-DEC-97	28	9036
			TDS	2274.	ppm	BK	20-NOV-97	7	160.1
			TSS	36.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-9	18-NOV-97	EPRI-9711-149	AS(D)	.041	ppm	KPB	05-DEC-97	180	6020
			CA	201.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	.007	ppm	KPB	05-DEC-97	180	6020
			CL-	326.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	2650	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	.77	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	233.	ppm CaCO3	DC	05-DEC-97	14	310.1

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Batch No: L972784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-9	18-NOV-97	EPRI-9711-149	K	13.	ppm	JJT	24-NOV-97	180	6010
			MG	96.	ppm	JJT	24-NOV-97	180	6010
			NA	264.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	7.2	ppm	LV	15-DEC-97	28	353.2
			PB(D)	.010	ppm	KPB	05-DEC-97	180	6020
			PH	8.1	pH	DC	05-DEC-97		150.1
			SE(D)	.031	ppm	KPB	05-DEC-97	180	6020
			SO4=	826.	ppm	LV	15-DEC-97	28	9036
			TDS	1979.	ppm	BK	20-NOV-97	7	160.1
			TSS	31.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.035	ppm	KPB	05-DEC-97	180	6020
L972784-10	18-NOV-97	EPRI-9711-152	AS(D)	.033	ppm	KPB	05-DEC-97	180	6020
			CA	66.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	12.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	560	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	.59	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	237.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	<2.0	ppm	JJT	24-NOV-97	180	6010
			MG	24.	ppm	JJT	24-NOV-97	180	6010
			NA	16.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	2.2	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	8.2	pH	DC	05-DEC-97		150.1
			SE(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			SO4=	39.	ppm	LV	15-DEC-97	28	9036
			TDS	361.	ppm	BK	20-NOV-97	7	160.1
			TSS	<1.0	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-11	18-NOV-97	EPRI-9711-148	AS(D)	.005	ppm	KPB	05-DEC-97	180	6020
			CA	76.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	399.	ppm	LV	12-DEC-97	28	325.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-11	18-NOV-97	EPRI-9711-148	CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	3940	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	2.8	ppm	LV	05-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	340.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	13.	ppm	JJT	24-NOV-97	180	6010
			MG	68.	ppm	JJT	24-NOV-97	180	6010
			NA	799.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	6.5	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	8.2	pH	DC	05-DEC-97		150.1
			SE(D)	.037	ppm	KPB	05-DEC-97	180	6020
			SO4=	1192.	ppm	LV	15-DEC-97	28	9036
			TDS	2741.	ppm	BK	20-NOV-97	7	160.1
			TSS	112.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-12	18-NOV-97	EPRI-9711-180	AS(D)	.014	ppm	KPB	05-DEC-97	180	6020
			CA	30.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	113.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	879	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	.73	ppm	LV	15-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	76.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	5.8	ppm	JJT	24-NOV-97	180	6010
			MG	2.2	ppm	JJT	24-NOV-97	180	6010
			NA	135.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	8.2	pH	DC	05-DEC-97		150.1
			SE(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			SO4=	201.	ppm	LV	15-DEC-97	28	9036
			TDS	531.	ppm	BK	20-NOV-97	7	160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-12	18-NOV-97	EPRI-9711-180	TSS	3.8	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-13	18-NOV-97	EPRI-9711-110	AS(D)	.044	ppm	KPB	05-DEC-97	180	6020
			CA	350.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	1368.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	9980	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	4.2	ppm	LV	15-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	327.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	116.	ppm	JJT	24-NOV-97	180	6010
			MG	164.	ppm	JJT	24-NOV-97	180	6010
			NA	1942.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	158.	ppm	LV	15-DEC-97	28	353.2
			PB(D)	.006	ppm	KPB	05-DEC-97	180	6020
			PH	7.4	pH	DC	05-DEC-97		150.1
			SE(D)	.11	ppm	KPB	05-DEC-97	180	6020
			SO4=	3341.	ppm	LV	15-DEC-97	28	9036
			TDS	2860.	ppm	BK	20-NOV-97	7	160.1
			TSS	9.0	ppm	BK	20-NOV-97		160.2
			ZN(D)	.91	ppm	KPB	05-DEC-97	180	6020
L972784-14	18-NOV-97	EPRI-9711-109	AS(D)	.067	ppm	KPB	05-DEC-97	180	6020
			CA	85.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	826.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	6260	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	5.4	ppm	LV	15-DEC-97	28	340.2
			FE(D)	.39	ppm	JJT	24-NOV-97	180	6010
			HCO3	1238.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	450.	ppm	JJT	24-NOV-97	180	6010
			MG	49.	ppm	JJT	24-NOV-97	180	6010

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L972784-14	18-NOV-97	EPRI-9711-109	NA	1032.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.8	pH	DC	05-DEC-97		150.1
			SE(D)	.073	ppm	KPB	05-DEC-97	180	6020
			SO4=	1258.	ppm	LV	15-DEC-97	28	9036
			TDS	3282.	ppm	BK	20-NOV-97	7	160.1
			TSS	320.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.031	ppm	KPB	05-DEC-97	180	6020
L972784-15	18-NOV-97	EPRI-9711-112	AS(D)	.071	ppm	KPB	05-DEC-97	180	6020
			CA	393.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	1003.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	5940	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	3.1	ppm	LV	15-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			HCO3	850.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	53.	ppm	JJT	24-NOV-97	180	6010
			MG	56.	ppm	JJT	24-NOV-97	180	6010
			NA	1030.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	7.7	pH	DC	05-DEC-97		150.1
			SE(D)	.079	ppm	KPB	05-DEC-97	180	6020
			SO4=	1338.	ppm	LV	15-DEC-97	28	9036
			TDS	4168.	ppm	BK	20-NOV-97	7	160.1
			TSS	8.0	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
L972784-16	19-NOV-97	EPRI-9711-117	AS(D)	207.	ppm	JJT	24-NOV-97	180	6010
			CA	493.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	43.	ppm	JJT	24-NOV-97	180	6010
			CL-	867.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	11740	umhos	BD	24-NOV-97	28	120.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-16	19-NOV-97	EPRI-9711-117	CR(D)	.24	ppm	JJT	24-NOV-97	180	6010
			CU(D)	5.1	ppm	JJT	24-NOV-97	180	6010
			F-	33.	ppm	LV	15-DEC-97	28	340.2
			FE(D)	1732.	ppm	JJT	24-NOV-97	180	6010
			HCO3	<1.0	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	182.	ppm	JJT	24-NOV-97	180	6010
			MG	303.	ppm	JJT	24-NOV-97	180	6010
			NA	869.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	<.20*	ppm	LV	15-DEC-97	28	353.2
			PB(D)	.11	ppm	JJT	24-NOV-97	180	6010
			PH	3.5	pH	DC	05-DEC-97		150.1
			SE(D)	.11	ppm	JJT	24-NOV-97	180	6010
			SO4=	9515.	ppm	LV	15-DEC-97	28	9036
			TDS	17185.	ppm	BK	20-NOV-97	7	160.1
			TSS	465.	ppm	BK	20-NOV-97		160.2
			ZN(D)	579.	ppm	JJT	24-NOV-97	180	6010
L972784-17	19-NOV-97	EPRI-9711-120	AS(D)	59.	ppm	JJT	24-NOV-97	180	6010
			CA	521.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	.043	ppm	KPB	05-DEC-97	180	6020
			CL-	998.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	10480	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	24.	ppm	LV	15-DEC-97	28	340.2
			FE(D)	130.	ppm	JJT	24-NOV-97	180	6010
			HCO3	900.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	211.	ppm	JJT	24-NOV-97	180	6010
			MG	334.	ppm	JJT	24-NOV-97	180	6010
			NA	1830.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PH	6.9	pH	DC	05-DEC-97		150.1
			SE(D)	.24	ppm	KPB	05-DEC-97	180	6020
			SO4=	5186.	ppm	LV	15-DEC-97	28	9036
			TDS	7450.	ppm	BK	20-NOV-97	7	160.1
			TSS	516.	ppm	BK	20-NOV-97		160.2
			ZN(D)	82.	ppm	JJT	24-NOV-97	180	6010

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L972784-18	19-NOV-97	EPRI-9711-113	AS(D)	3.5	ppm	KPB	05-DEC-97	180	6020
			CA	74.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CL-	965.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	5470	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			F-	1.7	ppm	LV	15-DEC-97	28	340.2
			FE(D)	4.8	ppm	JJT	24-NOV-97	180	6010
			HCO3	1275.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	59.	ppm	JJT	24-NOV-97	180	6010
			MG	33.	ppm	JJT	24-NOV-97	180	6010
			NA	1136.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	15-DEC-97	28	353.2
			PB(D)	.011	ppm	KPB	05-DEC-97	180	6020
			PH	7.8	pH	DC	05-DEC-97		150.1
			SE(D)	.079	ppm	KPB	05-DEC-97	180	6020
			SO4=	304.	ppm	LV	15-DEC-97	28	9036
			TDS	912.	ppm	BK	20-NOV-97	7	160.1
			TSS	43.	ppm	BK	20-NOV-97		160.2
			ZN(D)	.037	ppm	KPB	05-DEC-97	180	6020
L972784-19	19-NOV-97	EPRI-9711-165	AS(D)	.81	ppm	KPB	05-DEC-97	180	6020
			AS(TR)	1.6	ppm	KPB	08-DEC-97	180	6020M
			CA	225.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	.008	ppm	KPB	05-DEC-97	180	6020
			CD(TR)	.019	ppm	KPB	08-DEC-97	180	6020M
			CL-	597.	ppm	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	5250	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	10-DEC-97		6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			CU(TR)	.043	ppm	KPB	08-DEC-97	180	6020M
			F-	2.1	ppm	LV	15-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			FE(TR)	<.10	ppm	JJT	12-DEC-97	180	6010
			HCO3	196.	ppm CaCO3	DC	05-DEC-97	14	310.1

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L972784-19	19-NOV-97	EPRI-9711-165	K	53.	ppm	JJT	24-NOV-97	180	6010
			MG	94.	ppm	JJT	24-NOV-97	180	6010
			NA	943.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	12.	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PB(TR)	.015	ppm	KPB	08-DEC-97	180	6020M
			PH	7.6	pH	DC	05-DEC-97		150.1
			SE(D)	.20	ppm	KPB	05-DEC-97	180	6020
			SE(TR)	.36	ppm	KPB	08-DEC-97		6020M
			SO4=	1839.	ppm	LV	15-DEC-97	28	9036
			TDS	3954.	ppm	BK	20-NOV-97	7	160.1
			TSS	14.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
			ZN(TR)	.041	ppm	KPB	08-DEC-97	180	6020M
L972784-20	19-NOV-97	EPRI-9711-181	AS(D)	.007	ppm	KPB	17-DEC-97	180	6020
			AS(TR)	.015	ppm	KPB	08-DEC-97	180	6020M
			CA	103.	ppm	JJT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	05-DEC-97	180	6020
			CD(TR)	<.005	ppm	KPB	08-DEC-97	180	6020M
			CL-	255.	ppm	LV	12-DEC-97	28	325.2
			CO3	20.	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	1970	umhos	BD	24-NOV-97	28	120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97	180	6010
			CR(TR)	<.010	ppm	JJT	10-DEC-97		6010
			CU(D)	<.025	ppm	KPB	05-DEC-97	180	6020
			CU(TR)	<.025	ppm	KPB	08-DEC-97	180	6020M
			F-	.82	ppm	LV	15-DEC-97	28	340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97	180	6010
			FE(TR)	.25	ppm	JJT	10-DEC-97	180	6010
			HCO3	228.	ppm CaCO3	DC	05-DEC-97	14	310.1
			K	13.	ppm	JJT	24-NOV-97	180	6010
			MG	25.	ppm	JJT	24-NOV-97	180	6010
			NA	278.	ppm	JJT	24-NOV-97	180	6010
			NO2/NO3	3.0	ppm	LV	15-DEC-97	28	353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97	180	6020
			PB(TR)	.013	ppm	KPB	08-DEC-97	180	6020M
			PH	8.5	pH	DC	05-DEC-97		150.1
			SE(D)	<.005	ppm	KPB	05-DEC-97	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972784

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972784-20	19-NOV-97	EPRI-9711-181	SE(TR)	.006	ppm	KPB	08-DEC-97		6020M
			SO4=	436.	ppm	LV	15-DEC-97	28	9036
			TDS	1337.	ppm	BK	20-NOV-97	7	160.1
			TSS	16.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
			ZN(TR)	.023	ppm	KPB	08-DEC-97	180	6020M

* = Raised detection limit due to matrix interference.

Vince Keller
Approved

Vince Keller
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971768

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971768-1		Matrix Spike	AS(D)	107	% RECOVERY	KPB	05-DEC-97		6020
			AS(TR)	102	% RECOVERY	KPB	08-DEC-97		6020M
			CA	SR>4xSA	% RECOVERY	JJT	24-NOV-97		6010
			CD(D)	94	% RECOVERY	KPB	05-DEC-97		6020
			CD(TR)	100	% RECOVERY	KPB	08-DEC-97		6020M
			CL-	104	% RECOVERY	LV	12-DEC-97		325.2
			CR(D)	97	% RECOVERY	JJT	24-NOV-97		6010
			CR(TR)	109	% RECOVERY	JJT	10-DEC-97		6010
			CU(D)	86	% RECOVERY	KPB	05-DEC-97		6020
			CU(TR)	91	% RECOVERY	KPB	08-DEC-97		6020M
			F-	96	% RECOVERY	LV	15-DEC-97		340.2
			FE(D)	SR>4xSA	% RECOVERY	JJT	24-NOV-97		6010
			FE(TR)	100	% RECOVERY	JJT	10-DEC-97		6010
			K	121	% RECOVERY	JJT	24-NOV-97		6010
			MG	SR>4xSA	% RECOVERY	JJT	24-NOV-97		6010
			NA	SR>4xSA	% RECOVERY	JJT	24-NOV-97		6010
			NO2/NO3	93	% RECOVERY	LV	15-DEC-97		353.2
			PB(D)	89	% RECOVERY	KPB	05-DEC-97		6020
			PB(TR)	99	% RECOVERY	KPB	08-DEC-97		6020M
			SE(D)	112	% RECOVERY	KPB	05-DEC-97		6020
			SE(TR)	102	% RECOVERY	KPB	08-DEC-97		6020M
			SO4=	102	% RECOVERY	LV	15-DEC-97		9036
			ZN(D)	98	% RECOVERY	KPB	05-DEC-97		6020
			ZN(TR)	89	% RECOVERY	KPB	08-DEC-97		6020M
WG971768-2		Prep Blank	AS(D)	<.005	ppm	KPB	05-DEC-97		6020
			AS(TR)	<.005	ppm	KPB	08-DEC-97		6020M
			CA	<1.0	ppm	JJT	24-NOV-97		6010
			CD(D)	<.005	ppm	KPB	05-DEC-97		6020
			CD(TR)	<.005	ppm	KPB	08-DEC-97		6020M
			CL-	<1.0	ppm	LV	12-DEC-97		325.2
			CO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			COND.	<5	umhos	BD	24-NOV-97		120.1
			CR(D)	<.010	ppm	JJT	24-NOV-97		6010
			CR(TR)	<.010	ppm	JJT	10-DEC-97		6010
			CU(D)	<.025	ppm	KPB	05-DEC-97		6020
			CU(TR)	<.025	ppm	KPB	08-DEC-97		6020M
			F-	<.050	ppm	LV	15-DEC-97		340.2
			FE(D)	<.10	ppm	JJT	24-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971768

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971768-2		Prep Blank	FE(TR)	<.10	ppm	JJT	10-DEC-97		6010
			HCO3	<1.0	ppm CaCO3	DC	05-DEC-97		310.1
			K	<2.0	ppm	JJT	24-NOV-97		6010
			MG	<1.0	ppm	JJT	24-NOV-97		6010
			NA	<2.0	ppm	JJT	24-NOV-97		6010
			NO2/NO3	<.050	ppm	LV	15-DEC-97		353.2
			PB(D)	<.003	ppm	KPB	05-DEC-97		6020
			PB(TR)	<.003	ppm	KPB	08-DEC-97		6020M
			SE(D)	<.005	ppm	KPB	05-DEC-97		6020
			SE(TR)	<.005	ppm	KPB	08-DEC-97		6020M
			SO4=	<2.0	ppm	LV	15-DEC-97		9036
			TDS	<10.	ppm	BK	20-NOV-97		160.1
			TSS	<1.0	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97		6020
			ZN(TR)	<.020	ppm	KPB	08-DEC-97		6020M
WG971768-3		Laboratory Control	AS(D)	103	% RECOVERY	KPB	05-DEC-97		6020
			AS(TR)	104	% RECOVERY	KPB	08-DEC-97		6020M
			CA	102	% RECOVERY	JJT	24-NOV-97		6010
			CD(D)	103	% RECOVERY	KPB	05-DEC-97		6020
			CD(TR)	108	% RECOVERY	KPB	08-DEC-97		6020M
			CL-	98	% RECOVERY	LV	12-DEC-97		325.2
			COND.	99	% RECOVERY	BD	24-NOV-97		120.1
			CR(D)	102	% RECOVERY	JJT	24-NOV-97		6010
			CR(TR)	105	% RECOVERY	JJT	10-DEC-97		6010
			CU(D)	105	% RECOVERY	KPB	05-DEC-97		6020
			CU(TR)	102	% RECOVERY	KPB	08-DEC-97		6020M
			F-	97	% RECOVERY	LV	15-DEC-97		340.2
			FE(D)	98	% RECOVERY	JJT	24-NOV-97		6010
			FE(TR)	105	% RECOVERY	JJT	10-DEC-97		6010
			HCO3	103	% RECOVERY	DC	05-DEC-97		310.1
			K	95	% RECOVERY	JJT	24-NOV-97		6010
			MG	101	% RECOVERY	JJT	24-NOV-97		6010
			NA	101	% RECOVERY	JJT	24-NOV-97		6010
			NO2/NO3	100	% RECOVERY	LV	15-DEC-97		353.2
			PB(D)	105	% RECOVERY	KPB	05-DEC-97		6020
			PB(TR)	104	% RECOVERY	KPB	08-DEC-97		6020M
			SE(D)	105	% RECOVERY	KPB	05-DEC-97		6020
			SE(TR)	104	% RECOVERY	KPB	08-DEC-97		6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971768

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971768-3		Laboratory Control	SO4=	109	% RECOVERY	LV	15-DEC-97		9036
			TDS	97	% RECOVERY	BK	20-NOV-97		160.1
			TSS	92	% RECOVERY	BK	20-NOV-97		160.2
			ZN(D)	105	% RECOVERY	KPB	05-DEC-97		6020
			ZN(TR)	103	% RECOVERY	KPB	08-DEC-97		6020M
WG971768-4		Duplicate	AS(D)	2.5	% RPD	KPB	05-DEC-97		6020
			AS(TR)	<1	% RPD	KPB	08-DEC-97		6020M
			CA	<1	% RPD	JJT	24-NOV-97		6010
			CD(D)	<1	% RPD	KPB	05-DEC-97		6020
			CD(TR)	<1	% RPD	KPB	08-DEC-97		6020M
			CL-	7.1	% RPD	LV	12-DEC-97		325.2
			CO3	<1	% RPD	DC	05-DEC-97		310.1
			COND.	<1	% RPD	BD	24-NOV-97		120.1
			CR(D)	<1	% RPD	JJT	24-NOV-97		6010
			CR(TR)	<1	% RPD	JJT	10-DEC-97		6010
			CU(D)	<1	% RPD	KPB	05-DEC-97		6020
			CU(TR)	7.2	% RPD	KPB	08-DEC-97		6020M
			F-	2.4	% RPD	LV	15-DEC-97		340.2
			FE(D)	<1	% RPD	JJT	24-NOV-97		6010
			FE(TR)	<1	% RPD	JJT	10-DEC-97		6010
			HCO3	2.3	% RPD	DC	05-DEC-97		310.1
			K	8.0	% RPD	JJT	24-NOV-97		6010
			MG	<1	% RPD	JJT	24-NOV-97		6010
			NA	1.1	% RPD	JJT	24-NOV-97		6010
			NO2/NO3	<1	% RPD	LV	15-DEC-97		353.2
			PB(D)	<1	% RPD	KPB	05-DEC-97		6020
			PB(TR)	+/-crdl	% RPD	KPB	08-DEC-97		6020M
			SE(D)	<1	% RPD	KPB	05-DEC-97		6020
			SE(TR)	<1	% RPD	KPB	08-DEC-97		6020M
			SO4=	<1	% RPD	LV	15-DEC-97		9036
			TDS	1.5	% RPD	BK	20-NOV-97		160.1
			TSS	<1	% RPD	BK	20-NOV-97		160.2
			ZN(D)	+/-crdl	% RPD	KPB	05-DEC-97		6020
			ZN(TR)	2.5	% RPD	KPB	08-DEC-97		6020M
WG971768-5		Detection Limit	AS(D)	.005	ppm				6020
			AS(TR)	.005	ppm				6020M
			CA	1.0	ppm				6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971768

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971768-5		Detection Limit	CD(D)	.005	ppm				6020
			CD(TR)	.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6010
			CR(TR)	.010	ppm				6010
			CU(D)	.025	ppm				6020
			CU(TR)	.025	ppm				6020M
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			FE(TR)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			PB(TR)	.003	ppm				6020M
			SE(D)	.005	ppm				6020
			SE(TR)	.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
			ZN(TR)	.020	ppm				6020M

Approved

Reviewer

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 857[illegible] (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.: 0734

PROJECT NAME: ASARCO - El PASO, TX

SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11-17-97	1315			EPRI-9711-145	3	X	X	X													
11-17-97	1350			EPRI-9711-150	3	X	X	X													
11-17-97	1420			EPRI-9711-146	3	X	X	X													
11-18-97	820			EPRI-9711-151	3	X	X	X													
11-18-97	850			EPRI-9711-144	3	X	X	X													
11-18-97	925			EPRI-9711-143	3	X	X	X													
11-18-97	930			EPRI-9711-179	3	X	X	X													
11-18-97	945			EPRI-9711-147	3	X	X	X													
11-18-97	1050			EPRI-9711-149	3	X	X	X													
11-18-97	1115			EPRI-9711-152	3	X	X	X													
11-18-97	1150			EPRI-9711-148	3	X	X	X													
11-18-97	1200			EPRI-9711-180	3	X	X	X													
11-18-97	1445			EPRI-9711-110	3	X	X	X													
11-18-97	1500			EPRI-9711-109	3	X	X	X													
11-18-97	1545			EPRI-9711-112	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	11/19/97 1600		TSC - SALT LAKE City,		Other ____ Air Bill # ____
Relinquished (Signature)	**Date/Time**	**Received by: (Signature)**	**Remarks**		
Relinquished (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**	**Date/Time**		
		[illegible]	11-20-97 9:25		

Enclosed: ☑ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☑ Cover letter
☐ Other ____

Split Samples:
|| Accepted || Declined ____ Signature

HFORM-1-4/95

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

Hydrometrics, 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.: 0734-
PROJECT NAME: ASARCO - EL PASO, TX
SAMPLERS: (Signature) Douglas M. Solar

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
11/19/97	845			EPRI-9711-117	3	X	X	X													
	930			EPRI-9711-120	3	X	X	X													
	1000			EPRI-9711-113	3	X	X	X													
	1245			EPRI-9711-165	4	X	X	X			X										
	1500			EPRI-9711-181	4	X	X	X			X										

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solar	11/19/97 1605		TSC - SALT LAKE CITY, UT		Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
		[illegible]	11.20.97 9:25	☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____

HFORM-1

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

Split Samples:
☐ Accepted ☐ Declined

TABLE 4-8A. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR WATER SAMPLES

Parameter	Method[1]	PDLG[2] Water (mg/L)	Holding Time
WATER MATRIX			
pH	150.1 (field and lab)	--	analyze immediately
SC	120.1 (field and lab)	--	analyze immediately
temperature	field measurement only	--	analyze immediately
TDS	160.1	10	7 days
TSS	160.2	10	7 days
oxygen (Dis)	field measurement only	--	analyze immediately
bicarbonate	310.x	1	14 days
carbonate	310.x	1	14 days
sulfate	375.x	1	28 days
chloride	325.x	1	28 days
fluoride	340.2	0.1	28 days
nitrite/ nitrate	353.2	0.1	28 days
Ca	200.7/215.1/6020, ICP/FAA/ICP-MS	1	6 months
Mg	200.7/242.1/6020, ICP/FAA ICP-MS	1	6 months
Na	200.7/273.1/6020, ICP/FAA ICP-MS	5	6 months
K	200.7/258.1/6020, ICP/FAA ICP-MS	5	6 months
As	200.7/6020/206.2, ICP/ICP-MS/GFAA	0.005	6 months
Cd	200.7/6020/213.2, ICP/ ICP-MS/GFAA	0.005	6 months
Cu	200.7/6020/220.1, ICP/ ICP-MS/FAA	0.025	6 months
Cr	200.7/6020/218.2, ICP/ ICP-MS/FAA	0.01	6 months
Fe	200.7/6020/236.1, ICP/ ICP-MS/FAA	0.1	6 months
Pb	200.7/6020/239.2, ICP/ ICP-MS/GFAA	0.003	6 months
Se	200.7/6020/270.2/270.3/st meth 303A ICP/ ICP-MS/GFAA/HGAA/FAA	0.005	6 months
Zn	200.7/6020/289.2, ICP/ ICP-MS/GFAA	0.02	6 months

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983) and "Test Methods for Evaluating Solid Wastes" (EPA, 1990).

2 Project Detection Limit Goal.

Note: Groundwater samples analyzed for dissolved constituents only. Surface water analyzed for both total recoverable and dissolved metals.

HYDROMETRICS, INC. - EL PASO

PROJECT MEMO

TO: TSC Laboratory - Salt Lake City
FILE

FROM: Lairy Johnson, Doug Solon

DATE: November 1, 1997

SUBJECT: Analysis of Ground Water - 0734-502.100

The samples included are to be analyzed for the parameters on the attached sheet. The samples will follow Standard SW846 sample analysis protocol.

We would like the sample results to be completed and forwarded to our office in 15 work days from time of receipt. Please send the original results with chain-of-custody to us in El Paso and a copy of the results with chain-of-custody to Clare Bridge in Helena.

Please call us upon receipt to verify that the cooler(s) has arrived.

If you have any questions, please call us.

Thanks,

Lairy

ASARCO

January 12, 1998

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for four water samples collected December 12 and December 22, 1997. The samples were received by the laboratory on December 17 and December 23, 1997.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: Claire Bridge (w/attach.)
GRStanga "

RECEIVED
JAN 19 1998
HYDROMETRICS, INC.

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972978

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972978-1	12-DEC-97	EPRI-9711-139	AS(D)	.15	ppm	KPB	06-JAN-98	180	6020
			CA	102.	ppm	JJT	17-DEC-97	180	6010
			CD(D)	<.005	ppm	KPB	06-JAN-98	180	6020
			CL-	281.	ppm	LV	08-JAN-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			COND.	2920	umhos	BD	09-JAN-98	28	120.1
			CR(D)	<.010	ppm	KPB	06-JAN-98	180	6020
			CU(D)	<.025	ppm	KPB	06-JAN-98	180	6020
			F-	.56	ppm	LV	07-JAN-98	28	340.2
			FE(D)	<.10	ppm	JJT	17-DEC-97	180	6010
			HCO3	326.	ppm CaCO3	LV	06-JAN-98	14	310.1
			K	11.	ppm	JJT	17-DEC-97	180	6010
			MG	49.	ppm	JJT	17-DEC-97	180	6010
			NA	588.	ppm	JJT	17-DEC-97	180	6010
			NO2/NO3	10.	ppm	LV	06-JAN-98	28	353.2
			PB(D)	<.003	ppm	KPB	06-JAN-98	180	6020
			PH	8.1	pH	LV	06-JAN-98		150.1
			SE(D)	.69	ppm	KPB	06-JAN-98	180	6020
			SO4=	908.	ppm	LV	22-DEC-97	28	9036
			TDS	2138.	ppm	BK	18-DEC-97	7	160.1
			TSS	1058.	ppm	BK	18-DEC-97		160.2
			ZN(D)	.19	ppm	KPB	06-JAN-98	180	6020

Approved

Reviewer

Hydrometrics, Inc.

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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734

PROJECT NAME: ASARCO - El Paso, TX

SAMPLERS: (Signature)

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
12/12/97	1045			EPRI-9711-139	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	12/15/97 1600		TSL : ASARCO Salt Lake City, UT		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other	
			12.17.97 1:00		

Split Samples:
[] Accepted [] Declined
Signature

HFORM-1-4/95

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

TABLE 4-8A. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR WATER SAMPLES

Parameter	Method[1]	PDLG[2] Water (mg/L)	Holding Time
WATER MATRIX			
pH	150.1 (field and lab)	--	analyze immediately
SC	120.1 (field and lab)	--	analyze immediately
temperature	field measurement only	--	analyze immediately
TDS	160.1	10	7 days
TSS	160.2	10	7 days
oxygen (Dis)	field measurement only	--	analyze immediately
bicarbonate	310.x	1	14 days
carbonate	310.x	1	14 days
sulfate	375.x	1	28 days
chloride	325.x	1	28 days
fluoride	340.2	0.1	28 days
nitrite/ nitrate	353.2	0.1	28 days
Ca	200.7/215.1/6020, ICP/FAA/ICP-MS	1	6 months
Mg	200.7/242.1/6020, ICP/FAA ICP-MS	1	6 months
Na	200.7/273.1/6020, ICP/FAA ICP-MS	5	6 months
K	200.7/258.1/6020, ICP/FAA ICP-MS	5	6 months
As	200.7/6020/206.2, ICP/ICP-MS/GFAA	0.005	6 months
Cd	200.7/6020/213.2, ICP/ ICP-MS/GFAA	0.005	6 months
Cu	200.7/6020/220.1, ICP/ ICP-MS/FAA	0.025	6 months
Cr	200.7/6020/218.2, ICP/ ICP-MS/FAA	0.01	6 months
Fe	200.7/6020/236.1, ICP/ ICP-MS/FAA	0.1	6 months
Pb	200.7/6020/239.2. ICP/ ICP-MS/GFAA	0.003	6 months
Se	200.7/6020/270.2/270.3/st meth 303A ICP/ ICP-MS/GFAA/HGAA/FAA	0.005	6 months
Zn	200.7/6020/289.2. ICP/ ICP-MS/GFAA	0.02	6 months

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983) and "Test Methods for Evaluating Solid Wastes" (EPA, 1990).

2 Project Detection Limit Goal.

Note: Groundwater samples analyzed for dissolved constituents only. Surface water analyzed for both total recoverable and dissolved metals.

12.18.97. D. Solon.
Only what is on the Sheet.
no Hardness,
Alkalinity

HYDROMETRICS, INC. - EL PASO

PROJECT MEMO

TO: TSC Laboratory - Salt Lake City
FILE

FROM: Lairy Johnson, Doug Solon

DATE: November 1, 1997

SUBJECT: Analysis of Ground Water - 0734-502.100

The samples included are to be analyzed for the parameters on the attached sheet. The samples will follow Standard SW846 sample analysis protocol.

We would like the sample results to be completed and forwarded to our office in 15 work days from time of receipt. Please send the original results with chain-of-custody to us in El Paso and a copy of the results with chain-of-custody to Clare Bridge in Helena.

Please call us upon receipt to verify that the cooler(s) has arrived.

If you have any questions, please call us.

Thanks,

Lairy

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980026

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980026-1		Matrix Spike	AS(D)	107	% RECOVERY	KPB	06-JAN-98		6020
			CA	SR>4xSA	% RECOVERY	JJT	17-DEC-97		6010
			CD(D)	109	% RECOVERY	KPB	06-JAN-98		6020
			CL-	106	% RECOVERY	LV	06-JAN-98		325.2
			CR(D)	104	% RECOVERY	KPB	06-JAN-98		6020
			CU(D)	102	% RECOVERY	KPB	06-JAN-98		6020
			F-	96	% RECOVERY	LV	07-JAN-98		340.2
			FE(D)	103	% RECOVERY	JJT	17-DEC-97		6010
			K	120	% RECOVERY	JJT	17-DEC-97		6010
			MG	SR>4xSA	% RECOVERY	JJT	17-DEC-97		6010
			NA	SR>4xSA	% RECOVERY	JJT	17-DEC-97		6010
			NO2/NO3	93	% RECOVERY	LV	06-JAN-98		353.2
			PB(D)	101	% RECOVERY	KPB	06-JAN-98		6020
			SE(D)	106	% RECOVERY	KPB	06-JAN-98		6020
			SO4=	104	% RECOVERY	LV	22-DEC-97		9036
			ZN(D)	113	% RECOVERY	KPB	06-JAN-98		6020
WG980026-2		Prep Blank	AS(D)	<.005	ppm	KPB	06-JAN-98		6020
			CA	<1.0	ppm	JJT	17-DEC-97		6010
			CD(D)	<.005	ppm	KPB	06-JAN-98		6020
			CL-	<1.0	ppm	LV	08-JAN-98		325.2
			CO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			COND.	<5	umhos	BD	09-JAN-98		120.1
			CR(D)	<.010	ppm	KPB	06-JAN-98		6020
			CU(D)	<.025	ppm	KPB	06-JAN-98		6020
			F-	<.050	ppm	LV	07-JAN-98		340.2
			FE(D)	<.10	ppm	JJT	17-DEC-97		6010
			HCO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			K	<2.0	ppm	JJT	17-DEC-97		6010
			MG	<1.0	ppm	JJT	17-DEC-97		6010
			NA	<2.0	ppm	JJT	17-DEC-97		6010
			NO2/NO3	<.050	ppm	LV	06-JAN-98		353.2
			PB(D)	<.003	ppm	KPB	06-JAN-98		6020
			SE(D)	<.005	ppm	KPB	06-JAN-98		6020
			SO4=	<2.0	ppm	LV	22-DEC-97		9036
			TDS	<10.	ppm	BK	18-DEC-97		160.1
			TSS	<1.0	ppm	BK	18-DEC-97		160.2
			ZN(D)	<.020	ppm	KPB	06-JAN-98		6020

ASARCO ICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980026

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980026-3		Laboratory Control	AS(D)	98	% RECOVERY	KPB	06-JAN-98		6020
			CA	104	% RECOVERY	JJT	17-DEC-97		6010
			CD(D)	100	% RECOVERY	KPB	06-JAN-98		6020
			CL-	104	% RECOVERY	LV	08-JAN-98		325.2
			COND.	99	% RECOVERY	BD	09-JAN-98		120.1
			CR(D)	95	% RECOVERY	KPB	06-JAN-98		6020
			CU(D)	103	% RECOVERY	KPB	06-JAN-98		6020
			F-	86	% RECOVERY	LV	07-JAN-98		340.2
			FE(D)	98	% RECOVERY	JJT	17-DEC-97		6010
			HCO3	102	% RECOVERY	LV	06-JAN-98		310.1
			K	95	% RECOVERY	JJT	17-DEC-97		6010
			MG	98	% RECOVERY	JJT	17-DEC-97		6010
			NA	105	% RECOVERY	JJT	17-DEC-97		6010
			NO2/NO3	101	% RECOVERY	LV	06-JAN-98		353.2
			PB(D)	98	% RECOVERY	KPB	06-JAN-98		6020
			SE(D)	98	% RECOVERY	KPB	06-JAN-98		6020
			SO4=	108	% RECOVERY	LV	22-DEC-97		9036
			TDS	107	% RECOVERY	BK	18-DEC-97		160.1
			TSS	89	% RECOVERY	BK	18-DEC-97		160.2
			ZN(D)	98	% RECOVERY	KPB	06-JAN-98		6020
WG980026-4		Duplicate	AS(D)	6.9	% RPD	KPB	06-JAN-98		6020
			CA	<1	% RPD	JJT	17-DEC-97		6010
			CD(D)	<1	% RPD	KPB	06-JAN-98		6020
			CL-	1.1	% RPD	LV	08-JAN-98		325.2
			CO3	<1	% RPD	LV	06-JAN-98		310.1
			COND.	<1	% RPD	BD	09-JAN-98		120.1
			CR(D)	<1	% RPD	KPB	06-JAN-98		6020
			CU(D)	<1	% RPD	KPB	06-JAN-98		6020
			F-	<1	% RPD	LV	07-JAN-98		340.2
			FE(D)	<1	% RPD	JJT	17-DEC-97		6010
			HCO3	1.2	% RPD	LV	06-JAN-98		310.1
			K	<1	% RPD	JJT	17-DEC-97		6010
			MG	2.0	% RPD	JJT	17-DEC-97		6010
			NA	1.9	% RPD	JJT	17-DEC-97		6010
			NO2/NO3	2.0	% RPD	LV	06-JAN-98		353.2
			PB(D)	<1	% RPD	KPB	06-JAN-98		6020
			SE(D)	1.5	% RPD	KPB	06-JAN-98		6020
			SO4=	2.1	% RPD	LV	22-DEC-97		9036

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980026

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980026-4		Duplicate	TDS	5.5	% RPD	BK	18-DEC-97		160.1
			TSS	1.2	% RPD	BK	18-DEC-97		160.2
			ZN(D)	<1	% RPD	KPB	06-JAN-98		6020
WG980026-5		Detection Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

Reviewer

ASARCO TEL. .CAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L973027

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L973027-1	22-DEC-97	EPRI-9711-182	AS(D)	.14	ppm	JJT	05-JAN-98	180	6010
			CA	439.	ppm	JJT	05-JAN-98	180	6010
			CD(D)	16.	ppm	JJT	05-JAN-98	180	6010
			CL-	1002.	ppm	LV	08-JAN-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			COND.	27200	umhos	BD	09-JAN-98	28	120.1
			CR(D)	<.010	ppm	JJT	05-JAN-98	180	6010
			CU(D)	.76	ppm	JJT	05-JAN-98	180	6010
			F-	23.	ppm	LV	07-JAN-98	28	340.2
			FE(D)	<.10	ppm	JJT	05-JAN-98	180	6010
			HCO3	144.	ppm CaCO3	LV	06-JAN-98	14	310.1
			K	373.	ppm	JJT	05-JAN-98	180	6010
			MG	144.	ppm	JJT	05-JAN-98	180	6010
			NA	7724.	ppm	JJT	08-JAN-98	180	6010
			NO2/NO3	20.	ppm	LV	06-JAN-98	28	353.2
			PB(D)	.13	ppm	JJT	05-JAN-98	180	6010
			PH	7.5	pH	LV	06-JAN-98		150.1
			SE(D)	.74	ppm	JJT	05-JAN-98	180	6010
			SO4=	16043.	ppm	LV	07-JAN-98	28	9036
			TDS	25974.	ppm	DC	29-DEC-97	7	160.1
			TSS	6.9	ppm	DC	29-DEC-97		160.2
			ZN(D)	137.	ppm	JJT	05-JAN-98	180	6010
L973027-2	22-DEC-97	EPRI-9711-183	AS(D)	.098	ppm	JJT	05-JAN-98	180	6010
			CA	35.	ppm	JJT	05-JAN-98	180	6010
			CD(D)	.054	ppm	KPB	06-JAN-98	180	6020
			CL-	137.	ppm	LV	08-JAN-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			COND.	975	umhos	BD	09-JAN-98	28	120.1
			CR(D)	<.010	ppm	KPB	06-JAN-98	180	6020
			CU(D)	.75	ppm	KPB	06-JAN-98	180	6020
			F-	1.0	ppm	LV	07-JAN-98	28	340.2
			FE(D)	.30	ppm	JJT	05-JAN-98	180	6010
			HCO3	50.	ppm CaCO3	LV	06-JAN-98	14	310.1
			K	7.3	ppm	JJT	05-JAN-98	180	6010
			MG	3.2	ppm	JJT	05-JAN-98	180	6010
			NA	154.	ppm	JJT	05-JAN-98	180	6010
			NO2/NO3	<.050	ppm	LV	06-JAN-98	28	353.2
			PB(D)	.19	ppm	KPB	06-JAN-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L973027

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L973027-2	22-DEC-97	EPRI-9711-183	PH	7.2	pH	LV	06-JAN-98		150.1
			SE(D)	<.005	ppm	KPB	06-JAN-98	180	6020
			SO4=	193.	ppm	LV	07-JAN-98	28	9036
			TDS	644.	ppm	DC	29-DEC-97	7	160.1
			TSS	2.8	ppm	DC	29-DEC-97		160.2
			ZN(D)	.60	ppm	KPB	06-JAN-98	180	6020
L973027-3	22-DEC-97	EPRI-9711-184	AS(D)	3.7	ppm	JJT	05-JAN-98	180	6010
			CA	175.	ppm	JJT	05-JAN-98	180	6010
			CD(D)	.15	ppm	KPB	06-JAN-98	180	6020
			CL-	497.	ppm	LV	08-JAN-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			COND.	5330	umhos	BD	09-JAN-98	28	120.1
			CR(D)	<.010	ppm	KPB	06-JAN-98	180	6020
			CU(D)	.96	ppm	KPB	06-JAN-98	180	6020
			F-	11.	ppm	LV	07-JAN-98	28	340.2
			FE(D)	.37	ppm	JJT	05-JAN-98	180	6010
			HCO3	80.	ppm CaCO3	LV	06-JAN-98	14	310.1
			K	30.	ppm	JJT	05-JAN-98	180	6010
			MG	24.	ppm	JJT	05-JAN-98	180	6010
			NA	1139.	ppm	JJT	05-JAN-98	180	6010
			NO2/NO3	.56	ppm	LV	06-JAN-98	28	353.2
			PB(D)	.14	ppm	KPB	06-JAN-98	180	6020
			PH	7.7	pH	LV	06-JAN-98		150.1
			SE(D)	.12	ppm	KPB	06-JAN-98	180	6020
			SO4=	1874.	ppm	LV	07-JAN-98	28	9036
			TDS	3912.	ppm	DC	29-DEC-97	7	160.1
			TSS	27.	ppm	DC	29-DEC-97		160.2
			ZN(D)	.92	ppm	KPB	06-JAN-98	180	6020

Approved

Reviewer

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85 (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (9 2-3489 • FAX (915) 532-4897

CHAIN OF STODY RECORD

PROJ. NO.	PROJECT NAME
0734	ASARCO- EL PASO

SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
12/22/97	930		X	EPRI-9711-182	3	X	X	X													
"	1000		X	EPRI-9711-183	3	X	X	X													
"	1030		X	EPRI-9711-184	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	12/22/97 1600		TSC - ASARCO SALT LAKE City, UT		Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time 12.23.97 10:30	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other	

Split Samples: ☐ Accepted ☐ Declined Signature

HFORM-1-4/95

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

TABLE 4-8A. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR WATER SAMPLES

Parameter	Method[1]	PDLG[2] Water (mg/L)	Holding Time
WATER MATRIX			
pH	150.1 (field and lab)	--	analyze immediately
SC	120.1 (field and lab)	--	analyze immediately
temperature	field measurement only	--	analyze immediately
TDS	160.1	10	7 days
TSS	160.2	10	7 days
oxygen (Dis)	field measurement only	--	analyze immediately
bicarbonate	310.x	1	14 days
carbonate	310.x	1	14 days
sulfate	375.x	1	28 days
chloride	325.x	1	28 days
fluoride	340.2	0.1	28 days
nitrite/ nitrate	353.2	0.1	28 days
Ca	200.7/215.1/6020, ICP/FAA/ICP-MS	1	6 months
Mg	200.7/242.1/6020, ICP/FAA ICP-MS	1	6 months
Na	200.7/273.1/6020, ICP/FAA ICP-MS	5	6 months
K	200.7/258.1/6020, ICP/FAA ICP-MS	5	6 months
As	200.7/6020/206.2, ICP/ICP-MS/GFAA	0.005	6 months
Cd	200.7/6020/213.2, ICP/ ICP-MS/GFAA	0.005	6 months
Cu	200.7/6020/220.1, ICP/ ICP-MS/FAA	0.025	6 months
Cr	200.7/6020/218.2, ICP/ ICP-MS/FAA	0.01	6 months
Fe	200.7/6020/236.1, ICP/ ICP-MS/FAA	0.1	6 months
Pb	200.7/6020/239.2. ICP/ ICP-MS/GFAA	0.003	6 months
Se	200.7/6020/270.2/270.3/st meth 303A ICP/ ICP-MS/GFAA/HGAA/FAA	0.005	6 months
Zn	200.7/6020/289.2, ICP/ ICP-MS/GFAA	0.02	6 months

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983) and "Test Methods for Evaluating Solid Wastes" (EPA, 1990).

2 Project Detection Limit Goal.

Note: Groundwater samples analyzed for dissolved constituents only. Surface water analyzed for both total recoverable and dissolved metals.

ASARCO TECHNI... SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980027

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980027-3		Laboratory Control	AS(D)	101	% RECOVERY	JJT	05-JAN-98		6010
			CA	108	% RECOVERY	JJT	05-JAN-98		6010
			CD(D)	100	% RECOVERY	KPB	06-JAN-98		6020
			CL-	104	% RECOVERY	LV	08-JAN-98		325.2
			COND.	99	% RECOVERY	BD	09-JAN-98		120.1
			CR(D)	95	% RECOVERY	KPB	06-JAN-98		6020
			CU(D)	103	% RECOVERY	KPB	06-JAN-98		6020
			F-	86	% RECOVERY	LV	07-JAN-98		340.2
			FE(D)	100	% RECOVERY	JJT	05-JAN-98		6010
			HCO3	102	% RECOVERY	LV	06-JAN-98		310.1
			K	98	% RECOVERY	JJT	05-JAN-98		6010
			MG	101	% RECOVERY	JJT	05-JAN-98		6010
			NA	115	% RECOVERY	JJT	05-JAN-98		6010
			NO2/NO3	101	% RECOVERY	LV	06-JAN-98		353.2
			PB(D)	98	% RECOVERY	KPB	06-JAN-98		6020
			SE(D)	98	% RECOVERY	KPB	06-JAN-98		6020
			SO4=	107	% RECOVERY	LV	07-JAN-98		9036
			TDS	100	% RECOVERY	DC	29-DEC-97		160.1
			TSS	95	% RECOVERY	DC	29-DEC-97		160.2
			ZN(D)	98	% RECOVERY	KPB	06-JAN-98		6020
WG980027-4		Duplicate	AS(D)	2.7	% RPD	JJT	05-JAN-98		6010
			CA	2.8	% RPD	JJT	05-JAN-98		6010
			CD(D)	<1	% RPD	KPB	06-JAN-98		6020
			CL-	1.5	% RPD	LV	08-JAN-98		325.2
			CO3	<1	% RPD	LV	06-JAN-98		310.1
			COND.	<1	% RPD	BD	09-JAN-98		120.1
			CR(D)	<1	% RPD	KPB	06-JAN-98		6020
			CU(D)	<1	% RPD	KPB	06-JAN-98		6020
			F-	<1	% RPD	LV	07-JAN-98		340.2
			FE(D)	2.7	% RPD	JJT	05-JAN-98		6010
			HCO3	1.2	% RPD	LV	06-JAN-98		310.1
			K	15	% RPD	JJT	05-JAN-98		6010
			MG	4.1	% RPD	JJT	05-JAN-98		6010
			NA	4.1	% RPD	JJT	05-JAN-98		6010
			NO2/NO3	2.0	% RPD	LV	06-JAN-98		353.2
			PB(D)	<1	% RPD	KPB	06-JAN-98		6020
			SE(D)	<1	% RPD	KPB	06-JAN-98		6020
			SO4=	2.4	% RPD	LV	07-JAN-98		9036

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980027

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980027-4		Duplicate	TDS	1.8	% RPD	DC	29-DEC-97		160.1
			TSS	2.9	% RPD	DC	29-DEC-97		160.2
			ZN(D)	3.3	% RPD	KPB	06-JAN-98		6020
WG980027-5		Detection Limit	AS(D)	.005	ppm				6010
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

Reviewer

HYDROMETRICS, INC. - EL PASO

PROJECT MEMO

TO: TSC Laboratory - Salt Lake City
FILE

FROM: Lairy Johnson, Doug Solon

DATE: November 1, 1997

SUBJECT: Analysis of Ground Water - 0734-502.100

The samples included are to be analyzed for the parameters on the attached sheet. The samples will follow Standard SW846 sample analysis protocol.

We would like the sample results to be completed and forwarded to our office in 15 work days from time of receipt. Please send the original results with chain-of-custody to us in El Paso and a copy of the results with chain-of-custody to Clare Bridge in Helena.

Please call us upon receipt to verify that the cooler(s) has arrived.

If you have any questions, please call us.

Thanks,

Lairy

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980027

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980027-1		Matrix Spike	AS(D)	102	% RECOVERY	JJT	05-JAN-98		6010
			CA	SR>4xSA	% RECOVERY	JJT	05-JAN-98		6010
			CD(D)	104	% RECOVERY	KPB	06-JAN-98		6020
			CL-	100	% RECOVERY	LV	08-JAN-98		325.2
			CR(D)	103	% RECOVERY	KPB	06-JAN-98		6020
			CU(D)	102	% RECOVERY	KPB	06-JAN-98		6020
			F-	96	% RECOVERY	LV	07-JAN-98		340.2
			FE(D)	104	% RECOVERY	JJT	05-JAN-98		6010
			K	125	% RECOVERY	JJT	05-JAN-98		6010
			MG	100	% RECOVERY	JJT	05-JAN-98		6010
			NA	SR>4xSA	% RECOVERY	JJT	05-JAN-98		6010
			NO2/NO3	93	% RECOVERY	LV	06-JAN-98		353.2
			PB(D)	103	% RECOVERY	KPB	06-JAN-98		6020
			SE(D)	112	% RECOVERY	KPB	06-JAN-98		6020
			SO4=	106	% RECOVERY	LV	07-JAN-98		9036
			ZN(D)	101	% RECOVERY	KPB	06-JAN-98		6020
WG980027-2		Prep Blank	AS(D)	<.005	ppm	JJT	05-JAN-98		6010
			CA	<1.0	ppm	JJT	05-JAN-98		6010
			CD(D)	<.005	ppm	KPB	06-JAN-98		6020
			CL-	<1.0	ppm	LV	08-JAN-98		325.2
			CO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			COND.	<5	umhos	BD	09-JAN-98		120.1
			CR(D)	<.010	ppm	KPB	06-JAN-98		6020
			CU(D)	<.025	ppm	KPB	06-JAN-98		6020
			F-	<.050	ppm	LV	07-JAN-98		340.2
			FE(D)	<.10	ppm	JJT	05-JAN-98		6010
			HCO3	<1.0	ppm CaCO3	LV	06-JAN-98		310.1
			K	<2.0	ppm	JJT	05-JAN-98		6010
			MG	<1.0	ppm	JJT	05-JAN-98		6010
			NA	<2.0	ppm	JJT	05-JAN-98		6010
			NO2/NO3	<.050	ppm	LV	06-JAN-98		353.2
			PB(D)	<.003	ppm	KPB	06-JAN-98		6020
			SE(D)	<.005	ppm	KPB	06-JAN-98		6020
			SO4=	<2.0	ppm	LV	07-JAN-98		9036
			TDS	<10.	ppm	DC	29-DEC-97		160.1
			TSS	<1.0	ppm	DC	29-DEC-97		160.2
			ZN(D)	<.020	ppm	KPB	06-JAN-98		6020

SECTION 3

LABORATORY REPORTS FOR WATER SAMPLES, FEBRUARY 1998

ASARCO TECHNIC... SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-1	03-FEB-98	EPRI-9802-108	AS(D)	.96	ppm	KPB	20-FEB-98	180	6020
			CA	536.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	.048	ppm	KPB	20-FEB-98	180	6020
			CL-	890.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	10800.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.036	ppm	KPB	20-FEB-98	180	6020
			F-	1.9	ppm	LV	17-FEB-98	28	340.2
			FE(D)	.11	ppm	JJT	11-FEB-98	180	6010
			HCO3	286.	ppm	BD	13-FEB-98	14	310.1
			K	63.	ppm	JJT	11-FEB-98	180	6010
			MG	320.	ppm	JJT	11-FEB-98	180	6010
			NA	1919.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	201.	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.4	pH	BD	13-FEB-98		150.1
			SE(D)	.37	ppm	KPB	20-FEB-98	180	6020
			SO4=	5063.	ppm	LV	19-FEB-98	28	9036
			TDS	9914.	ppm	JCH	09-FEB-98	7	160.1
			TSS	74.	ppm	MO	09-FEB-98		160.2
			ZN(D)	.063	ppm	KPB	20-FEB-98	180	6020
L980276-2	03-FEB-98	EPRI-9802-116	AS(D)	.37	ppm	KPB	20-FEB-98	180	6020
			CA	443.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	545.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	6760.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	.99	ppm	LV	17-FEB-98	28	340.2
			FE(D)	.10	ppm	JJT	11-FEB-98	180	6010
			HCO3	402.	ppm	BD	13-FEB-98	14	310.1
			K	19.	ppm	JJT	11-FEB-98	180	6010
			MG	170.	ppm	JJT	11-FEB-98	180	6010
			NA	1108.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	82.	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-2	03-FEB-98	EPRI-9802-116	PH	7.6	pH	BD	13-FEB-98		150.1
			SE(D)	4.1	ppm	KPB	20-FEB-98	180	6020
			SO4=	2654.	ppm	LV	19-FEB-98	28	9036
			TDS	5859.	ppm	JCH	09-FEB-98	7	160.1
			TSS	14.	ppm	MO	09-FEB-98		160.2
			ZN(D)	.021	ppm	KPB	20-FEB-98	180	6020
L980276-3	03-FEB-98	EPRI-9802-115	AS(D)	.29	ppm	KPB	20-FEB-98	180	6020
			CA	52.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	317.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	3100.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	2.7	ppm	LV	17-FEB-98	28	340.2
			FE(D)	.11	ppm	JJT	11-FEB-98	180	6010
			HCO3	234.	ppm	BD	13-FEB-98	14	310.1
			K	27.	ppm	JJT	11-FEB-98	180	6010
			MG	20.	ppm	JJT	11-FEB-98	180	6010
			NA	677.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	8.1	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	8.0	pH	BD	13-FEB-98		150.1
			SE(D)	.19	ppm	KPB	20-FEB-98	180	6020
			SO4=	973.	ppm	LV	19-FEB-98	28	9036
			TDS	2073.	ppm	JCH	09-FEB-98	7	160.1
			TSS	13.	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-4	03-FEB-98	EPRI-9802-104	AS(D)	1.2	ppm	KPB	20-FEB-98	180	6020
			CA	437.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	666.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	6580.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	.92	ppm	LV	17-FEB-98	28	340.2

ASARCO TECHN SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-4	03-FEB-98	EPRI-9802-104	FE(D)	.15	ppm	JJT	11-FEB-98	180	6010
			HCO3	502.	ppm	BD	13-FEB-98	14	310.1
			K	21.	ppm	JJT	11-FEB-98	180	6010
			MG	148.	ppm	JJT	11-FEB-98	180	6010
			NA	1093.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	32.	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.4	pH	BD	13-FEB-98		150.1
			SE(D)	1.7	ppm	KPB	20-FEB-98	180	6020
			SO4=	2603.	ppm	LV	19-FEB-98	28	9036
			TDS	5491.	ppm	JCH	09-FEB-98	7	160.1
			TSS	8.3	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-5	03-FEB-98	EPRI-9802-175	AS(D)	1.2	ppm	KPB	20-FEB-98	180	6020
			CA	261.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	2405.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	9590.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	2.1	ppm	LV	17-FEB-98	28	340.2
			FE(D)	.17	ppm	JJT	11-FEB-98	180	6010
			HCO3	590.	ppm	BD	13-FEB-98	14	310.1
			K	58.	ppm	JJT	11-FEB-98	180	6010
			MG	145.	ppm	JJT	11-FEB-98	180	6010
			NA	1692.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.5	pH	BD	13-FEB-98		150.1
			SE(D)	.15	ppm	KPB	20-FEB-98	180	6020
			SO4=	1425.	ppm	LV	19-FEB-98	28	9036
			TDS	6434.	ppm	JCH	09-FEB-98	7	160.1
			TSS	35.	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-6	04-FEB-98	EPRI-9802-100	AS(D)	.068	ppm	KPB	20-FEB-98	180	6020
			CA	74.	ppm	JJT	11-FEB-98	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-6	04-FEB-98	EPRI-9802-100	CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	190.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	1595.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	1.1	ppm	LV	17-FEB-98	28	340.2
			FE(D)	.91	ppm	JJT	11-FEB-98	180	6010
			HCO3	246.	ppm	BD	13-FEB-98	14	310.1
			K	12.	ppm	JJT	11-FEB-98	180	6010
			MG	20.	ppm	JJT	11-FEB-98	180	6010
			NA	257.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	8.0	pH	BD	13-FEB-98		150.1
			SE(D)	.005	ppm	KPB	20-FEB-98	180	6020
			SO4=	346.	ppm	LV	19-FEB-98	28	9036
			TDS	1076.	ppm	JCH	09-FEB-98	7	160.1
			TSS	54.	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-7	04-FEB-98	EPRI-9802-101	AS(D)	.059	ppm	KPB	20-FEB-98	180	6020
			CA	78.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	361.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	3070.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	2.3	ppm	LV	17-FEB-98	28	340.2
			FE(D)	.21	ppm	JJT	11-FEB-98	180	6010
			HCO3	734.	ppm	BD	13-FEB-98	14	310.1
			K	10.	ppm	JJT	11-FEB-98	180	6010
			MG	33.	ppm	JJT	11-FEB-98	180	6010
			NA	671.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	.14	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	8.1	pH	BD	13-FEB-98		150.1
			SE(D)	.005	ppm	KPB	20-FEB-98	180	6020

ASARCO TECHNI ERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-7	04-FEB-98	EPRI-9802-101	SO4=	519.	ppm	LV	19-FEB-98	28	9036
			TDS	2106.	ppm	JCH	09-FEB-98	7	160.1
			TSS	30.	ppm	MO	09-FEB-98		160.2
			ZN(D)	.021	ppm	KPB	20-FEB-98	180	6020
L980276-8	04-FEB-98	EPRI-9802-102	AS(D)	.023	ppm	KPB	20-FEB-98	180	6020
			CA	246.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	954.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	6060.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	1.3	ppm	LV	17-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	11-FEB-98	180	6010
			HCO3	476.	ppm	BD	13-FEB-98	14	310.1
			K	25.	ppm	JJT	11-FEB-98	180	6010
			MG	76.	ppm	JJT	11-FEB-98	180	6010
			NA	1167.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	8.0	pH	BD	13-FEB-98		150.1
			SE(D)	.009	ppm	KPB	20-FEB-98	180	6020
			SO4=	1852.	ppm	LV	19-FEB-98	28	9036
			TDS	4491.	ppm	JCH	09-FEB-98	7	160.1
			TSS	10.	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-9	04-FEB-98	EPRI-9802-103	AS(D)	.076	ppm	KPB	20-FEB-98	180	6020
			CA	119.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	344.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	2810.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	1.3	ppm	LV	17-FEB-98	28	340.2
			FE(D)	1.7	ppm	JJT	11-FEB-98	180	6010
			HCO3	296.	ppm	BD	13-FEB-98	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-9	04-FEB-98	EPRI-9802-103	K	9.6	ppm	JJT	11-FEB-98	180	6010
			MG	38.	ppm	JJT	11-FEB-98	180	6010
			NA	502.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	.076	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.9	pH	BD	13-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			SO4=	814.	ppm	LV	19-FEB-98	28	9036
			TDS	1978.	ppm	JCH	09-FEB-98	7	160.1
			TSS	14.	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-10	04-FEB-98	EPRI-9802-114	AS(D)	.58	ppm	KPB	20-FEB-98	180	6020
			CA	9.1	ppm	JJT	11-FEB-98	180	6010
			CD(D)	.18	ppm	KPB	20-FEB-98	180	6020
			CL-	12.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	202.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.042	ppm	KPB	20-FEB-98	180	6020
			F-	.78	ppm	LV	17-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	11-FEB-98	180	6010
			HCO3	21.	ppm	BD	13-FEB-98	14	310.1
			K	13.	ppm	JJT	11-FEB-98	180	6010
			MG	2.0	ppm	JJT	11-FEB-98	180	6010
			NA	26.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	1.4	ppm	LV	13-FEB-98	28	353.2
			PB(D)	.010	ppm	KPB	20-FEB-98	180	6020
			PH	7.4	pH	BD	13-FEB-98		150.1
			SE(D)	.050	ppm	KPB	20-FEB-98	180	6020
			SO4=	46.	ppm	LV	19-FEB-98	28	9036
			TDS	145.	ppm	JCH	09-FEB-98	7	160.1
			TSS	100.	ppm	MO	09-FEB-98		160.2
			ZN(D)	.56	ppm	KPB	20-FEB-98	180	6020
L980276-11	04-FEB-98	EPRI-9802-121	AS(D)	2.2	ppm	KPB	20-FEB-98	180	6020
			CA	256.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	681.	ppm	LV	17-FEB-98	28	325.2

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-11	04-FEB-98	EPRI-9802-121	CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	5520.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.027	ppm	KPB	20-FEB-98	180	6020
			F-	2.1	ppm	LV	17-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	11-FEB-98	180	6010
			HCO3	282.	ppm	BD	13-FEB-98	14	310.1
			K	29.	ppm	JJT	11-FEB-98	180	6010
			MG	63.	ppm	JJT	11-FEB-98	180	6010
			NA	1043.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	2.5	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.8	pH	BD	13-FEB-98		150.1
			SE(D)	.048	ppm	KPB	20-FEB-98	180	6020
			SO4=	2125.	ppm	LV	19-FEB-98	28	9036
			TDS	4260.	ppm	JCH	09-FEB-98	7	160.1
			TSS	448.	ppm	MO	09-FEB-98		160.2
			ZN(D)	.025	ppm	KPB	20-FEB-98	180	6020
L980276-12	04-FEB-98	EPRI-9802-111	AS(D)	1.5	ppm	KPB	20-FEB-98	180	6020
			CA	192.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	493.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	6190.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	2.6	ppm	LV	17-FEB-98	28	340.2
			FE(D)	.25	ppm	JJT	11-FEB-98	180	6010
			HCO3	252.	ppm	BD	13-FEB-98	14	310.1
			K	76.	ppm	JJT	11-FEB-98	180	6010
			MG	99.	ppm	JJT	11-FEB-98	180	6010
			NA	854.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	.14	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.7	pH	BD	13-FEB-98		150.1
			SE(D)	.019	ppm	KPB	20-FEB-98	180	6020
			SO4=	2484.	ppm	LV	19-FEB-98	28	9036
			TDS	4183.	ppm	JCH	09-FEB-98	7	160.1

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L980276

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-12	04-FEB-98	EPRI-9802-111	TSS	45.	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-13	04-FEB-98	EPRI-9802-178	AS(D)	63.	ppm	JJT	11-FEB-98	180	6010
			CA	527.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	1.4	ppm	KPB	20-FEB-98	180	6020
			CL-	515.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	7590.	umhos	BD	06-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.032	ppm	KPB	20-FEB-98	180	6020
			F-	5.9	ppm	LV	17-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	11-FEB-98	180	6010
			HCO3	210.	ppm	BD	13-FEB-98	14	310.1
			K	124.	ppm	JJT	11-FEB-98	180	6010
			MG	101.	ppm	JJT	11-FEB-98	180	6010
			NA	1264.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	97.	ppm	LV	13-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.0	pH	BD	13-FEB-98		150.1
			SE(D)	1.7	ppm	KPB	20-FEB-98	180	6020
			SO4=	3266.	ppm	LV	19-FEB-98	28	9036
			TDS	6775.	ppm	JCH	09-FEB-98	7	160.1
			TSS	277.	ppm	MO	09-FEB-98		160.2
			ZN(D)	4.3	ppm	KPB	20-FEB-98	180	6020

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Water and Solid Waste (Project 3220)

Batch No: WG980226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980226-1		Matrix Spike	AS(D)	103	% RECOVERY	KPB	20-FEB-98		6020
			CA	SR>4xSA	% RECOVERY	JJT	11-FEB-98		6010
			CD(D)	98	% RECOVERY	KPB	20-FEB-98		6020
			CL-	102	% RECOVERY	LV	17-FEB-98		325.2
			CR(D)	98	% RECOVERY	KPB	20-FEB-98		6020
			CU(D)	92	% RECOVERY	KPB	20-FEB-98		6020
			F-	99	% RECOVERY	LV	17-FEB-98		340.2
			FE(D)	101	% RECOVERY	JJT	11-FEB-98		6010
			K	116	% RECOVERY	JJT	11-FEB-98		6010
			MG	SR>4xSA	% RECOVERY	JJT	11-FEB-98		6010
			NA	SR>4xSA	% RECOVERY	BD	18-FEB-98		6010
			NO2/NO3	91	% RECOVERY	LV	13-FEB-98		353.2
			PB(D)	92	% RECOVERY	KPB	20-FEB-98		6020
			SE(D)	101	% RECOVERY	KPB	20-FEB-98		6020
			SO4=	105	% RECOVERY	LV	19-FEB-98		9036
			ZN(D)	91	% RECOVERY	KPB	20-FEB-98		6020
WG980226-2		Prep Blank	AS(D)	<.005	ppm	KPB	20-FEB-98		6020
			CA	<1.0	ppm	JJT	11-FEB-98		6010
			CD(D)	<.005	ppm	KPB	20-FEB-98		6020
			CL-	<1.0	ppm	LV	17-FEB-98		325.2
			CO3	<1.0	ppm	BD	13-FEB-98		310.1
			COND.	<5.	umhos	BD	06-FEB-98		120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98		6020
			CU(D)	<.010	ppm	KPB	20-FEB-98		6020
			F-	<.050	ppm	LV	17-FEB-98		340.2
			FE(D)	<.10	ppm	JJT	11-FEB-98		6010
			HCO3	<1.0	ppm	BD	13-FEB-98		310.1
			K	<2.0	ppm	JJT	11-FEB-98		6010
			MG	<1.0	ppm	JJT	11-FEB-98		6010
			NA	<2.0	ppm	BD	18-FEB-98		6010
			NO2/NO3	<.050	ppm	LV	13-FEB-98		353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98		6020
			SE(D)	<.005	ppm	KPB	20-FEB-98		6020
			SO4=	<2.0	ppm	LV	19-FEB-98		9036
			TDS	<10.	ppm	JCH	09-FEB-98		160.1
			TSS	<1.0	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98		6020

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Water and Solid Waste (Project 3220)

Batch No: WG980226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980226-3		Laboratory Control	AS(D)	98	% RECOVERY	KPB	20-FEB-98		6020
			CA	101	% RECOVERY	JJT	11-FEB-98		6010
			CD(D)	103	% RECOVERY	KPB	20-FEB-98		6020
			CL-	100	% RECOVERY	LV	17-FEB-98		325.2
			COND.	99	% RECOVERY	BD	06-FEB-98		120.1
			CR(D)	100	% RECOVERY	KPB	20-FEB-98		6020
			CU(D)	103	% RECOVERY	KPB	20-FEB-98		6020
			F-	93	% RECOVERY	LV	17-FEB-98		340.2
			FE(D)	93	% RECOVERY	JJT	11-FEB-98		6010
			HCO3	101	% RECOVERY	BD	13-FEB-98		310.1
			K	93	% RECOVERY	JJT	11-FEB-98		6010
			MG	102	% RECOVERY	JJT	11-FEB-98		6010
			NA	100	% RECOVERY	BD	18-FEB-98		6010
			NO2/NO3	100	% RECOVERY	LV	13-FEB-98		353.2
			PB(D)	103	% RECOVERY	KPB	20-FEB-98		6020
			SE(D)	100	% RECOVERY	KPB	20-FEB-98		6020
			SO4=	99	% RECOVERY	LV	19-FEB-98		9036
			TDS	100	% RECOVERY	JCH	09-FEB-98		160.1
			TSS	93	% RECOVERY	MO	09-FEB-98		160.2
			ZN(D)	100	% RECOVERY	KPB	20-FEB-98		6020
WG980226-4		Duplicate	AS(D)	<1	% RPD	KPB	20-FEB-98		6020
			CA	2.4	% RPD	JJT	11-FEB-98		6010
			CD(D)	<1	% RPD	KPB	20-FEB-98		6020
			CL-	4.9	% RPD	LV	17-FEB-98		325.2
			CO3	<1	% RPD	BD	13-FEB-98		310.1
			COND.	<1	% RPD	BD	06-FEB-98		120.1
			CR(D)	<1	% RPD	KPB	20-FEB-98		6020
			CU(D)	+/-crdl	% RPD	KPB	20-FEB-98		6020
			F-	1.0	% RPD	LV	17-FEB-98		340.2
			FE(D)	+/-crdl	% RPD	JJT	11-FEB-98		6010
			HCO3	<1	% RPD	BD	13-FEB-98		310.1
			K	5.1	% RPD	JJT	11-FEB-98		6010
			MG	<1	% RPD	JJT	11-FEB-98		6010
			NA	<1	% RPD	BD	18-FEB-98		6010
			NO2/NO3	4.2	% RPD	LV	13-FEB-98		353.2
			PB(D)	<1	% RPD	KPB	20-FEB-98		6020
			SE(D)	4.1	% RPD	KPB	20-FEB-98		6020
			SO4=	1.5	% RPD	LV	19-FEB-98		9036

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980226

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980226-4		Duplicate	TDS	<1	% RPD	JCH	09-FEB-98		160.1
			TSS	<1	% RPD	MO	09-FEB-98		160.2
			ZN(D)	+/-crdl	% RPD	KPB	20-FEB-98		6020
WG980226-5		Detection Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm				310.1
			COND.	5.	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-1	05-FEB-98	EPRI-9802-124	AS(D)	3.4	ppm	KPB	20-FEB-98	180	6020
			CA	168.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	450.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	4640.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	4.8	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	412.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	95.	ppm	JJT	11-FEB-98	180	6010
			MG	83.	ppm	JJT	11-FEB-98	180	6010
			NA	807.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	10.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.3	pH	VK	10-FEB-98		150.1
			SE(D)	.23	ppm	KPB	20-FEB-98	180	6020
			SO4=	1551.	ppm	LV	19-FEB-98	28	9036
			TDS	3594.	ppm	JCH	12-FEB-98	7	160.1
			TSS	2.7	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980310-2	05-FEB-98	EPRI-9802-129	AS(D)	.043	ppm	KPB	20-FEB-98	180	6020
			CA	399.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	869.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	10420.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.049	ppm	KPB	20-FEB-98	180	6020
			F-	1.9	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	210.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	26.	ppm	JJT	11-FEB-98	180	6010
			MG	141.	ppm	JJT	11-FEB-98	180	6010
			NA	2200.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	136.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020

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ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-2	05-FEB-98	EPRI-9802-129	PH	7.9	pH	VK	10-FEB-98		150.1
			SE(D)	.65	ppm	KPB	20-FEB-98	180	6020
			SO4=	4564.	ppm	LV	19-FEB-98	28	9036
			TDS	9250.	ppm	JCH	12-FEB-98	7	160.1
			TSS	22.	ppm	MO	11-FEB-98		160.2
			ZN(D)	.024	ppm	KPB	20-FEB-98	180	6020
L980310-3	05-FEB-98	EPRI-9802-127	AS(D)	.84	ppm	KPB	20-FEB-98	180	6020
			CA	253.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	473.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	5460.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.026	ppm	KPB	20-FEB-98	180	6020
			F-	2.7	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	322.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	69.	ppm	JJT	11-FEB-98	180	6010
			MG	114.	ppm	JJT	11-FEB-98	180	6010
			NA	935.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	17.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.4	pH	VK	10-FEB-98		150.1
			SE(D)	.39	ppm	KPB	20-FEB-98	180	6020
			SO4=	2183.	ppm	LV	19-FEB-98	28	9036
			TDS	4317.	ppm	JCH	12-FEB-98	7	160.1
			TSS	20.	ppm	MO	11-FEB-98		160.2
			ZN(D)	.023	ppm	KPB	20-FEB-98	180	6020
L980310-4	05-FEB-98	EPRI-9802-128	AS(D)	.020	ppm	KPB	20-FEB-98	180	6020
			CA	266.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	1067.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	8210.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.029	ppm	KPB	20-FEB-98	180	6020
			F-	2.1	ppm	LV	19-FEB-98	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-4	05-FEB-98	EPRI-9802-128	FE(D)	.20	ppm	BD	18-FEB-98	180	236.1
			HCO3	436.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	39.	ppm	JJT	11-FEB-98	180	6010
			MG	157.	ppm	JJT	11-FEB-98	180	6010
			NA	1579.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	18.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.4	pH	VK	10-FEB-98		150.1
			SE(D)	.20	ppm	KPB	20-FEB-98	180	6020
			SO4=	2893.	ppm	LV	19-FEB-98	28	9036
			TDS	6412.	ppm	JCH	12-FEB-98	7	160.1
			TSS	102.	ppm	MO	11-FEB-98		160.2
			ZN(D)	.030	ppm	KPB	20-FEB-98	180	6020
L980310-5	05-FEB-98	EPRI-9802-125	AS(D)	.009	ppm	KPB	20-FEB-98	180	6020
			CA	584.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	1278.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	8780.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.034	ppm	KPB	20-FEB-98	180	6020
			F-	1.4	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.40	ppm	BD	18-FEB-98	180	236.1
			HCO3	260.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	14.	ppm	JJT	11-FEB-98	180	6010
			MG	237.	ppm	JJT	11-FEB-98	180	6010
			NA	1366.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	109.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.3	pH	VK	10-FEB-98		150.1
			SE(D)	.26	ppm	KPB	20-FEB-98	180	6020
			SO4=	3000.	ppm	LV	19-FEB-98	28	9036
			TDS	7495.	ppm	JCH	12-FEB-98	7	160.1
			TSS	6.3	ppm	MO	11-FEB-98		160.2
			ZN(D)	.027	ppm	KPB	20-FEB-98	180	6020
L980310-6	05-FEB-98	EPRI-9802-131	AS(D)	9.7	ppm	KPB	20-FEB-98	180	6020
			CA	541.	ppm	JJT	11-FEB-98	180	6010

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-6	05-FEB-98	EPRI-9802-131	CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	625.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	7220.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.032	ppm	KPB	20-FEB-98	180	6020
			F-	3.0	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	363.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	45.	ppm	JJT	11-FEB-98	180	6010
			MG	122.	ppm	JJT	11-FEB-98	180	6010
			NA	1194.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	44.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.6	pH	VK	10-FEB-98		150.1
			SE(D)	.26	ppm	KPB	20-FEB-98	180	6020
			SO4=	3098.	ppm	LV	19-FEB-98	28	9036
			TDS	6329.	ppm	JCH	12-FEB-98	7	160.1
			TSS	5.6	ppm	MO	11-FEB-98		160.2
			ZN(D)	.024	ppm	KPB	20-FEB-98	180	6020
L980310-7	05-FEB-98	EPRI-9802-145	AS(D)	.018	ppm	KPB	20-FEB-98	180	6020
			CA	202.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	362.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	5040.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	1.3	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	426.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	14.	ppm	JJT	11-FEB-98	180	6010
			MG	81.	ppm	JJT	11-FEB-98	180	6010
			NA	1000.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	7.1	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.4	pH	VK	10-FEB-98		150.1
			SE(D)	.039	ppm	KPB	20-FEB-98	180	6020

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Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-7	05-FEB-98	EPRI-9802-145	SO4=	1954.	ppm	LV	19-FEB-98	28	9036
			TDS	4032.	ppm	JCH	12-FEB-98	7	160.1
			TSS	67.	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980310-8	05-FEB-98	EPRI-9802-146	AS(D)	.32	ppm	KPB	20-FEB-98	180	6020
			CA	152.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	125.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	2560.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	1.6	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	432.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	17.	ppm	JJT	11-FEB-98	180	6010
			MG	76.	ppm	JJT	11-FEB-98	180	6010
			NA	331.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	9.4	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.5	pH	VK	10-FEB-98		150.1
			SE(D)	.21	ppm	KPB	20-FEB-98	180	6020
			SO4=	923.	ppm	LV	19-FEB-98	28	9036
			TDS	1967.	ppm	JCH	12-FEB-98	7	160.1
			TSS	76.	ppm	MO	11-FEB-98		160.2
			ZN(D)	.025	ppm	KPB	20-FEB-98	180	6020
L980310-9	05-FEB-98	EPRI-9802-150	AS(D)	2.9	ppm	KPB	20-FEB-98	180	6020
			CA	89.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	179.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	2600.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	3.4	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	292.	ppm CaCO3	VK	10-FEB-98	14	310.1

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Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-9	05-FEB-98	EPRI-9802-150	K	30.	ppm	JJT	11-FEB-98	180	6010
			MG	43.	ppm	JJT	11-FEB-98	180	6010
			NA	431.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	7.5	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.7	pH	VK	10-FEB-98		150.1
			SE(D)	.15	ppm	KPB	20-FEB-98	180	6020
			SO4=	840.	ppm	LV	19-FEB-98	28	9036
			TDS	1882.	ppm	JCH	12-FEB-98	7	160.1
			TSS	7.9	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980310-10	06-FEB-98	EPRI-9802-149	AS(D)	.035	ppm	KPB	20-FEB-98	180	6020
			CA	219.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	.007	ppm	KPB	20-FEB-98	180	6020
			CL-	371.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	2990.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.037	ppm	KPB	20-FEB-98	180	6020
			F-	.63	ppm	LV	19-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	242.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	11.	ppm	JJT	11-FEB-98	180	6010
			MG	104.	ppm	JJT	11-FEB-98	180	6010
			NA	390.	ppm	MK	19-FEB-98	180	6010
			NO2/NO3	11.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	.018	ppm	KPB	20-FEB-98	180	6020
			PH	7.4	pH	VK	10-FEB-98		150.1
			SE(D)	.024	ppm	KPB	20-FEB-98	180	6020
			SO4=	942.	ppm	LV	19-FEB-98	28	9036
			TDS	2293.	ppm	JCH	12-FEB-98	7	160.1
			TSS	4.4	ppm	MO	11-FEB-98		160.2
			ZN(D)	.048	ppm	KPB	20-FEB-98	180	6020
L980310-11	06-FEB-98	EPRI-9802-148	AS(D)	.006	ppm	KPB	20-FEB-98	180	6020
			CA	73.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	364.	ppm	LV	17-FEB-98	28	325.2

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Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-11	06-FEB-98	EPRI-9802-148	CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	3720.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	2.7	ppm	LV	23-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	296.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	12.	ppm	JJT	11-FEB-98	180	6010
			MG	66.	ppm	JJT	11-FEB-98	180	6010
			NA	735.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	7.6	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.8	pH	VK	10-FEB-98		150.1
			SE(D)	.044	ppm	KPB	20-FEB-98	180	6020
			SO4=	1161.	ppm	LV	19-FEB-98	28	9036
			TDS	2660.	ppm	JCH	12-FEB-98	7	160.1
			TSS	8.1	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980310-12	06-FEB-98	EPRI-9802-141	AS(D)	.54	ppm	KPB	20-FEB-98	180	6020
			CA	159.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	422.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	4800.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	1.9	ppm	LV	23-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	390.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	63.	ppm	JJT	11-FEB-98	180	6010
			MG	90.	ppm	JJT	11-FEB-98	180	6010
			NA	882.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	4.7	ppm	LV	17-FEB-98	28	353.2
			PB(D)	.005	ppm	KPB	20-FEB-98	180	6020
			PH	7.6	pH	VK	10-FEB-98		150.1
			SE(D)	.13	ppm	KPB	20-FEB-98	180	6020
			SO4=	1527.	ppm	LV	19-FEB-98	28	9036
			TDS	3704.	ppm	JCH	12-FEB-98	7	160.1

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L980310

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-12	06-FEB-98	EPRI-9802-141	TSS	4.0	ppm	MO	11-FEB-98		160.2
			ZN(D)	.070	ppm	KPB	20-FEB-98	180	6020
L980310-13	06-FEB-98	EPRI-9802-140	AS(D)	18.	ppm	KPB	20-FEB-98	180	6020
			CA	451.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	.022	ppm	KPB	20-FEB-98	180	6020
			CL-	710.	ppm	LV	18-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	19240.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	.086	ppm	KPB	20-FEB-98	180	6020
			F-	1.5	ppm	LV	23-FEB-98	28	340.2
			FE(D)	.30	ppm	BD	18-FEB-98	180	236.1
			HCO3	236.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	655.	ppm	BD	18-FEB-98	180	6010
			MG	476.	ppm	JJT	11-FEB-98	180	6010
			NA	4055.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	178.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.2	pH	VK	10-FEB-98		150.1
			SE(D)	4.49	ppm	KPB	20-FEB-98	180	6020
			SO4=	11195.	ppm	LV	19-FEB-98	28	9036
			TDS	19043.	ppm	JCH	12-FEB-98	7	160.1
			TSS	49.	ppm	MO	11-FEB-98		160.2
			ZN(D)	.14	ppm	KPB	20-FEB-98	180	6020
L980310-14	06-FEB-98	EPRI-9802-151	AS(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CA	41.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	287.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	2640.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	2.5	ppm	LV	23-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	314.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	12.	ppm	JJT	11-FEB-98	180	6010
			MG	33.	ppm	JJT	11-FEB-98	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-14	06-FEB-98	EPRI-9802-151	NA	497.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	5.8	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.8	pH	VK	10-FEB-98		150.1
			SE(D)	.029	ppm	KPB	20-FEB-98	180	6020
			SO4=	679.	ppm	LV	19-FEB-98	28	9036
			TDS	1812.	ppm	JCH	12-FEB-98	7	160.1
			TSS	201.	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980310-15	06-FEB-98	EPRI-9802-144	AS(D)	.007	ppm	KPB	20-FEB-98	180	6020
			CA	59.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	451.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	4940.	umhos	BD	11-FEB-98	28	120.1
			CR(D)	.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	3.9	ppm	LV	23-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	382.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	12.	ppm	JJT	11-FEB-98	180	6010
			MG	74.	ppm	JJT	11-FEB-98	180	6010
			NA	1103.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	11.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.9	pH	VK	10-FEB-98		150.1
			SE(D)	.18	ppm	KPB	20-FEB-98	180	6020
			SO4=	1748.	ppm	LV	19-FEB-98	28	9036
			TDS	3770.	ppm	JCH	12-FEB-98	7	160.1
			TSS	37.	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980310-16	06-FEB-98	EPRI-9802-143	AS(D)	5.9	ppm	KPB	20-FEB-98	180	6020
			CA	61.	ppm	JJT	11-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	20-FEB-98	180	6020
			CL-	252.	ppm	LV	17-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	2940.	umhos	BD	11-FEB-98	28	120.1

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L980310-16	06-FEB-98	EPRI-9802-143	CR(D)	<.010	ppm	KPB	20-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	20-FEB-98	180	6020
			F-	4.2	ppm	LV	23-FEB-98	28	340.2
			FE(D)	.10	ppm	BD	18-FEB-98	180	236.1
			HCO3	276.	ppm CaCO3	VK	10-FEB-98	14	310.1
			K	57.	ppm	JJT	11-FEB-98	180	6010
			MG	33.	ppm	JJT	11-FEB-98	180	6010
			NA	483.	ppm	BD	18-FEB-98	180	6010
			NO2/NO3	11.	ppm	LV	17-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98	180	6020
			PH	7.9	pH	VK	10-FEB-98		150.1
			SE(D)	.22	ppm	KPB	20-FEB-98	180	6020
			SO4=	876.	ppm	LV	19-FEB-98	28	9036
			TDS	2004.	ppm	JCH	12-FEB-98	7	160.1
			TSS	10.	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020

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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980227

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980227-1		Matrix Spike	AS(D)	106	% RECOVERY	KPB	20-FEB-98		6020
			CD(D)	100	% RECOVERY	KPB	20-FEB-98		6020
			CL-	101	% RECOVERY	LV	17-FEB-98		325.2
			CR(D)	101	% RECOVERY	KPB	20-FEB-98		6020
			CU(D)	97	% RECOVERY	KPB	20-FEB-98		6020
			F-	96	% RECOVERY	LV	23-FEB-98		340.2
			FE(D)	70*	% RECOVERY	BD	18-FEB-98		236.1
			NO2/NO3	104	% RECOVERY	LV	17-FEB-98		353.2
			PB(D)	95	% RECOVERY	KPB	20-FEB-98		6020
			SE(D)	108	% RECOVERY	KPB	20-FEB-98		6020
			SO4=	106	% RECOVERY	LV	19-FEB-98		9036
			ZN(D)	103	% RECOVERY	KPB	20-FEB-98		6020
WG980227-2		Prep Blank	AS(D)	<.005	ppm	KPB	20-FEB-98		6020
			CA	<1.0	ppm	JJT	11-FEB-98		6010
			CD(D)	<.005	ppm	KPB	20-FEB-98		6020
			CL-	<1.0	ppm	LV	17-FEB-98		325.2
			CO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			COND.	<5.	umhos	BD	11-FEB-98		120.1
			CR(D)	<.010	ppm	KPB	20-FEB-98		6020
			CU(D)	<.025	ppm	KPB	20-FEB-98		6020
			F-	<.050	ppm	LV	23-FEB-98		340.2
			FE(D)	<.10	ppm	BD	18-FEB-98		236.1
			HCO3	<1.0	ppm CaCO3	VK	10-FEB-98		310.1
			K	<2.0	ppm	JJT	11-FEB-98		6010
			MG	<1.0	ppm	JJT	11-FEB-98		6010
			NA	<2.0	ppm	BD	18-FEB-98		6010
			NO2/NO3	<.050	ppm	LV	17-FEB-98		353.2
			PB(D)	<.003	ppm	KPB	20-FEB-98		6020
			SE(D)	<.005	ppm	KPB	20-FEB-98		6020
			SO4=	<2.0	ppm	LV	19-FEB-98		9036
			TDS	<10.	ppm	JCH	12-FEB-98		160.1
			TSS	<1.0	ppm	MO	11-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98		6020
WG980227-3		Laboratory Control	AS(D)	98	% RECOVERY	KPB	20-FEB-98		6020
			CA	101	% RECOVERY	JJT	11-FEB-98		6010
			CD(D)	103	% RECOVERY	KPB	20-FEB-98		6020
			CL-	97	% RECOVERY	LV	17-FEB-98		325.2

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Batch No: WG980227

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980227-3		Laboratory Control	COND.	100	% RECOVERY	BD	11-FEB-98		120.1
			CR(D)	100	% RECOVERY	KPB	20-FEB-98		6020
			CU(D)	103	% RECOVERY	KPB	20-FEB-98		6020
			F-	93	% RECOVERY	LV	23-FEB-98		340.2
			FE(D)	90	% RECOVERY	BD	18-FEB-98		236.1
			HCO3	101	% RECOVERY	VK	10-FEB-98		310.1
			K	93	% RECOVERY	JJT	11-FEB-98		6010
			MG	102	% RECOVERY	JJT	11-FEB-98		6010
			NA	100	% RECOVERY	BD	18-FEB-98		6010
			NO2/NO3	100	% RECOVERY	LV	17-FEB-98		353.2
			PB(D)	103	% RECOVERY	KPB	20-FEB-98		6020
			SE(D)	100	% RECOVERY	KPB	20-FEB-98		6020
			SO4=	104	% RECOVERY	LV	19-FEB-98		9036
			TDS	100	% RECOVERY	JCH	12-FEB-98		160.1
			TSS	93	% RECOVERY	MO	11-FEB-98		160.2
			ZN(D)	100	% RECOVERY	KPB	20-FEB-98		6020
WG980227-4		Duplicate	AS(D)	2.4	% RPD	KPB	20-FEB-98		6020
			CA	2.4	% RPD	JJT	11-FEB-98		6010
			CD(D)	<1	% RPD	KPB	20-FEB-98		6020
			CL-	2.7	% RPD	LV	17-FEB-98		325.2
			CO3	<1	% RPD	VK	10-FEB-98		310.1
			COND.	<1	% RPD	BD	11-FEB-98		120.1
			CR(D)	<1	% RPD	KPB	20-FEB-98		6020
			CU(D)	<1	% RPD	KPB	20-FEB-98		6020
			F-	3.0	% RPD	LV	23-FEB-98		340.2
			FE(D)	<1	% RPD	BD	18-FEB-98		236.1
			HCO3	<1	% RPD	VK	10-FEB-98		310.1
			K	5.1	% RPD	JJT	11-FEB-98		6010
			MG	<1	% RPD	JJT	11-FEB-98		6010
			NA	<1	% RPD	BD	18-FEB-98		6010
			NO2/NO3	3.9	% RPD	LV	17-FEB-98		353.2
			PB(D)	<1	% RPD	KPB	20-FEB-98		6020
			SE(D)	<1	% RPD	KPB	20-FEB-98		6020
			SO4=	2.9	% RPD	LV	19-FEB-98		9036
			TDS	<1	% RPD	JCH	12-FEB-98		160.1
			TSS	11	% RPD	MO	11-FEB-98		160.2
			ZN(D)	<1	% RPD	KPB	20-FEB-98		6020

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980227

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980227-5		Detection Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				236.1
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Vince Holle
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Vince Holle
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980342

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980342-1	11-FEB-98	EPRI-9802-147	AS(D)	.006	ppm	KPB	26-FEB-98	180	6020
			CA	167.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	500.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	4320	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	2.3	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	323.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	24.	ppm	JJT	20-FEB-98	180	6010
			MG	87.	ppm	JJT	20-FEB-98	180	6010
			NA	780.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	9.1	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.6	pH	BD	17-FEB-98		150.1
			SE(D)	.17	ppm	KPB	26-FEB-98	180	6020
			SO4=	1311.	ppm	LV	23-FEB-98	28	9036
			TDS	3099.	ppm	JCH	18-FEB-98	7	160.1
			TSS	5.4	ppm	MO	21-FEB-98		160.2
			ZN(D)	.024	ppm	KPB	26-FEB-98	180	6020
L980342-2	11-FEB-98	EPRI-9802-132	AS(D)	.015	ppm	KPB	26-FEB-98	180	6020
			CA	477.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	384.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	4470	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	.72	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	206.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	16.	ppm	BD	26-FEB-98	180	6010
			MG	144.	ppm	JJT	20-FEB-98	180	6010
			NA	511.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	19.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L980342

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980342-2	11-FEB-98	EPRI-9802-132	PH	7.3	pH	BD	17-FEB-98		150.1
			SE(D)	.13	ppm	KPB	26-FEB-98	180	6020
			SO4=	1896.	ppm	LV	23-FEB-98	28	9036
			TDS	4077.	ppm	JCH	18-FEB-98	7	160.1
			TSS	2.9	ppm	MO	21-FEB-98		160.2
			ZN(D)	.020	ppm	KPB	26-FEB-98	180	6020
L980342-3	11-FEB-98	EPRI-9802-179	AS(D)	.015	ppm	KPB	26-FEB-98	180	6020
			CA	477.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	385.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	4480	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	.72	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	210.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	17.	ppm	BD	26-FEB-98	180	6010
			MG	144.	ppm	JJT	20-FEB-98	180	6010
			NA	510.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	19.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.3	pH	BD	17-FEB-98		150.1
			SE(D)	.13	ppm	KPB	26-FEB-98	180	6020
			SO4=	1969.	ppm	LV	23-FEB-98	28	9036
			TDS	4056.	ppm	JCH	18-FEB-98	7	160.1
			TSS	3.2	ppm	MO	21-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
L980342-4	11-FEB-98	EPRI-9802-133	AS(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CA	271.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	638.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	4980	umhos	BD	17-FEB-98	28	120.1
			CR(D)	.016	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	.68	ppm	LV	27-FEB-98	28	340.2

ASARCO TECHNICAL SERVICES CENTER

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Water and Solid Waste (Project 3220)

Batch No: L980342

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980342-4	11-FEB-98	EPRI-9802-133	FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	200.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	17.	ppm	JJT	20-FEB-98	180	6010
			MG	114.	ppm	JJT	20-FEB-98	180	6010
			NA	765.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	33.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.7	pH	BD	17-FEB-98		150.1
			SE(D)	.28	ppm	KPB	26-FEB-98	180	6020
			SO4=	1610.	ppm	LV	23-FEB-98	28	9036
			TDS	3957.	ppm	JCH	18-FEB-98	7	160.1
			TSS	89.	ppm	MO	21-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
L980342-5	11-FEB-98	EPRI-9802-154	AS(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CA	165.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	314.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	2770	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	.70	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	218.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	20.	ppm	BD	26-FEB-98	180	6010
			MG	65.	ppm	JJT	20-FEB-98	180	6010
			NA	378.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	9.8	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.7	pH	BD	17-FEB-98		150.1
			SE(D)	.013	ppm	KPB	26-FEB-98	180	6020
			SO4=	747.	ppm	LV	23-FEB-98	28	9036
			TDS	1995.	ppm	JCH	18-FEB-98	7	160.1
			TSS	5.8	ppm	MO	21-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
L980342-6	11-FEB-98	EPRI-9802-136	AS(D)	.14	ppm	KPB	26-FEB-98	180	6020
			CA	379.	ppm	JJT	20-FEB-98	180	6010

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Batch No: L980342

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980342-6	11-FEB-98	EPRI-9802-136	CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	574.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	6770	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	.025	ppm	KPB	26-FEB-98	180	6020
			F-	.80	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	250.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	20.	ppm	BD	26-FEB-98	180	6010
			MG	180.	ppm	JJT	20-FEB-98	180	6010
			NA	1168.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	114.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	.012	ppm	KPB	26-FEB-98	180	6020
			PH	7.5	pH	BD	17-FEB-98		150.1
			SE(D)	.26	ppm	KPB	26-FEB-98	180	6020
			SO4=	2575.	ppm	LV	23-FEB-98	28	9036
			TDS	5828.	ppm	JCH	18-FEB-98	7	160.1
			TSS	1.3	ppm	MO	21-FEB-98		160.2
			ZN(D)	.027	ppm	KPB	26-FEB-98	180	6020
L980342-7	11-FEB-98	EPRI-9802-135	AS(D)	1.4	ppm	KPB	26-FEB-98	180	6020
			CA	304.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	.014	ppm	KPB	26-FEB-98	180	6020
			CL-	608.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	6600	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	1.1	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	238.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	26.	ppm	BD	26-FEB-98	180	6010
			MG	159.	ppm	JJT	20-FEB-98	180	6010
			NA	1230.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	78.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.4	pH	BD	17-FEB-98		150.1
			SE(D)	.22	ppm	KPB	26-FEB-98	180	6020

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Water and Solid Waste (Project 3220)

Batch No: L980342

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980342-7	11-FEB-98	EPRI-9802-135	SO4=	2464.	ppm	LV	23-FEB-98	28	9036
			TDS	5373.	ppm	JCH	18-FEB-98	7	160.1
			TSS	<1.0	ppm	MO	21-FEB-98		160.2
			ZN(D)	.20	ppm	KPB	26-FEB-98	180	6020
L980342-8	11-FEB-98	EPRI-9802-137	AS(D)	.50	ppm	KPB	26-FEB-98	180	6020
			CA	349.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	.21	ppm	KPB	26-FEB-98	180	6020
			CL-	574.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	6030	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	1.3	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	232.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	25.	ppm	JJT	20-FEB-98	180	6010
			MG	158.	ppm	JJT	20-FEB-98	180	6010
			NA	1016.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	53.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.4	pH	BD	17-FEB-98		150.1
			SE(D)	.36	ppm	KPB	26-FEB-98	180	6020
			SO4=	2209.	ppm	LV	23-FEB-98	28	9036
			TDS	4975.	ppm	JCH	18-FEB-98	7	160.1
			TSS	16.	ppm	MO	21-FEB-98		160.2
			ZN(D)	.53	ppm	KPB	26-FEB-98	180	6020
L980342-9	12-FEB-98	EPRI-9802-142	AS(D)	5.7	ppm	JJT	20-FEB-98	180	6010
			CA	228.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	.015	ppm	KPB	26-FEB-98	180	6020
			CL-	636.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	5330	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	2.4	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	270.	ppm CaCO3	BD	17-FEB-98	14	310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980342-9	12-FEB-98	EPRI-9802-142	K	34.	ppm	BD	26-FEB-98	180	6010
			MG	51.	ppm	JJT	20-FEB-98	180	6010
			NA	1067.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	.40	ppm	LV	26-FEB-98	28	353.2
			PB(D)	.005	ppm	KPB	26-FEB-98	180	6020
			PH	7.5	pH	BD	17-FEB-98		150.1
			SE(D)	.007	ppm	KPB	26-FEB-98	180	6020
			SO4=	1808.	ppm	LV	23-FEB-98	28	9036
			TDS	4046.	ppm	JCH	18-FEB-98	7	160.1
			TSS	249.	ppm	MO	21-FEB-98		160.2
			ZN(D)	.024	ppm	KPB	26-FEB-98	180	6020
L980342-10	12-FEB-98	EPRI-9802-153	AS(D)	.017	ppm	KPB	26-FEB-98	180	6020
			CA	59.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	448.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	5320	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	1.9	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	278.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	6.9	ppm	BD	26-FEB-98	180	6010
			MG	38.	ppm	JJT	20-FEB-98	180	6010
			NA	1344.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	.81	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.8	pH	BD	17-FEB-98		150.1
			SE(D)	.011	ppm	KPB	26-FEB-98	180	6020
			SO4=	1669.	ppm	LV	23-FEB-98	28	9036
			TDS	3946.	ppm	JCH	18-FEB-98	7	160.1
			TSS	60.	ppm	MO	21-FEB-98		160.2
			ZN(D)	.031	ppm	KPB	26-FEB-98	180	6020
L980342-11	12-FEB-98	EPRI-9802-138	AS(D)	.023	ppm	KPB	26-FEB-98	180	6020
			CA	292.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CL-	466.	ppm	LV	24-FEB-98	28	325.2

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L980342-11	12-FEB-98	EPRI-9802-138	CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	6850	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	2.4	ppm	LV	27-FEB-98	28	340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98	180	6010
			HCO3	234.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	417.	ppm	JJT	20-FEB-98	180	6010
			MG	125.	ppm	JJT	20-FEB-98	180	6010
			NA	1185.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	24.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	.004	ppm	KPB	26-FEB-98	180	6020
			PH	7.6	pH	BD	17-FEB-98		150.1
			SE(D)	1.2	ppm	KPB	26-FEB-98	180	6020
			SO4=	2861.	ppm	LV	23-FEB-98	28	9036
			TDS	5672.	ppm	JCH	18-FEB-98	7	160.1
			TSS	8.2	ppm	MO	21-FEB-98		160.2
			ZN(D)	.022	ppm	KPB	26-FEB-98	180	6020
L980342-12	12-FEB-98	EPRI-9802-176	AS(D)	1.6	ppm	JJT	20-FEB-98	180	6010
			CA	581.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	.71	ppm	KPB	26-FEB-98	180	6020
			CL-	1468.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	10870	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	.45	ppm	KPB	26-FEB-98	180	6020
			F-	6.3	ppm	LV	27-FEB-98	28	340.2
			FE(D)	.55	ppm	JJT	20-FEB-98	180	6010
			HCO3	526.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	23.	ppm	BD	26-FEB-98	180	6010
			MG	252.	ppm	JJT	20-FEB-98	180	6010
			NA	2276.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	130.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	.043	ppm	KPB	26-FEB-98	180	6020
			PH	6.9	pH	BD	17-FEB-98		150.1
			SE(D)	.30	ppm	KPB	26-FEB-98	180	6020
			SO4=	3538.	ppm	LV	23-FEB-98	28	9036
			TDS	9266.	ppm	JCH	18-FEB-98	7	160.1

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L980342-12	12-FEB-98	EPRI-9802-176	TSS	86.	ppm	MO	21-FEB-98		160.2
			ZN(D)	3.6	ppm	JJT	20-FEB-98	180	6010
L980342-13	12-FEB-98	EPRI-9802-118	AS(D)	10.	ppm	JJT	20-FEB-98	180	6010
			CA	690.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	3.9	ppm	KPB	26-FEB-98	180	6020
			CL-	2369.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	11070	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	5.6	ppm	KPB	26-FEB-98	180	6020
			F-	7.3	ppm	LV	27-FEB-98	28	340.2
			FE(D)	1.8	ppm	JJT	20-FEB-98	180	6010
			HCO3	210.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	51.	ppm	JJT	20-FEB-98	180	6010
			MG	412.	ppm	JJT	20-FEB-98	180	6010
			NA	1322.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	133.	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	6.9	pH	BD	17-FEB-98		150.1
			SE(D)	.17	ppm	KPB	26-FEB-98	180	6020
			SO4=	2550.	ppm	LV	23-FEB-98	28	9036
			TDS	8591.	ppm	JCH	18-FEB-98	7	160.1
			TSS	36.	ppm	MO	21-FEB-98		160.2
			ZN(D)	61.	ppm	JJT	20-FEB-98	180	6010
L980342-14	12-FEB-98	EPRI-9802-120	AS(D)	57.	ppm	JJT	20-FEB-98	180	6010
			CA	522.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	.042	ppm	KPB	26-FEB-98	180	6020
			CL-	922.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	10510	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			F-	22.	ppm	LV	27-FEB-98	28	340.2
			FE(D)	99.	ppm	JJT	20-FEB-98	180	6010
			HCO3	720.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	229.	ppm	JJT	20-FEB-98	180	6010
			MG	324.	ppm	JJT	20-FEB-98	180	6010

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L980342-14	12-FEB-98	EPRI-9802-120	NA	1794.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	6.9	pH	BD	17-FEB-98		150.1
			SE(D)	.19	ppm	KPB	26-FEB-98	180	6020
			SO4=	4863.	ppm	LV	23-FEB-98	28	9036
			TDS	9283.	ppm	JCH	18-FEB-98	7	160.1
			TSS	2141.	ppm	MO	21-FEB-98		160.2
			ZN(D)	71.	ppm	JJT	20-FEB-98	180	6010
L980342-15	12-FEB-98	EPRI-9802-119	AS(D)	27	ppm	JJT	20-FEB-98	180	6010
			CA	414.	ppm	JJT	20-FEB-98	180	6010
			CD(D)	2.0	ppm	KPB	26-FEB-98	180	6020
			CL-	790.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	10100	umhos	BD	17-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CU(D)	.21	ppm	KPB	26-FEB-98	180	6020
			F-	5.7	ppm	LV	27-FEB-98	28	340.2
			FE(D)	2.3	ppm	JJT	20-FEB-98	180	6010
			HCO3	464.	ppm CaCO3	BD	17-FEB-98	14	310.1
			K	342.	ppm	JJT	20-FEB-98	180	6010
			MG	255.	ppm	JJT	20-FEB-98	180	6010
			NA	1788.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	3.1	ppm	LV	26-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PH	7.4	pH	BD	17-FEB-98		150.1
			SE(D)	.065	ppm	KPB	26-FEB-98	180	6020
			SO4=	4900.	ppm	LV	23-FEB-98	28	9036
			TDS	8548.	ppm	JCH	18-FEB-98	7	160.1
			TSS	43.	ppm	MO	21-FEB-98		160.2
			ZN(D)	41.	ppm	JJT	20-FEB-98	180	6010

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Approved

Ken Bilak

Reviewer

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Batch No: WG980268

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980268-1		Matrix Spike	AS(D)	106	% RECOVERY	KPB	26-FEB-98		6020
			CD(D)	97	% RECOVERY	KPB	26-FEB-98		6020
			CL-	99	% RECOVERY	LV	24-FEB-98		325.2
			CR(D)	97	% RECOVERY	KPB	26-FEB-98		6020
			CU(D)	95	% RECOVERY	KPB	26-FEB-98		6020
			F-	94	% RECOVERY	LV	27-FEB-98		340.2
			FE(D)	102	% RECOVERY	JJT	20-FEB-98		6010
			NO2/NO3	109	% RECOVERY	LV	26-FEB-98		353.2
			PB(D)	96	% RECOVERY	KPB	26-FEB-98		6020
			SE(D)	106	% RECOVERY	KPB	26-FEB-98		6020
			SO4=	102	% RECOVERY	LV	23-FEB-98		9036
			ZN(D)	104	% RECOVERY	KPB	26-FEB-98		6020
WG980268-2		Prep Blank	AS(D)	<.005	ppm	KPB	26-FEB-98		6020
			CA	<1.0	ppm	JJT	20-FEB-98		6010
			CD(D)	<.005	ppm	KPB	26-FEB-98		6020
			CL-	<1.0	ppm	LV	24-FEB-98		325.2
			CO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			COND.	<5	umhos	BD	17-FEB-98		120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98		6020
			CU(D)	<.025	ppm	KPB	26-FEB-98		6020
			F-	<.050	ppm	LV	27-FEB-98		340.2
			FE(D)	<.10	ppm	JJT	20-FEB-98		6010
			HCO3	<1.0	ppm CaCO3	BD	17-FEB-98		310.1
			K	<2.0	ppm	JJT	20-FEB-98		6010
			MG	<1.0	ppm	JJT	20-FEB-98		6010
			NA	<2.0	ppm	JJT	20-FEB-98		6010
			NO2/NO3	<.050	ppm	LV	26-FEB-98		353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98		6020
			SE(D)	<.005	ppm	KPB	26-FEB-98		6020
			SO4=	<2.0	ppm	LV	23-FEB-98		9036
			TDS	<10.	ppm	JCH	18-FEB-98		160.1
			TSS	<1.0	ppm	MO	21-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98		6020
WG980268-3		Laboratory Control	AS(D)	96	% RECOVERY	KPB	26-FEB-98		6020
			CA	98	% RECOVERY	JJT	20-FEB-98		6010
			CD(D)	98	% RECOVERY	KPB	26-FEB-98		6020
			CL-	94	% RECOVERY	LV	24-FEB-98		325.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980268-3		Laboratory Control	COND.	99	% RECOVERY	BD	17-FEB-98		120.1
			CR(D)	96	% RECOVERY	KPB	26-FEB-98		6020
			CU(D)	100	% RECOVERY	KPB	26-FEB-98		6020
			F-	93	% RECOVERY	LV	27-FEB-98		340.2
			FE(D)	88	% RECOVERY	JJT	20-FEB-98		6010
			HCO3	98	% RECOVERY	BD	17-FEB-98		310.1
			K	95	% RECOVERY	JJT	20-FEB-98		6010
			MG	98	% RECOVERY	JJT	20-FEB-98		6010
			NA	95	% RECOVERY	JJT	20-FEB-98		6010
			NO2/NO3	103	% RECOVERY	LV	26-FEB-98		353.2
			PB(D)	98	% RECOVERY	KPB	26-FEB-98		6020
			SE(D)	96	% RECOVERY	KPB	26-FEB-98		6020
			SO4=	101	% RECOVERY	LV	23-FEB-98		9036
			TDS	99	% RECOVERY	JCH	18-FEB-98		160.1
			TSS	92	% RECOVERY	MO	21-FEB-98		160.2
			ZN(D)	98	% RECOVERY	KPB	26-FEB-98		6020
WG980268-4		Duplicate	AS(D)	+/-crdl	% RPD	KPB	26-FEB-98		6020
			CA	<1	% RPD	JJT	20-FEB-98		6010
			CD(D)	<1	% RPD	KPB	26-FEB-98		6020
			CL-	<1	% RPD	LV	24-FEB-98		325.2
			CO3	<1	% RPD	BD	17-FEB-98		310.1
			COND.	<1	% RPD	BD	17-FEB-98		120.1
			CR(D)	<1	% RPD	KPB	26-FEB-98		6020
			CU(D)	<1	% RPD	KPB	26-FEB-98		6020
			F-	1.8	% RPD	LV	27-FEB-98		340.2
			FE(D)	<1	% RPD	JJT	20-FEB-98		6010
			HCO3	<1	% RPD	BD	17-FEB-98		310.1
			K	1.7	% RPD	JJT	20-FEB-98		6010
			MG	<1	% RPD	JJT	20-FEB-98		6010
			NA	1.2	% RPD	JJT	20-FEB-98		6010
			NO2/NO3	<1	% RPD	LV	26-FEB-98		353.2
			PB(D)	<1	% RPD	KPB	26-FEB-98		6020
			SE(D)	<1	% RPD	KPB	26-FEB-98		6020
			SO4=	<1	% RPD	LV	23-FEB-98		9036
			TDS	<1	% RPD	JCH	18-FEB-98		160.1
			TSS	7.2	% RPD	MO	21-FEB-98		160.2
			ZN(D)	4.1	% RPD	KPB	26-FEB-98		6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980268-5		Detection Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
WG980268-6		Matrix Spike	AS(D)	110	% RECOVERY	JJT	20-FEB-98		6010
			ZN(D)	100	% RECOVERY	JJT	20-FEB-98		6010
WG980268-7		Prep Blank	AS(D)	<.050	ppm	JJT	20-FEB-98		6010
			ZN(D)	<.050	ppm	JJT	20-FEB-98		6010
WG980268-8		Laboratory Control Samples	AS(D)	100	% RECOVERY	JJT	20-FEB-98		6010
			ZN(D)	98	% RECOVERY	JJT	20-FEB-98		6010
WG980268-9		Duplicate	AS(D)	<1	% RPD	JJT	20-FEB-98		6010
			ZN(D)	<1	% RPD	JJT	20-FEB-98		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project)

Batch No: WG980268

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

Approved

Ken Bilak
Reviewer

ASARCO TECHN. SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-1	13-FEB-98	EPRI-9802-164	AS(D)	.007	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.010	ppm	KPB	26-FEB-98	180	6020M
			CA	86.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	160.	ppm	LV	24-FEB-98	28	325.2
			CO3	12.	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1388.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.73	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	1.6	ppm	BD	04-MAR-98	180	236.1
			HCO3	193.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	8.0	ppm	JJT	26-FEB-98	180	6010
			MG	19.	ppm	JJT	26-FEB-98	180	6010
			NA	203.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	1.3	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98	180	6020M
			PH	8.4	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	246.	ppm	LV	23-FEB-98	28	9036
			TDS	878.	ppm	JCH	19-FEB-98	7	160.1
			TSS	106.	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	<.020	ppm	KPB	26-FEB-98	180	6020M
L980371-2	13-FEB-98	EPRI-9802-170	AS(D)	.005	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.008	ppm	KPB	26-FEB-98	180	6020M
			CA	88.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	166.	ppm	LV	24-FEB-98	28	325.2
			CO3	12.	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1394.	umhos	BD	24-FEB-98	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-2	13-FEB-98	EPRI-9802-170	CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.70	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	1.6	ppm	BD	04-MAR-98	180	236.1
			HCO3	192.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	8.0	ppm	JJT	26-FEB-98	180	6010
			MG	19.	ppm	JJT	26-FEB-98	180	6010
			NA	209.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	1.5	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98	180	6020M
			PH	8.4	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	246.	ppm	LV	23-FEB-98	28	9036
			TDS	911.	ppm	JCH	19-FEB-98	7	160.1
			TSS	95.	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	<.020	ppm	KPB	26-FEB-98	180	6020M
L980371-3	13-FEB-98	EPRI-9802-169	AS(D)	.006	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.008	ppm	KPB	26-FEB-98	180	6020M
			CA	85.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	176.	ppm	LV	24-FEB-98	28	325.2
			CO3	16.	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1422.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.68	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	1.6	ppm	BD	04-MAR-98	180	236.1
			HCO3	183.	ppm CaCO3	DC	20-FEB-98	14	310.1

ASARCO TECHN SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-3	13-FEB-98	EPRI-9802-169	K	7.5	ppm	JJT	26-FEB-98	180	6010
			MG	18.	ppm	JJT	26-FEB-98	180	6010
			NA	211.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	1.8	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98	180	6020M
			PH	8.4	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	253.	ppm	LV	23-FEB-98	28	9036
			TDS	911.	ppm	JCH	19-FEB-98	7	160.1
			TSS	97.	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	.027	ppm	KPB	26-FEB-98	180	6020M
L980371-4	13-FEB-98	EPRI-9802-162	AS(D)	.006	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.009	ppm	KPB	26-FEB-98	180	6020M
			CA	84.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	171.	ppm	LV	24-FEB-98	28	325.2
			CO3	12.	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1440.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.69	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	1.6	ppm	BD	04-MAR-98	180	236.1
			HCO3	189.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	7.5	ppm	JJT	26-FEB-98	180	6010
			MG	18.	ppm	JJT	26-FEB-98	180	6010
			NA	217.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	1.8	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	.004	ppm	KPB	26-FEB-98	180	6020M
			PH	8.4	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-4	13-FEB-98	EPRI-9802-162	SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	256.	ppm	LV	23-FEB-98	28	9036
			TDS	961.	ppm	JCH	19-FEB-98	7	160.1
			TSS	95.	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	.022	ppm	KPB	26-FEB-98	180	6020M
L980371-5	13-FEB-98	EPRI-9802-168	AS(D)	.006	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.008	ppm	KPB	26-FEB-98	180	6020M
			CA	85.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	178.	ppm	LV	24-FEB-98	28	325.2
			CO3	12.	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1447.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.71	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	1.4	ppm	BD	04-MAR-98	180	236.1
			HCO3	184.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	8.2	ppm	JJT	26-FEB-98	180	6010
			MG	18.	ppm	JJT	26-FEB-98	180	6010
			NA	225.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	2.5	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	.011	ppm	KPB	26-FEB-98	180	6020M
			PH	8.4	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	259.	ppm	LV	23-FEB-98	28	9036
			TDS	949.	ppm	JCH	19-FEB-98	7	160.1
			TSS	91.	ppm	MO	20-FEB-98		160.2
			ZN(D)	.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	.025	ppm	KPB	26-FEB-98	180	6020M

ASARCO TECHN SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-6	13-FEB-98	EPRI-9802-167	AS(D)	.006	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.008	ppm	KPB	26-FEB-98	180	6020M
			CA	82.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	175.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1474.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.68	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	1.6	ppm	BD	04-MAR-98	180	236.1
			HCO3	188.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	7.4	ppm	JJT	26-FEB-98	180	6010
			MG	17.	ppm	JJT	26-FEB-98	180	6010
			NA	228.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	3.0	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98	180	6020M
			PH	8.3	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	264.	ppm	LV	23-FEB-98	28	9036
			TDS	960.	ppm	JCH	19-FEB-98	7	160.1
			TSS	80.	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	.029	ppm	KPB	26-FEB-98	180	6020M
L980371-7	13-FEB-98	EPRI-9802-161	AS(D)	.62	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.58	ppm	KPB	26-FEB-98	180	6020M
			CA	203.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	481.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	4580.	umhos	BD	24-FEB-98	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-7	13-FEB-98	EPRI-9802-161	CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	2.1	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	<.10	ppm	BD	04-MAR-98	180	236.1
			HCO3	318.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	67.	ppm	JJT	26-FEB-98	180	6010
			MG	76.	ppm	JJT	26-FEB-98	180	6010
			NA	748.	ppm	JJT	20-FEB-98	180	6010
			NO2/NO3	3.8	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98	180	6020M
			PH	7.9	pH	DC	20-FEB-98		150.1
			SE(D)	.12	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	.11	ppm	KPB	26-FEB-98		6020M
			SO4=	1676.	ppm	LV	23-FEB-98	28	9036
			TDS	3300.	ppm	JCH	19-FEB-98	7	160.1
			TSS	20.	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	<.020	ppm	KPB	26-FEB-98	180	6020M
L980371-8	13-FEB-98	EPRI-9802-165	AS(D)	.015	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.020	ppm	KPB	26-FEB-98	180	6020M
			CA	83.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	178.	ppm	LV	24-FEB-98	28	325.2
			CO3	18.	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1479.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.71	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	.60	ppm	BD	04-MAR-98	180	236.1
			HCO3	167.	ppm CaCO3	DC	20-FEB-98	14	310.1

ASARCO TECH SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-8	13-FEB-98	EPRI-9802-165	K	7.9	ppm	JJT	26-FEB-98	180	6010
			MG	18.	ppm	JJT	26-FEB-98	180	6010
			NA	232.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	3.0	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98	180	6020M
			PH	8.5	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	285.	ppm	LV	23-FEB-98	28	9036
			TDS	959.	ppm	JCH	19-FEB-98	7	160.1
			TSS	47.	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	.024	ppm	KPB	26-FEB-98	180	6020M
L980371-9	13-FEB-98	EPRI-9802-166	AS(D)	.009	ppm	KPB	27-FEB-98	180	6020
			AS(TR)	.010	ppm	KPB	26-FEB-98	180	6020M
			CA	71.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98	180	6020M
			CL-	206.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	1550.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	.70	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	.60	ppm	BD	04-MAR-98	180	236.1
			HCO3	164.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	8.9	ppm	JJT	26-FEB-98	180	6010
			MG	15.	ppm	JJT	26-FEB-98	180	6010
			NA	272.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	6.5	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98	180	6020M
			PH	8.2	pH	DC	20-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	26-FEB-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980371-9	13-FEB-98	EPRI-9802-166	SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	286.	ppm	LV	23-FEB-98	28	9036
			TDS	1030.	ppm	JCH	19-FEB-98	7	160.1
			TSS	44.	ppm	MO	20-FEB-98		160.2
			ZN(D)	.035	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	.031	ppm	KPB	26-FEB-98	180	6020M
L980371-10	13-FEB-98	EPRI-9802-163	AS(D)	.53	ppm	KPB	26-FEB-98	180	6020
			AS(TR)	.50	ppm	KPB	26-FEB-98	180	6020M
			CA	216.	ppm	JJT	26-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	26-FEB-98	180	6020
			CD(TR)	.008	ppm	KPB	26-FEB-98	180	6020M
			CL-	679.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	5410.	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98	180	6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98	180	6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98	180	6020M
			F-	1.8	ppm	LV	23-FEB-98	28	340.2
			FE(D)	<.10	ppm	BD	04-MAR-98	180	236.1
			FE(TR)	<.10	ppm	BD	04-MAR-98	180	236.1
			HCO3	280.	ppm CaCO3	DC	20-FEB-98	14	310.1
			K	54.	ppm	JJT	26-FEB-98	180	6010
			MG	89.	ppm	JJT	26-FEB-98	180	6010
			NA	965.	ppm	JJT	26-FEB-98	180	6010
			NO2/NO3	8.6	ppm	LV	27-FEB-98	28	353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98	180	6020
			PB(TR)	.006	ppm	KPB	26-FEB-98	180	6020M
			PH	8.1	pH	DC	20-FEB-98		150.1
			SE(D)	.11	ppm	KPB	26-FEB-98	180	6020
			SE(TR)	.11	ppm	KPB	26-FEB-98		6020M
			SO4=	1832.	ppm	LV	23-FEB-98	28	9036
			TDS	3979.	ppm	JCH	19-FEB-98	7	160.1
			TSS	21.	ppm	MO	20-FEB-98		160.2
			ZN(D)	.022	ppm	KPB	26-FEB-98	180	6020
			ZN(TR)	.025	ppm	KPB	26-FEB-98	180	6020M

ASARCO TECHNI[illegible] [illegible]ERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980371

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

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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980274

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980274-1		Matrix Spike	AS(TR)	97	% RECOVERY	KPB	26-FEB-98		6020M
			CD(TR)	96	% RECOVERY	KPB	26-FEB-98		6020M
			CL-	96	% RECOVERY	LV	24-FEB-98		325.2
			CR(TR)	95	% RECOVERY	KPB	26-FEB-98		6020M
			CU(TR)	89	% RECOVERY	KPB	26-FEB-98		6020M
			F-	95	% RECOVERY	LV	23-FEB-98		340.2
			FE(D)	104	% RECOVERY	BD	04-MAR-98		236.1
			FE(TR)	SR>4xSA	% RECOVERY	BD	04-MAR-98		236.1
			NO2/NO3	101	% RECOVERY	LV	27-FEB-98		353.2
			PB(TR)	96	% RECOVERY	KPB	26-FEB-98		6020M
			SE(TR)	91	% RECOVERY	KPB	26-FEB-98		6020M
			SO4=	100	% RECOVERY	LV	23-FEB-98		9036
			ZN(TR)	91	% RECOVERY	KPB	26-FEB-98		6020M
WG980274-2		Prep Blank	AS(D)	<.005	ppm	KPB	27-FEB-98		6020
			AS(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			CA	<1.0	ppm	JJT	26-FEB-98		6010
			CD(D)	<.005	ppm	KPB	26-FEB-98		6020
			CD(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			CL-	<1.0	ppm	LV	24-FEB-98		325.2
			CO3	<1.0	ppm CaCO3	DC	20-FEB-98		310.1
			COND.	<5	umhos	BD	24-FEB-98		120.1
			CR(D)	<.010	ppm	KPB	26-FEB-98		6020
			CR(TR)	<.010	ppm	KPB	26-FEB-98		6020M
			CU(D)	<.025	ppm	KPB	26-FEB-98		6020
			CU(TR)	<.025	ppm	KPB	26-FEB-98		6020M
			F-	<.050	ppm	LV	23-FEB-98		340.2
			FE(D)	<.10	ppm	BD	04-MAR-98		236.1
			FE(TR)	<.10	ppm	BD	04-MAR-98		236.1
			HCO3	<1.0	ppm CaCO3	DC	20-FEB-98		310.1
			K	<2.0	ppm	JJT	26-FEB-98		6010
			MG	<1.0	ppm	JJT	26-FEB-98		6010
			NA	<2.0	ppm	JJT	26-FEB-98		6010
			NO2/NO3	<.050	ppm	LV	27-FEB-98		353.2
			PB(D)	<.003	ppm	KPB	26-FEB-98		6020
			PB(TR)	<.003	ppm	KPB	26-FEB-98		6020M
			SE(D)	<.005	ppm	KPB	26-FEB-98		6020
			SE(TR)	<.005	ppm	KPB	26-FEB-98		6020M
			SO4=	<2.0	ppm	LV	23-FEB-98		9036

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Water and Solid Waste (Project 3220)

Batch No: WG980274

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980274-2		Prep Blank	TDS	<10.	ppm	JCH	19-FEB-98		160.1
			TSS	<1.0	ppm	MO	20-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98		6020
			ZN(TR)	<.020	ppm	KPB	26-FEB-98		6020M
WG980274-3		Laboratory Control	AS(D)	96	% RECOVERY	KPB	27-FEB-98		6020
			AS(TR)	103	% RECOVERY	KPB	26-FEB-98		6020M
			CA	106	% RECOVERY	JJT	26-FEB-98		6010
			CD(D)	100	% RECOVERY	KPB	26-FEB-98		6020
			CD(TR)	98	% RECOVERY	KPB	26-FEB-98		6020M
			CL-	96	% RECOVERY	LV	24-FEB-98		325.2
			COND.	100	% RECOVERY	BD	24-FEB-98		120.1
			CR(D)	100	% RECOVERY	KPB	26-FEB-98		6020
			CR(TR)	111	% RECOVERY	KPB	26-FEB-98		6020M
			CU(D)	101	% RECOVERY	KPB	26-FEB-98		6020
			CU(TR)	96	% RECOVERY	KPB	26-FEB-98		6020M
			F-	93	% RECOVERY	LV	23-FEB-98		340.2
			FE(D)	90	% RECOVERY	BD	04-MAR-98		236.1
			FE(TR)	95	% RECOVERY	BD	04-MAR-98		236.1
			HCO3	96	% RECOVERY	DC	20-FEB-98		310.1
			K	98	% RECOVERY	JJT	26-FEB-98		6010
			MG	102	% RECOVERY	JJT	26-FEB-98		6010
			NA	103	% RECOVERY	JJT	26-FEB-98		6010
			NO2/NO3	96	% RECOVERY	LV	27-FEB-98		353.2
			PB(D)	100	% RECOVERY	KPB	26-FEB-98		6020
			PB(TR)	100	% RECOVERY	KPB	26-FEB-98		6020M
			SE(D)	98	% RECOVERY	KPB	26-FEB-98		6020
			SE(TR)	101	% RECOVERY	KPB	26-FEB-98		6020M
			SO4=	104	% RECOVERY	LV	23-FEB-98		9036
			TDS	98	% RECOVERY	JCH	19-FEB-98		160.1
			TSS	94	% RECOVERY	MO	20-FEB-98		160.2
			ZN(D)	102	% RECOVERY	KPB	26-FEB-98		6020
			ZN(TR)	139*	% RECOVERY	KPB	26-FEB-98		6020M
WG980274-4		Duplicate	AS(D)	<1	% RPD	KPB	27-FEB-98		6020
			AS(TR)	<1	% RPD	KPB	26-FEB-98		6020M
			CA	1.0	% RPD	JJT	26-FEB-98		6010
			CD(D)	<1	% RPD	KPB	26-FEB-98		6020
			CD(TR)	<1	% RPD	KPB	26-FEB-98		6020M

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980274

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980274-4		Duplicate	CL-	2.3	% RPD	LV	24-FEB-98		325.2
			CO3	<1	% RPD	DC	20-FEB-98		310.1
			COND.	<1	% RPD	BD	24-FEB-98		120.1
			CR(D)	<1	% RPD	KPB	26-FEB-98		6020
			CR(TR)	<1	% RPD	KPB	26-FEB-98		6020M
			CU(D)	<1	% RPD	KPB	26-FEB-98		6020
			CU(TR)	<1	% RPD	KPB	26-FEB-98		6020M
			F-	3.2	% RPD	LV	23-FEB-98		340.2
			FE(D)	<1	% RPD	BD	04-MAR-98		236.1
			FE(TR)	<1	% RPD	BD	04-MAR-98		236.1
			HCO3	<1	% RPD	DC	20-FEB-98		310.1
			K	8.2	% RPD	JJT	26-FEB-98		6010
			MG	4.7	% RPD	JJT	26-FEB-98		6010
			NA	3.6	% RPD	JJT	26-FEB-98		6010
			NO2/NO3	2.8	% RPD	LV	27-FEB-98		353.2
			PB(D)	<1	% RPD	KPB	26-FEB-98		6020
			PB(TR)	+/-crdl	% RPD	KPB	26-FEB-98		6020M
			SE(D)	<1	% RPD	KPB	26-FEB-98		6020
			SE(TR)	<1	% RPD	KPB	26-FEB-98		6020M
			SO4=	<1	% RPD	LV	23-FEB-98		9036
			TDS	<1	% RPD	JCH	19-FEB-98		160.1
			TSS	10.	% RPD	MO	20-FEB-98		160.2
			ZN(D)	1.5	% RPD	KPB	26-FEB-98		6020
			ZN(TR)	<1	% RPD	KPB	26-FEB-98		6020M
WG980274-5		Detection Limit	AS(D)	.005	ppm				6020
			AS(TR)	.005	ppm				6020M
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CD(TR)	.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CR(TR)	.010	ppm				6020M
			CU(D)	.025	ppm				6020
			CU(TR)	.025	ppm				6020M
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				236.1

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980274

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980274-5		Detection Limit	FE(TR)	.10	ppm				236.1
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			PB(TR)	.003	ppm				6020M
			SE(D)	.005	ppm				6020
			SE(TR)	.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
			ZN(TR)	.020	ppm				6020M

* = spot contamination.

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980395-1	17-FEB-98	EPRI-9802-106	AS(D)	1.3	ppm	KPB	04-MAR-98	180	6020
			CA	383.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	350.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	4520	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	1.5	ppm	LV	04-MAR-98	28	340.2
			FE(D)	.17	ppm	JJT	24-FEB-98	180	6010
			HCO3	265.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	51.	ppm	JJT	24-FEB-98	180	6010
			MG	97.	ppm	JJT	24-FEB-98	180	6010
			NA	671.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	17.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.004	ppm	KPB	04-MAR-98	180	6020
			PH	7.5	pH	DC	24-FEB-98		150.1
			SE(D)	.30	ppm	KPB	04-MAR-98	180	6020
			SO4=	1707.	ppm	LV	04-MAR-98	28	9036
			TDS	3852.	ppm	JCH	24-FEB-98	7	160.1
			TSS	2.6	ppm	MO	23-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-2	17-FEB-98	EPRI-9802-105	AS(D)	48.	ppm	JJT	24-FEB-98	180	6010
			CA	348.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.68	ppm	KPB	04-MAR-98	180	6020
			CL-	634.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	11910	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	.027	ppm	KPB	04-MAR-98	180	6020
			F-	1.4	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	342.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	102.	ppm	JJT	24-FEB-98	180	6010
			MG	59.	ppm	JJT	24-FEB-98	180	6010
			NA	2992.	ppm	BD	26-FEB-98	180	6010
			NO2/NO3	103.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020

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Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980395-2	17-FEB-98	EPRI-9802-105	PH	7.7	pH	DC	24-FEB-98		150.1
			SE(D)	6.1	ppm	KPB	04-MAR-98	180	6020
			SO4=	5364.	ppm	LV	04-MAR-98	28	9036
			TDS	10540.	ppm	JCH	24-FEB-98	7	160.1
			TSS	23.	ppm	MO	23-FEB-98		160.2
			ZN(D)	.025	ppm	KPB	04-MAR-98	180	6020
L980395-3	17-FEB-98	EPRI-9802-107	AS(D)	.031	ppm	KPB	04-MAR-98	180	6020
			CA	122.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.016	ppm	KPB	04-MAR-98	180	6020
			CL-	329.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	3100	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	.84	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	215.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	11.	ppm	BD	26-FEB-98	180	6010
			MG	43.	ppm	JJT	24-FEB-98	180	6010
			NA	557.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	17.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.7	pH	DC	24-FEB-98		150.1
			SE(D)	.16	ppm	KPB	04-MAR-98	180	6020
			SO4=	885.	ppm	LV	04-MAR-98	28	9036
			TDS	2299.	ppm	JCH	24-FEB-98	7	160.1
			TSS	86.	ppm	MO	23-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-4	17-FEB-98	EPRI-9802-157	AS(D)	.009	ppm	KPB	04-MAR-98	180	6020
			CA	451.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.008	ppm	KPB	04-MAR-98	180	6020
			CL-	3358.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	11150	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	1.3	ppm	LV	04-MAR-98	28	340.2

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Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980395-4	17-FEB-98	EPRI-9802-157	FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	128.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	40.	ppm	JJT	24-FEB-98	180	6010
			MG	220.	ppm	JJT	24-FEB-98	180	6010
			NA	1950.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	.25	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.4	pH	DC	24-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			SO4=	503.	ppm	LV	04-MAR-98	28	9036
			TDS	7157.	ppm	JCH	24-FEB-98	7	160.1
			TSS	<1.0	ppm	MO	23-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-5	17-FEB-98	EPRI-9802-156	AS(D)	.55	ppm	KPB	04-MAR-98	180	6020
			CA	179.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	436.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	4150	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	1.4	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	264.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	15.	ppm	BD	26-FEB-98	180	6010
			MG	72.	ppm	JJT	24-FEB-98	180	6010
			NA	791.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	20.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.7	pH	DC	24-FEB-98		150.1
			SE(D)	.12	ppm	KPB	04-MAR-98	180	6020
			SO4=	1247.	ppm	LV	04-MAR-98	28	9036
			TDS	3159.	ppm	JCH	24-FEB-98	7	160.1
			TSS	20.	ppm	MO	23-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-6	17-FEB-98	EPRI-9802-139	AS(D)	.18	ppm	KPB	04-MAR-98	180	6020
			CA	117.	ppm	JJT	24-FEB-98	180	6010

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L980395-6	17-FEB-98	EPRI-9802-139	CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	316.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	2950	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	.51	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	244.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	9.0	ppm	BD	26-FEB-98	180	6010
			MG	58.	ppm	JJT	24-FEB-98	180	6010
			NA	510.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	14.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.8	pH	DC	24-FEB-98		150.1
			SE(D)	.75	ppm	KPB	04-MAR-98	180	6020
			SO4=	832.	ppm	LV	04-MAR-98	28	9036
			TDS	2132.	ppm	JCH	24-FEB-98	7	160.1
			TSS	129.	ppm	MO	23-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-7	17-FEB-98	EPRI-9802-158	AS(D)	1.6	ppm	KPB	04-MAR-98	180	6020
			CA	277.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.066	ppm	KPB	04-MAR-98	180	6020
			CL-	794.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	6990	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	.030	ppm	KPB	04-MAR-98	180	6020
			F-	8.0	ppm	LV	04-MAR-98	28	340.2
			FE(D)	2.4	ppm	JJT	24-FEB-98	180	6010
			HCO3	160.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	87.	ppm	JJT	24-FEB-98	180	6010
			MG	68.	ppm	JJT	24-FEB-98	180	6010
			NA	1528.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	.28	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.009	ppm	KPB	04-MAR-98	180	6020
			PH	7.7	pH	DC	24-FEB-98		150.1
			SE(D)	.012	ppm	KPB	04-MAR-98	180	6020

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L980395-7	17-FEB-98	EPRI-9802-158	SO4=	2477.	ppm	LV	04-MAR-98	28	9036
			TDS	5485.	ppm	JCH	24-FEB-98	7	160.1
			TSS	8.6	ppm	MO	23-FEB-98		160.2
			ZN(D)	.38	ppm	KPB	04-MAR-98	180	6020
L980395-8	17-FEB-98	EPRI-9802-159	AS(D)	.028	ppm	KPB	04-MAR-98	180	6020
			CA	120.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.006	ppm	KPB	04-MAR-98	180	6020
			CL-	419.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	4330	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	.043	ppm	KPB	04-MAR-98	180	6020
			F-	1.9	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	305.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	14.	ppm	BD	26-FEB-98	180	6010
			MG	77.	ppm	JJT	24-FEB-98	180	6010
			NA	877.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	9.0	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.8	pH	DC	24-FEB-98		150.1
			SE(D)	.10	ppm	KPB	04-MAR-98	180	6020
			SO4=	1280.	ppm	LV	04-MAR-98	28	9036
			TDS	3160.	ppm	JCH	24-FEB-98	7	160.1
			TSS	<1	ppm	MO	23-FEB-98		160.2
			ZN(D)	.045	ppm	KPB	04-MAR-98	180	6020
L980395-9	18-FEB-98	EPRI-9802-123	AS(D)	4.2	ppm	KPB	04-MAR-98	180	6020
			CA	497.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	851.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	11510	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	4.7	ppm	LV	04-MAR-98	28	340.2
			FE(D)	.90	ppm	JJT	24-FEB-98	180	6010
			HCO3	1056.	ppm CaCO3	DC	24-FEB-98	14	310.1

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L980395-9	18-FEB-98	EPRI-9802-123	K	263.	ppm	JJT	24-FEB-98	180	6010
			MG	198.	ppm	JJT	24-FEB-98	180	6010
			NA	2510.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	6.8	pH	DC	24-FEB-98		150.1
			SE(D)	.027	ppm	KPB	04-MAR-98	180	6020
			SO4=	4006.	ppm	LV	04-MAR-98	28	9036
			TDS	9349.	ppm	JCH	24-FEB-98	7	160.1
			TSS	72.	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-10	18-FEB-98	EPRI-9802-126	AS(D)	.025	ppm	KPB	04-MAR-98	180	6020
			CA	477.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	857.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	9200	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	1.6	ppm	LV	04-MAR-98	28	340.2
			FE(D)	.35	ppm	JJT	24-FEB-98	180	6010
			HCO3	318.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	23.	ppm	BD	26-FEB-98	180	6010
			MG	201.	ppm	JJT	24-FEB-98	180	6010
			NA	2082.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	207.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.3	pH	DC	24-FEB-98		150.1
			SE(D)	.36	ppm	KPB	04-MAR-98	180	6020
			SO4=	3213.	ppm	LV	04-MAR-98	28	9036
			TDS	8017.	ppm	JCH	24-FEB-98	7	160.1
			TSS	104.	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-11	18-FEB-98	EPRI-9802-180	AS(D)	.015	ppm	KPB	04-MAR-98	180	6020
			CA	477.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	826.	ppm	LV	24-FEB-98	28	325.2

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L980395-11	18-FEB-98	EPRI-9802-180	CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	9190	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	1.6	ppm	LV	04-MAR-98	28	340.2
			FE(D)	1.0	ppm	JJT	24-FEB-98	180	6010
			HCO3	326.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	24.	ppm	JJT	24-FEB-98	180	6010
			MG	210.	ppm	JJT	24-FEB-98	180	6010
			NA	2118.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	210.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.4	pH	DC	24-FEB-98		150.1
			SE(D)	.35	ppm	KPB	04-MAR-98	180	6020
			SO4=	3375.	ppm	LV	04-MAR-98	28	9036
			TDS	7997.	ppm	JCH	24-FEB-98	7	160.1
			TSS	44.	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-12	18-FEB-98	EPRI-9802-130	AS(D)	.009	ppm	KPB	04-MAR-98	180	6020
			CA	409.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	690.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	7500	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	2.0	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	427.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	24.	ppm	JJT	24-FEB-98	180	6010
			MG	165.	ppm	JJT	24-FEB-98	180	6010
			NA	1661.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	58.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.5	pH	DC	24-FEB-98		150.1
			SE(D)	.20	ppm	KPB	04-MAR-98	180	6020
			SO4=	2718.	ppm	LV	04-MAR-98	28	9036
			TDS	6383.	ppm	JCH	24-FEB-98	7	160.1

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L980395-12	18-FEB-98	EPRI-9802-130	TSS	8.4	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-13	18-FEB-98	EPRI-9802-122	AS(D)	.98	ppm	KPB	04-MAR-98	180	6020
			CA	89.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	261.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	2900	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	.94	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	964.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	18.	ppm	BD	26-FEB-98	180	6010
			MG	76.	ppm	JJT	24-FEB-98	180	6010
			NA	500.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	.20	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.5	pH	DC	24-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			SO4=	298.	ppm	LV	04-MAR-98	28	9036
			TDS	1978.	ppm	JCH	24-FEB-98	7	160.1
			TSS	42.	ppm	MO	25-FEB-98		160.2
			ZN(D)	.022	ppm	KPB	04-MAR-98	180	6020
L980395-14	18-FEB-98	EPRI-9802-110	AS(D)	.035	ppm	KPB	04-MAR-98	180	6020
			CA	253.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.005	ppm	KPB	04-MAR-98	180	6020
			CL-	903.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	9900	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	.035	ppm	KPB	04-MAR-98	180	6020
			F-	4.5	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	729.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	281.	ppm	JJT	24-FEB-98	180	6010
			MG	155.	ppm	JJT	24-FEB-98	180	6010

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L980395-14	18-FEB-98	EPRI-9802-110	NA	1664.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	294.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.018	ppm	KPB	04-MAR-98	180	6020
			PH	7.6	pH	DC	24-FEB-98		150.1
			SE(D)	.59	ppm	KPB	04-MAR-98	180	6020
			SO4=	2219.	ppm	LV	04-MAR-98	28	9036
			TDS	6247.	ppm	JCH	24-FEB-98	7	160.1
			TSS	45.	ppm	MO	25-FEB-98		160.2
			ZN(D)	2.1	ppm	KPB	04-MAR-98	180	6020
L980395-15	18-FEB-98	EPRI-9802-109	AS(D)	.062	ppm	KPB	04-MAR-98	180	6020
			CA	65.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	697.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	5980	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	4.8	ppm	LV	04-MAR-98	28	340.2
			FE(D)	.17	ppm	JJT	24-FEB-98	180	6010
			HCO3	1586.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	466.	ppm	JJT	24-FEB-98	180	6010
			MG	51.	ppm	JJT	24-FEB-98	180	6010
			NA	1108.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	8.0	pH	DC	24-FEB-98		150.1
			SE(D)	.095	ppm	KPB	04-MAR-98	180	6020
			SO4=	511.	ppm	LV	04-MAR-98	28	9036
			TDS	3770.	ppm	JCH	24-FEB-98	7	160.1
			TSS	27.	ppm	MO	25-FEB-98		160.2
			ZN(D)	.038	ppm	KPB	04-MAR-98	180	6020
L980395-16	18-FEB-98	EPRI-9802-112	AS(D)	.031	ppm	KPB	04-MAR-98	180	6020
			CA	213.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	1027.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	5130	umhos	BD	24-FEB-98	28	120.1

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L980395-16	18-FEB-98	EPRI-9802-112	CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	2.6	ppm	LV	04-MAR-98	28	340.2
			FE(D)	.20	ppm	JJT	24-FEB-98	180	6010
			HCO3	984.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	29.	ppm	JJT	24-FEB-98	180	6010
			MG	47.	ppm	JJT	24-FEB-98	180	6010
			NA	1033.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	8.1	pH	DC	24-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			SO4=	305.	ppm	LV	04-MAR-98	28	9036
			TDS	3259.	ppm	JCH	24-FEB-98	7	160.1
			TSS	16.	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-17	18-FEB-98	EPRI-9802-113	AS(D)	3.1	ppm	KPB	04-MAR-98	180	6020
			CA	78.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	937.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	5420	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	1.6	ppm	LV	04-MAR-98	28	340.2
			FE(D)	4.0	ppm	JJT	24-FEB-98	180	6010
			HCO3	1302.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	53.	ppm	JJT	24-FEB-98	180	6010
			MG	39.	ppm	JJT	24-FEB-98	180	6010
			NA	1232.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.6	pH	DC	24-FEB-98		150.1
			SE(D)	.044	ppm	KPB	04-MAR-98	180	6020
			SO4=	147.	ppm	LV	04-MAR-98	28	9036
			TDS	3218.	ppm	JCH	24-FEB-98	7	160.1
			TSS	500.	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980395-18	19-FEB-98	EPRI-9802-171	AS(D)	.59	ppm	KPB	05-MAR-98	180	6020
			CA	411.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	15.	ppm	JJT	24-FEB-98	180	6010
			CL-	1134.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	25600	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	05-MAR-98	180	6020
			CU(D)	.47	ppm	KPB	05-MAR-98	180	6020
			F-	21.	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	126.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	329.	ppm	JJT	24-FEB-98	180	6010
			MG	135.	ppm	JJT	24-FEB-98	180	6010
			NA	7362.	ppm	BD	26-FEB-98	180	6010
			NO2/NO3	23.	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.090	ppm	KPB	05-MAR-98	180	6020
			PH	7.7	pH	DC	24-FEB-98		150.1
			SE(D)	.91	ppm	KPB	05-MAR-98	180	6020
			SO4=	14493.	ppm	LV	04-MAR-98	28	9036
			TDS	24898.	ppm	JCH	24-FEB-98	7	160.1
			TSS	8.8	ppm	MO	25-FEB-98		160.2
			ZN(D)	116.	ppm	JJT	24-FEB-98	180	6010
L980395-19	19-FEB-98	EPRI-9802-172	AS(D)	.14	ppm	KPB	04-MAR-98	180	6020
			CA	41.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.040	ppm	KPB	04-MAR-98	180	6020
			CL-	144.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	1152	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	.34	ppm	KPB	04-MAR-98	180	6020
			F-	.91	ppm	LV	04-MAR-98	28	340.2
			FE(D)	.22	ppm	JJT	24-FEB-98	180	6010
			HCO3	75.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	6.3	ppm	BD	26-FEB-98	180	6010
			MG	6.9	ppm	JJT	24-FEB-98	180	6010
			NA	195.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	1.2	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.26	ppm	KPB	04-MAR-98	180	6020

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ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980395-19	19-FEB-98	EPRI-9802-172	PH	7.5	pH	DC	24-FEB-98		150.1
			SE(D)	.026	ppm	KPB	04-MAR-98	180	6020
			SO4=	237.	ppm	LV	04-MAR-98	28	9036
			TDS	775.	ppm	JCH	24-FEB-98	7	160.1
			TSS	1.8	ppm	MO	25-FEB-98		160.2
			ZN(D)	.43	ppm	KPB	04-MAR-98	180	6020
L980395-20	19-FEB-98	EPRI-9802-173	AS(D)	1.8	ppm	KPB	04-MAR-98	180	6020
			CA	103.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.13	ppm	KPB	04-MAR-98	180	6020
			CL-	402.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	3960	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	1.0	ppm	KPB	04-MAR-98	180	6020
			F-	5.1	ppm	LV	04-MAR-98	28	340.2
			FE(D)	.76	ppm	JJT	24-FEB-98	180	6010
			HCO3	60.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	17.	ppm	BD	26-FEB-98	180	6010
			MG	11.	ppm	JJT	24-FEB-98	180	6010
			NA	938.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	1.2	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.25	ppm	KPB	04-MAR-98	180	6020
			PH	7.8	pH	DC	24-FEB-98		150.1
			SE(D)	.080	ppm	KPB	04-MAR-98	180	6020
			SO4=	1363.	ppm	LV	04-MAR-98	28	9036
			TDS	2914.	ppm	JCH	24-FEB-98	7	160.1
			TSS	23.	ppm	MO	25-FEB-98		160.2
			ZN(D)	1.8	ppm	KPB	04-MAR-98	180	6020
L980395-21	19-FEB-98	EPRI-9802-160	AS(D)	2.1	ppm	KPB	04-MAR-98	180	6020
			CA	234.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	.009	ppm	KPB	04-MAR-98	180	6020
			CL-	679.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	6020	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	.055	ppm	KPB	04-MAR-98	180	6020
			F-	6.1	ppm	LV	04-MAR-98	28	340.2

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Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980395-21	19-FEB-98	EPRI-9802-160	FE(D)	.34	ppm	JJT	24-FEB-98	180	6010
			HCO3	250.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	39.	ppm	JJT	24-FEB-98	180	6010
			MG	48.	ppm	JJT	24-FEB-98	180	6010
			NA	1349.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	.32	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.030	ppm	KPB	04-MAR-98	180	6020
			PH	7.8	pH	DC	24-FEB-98		150.1
			SE(D)	.055	ppm	KPB	04-MAR-98	180	6020
			SO4=	2064.	ppm	LV	04-MAR-98	28	9036
			TDS	4588.	ppm	JCH	24-FEB-98	7	160.1
			TSS	9.2	ppm	MO	25-FEB-98		160.2
			ZN(D)	.078	ppm	KPB	04-MAR-98	180	6020
L980395-22	19-FEB-98	EPRI-9802-155	AS(D)	.056	ppm	KPB	04-MAR-98	180	6020
			CA	209.	ppm	JJT	24-FEB-98	180	6010
			CD(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			CL-	720.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	5480	umhos	BD	24-FEB-98	28	120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98	180	6020
			CU(D)	<.025	ppm	KPB	04-MAR-98	180	6020
			F-	.73	ppm	LV	04-MAR-98	28	340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98	180	6010
			HCO3	186.	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	28.	ppm	JJT	24-FEB-98	180	6010
			MG	122.	ppm	JJT	24-FEB-98	180	6010
			NA	1075.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	.054	ppm	LV	05-MAR-98	28	353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98	180	6020
			PH	7.5	pH	DC	24-FEB-98		150.1
			SE(D)	<.005	ppm	KPB	04-MAR-98	180	6020
			SO4=	1695.	ppm	LV	04-MAR-98	28	9036
			TDS	4192.	ppm	JCH	24-FEB-98	7	160.1
			TSS	50.	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98	180	6020
L980395-23	19-FEB-98	EPRI-9802-117	AS(D)	464.	ppm	BD	06-MAR-98	180	6010
			CA	466.	ppm	JJT	24-FEB-98	180	6010

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980395-23	19-FEB-98	EPRI-9802-117	CD(D)	43.	ppm	JJT	24-FEB-98	180	6010
			CL-	782.	ppm	LV	24-FEB-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	11440	umhos	BD	24-FEB-98	28	120.1
			CR(D)	.047	ppm	KPB	05-MAR-98	180	6020
			CU(D)	.089	ppm	KPB	05-MAR-98	180	6020
			F-	25.	ppm	LV	04-MAR-98	28	340.2
			FE(D)	2381.	ppm	BD	06-MAR-98	180	6010
			HCO3	<1.0	ppm CaCO3	DC	24-FEB-98	14	310.1
			K	207.	ppm	JJT	24-FEB-98	180	6010
			MG	305.	ppm	JJT	24-FEB-98	180	6010
			NA	614.	ppm	JJT	24-FEB-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-MAR-98	28	353.2
			PB(D)	.014	ppm	KPB	05-MAR-98	180	6020
			PH	4.0	pH	DC	24-FEB-98		150.1
			SE(D)	.14	ppm	KPB	05-MAR-98	180	6020
			SO4=	7869.	ppm	LV	04-MAR-98	28	9036
			TDS	17442.	ppm	JCH	24-FEB-98	7	160.1
			TSS	430.	ppm	MO	25-FEB-98		160.2
			ZN(D)	1900.	ppm	BD	06-MAR-98	180	6010

Approved

Reviewer

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ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

Batch No: WG980294

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980294-1		Matrix Spike	AS(D)	100	% RECOVERY	KPB	04-MAR-98		6020
			CD(D)	93	% RECOVERY	KPB	04-MAR-98		6020
			CL-	91	% RECOVERY	LV	24-FEB-98		325.2
			CR(D)	98	% RECOVERY	KPB	04-MAR-98		6020
			CU(D)	92	% RECOVERY	KPB	04-MAR-98		6020
			F-	99	% RECOVERY	LV	04-MAR-98		340.2
			FE(D)	108	% RECOVERY	JJT	24-FEB-98		6010
			NO2/NO3	108	% RECOVERY	LV	05-MAR-98		353.2
			PB(D)	88	% RECOVERY	KPB	04-MAR-98		6020
			SE(D)	101	% RECOVERY	KPB	04-MAR-98		6020
			SO4=	95	% RECOVERY	LV	04-MAR-98		9036
			ZN(D)	86	% RECOVERY	KPB	04-MAR-98		6020
WG980294-2		Prep Blank	AS(D)	<.005	ppm	KPB	04-MAR-98		6020
			CA	<1.0	ppm	JJT	24-FEB-98		6010
			CD(D)	<.005	ppm	KPB	04-MAR-98		6020
			CL-	<1.0	ppm	LV	24-FEB-98		325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	<5	umhos	BD	24-FEB-98		120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98		6020
			CU(D)	<.025	ppm	KPB	04-MAR-98		6020
			F-	<.050	ppm	LV	04-MAR-98		340.2
			FE(D)	<.10	ppm	JJT	24-FEB-98		6010
			HCO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			K	<2.0	ppm	JJT	24-FEB-98		6010
			MG	<1.0	ppm	JJT	24-FEB-98		6010
			NA	<2.0	ppm	JJT	24-FEB-98		6010
			NO2/NO3	<.050	ppm	LV	05-MAR-98		353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98		6020
			SE(D)	<.005	ppm	KPB	04-MAR-98		6020
			SO4=	<2.0	ppm	LV	04-MAR-98		9036
			TDS	<10.	ppm	JCH	24-FEB-98		160.1
			TSS	<1.0	ppm	MO	25-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	04-MAR-98		6020
WG980294-3		Laboratory Control	AS(D)	98	% RECOVERY	KPB	04-MAR-98		6020
			CA	106	% RECOVERY	JJT	24-FEB-98		6010
			CD(D)	100	% RECOVERY	KPB	04-MAR-98		6020
			CL-	92	% RECOVERY	LV	24-FEB-98		325.2

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Batch No: WG980294

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980294-3		Laboratory Control	COND.	100	% RECOVERY	BD	24-FEB-98		120.1
			CR(D)	98	% RECOVERY	KPB	04-MAR-98		6020
			CU(D)	103	% RECOVERY	KPB	04-MAR-98		6020
			F-	92	% RECOVERY	LV	04-MAR-98		340.2
			FE(D)	96	% RECOVERY	JJT	24-FEB-98		6010
			HCO3	104	% RECOVERY	DC	24-FEB-98		310.1
			K	98	% RECOVERY	JJT	24-FEB-98		6010
			MG	106	% RECOVERY	JJT	24-FEB-98		6010
			NA	105	% RECOVERY	JJT	24-FEB-98		6010
			NO2/NO3	104	% RECOVERY	LV	05-MAR-98		353.2
			PB(D)	100	% RECOVERY	KPB	04-MAR-98		6020
			SE(D)	103	% RECOVERY	KPB	04-MAR-98		6020
			SO4=	101	% RECOVERY	LV	04-MAR-98		9036
			TDS	98	% RECOVERY	JCH	24-FEB-98		160.1
			TSS	99	% RECOVERY	MO	25-FEB-98		160.2
			ZN(D)	98	% RECOVERY	KPB	04-MAR-98		6020
WG980294-4		Duplicate	AS(D)	<1	% RPD	KPB	04-MAR-98		6020
			CA	2.9	% RPD	JJT	24-FEB-98		6010
			CD(D)	1.5	% RPD	KPB	04-MAR-98		6020
			CL-	3.9	% RPD	LV	24-FEB-98		325.2
			CO3	<1	% RPD	DC	24-FEB-98		310.1
			COND.	<1	% RPD	BD	24-FEB-98		120.1
			CR(D)	<1	% RPD	KPB	04-MAR-98		6020
			CU(D)	<1	% RPD	KPB	04-MAR-98		6020
			F-	2.7	% RPD	LV	04-MAR-98		340.2
			FE(D)	+/-crdl	% RPD	JJT	24-FEB-98		6010
			HCO3	1.1	% RPD	DC	24-FEB-98		310.1
			K	2.0	% RPD	JJT	24-FEB-98		6010
			MG	1.0	% RPD	JJT	24-FEB-98		6010
			NA	<1	% RPD	JJT	24-FEB-98		6010
			NO2/NO3	<1	% RPD	LV	05-MAR-98		353.2
			PB(D)	<1	% RPD	KPB	04-MAR-98		6020
			SE(D)	<1	% RPD	KPB	04-MAR-98		6020
			SO4=	<1	% RPD	LV	04-MAR-98		9036
			TDS	<1	% RPD	JCH	24-FEB-98		160.1
			TSS	6.7	% RPD	MO	25-FEB-98		160.2
			ZN(D)	<1	% RPD	KPB	04-MAR-98		6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980294-5		Detection Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
WG980294-6		Matrix Spike	CD(D)	120	% RECOVERY	JJT	24-FEB-98		6010
			CL-	99	% RECOVERY	LV	24-FEB-98		325.2
			CR(D)	97	% RECOVERY	KPB	04-MAR-98		6020
			CU(D)	89	% RECOVERY	KPB	04-MAR-98		6020
			F-	101	% RECOVERY	LV	04-MAR-98		340.2
			PB(D)	92	% RECOVERY	KPB	04-MAR-98		6020
			SE(D)	103	% RECOVERY	KPB	04-MAR-98		6020
			SO4=	91	% RECOVERY	LV	04-MAR-98		9036
			ZN(D)	SR>4xSA	% RECOVERY	JJT	24-FEB-98		6010
WG980294-7		Prep Blank	AS(D)	<.050	ppm	BD	06-MAR-98		6010
			CA	<1.0	ppm	JJT	24-FEB-98		6010
			CD(D)	<.010	ppm	JJT	24-FEB-98		6010
			CL-	<1.0	ppm	LV	24-FEB-98		325.2
			CO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			COND.	<5	umhos	BD	24-FEB-98		120.1
			CR(D)	<.010	ppm	KPB	04-MAR-98		6020

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Batch No: WG980294

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980294-7		Prep Blank	CU(D)	<.025	ppm	KPB	04-MAR-98		6020
			F-	<.050	ppm	LV	04-MAR-98		340.2
			FE(D)	<.10	ppm	BD	06-MAR-98		6010
			HCO3	<1.0	ppm CaCO3	DC	24-FEB-98		310.1
			K	<2.0	ppm	BD	26-FEB-98		6010
			MG	<1.0	ppm	JJT	24-FEB-98		6010
			NA	<2.0	ppm	BD	26-FEB-98		6010
			NO2/NO3	<.050	ppm	LV	05-MAR-98		353.2
			PB(D)	<.003	ppm	KPB	04-MAR-98		6020
			SE(D)	<.005	ppm	KPB	04-MAR-98		6020
			SO4=	<2.0	ppm	LV	04-MAR-98		9036
			TDS	<10.	ppm	JCH	24-FEB-98		160.1
			TSS	<1.0	ppm	MO	23-FEB-98		160.2
			ZN(D)	<.020	ppm	JJT	24-FEB-98		6010
WG980294-8		Laboratory Control	AS(D)	104	% RECOVERY	BD	06-MAR-98		6010
			CA	106	% RECOVERY	JJT	24-FEB-98		6010
			CD(D)	106	% RECOVERY	JJT	24-FEB-98		6010
			CL-	94	% RECOVERY	LV	24-FEB-98		325.2
			COND.	100	% RECOVERY	BD	24-FEB-98		120.1
			CR(D)	103	% RECOVERY	KPB	04-MAR-98		6020
			CU(D)	103	% RECOVERY	KPB	04-MAR-98		6020
			F-	98	% RECOVERY	LV	04-MAR-98		340.2
			FE(D)	110	% RECOVERY	BD	06-MAR-98		6010
			HCO3	103	% RECOVERY	DC	24-FEB-98		310.1
			K	98	% RECOVERY	BD	26-FEB-98		6010
			MG	108	% RECOVERY	JJT	24-FEB-98		6010
			NA	102	% RECOVERY	BD	26-FEB-98		6010
			NO2/NO3	113	% RECOVERY	LV	05-MAR-98		353.2
			PB(D)	105	% RECOVERY	KPB	04-MAR-98		6020
			SE(D)	103	% RECOVERY	KPB	04-MAR-98		6020
			SO4=	85	% RECOVERY	LV	04-MAR-98		9036
			TSS	96	% RECOVERY	MO	23-FEB-98		160.2
			ZN(D)	108	% RECOVERY	JJT	24-FEB-98		6010
WG980294-9		Duplicate	AS(D)	6.9	% RPD	BD	06-MAR-98		6010
			CA	2.6	% RPD	JJT	24-FEB-98		6010
			CD(D)	<1	% RPD	JJT	24-FEB-98		6010
			CL-	<1	% RPD	LV	24-FEB-98		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980294

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980294-9		Duplicate	CL-	<1	% RPD	LV	24-FEB-98		325.2
			COND.	<1	% RPD	BD	24-FEB-98		120.1
			CR(D)	<1	% RPD	KPB	04-MAR-98		6020
			CU(D)	<1	% RPD	KPB	04-MAR-98		6020
			F-	1.4	% RPD	LV	04-MAR-98		340.2
			FE(D)	9.2	% RPD	BD	06-MAR-98		6010
			HCO3	<1	% RPD	DC	24-FEB-98		310.1
			K	2.6	% RPD	JJT	24-FEB-98		6010
			MG	2.1	% RPD	JJT	24-FEB-98		6010
			NA	1.9	% RPD	JJT	24-FEB-98		6010
			PB(D)	<1	% RPD	KPB	04-MAR-98		6020
			SE(D)	1.3	% RPD	KPB	04-MAR-98		6020
			SO4=	4.6	% RPD	LV	04-MAR-98		9036
			TDS	<1	% RPD	JCH	24-FEB-98		160.1
			TSS	<1	% RPD	MO	23-FEB-98		160.2
			ZN(D)	+/-crdl	% RPD	JJT	24-FEB-98		6010

Approved

Reviewer

Hydrometrics, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 857[illegible] (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734
PROJECT NAME: ASARCO - El PASO
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
2-3-98	900			EPRI-9802-108	3	X	X	X													
	1100			EPRI-9802-116	3	X	X	X													
	1205			EPRI-9802-115	3	X	X	X													
	1445			EPRI-9802-104	3	X	X	X													
	1530			EPRI-9802-175	3	X	X	X													
2-4-98	830			EPRI-9802-100	3	X	X	X													
	850			EPRI-9802-101	3	X	X	X													
	910			EPRI-9802-102	3	X	X	X													
	1015			EPRI-9802-103	3	X	X	X													
	1100			EPRI-9802-114	3	X	X	X													
	1140			EPRI-9802-121	3	X	X	X													
	1340			EPRI-9802-111	3	X	X	X													
	1415			EPRI-9802-178	3	X	X	X													
					~~3~~																

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	2-4-98 1600		ASARCO - SALT LAKE City, UT		Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
				☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____

Split Samples: ☐ Accepted ☐ Declined ____ Signature

HFORM-1-4/95

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

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CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734-
PROJECT NAME: ASARCO - El PASO, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
2-5-98	945			EPRI-9802-124	3	X	X	X													
	1020			EPRI-9802-129	3	X	X	X													
	1100			EPRI-9802-127	3	X	X	X													
	1130			EPRI 9802-128	3	X	X	X													
	1345			EPRI-9802-125	3	X	X	X													
	1410			EPRI-9802-131	3	X	X	X													
	1515			EPRI-9802-145	3	X	X	X													
	1540			EPRI 9802-146	3	X	X	X													
	1615			EPRI-9802-150	3	X	X	X													
2/6/98	900			EPRI-9802-149	3	X	X	X													
	~~920~~			~~EPRI-9802-152~~	3	X	X	X													
	950			EPRI-9802-148	3	X	X	X													
	1020			EPRI-9802-141	3	X	X	X													
	1105			EPRI-9802-140	3	X	X	X													
	1350			EPRI-9802-151	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	2/9/98 1600		ASARCO - SALT LAKE City, UT		Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☒ Cover letter
☐ Other ____

Split Samples:
[] Accepted [] Declined ____ ure

HFORM-[illegible]5

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3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85[illegible] (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734
PROJECT NAME: ASARCO - EL PASO, TX
SAMPLERS: (Signature) Douglas M Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
7/6/98	1420			EPRI 9802-144	3	X	X	X													
	1455			EPRI-9802-H3	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M Solon	2/9/98 1600		ASARCO - SALT LAKE CITY, UT		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	

Split Samples: [] Accepted [] Declined ____ Signature

HFORM-1-4/95

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CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734
PROJECT NAME: ASARCO - EI PASO, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
2-11-98	1015			EPRI-9802-147	3	X	X	X													
	1100			EPRI 9802-132	3	X	X	X													
	1105			EPRI 9802-179	3	X	X	X													
	1130			EPRI 9802-133	3	X	X	X													
	1350			EPRI 9802-154	3	X	X	X													
	1415			EPRI-9802-136	3	X	X	X													
	1445			EPRI 9802-135	3	X	X	X													
	1515			EPRI 9802-137	3	X	X	X													
2-12-98	845			EPRI-9802-142	3	X	X	X													
	930			EPRI-9802-153	3	X	X	X													
	1000			EPRI-9802-138	3	X	X	X													
	1100			EPRI-9802-176	3	X	X	X													
	1130			EPRI-9802-118	3	X	X	X													
	1415			EPRI-9802-120	3	X	X	X													
	1430			EPRI-9802-119	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	2-12-98 1600		ASARCO SALT LAKE City, UT		Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
				☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____

Split Samples: [] Accepted [] Declined

HFORM-[illegible]5

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

CHAIN OF C[illegible]ODY RECORD

PROJ. NO.: 0734
PROJECT NAME: ASARCO-EL PASO, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
2-17-98	930			EPRI-9802-106	3	X	X	X													
	1015			EPRI-9802-105	3	X	X	X													
	1100			EPRI-9802-107	3	X	X	X													
	1330			EPRI-9802-157	3	X	X	X													
	1400			EPRI-9802-156	3	X	X	X													
	1430			EPRI-9802-139	3	X	X	X													
	1515			EPRI-9802-158	3	X	X	X													
	1530			EPRI-9802-159	3	X	X	X													
2-18-98	845			EPRI-9802-123	3	X	X	X													
	930			EPRI-9802-126	3	X	X	X													
	940			EPRI-9802-180	3	X	X	X													
	1045			EPRI-9802-130	3	X	X	X													
	1115			EPRI-9802-122	3	X	X	X													
	1345			EPRI-9802-110	3	X	X	X													
	1430			EPRI-9802-109	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	2-19-98 1600		ASARCO - SALT LAKE City, UT		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	

Split Samples: [] Accepted [] Declined ____ Signature

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Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

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PROJ. NO.: 0734
PROJECT NAME: ASARCO - EL PASO, TX
SAMPLERS: (Signature) Douglas m. Solar

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
2-18-98	1515			EPRI-9802-112	3	X	X	X													
↓	1545			EPRI-9802-113	3	X	X	X													
2-19-98	815			EPRI-9802-171	3	X	X	X													
	830			EPRI-9802-172	3	X	X	X													
	845			EPRI-9802-173	3	X	X	X													
	900			EPRI-9802-160	3	X	X	X													
	1000			EPRI-9802-155	3	X	X	X													
	1300			EPRI-9802-117	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas m Solar	2-19-98 1600		ASARCO - SALT LAKE CITY, UT		Other ____ Air Bill # ____

Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☒ Cover letter
☐ Other ____

Split Samples:
|| Accepted || Declined ____ Signature

HFORM-1-4

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Hydrometrics, 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.: 0734

PROJECT NAME: ASARCO El Paso RI

SAMPLERS: (Signature) Douglas M. Sohn

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH									REMARKS
2-13-98	900			EPRI-9802-164	4	X	X	X			X											
	930			EPRI-9802-170	4	X	X	X			X											
	945			EPRI-9802-169	4	X	X	X			X											
	1005			EPRI-9802-162	4	X	X	X			X											
	1020			EPRI-9802-168	4	X	X	X			X											
	1040			EPRI-9802-167	4	X	X	X			X											
	1100			EPRI-9802-161	4	X	X	X			X											
	1130			EPRI-9802-165	4	X	X	X			X											
	1315			EPRI-9802-166	4	X	X	X			X											
	1330			EPRI-9802-163	4	X	X	X			X											

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Sohn	2-17-98 1600		ASARCO SALT LAKE CITY, UT		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		

Enclosed: ☒ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☒ Cover letter
☐ Other ____

Split Samples:
[] Accepted [] Declined ____ Signature

HFORM-1-4/95

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SECTION 4

LABORATORY REPORTS FOR WATER SAMPLES, MAY 1998

ASARCO

May 21, 1998

RECEIVED
JUN 01 1998
HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for seventeen water samples collected May 05 through May 07, 1998. The samples were received by the lab on May 08, 1998.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: Claire Bridge (w/attach.)
GRStanga "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980940

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980940-1	05-MAY-98	EPRI-9805-100	AS(D)	.085	ppm	KB	19-MAY-98	180	6020
			CA	99.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	213.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	1831	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	.97	ppm	LV	19-MAY-98	28	340.2
			FE(D)	1.3	ppm	JT	13-MAY-98	180	6010
			HCO3	267.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	21.	ppm	JT	13-MAY-98	180	6010
			MG	27.	ppm	JT	13-MAY-98	180	6010
			NA	270.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.093	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.9	pH	LV	14-MAY-98		150.1
			SE(D)	<.005	ppm	KB	19-MAY-98	180	6020
			SO4=	377.	ppm	LV	18-MAY-98	28	9036
			TDS	1211.	ppm	JH	12-MAY-98	7	160.1
			TSS	58.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.029	ppm	JT	13-MAY-98	180	6010
L980940-2	05-MAY-98	EPRI-9805-101	AS(D)	.050	ppm	KB	19-MAY-98	180	6020
			CA	85.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	336.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	2980	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	2.6	ppm	LV	19-MAY-98	28	340.2
			FE(D)	.21	ppm	JT	13-MAY-98	180	6010
			HCO3	644.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	18.	ppm	JT	13-MAY-98	180	6010
			MG	34.	ppm	JT	13-MAY-98	180	6010
			NA	629.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.055	ppm	LV	19-MAY-98	28	353.2
			PB(D)	.003	ppm	KB	19-MAY-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980940

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980940-2	05-MAY-98	EPRI-9805-101	PH	8.0	pH	LV	14-MAY-98		150.1
			SE(D)	<.005	ppm	KB	19-MAY-98	180	6020
			SO4=	410.	ppm	LV	18-MAY-98	28	9036
			TDS	2116.	ppm	JH	12-MAY-98	7	160.1
			TSS	169.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.057	ppm	JT	13-MAY-98	180	6010
L980940-3	05-MAY-98	EPRI-9805-102	AS(D)	.021	ppm	KB	19-MAY-98	180	6020
			CA	225.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	760.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	5810	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	1.5	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	384.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	28.	ppm	JT	13-MAY-98	180	6010
			MG	72.	ppm	JT	13-MAY-98	180	6010
			NA	1215.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.35	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.0	pH	LV	14-MAY-98		150.1
			SE(D)	.010	ppm	KB	19-MAY-98	180	6020
			SO4=	1664.	ppm	LV	18-MAY-98	28	9036
			TDS	4263.	ppm	JH	12-MAY-98	7	160.1
			TSS	7.2	ppm	MO	12-MAY-98		160.2
			ZN(D)	.044	ppm	JT	13-MAY-98	180	6010
L980940-4	05-MAY-98	EPRI-9805-103	AS(D)	.056	ppm	KB	19-MAY-98	180	6020
			CA	127.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	348.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	2890	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	1.5	ppm	LV	19-MAY-98	28	340.2

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L980940-4	05-MAY-98	EPRI-9805-103	FE(D)	1.5	ppm	JT	13-MAY-98	180	6010
			HCO3	264.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	14.	ppm	JT	13-MAY-98	180	6010
			MG	41.	ppm	JT	13-MAY-98	180	6010
			NA	512.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	<.050	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.8	pH	LV	14-MAY-98		150.1
			SE(D)	<.005	ppm	KB	19-MAY-98	180	6020
			SO4=	687.	ppm	LV	18-MAY-98	28	9036
			TDS	1930.	ppm	JH	12-MAY-98	7	160.1
			TSS	15.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.028	ppm	JT	13-MAY-98	180	6010
L980940-5	06-MAY-98	EPRI-9805-108	AS(D)	.85	ppm	KB	19-MAY-98	180	6020
			CA	530.	ppm	JT	13-MAY-98	180	6010
			CD(D)	.042	ppm	KB	19-MAY-98	180	6020
			CL-	780.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	10510	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.030	ppm	KB	19-MAY-98	180	6020
			F-	2.0	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	312.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	63.	ppm	JT	13-MAY-98	180	6010
			MG	315.	ppm	JT	13-MAY-98	180	6010
			NA	2289.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	183.	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.5	pH	LV	14-MAY-98		150.1
			SE(D)	.34	ppm	KB	19-MAY-98	180	6020
			SO4=	4635.	ppm	LV	18-MAY-98	28	9036
			TDS	9230.	ppm	JH	12-MAY-98	7	160.1
			TSS	50.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.098	ppm	JT	13-MAY-98	180	6010
L980940-6	06-MAY-98	EPRI-9805-116	AS(D)	.62	ppm	KB	19-MAY-98	180	6020
			CA	436.	ppm	JT	13-MAY-98	180	6010

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L980940-6	06-MAY-98	EPRI-9805-116	CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	552.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	6530	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	1.1	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	492.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	29.	ppm	JT	13-MAY-98	180	6010
			MG	152.	ppm	JT	13-MAY-98	180	6010
			NA	1192.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	69.	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.2	pH	LV	14-MAY-98		150.1
			SE(D)	2.5	ppm	KB	19-MAY-98	180	6020
			SO4=	2357.	ppm	LV	18-MAY-98	28	9036
			TDS	5225.	ppm	JH	12-MAY-98	7	160.1
			TSS	928.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.049	ppm	JT	13-MAY-98	180	6010
L980940-7	06-MAY-98	EPRI-9805-115	AS(D)	.21	ppm	KB	19-MAY-98	180	6020
			CA	69.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	315.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	3180	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	2.6	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	342.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	31.	ppm	JT	13-MAY-98	180	6010
			MG	26.	ppm	JT	13-MAY-98	180	6010
			NA	654.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	7.5	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.0	pH	LV	14-MAY-98		150.1
			SE(D)	.16	ppm	KB	19-MAY-98	180	6020

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L980940-7	06-MAY-98	EPRI-9805-115	SO4=	793.	ppm	LV	18-MAY-98	28	9036
			TDS	2159.	ppm	JH	12-MAY-98	7	160.1
			TSS	23.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.024	ppm	JT	13-MAY-98	180	6010
L980940-8	06-MAY-98	EPRI-9805-161	AS(D)	.005	ppm	KB	19-MAY-98	180	6020
			CA	80.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	125.	ppm	LV	20-MAY-98	28	325.2
			CO3	6.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	1158	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	.68	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	186.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	17.	ppm	JT	13-MAY-98	180	6010
			MG	19.	ppm	JT	13-MAY-98	180	6010
			NA	137.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.27	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.5	pH	LV	14-MAY-98		150.1
			SE(D)	<.005	ppm	KB	19-MAY-98	180	6020
			SO4=	219.	ppm	LV	18-MAY-98	28	9036
			TDS	775.	ppm	JH	12-MAY-98	7	160.1
			TSS	104.	ppm	MO	12-MAY-98		160.2
			ZN(D)	<.020	ppm	JT	13-MAY-98	180	6010
L980940-9	06-MAY-98	EPRI-9805-163	AS(D)	.006	ppm	KB	19-MAY-98	180	6020
			CA	81.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	121.	ppm	LV	20-MAY-98	28	325.2
			CO3	6.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	1185	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	.69	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	185.	ppm CaCO3	LV	14-MAY-98	14	310.1

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L980940-9	06-MAY-98	EPRI-9805-163	K	17.	ppm	JT	13-MAY-98	180	6010
			MG	19.	ppm	JT	13-MAY-98	180	6010
			NA	142.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.55	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.5	pH	LV	14-MAY-98		150.1
			SE(D)	<.005	ppm	KB	19-MAY-98	180	6020
			SO4=	236.	ppm	LV	18-MAY-98	28	9036
			TDS	752.	ppm	JH	12-MAY-98	7	160.1
			TSS	91.	ppm	MO	12-MAY-98		160.2
			ZN(D)	<.020	ppm	JT	13-MAY-98	180	6010
L980940-10	06-MAY-98	EPRI-9805-165	AS(D)	.005	ppm	KB	19-MAY-98	180	6020
			CA	80.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	126.	ppm	LV	20-MAY-98	28	325.2
			CO3	6.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	1179	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	.68	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	185.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	17.	ppm	JT	13-MAY-98	180	6010
			MG	19.	ppm	JT	13-MAY-98	180	6010
			NA	139.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.53	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.5	pH	LV	14-MAY-98		150.1
			SE(D)	<.005	ppm	KB	19-MAY-98	180	6020
			SO4=	245.	ppm	LV	18-MAY-98	28	9036
			TDS	736.	ppm	JH	12-MAY-98	7	160.1
			TSS	102.	ppm	MO	12-MAY-98		160.2
			ZN(D)	<.020	ppm	JT	13-MAY-98	180	6010
L980940-11	07-MAY-98	EPRI-9805-107	AS(D)	.007	ppm	KB	19-MAY-98	180	6020
			CA	110.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	311.	ppm	LV	20-MAY-98	28	325.2

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L980940-11	07-MAY-98	EPRI-9805-107	CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	2960	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	.91	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	229.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	17.	ppm	JT	13-MAY-98	180	6010
			MG	39.	ppm	JT	13-MAY-98	180	6010
			NA	538.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	18.	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.8	pH	LV	14-MAY-98		150.1
			SE(D)	.20	ppm	KB	19-MAY-98	180	6020
			SO4=	875.	ppm	LV	18-MAY-98	28	9036
			TDS	2018.	ppm	JH	12-MAY-98	7	160.1
			TSS	124.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.031	ppm	JT	13-MAY-98	180	6010
L980940-12	07-MAY-98	EPRI-9805-106	AS(D)	1.4	ppm	KB	19-MAY-98	180	6020
			CA	388.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	344.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	4660	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	1.6	ppm	LV	19-MAY-98	28	340.2
			FE(D)	.15	ppm	JT	13-MAY-98	180	6010
			HCO3	348.	ppm CaCO3	LV	14-MAY-98	14	310.1
			K	63.	ppm	JT	13-MAY-98	180	6010
			MG	97.	ppm	JT	13-MAY-98	180	6010
			NA	730.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	13.	ppm	LV	19-MAY-98	28	353.2
			PB(D)	.004	ppm	KB	19-MAY-98	180	6020
			PH	7.4	pH	LV	14-MAY-98		150.1
			SE(D)	.23	ppm	KB	19-MAY-98	180	6020
			SO4=	1989.	ppm	LV	18-MAY-98	28	9036
			TDS	3754.	ppm	JH	12-MAY-98	7	160.1

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L980940-12	07-MAY-98	EPRI-9805-106	TSS	1.1	ppm	MO	12-MAY-98		160.2
			ZN(D)	.046	ppm	JT	13-MAY-98	180	6010
L980940-13	07-MAY-98	EPRI-9805-178	AS(D)	.39	ppm	KB	19-MAY-98	180	6020
			CA	55.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	265.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	15-MAY-98		310.1
			COND.	2650	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	2.3	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	179.	ppm CaCO3	LV	15-MAY-98	14	310.1
			K	18.	ppm	JT	13-MAY-98	180	6010
			MG	23.	ppm	JT	13-MAY-98	180	6010
			NA	534.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	12.	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.1	pH	LV	15-MAY-98		150.1
			SE(D)	.17	ppm	KB	19-MAY-98	180	6020
			SO4=	729.	ppm	LV	18-MAY-98	28	9036
			TDS	1750.	ppm	JH	12-MAY-98	7	160.1
			TSS	6.4	ppm	MO	12-MAY-98		160.2
			ZN(D)	.022	ppm	JT	13-MAY-98	180	6010
L980940-14	07-MAY-98	EPRI-9805-105	AS(D)	36.	ppm	KB	19-MAY-98	180	6020
			CA	363.	ppm	JT	13-MAY-98	180	6010
			CD(D)	.71	ppm	KB	19-MAY-98	180	6020
			CL-	759.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	15-MAY-98		310.1
			COND.	11440	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.025	ppm	KB	19-MAY-98	180	6020
			F-	1.5	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	327.	ppm CaCO3	LV	15-MAY-98	14	310.1
			K	97.	ppm	JT	13-MAY-98	180	6010
			MG	70.	ppm	JT	13-MAY-98	180	6010

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L980940-14	07-MAY-98	EPRI-9805-105	NA	2776.	ppm	JT	20-MAY-98	180	6010
			NO2/NO3	82.	ppm	LV	19-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.7	pH	LV	15-MAY-98		150.1
			SE(D)	5.7	ppm	KB	19-MAY-98	180	6020
			SO4=	5265.	ppm	LV	18-MAY-98	28	9036
			TDS	9394.	ppm	JH	12-MAY-98	7	160.1
			TSS	3.4	ppm	MO	12-MAY-98		160.2
			ZN(D)	.059	ppm	JT	13-MAY-98	180	6010
L980940-15	07-MAY-98	EPRI-9805-114	AS(D)	.45	ppm	KB	19-MAY-98	180	6020
			CA	9.9	ppm	JT	13-MAY-98	180	6010
			CD(D)	.18	ppm	KB	19-MAY-98	180	6020
			CL-	5.3	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	15-MAY-98		310.1
			COND.	141	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.025	ppm	KB	19-MAY-98	180	6020
			F-	.58	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	17.	ppm CaCO3	LV	15-MAY-98	14	310.1
			K	15.	ppm	JT	13-MAY-98	180	6010
			MG	1.5	ppm	JT	13-MAY-98	180	6010
			NA	14.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	1.8	ppm	LV	19-MAY-98	28	353.2
			PB(D)	.007	ppm	KB	19-MAY-98	180	6020
			PH	7.0	pH	LV	15-MAY-98		150.1
			SE(D)	.059	ppm	KB	19-MAY-98	180	6020
			SO4=	26.	ppm	LV	18-MAY-98	28	9036
			TDS	102.	ppm	JH	12-MAY-98	7	160.1
			TSS	70.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.57	ppm	JT	13-MAY-98	180	6010
L980940-16	07-MAY-98	EPRI-9805-121	AS(D)	1.9	ppm	KB	19-MAY-98	180	6020
			CA	253.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	616.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	15-MAY-98		310.1
			COND.	5500	umhos	BD	11-MAY-98	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980940

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980940-16	07-MAY-98	EPRI-9805-121	CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.025	ppm	KB	19-MAY-98	180	6020
			F-	1.9	ppm	LV	19-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	248.	ppm CaCO3	LV	15-MAY-98	14	310.1
			K	34.	ppm	JT	13-MAY-98	180	6010
			MG	64.	ppm	JT	13-MAY-98	180	6010
			NA	1091.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	3.2	ppm	LV	19-MAY-98	28	353.2
			PB(D)	.003	ppm	KB	19-MAY-98	180	6020
			PH	7.6	pH	LV	15-MAY-98		150.1
			SE(D)	.058	ppm	KB	19-MAY-98	180	6020
			SO4=	1793.	ppm	LV	18-MAY-98	28	9036
			TDS	3956.	ppm	JH	12-MAY-98	7	160.1
			TSS	358.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.039	ppm	JT	13-MAY-98	180	6010
L980940-17	07-MAY-98	EPRI-9805-160	AS(D)	1.8	ppm	KB	19-MAY-98	180	6020
			CA	216.	ppm	JT	13-MAY-98	180	6010
			CD(D)	.018	ppm	KB	19-MAY-98	180	6020
			CL-	614.	ppm	LV	20-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	LV	15-MAY-98		310.1
			COND.	5560	umhos	BD	11-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.073	ppm	KB	19-MAY-98	180	6020
			F-	6.7	ppm	LV	19-MAY-98	28	340.2
			FE(D)	.20	ppm	JT	13-MAY-98	180	6010
			HCO3	222.	ppm CaCO3	LV	15-MAY-98	14	310.1
			K	48.	ppm	JT	13-MAY-98	180	6010
			MG	43.	ppm	JT	13-MAY-98	180	6010
			NA	1199.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.41	ppm	LV	19-MAY-98	28	353.2
			PB(D)	.039	ppm	KB	19-MAY-98	180	6020
			PH	7.8	pH	LV	15-MAY-98		150.1
			SE(D)	.055	ppm	KB	19-MAY-98	180	6020
			SO4=	1755.	ppm	LV	18-MAY-98	28	9036
			TDS	4029.	ppm	JH	12-MAY-98	7	160.1
			TSS	37.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.11	ppm	JT	13-MAY-98	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980940

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

PH is a field parameter, holding time cannot be met.

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980628

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980628-1		Matrix Spike	AS(D)	98	% RECOVERY	KB	19-MAY-98		6020
			CA	80	% RECOVERY	JT	13-MAY-98		6010
			CD(D)	87	% RECOVERY	KB	19-MAY-98		6020
			CL-	106	% RECOVERY	LV	20-MAY-98		325.2
			CR(D)	91	% RECOVERY	KB	19-MAY-98		6020
			CU(D)	85	% RECOVERY	KB	19-MAY-98		6020
			F-	96	% RECOVERY	LV	19-MAY-98		340.2
			FE(D)	102	% RECOVERY	JT	13-MAY-98		6010
			K	115	% RECOVERY	JT	13-MAY-98		6010
			MG	98	% RECOVERY	JT	13-MAY-98		6010
			NA	SR>4xSA	% RECOVERY	JT	13-MAY-98		6010
			NO2/NO3	99	% RECOVERY	LV	19-MAY-98		353.2
			PB(D)	89	% RECOVERY	KB	19-MAY-98		6020
			SE(D)	102	% RECOVERY	KB	19-MAY-98		6020
			SO4=	87	% RECOVERY	LV	18-MAY-98		9036
			ZN(D)	105	% RECOVERY	JT	13-MAY-98		6010
WG980628-2		Prep Blank	AS(D)	<.005	ppm	KB	19-MAY-98		6020
			CA	<1.0	ppm	JT	13-MAY-98		6010
			CD(D)	<.005	ppm	KB	19-MAY-98		6020
			CL-	<1.0	ppm	LV	20-MAY-98		325.2
			CO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			COND.	<5	umhos	BD	11-MAY-98		120.1
			CR(D)	<.010	ppm	KB	19-MAY-98		6020
			CU(D)	<.025	ppm	KB	19-MAY-98		6020
			F-	<.050	ppm	LV	19-MAY-98		340.2
			FE(D)	<.10	ppm	JT	13-MAY-98		6010
			HCO3	<1.0	ppm CaCO3	LV	14-MAY-98		310.1
			K	<2.0	ppm	JT	13-MAY-98		6010
			MG	<1.0	ppm	JT	13-MAY-98		6010
			NA	<2.0	ppm	JT	13-MAY-98		6010
			NO2/NO3	<.050	ppm	LV	19-MAY-98		353.2
			PB(D)	<.003	ppm	KB	19-MAY-98		6020
			SE(D)	<.005	ppm	KB	19-MAY-98		6020
			SO4=	<2.0	ppm	LV	18-MAY-98		9036
			TDS	<10.	ppm	JH	12-MAY-98		160.1
			TSS	<1.0	ppm	MO	12-MAY-98		160.2
			ZN(D)	<.020	ppm	JT	13-MAY-98		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980628

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980628-3		Laboratory Control	AS(D)	95	% RECOVERY	KB	19-MAY-98		6020
			CA	104	% RECOVERY	JT	13-MAY-98		6010
			CD(D)	98	% RECOVERY	KB	19-MAY-98		6020
			CL-	102	% RECOVERY	LV	20-MAY-98		325.2
			COND.	100	% RECOVERY	BD	11-MAY-98		120.1
			CR(D)	100	% RECOVERY	KB	19-MAY-98		6020
			CU(D)	98	% RECOVERY	KB	19-MAY-98		6020
			F-	97	% RECOVERY	LV	19-MAY-98		340.2
			FE(D)	104	% RECOVERY	JT	13-MAY-98		6010
			HCO3	109	% RECOVERY	LV	14-MAY-98		310.1
			K	100	% RECOVERY	JT	13-MAY-98		6010
			MG	104	% RECOVERY	JT	13-MAY-98		6010
			NA	101	% RECOVERY	JT	13-MAY-98		6010
			NO2/NO3	101	% RECOVERY	LV	19-MAY-98		353.2
			PB(D)	100	% RECOVERY	KB	19-MAY-98		6020
			SE(D)	100	% RECOVERY	KB	19-MAY-98		6020
			SO4=	99	% RECOVERY	LV	18-MAY-98		9036
			TDS	97	% RECOVERY	JH	12-MAY-98		160.1
			TSS	95	% RECOVERY	MO	12-MAY-98		160.2
			ZN(D)	108	% RECOVERY	JT	13-MAY-98		6010
WG980628-4		Duplicate	AS(D)	<1	% RPD	KB	19-MAY-98		6020
			CA	<1	% RPD	JT	13-MAY-98		6010
			CD(D)	<1	% RPD	KB	19-MAY-98		6020
			CL-	3.9	% RPD	LV	20-MAY-98		325.2
			CO3	<1	% RPD	LV	14-MAY-98		310.1
			COND.	<1	% RPD	BD	11-MAY-98		120.1
			CR(D)	<1	% RPD	KB	19-MAY-98		6020
			CU(D)	<1	% RPD	KB	19-MAY-98		6020
			F-	2.3	% RPD	LV	19-MAY-98		340.2
			FE(D)	8.0	% RPD	JT	13-MAY-98		6010
			HCO3	<1	% RPD	LV	14-MAY-98		310.1
			K	<1	% RPD	JT	13-MAY-98		6010
			MG	1.1	% RPD	JT	13-MAY-98		6010
			NA	<1	% RPD	JT	13-MAY-98		6010
			NO2/NO3	1.1	% RPD	LV	19-MAY-98		353.2
			PB(D)	<1	% RPD	KB	19-MAY-98		6020
			SE(D)	<1	% RPD	KB	19-MAY-98		6020
			SO4=	<1	% RPD	LV	18-MAY-98		9036

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980628

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980628-4		Duplicate	TDS	<1	% RPD	JH	12-MAY-98		160.1
			TSS	<1	% RPD	MO	12-MAY-98		160.2
			ZN(D)	15	% RPD	JT	13-MAY-98		6010
WG980628-5		Practical Quantitation Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	1.0	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6010

Approved

Reviewer

ASARCO

May 28, 1998

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for thirteen water samples collected May 08 through May 11, 1998. The samples were received by the lab on May 13, 1998.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy
Chemist

cc: Claire Bridge (w/attach.)
GRStanga "

0131.502.100
Folder (3)

ASARCO Incorporated 3422 South 700 West. Salt Lake City. Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980977

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-1	08-MAY-98	EPRI-9805-124	AS(D)	3.1	ppm	KB	19-MAY-98	180	6020
			CA	181.	ppm	JT	13-MAY-98	180	6010
			CD(D)	.005	ppm	KB	19-MAY-98	180	6020
			CL-	369.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	4800.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	4.8	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	364.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	100.	ppm	JT	13-MAY-98	180	6010
			MG	90.	ppm	JT	13-MAY-98	180	6010
			NA	868.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	13.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.7	pH	DC	18-MAY-98		150.1
			SE(D)	.29	ppm	KB	19-MAY-98	180	6020
			SO4=	1586.	ppm	LV	22-MAY-98	28	9036
			TDS	3743.	ppm	JH	15-MAY-98	7	160.1
			TSS	1.7	ppm	MO	14-MAY-98		160.2
			ZN(D)	.043	ppm	JT	13-MAY-98	180	6010
L980977-2	08-MAY-98	EPRI-9805-129	AS(D)	.041	ppm	KB	19-MAY-98	180	6020
			CA	378.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	755.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	10000.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	1.9	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	214.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	34.	ppm	JT	13-MAY-98	180	6010
			MG	131.	ppm	JT	13-MAY-98	180	6010
			NA	2185.	ppm	BD	21-MAY-98	180	6010
			NO2/NO3	120.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980977

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-2	08-MAY-98	EPRI-9805-129	PH	8.0	pH	DC	18-MAY-98		150.1
			SE(D)	.61	ppm	KB	19-MAY-98	180	6020
			SO4=	4063.	ppm	LV	26-MAY-98	28	9036
			TDS	8604.	ppm	JH	15-MAY-98	7	160.1
			TSS	6.3	ppm	MO	14-MAY-98		160.2
			ZN(D)	.053	ppm	JT	13-MAY-98	180	6010
L980977-3	08-MAY-98	EPRI-9805-127	AS(D)	.96	ppm	KB	19-MAY-98	180	6020
			CA	199.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	405.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	4820.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	3.0	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	322.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	63.	ppm	JT	13-MAY-98	180	6010
			MG	85.	ppm	JT	13-MAY-98	180	6010
			NA	882.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	11.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.7	pH	DC	18-MAY-98		150.1
			SE(D)	.38	ppm	KB	19-MAY-98	180	6020
			SO4=	1785.	ppm	LV	22-MAY-98	28	9036
			TDS	3725.	ppm	JH	15-MAY-98	7	160.1
			TSS	5.1	ppm	MO	14-MAY-98		160.2
			ZN(D)	.039	ppm	JT	13-MAY-98	180	6010
L980977-4	08-MAY-98	EPRI-9805-128	AS(D)	.022	ppm	KB	19-MAY-98	180	6020
			CA	273.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	973.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	8390.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	2.2	ppm	LV	27-MAY-98	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980977

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-4	08-MAY-98	EPRI-9805-128	FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	411.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	43.	ppm	JT	13-MAY-98	180	6010
			MG	166.	ppm	JT	13-MAY-98	180	6010
			NA	1604.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	14.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.6	pH	DC	18-MAY-98		150.1
			SE(D)	.22	ppm	KB	19-MAY-98	180	6020
			SO4=	2941.	ppm	LV	22-MAY-98	28	9036
			TDS	6532.	ppm	JH	15-MAY-98	7	160.1
			TSS	18.	ppm	MO	14-MAY-98		160.2
			ZN(D)	.052	ppm	JT	13-MAY-98	180	6010
L980977-5	08-MAY-98	EPRI-9805-125	AS(D)	.008	ppm	KB	19-MAY-98	180	6020
			CA	575.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	1254.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	8880.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	1.6	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	250.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	27.	ppm	JT	13-MAY-98	180	6010
			MG	231.	ppm	JT	13-MAY-98	180	6010
			NA	1370.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	76.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.6	pH	DC	18-MAY-98		150.1
			SE(D)	.24	ppm	KB	19-MAY-98	180	6020
			SO4=	3180.	ppm	LV	22-MAY-98	28	9036
			TDS	4857.	ppm	JH	15-MAY-98	7	160.1
			TSS	7.0	ppm	MO	14-MAY-98		160.2
			ZN(D)	.052	ppm	JT	13-MAY-98	180	6010
L980977-6	08-MAY-98	EPRI-9805-131	AS(D)	10.	ppm	KB	19-MAY-98	180	6020
			CA	554.	ppm	JT	13-MAY-98	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-6	08-MAY-98	EPRI-9805-131	CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	595.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	7690.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	3.3	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	392.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	58.	ppm	JT	13-MAY-98	180	6010
			MG	130.	ppm	JT	13-MAY-98	180	6010
			NA	1429.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	45.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.7	pH	DC	18-MAY-98		150.1
			SE(D)	.25	ppm	KB	19-MAY-98	180	6020
			SO4=	3456.	ppm	LV	22-MAY-98	28	9036
			TDS	6881.	ppm	JH	15-MAY-98	7	160.1
			TSS	16.	ppm	MO	14-MAY-98		160.2
			ZN(D)	.059	ppm	JT	13-MAY-98	180	6010
L980977-7	11-MAY-98	EPRI-9805-118	AS(D)	.26	ppm	KB	19-MAY-98	180	6020
			CA	653.	ppm	JT	13-MAY-98	180	6010
			CD(D)	.15	ppm	KB	19-MAY-98	180	6020
			CL-	2627.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	11800.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.44	ppm	KB	19-MAY-98	180	6020
			F-	2.1	ppm	LV	27-MAY-98	28	340.2
			FE(D)	.54	ppm	JT	13-MAY-98	180	6010
			HCO3	252.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	63.	ppm	JT	13-MAY-98	180	6010
			MG	471.	ppm	JT	13-MAY-98	180	6010
			NA	1501.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	146.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.2	pH	DC	18-MAY-98		150.1
			SE(D)	.13	ppm	KB	19-MAY-98	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-7	11-MAY-98	EPRI-9805-118	SO4=	2475.	ppm	LV	22-MAY-98	28	9036
			TDS	8933.	ppm	JH	15-MAY-98	7	160.1
			TSS	31.	ppm	MO	14-MAY-98		160.2
			ZN(D)	2.2	ppm	JT	13-MAY-98	180	6010
L980977-8	11-MAY-98	EPRI-9805-119	AS(D)	50.	ppm	KB	19-MAY-98	180	6020
			CA	469.	ppm	JT	13-MAY-98	180	6010
			CD(D)	1.5	ppm	KB	19-MAY-98	180	6020
			CL-	751.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	9780.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.12	ppm	KB	19-MAY-98	180	6020
			F-	13.	ppm	LV	27-MAY-98	28	340.2
			FE(D)	3.4	ppm	JT	13-MAY-98	180	6010
			HCO3	445.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	378.	ppm	JT	13-MAY-98	180	6010
			MG	286.	ppm	JT	13-MAY-98	180	6010
			NA	1576.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	2.8	ppm	LV	27-MAY-98	28	353.2
			PB(D)	.011	ppm	KB	19-MAY-98	180	6020
			PH	7.1	pH	DC	18-MAY-98		150.1
			SE(D)	.082	ppm	KB	19-MAY-98	180	6020
			SO4=	4548.	ppm	LV	22-MAY-98	28	9036
			TDS	8370.	ppm	JH	15-MAY-98	7	160.1
			TSS	33.	ppm	MO	14-MAY-98		160.2
			ZN(D)	32.	ppm	JT	13-MAY-98	180	6010
L980977-9	11-MAY-98	EPRI-9805-138	AS(D)	.11	ppm	KB	19-MAY-98	180	6020
			CA	283.	ppm	JT	13-MAY-98	180	6010
			CD(D)	.010	ppm	KB	19-MAY-98	180	6020
			CL-	422.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	6900.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	2.8	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	223.	ppm CaCO3	DC	18-MAY-98	14	310.1

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L980977-9	11-MAY-98	EPRI-9805-138	K	387.	ppm	JT	13-MAY-98	180	6010
			MG	123.	ppm	JT	13-MAY-98	180	6010
			NA	1148.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	22.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.7	pH	DC	18-MAY-98		150.1
			SE(D)	1.3	ppm	KB	19-MAY-98	180	6020
			SO4=	3124.	ppm	LV	22-MAY-98	28	9036
			TDS	5747.	ppm	JH	15-MAY-98	7	160.1
			TSS	3.5	ppm	MO	14-MAY-98		160.2
			ZN(D)	.15	ppm	JT	13-MAY-98	180	6010
L980977-10	11-MAY-98	EPRI-9805-140	AS(D)	17.	ppm	KB	19-MAY-98	180	6020
			CA	452.	ppm	JT	13-MAY-98	180	6010
			CD(D)	.041	ppm	KB	19-MAY-98	180	6020
			CL-	377.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	20000.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	.10	ppm	KB	19-MAY-98	180	6020
			F-	2.3	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	668.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	702.	ppm	JT	13-MAY-98	180	6010
			MG	501.	ppm	JT	13-MAY-98	180	6010
			NA	4377.	ppm	BD	21-MAY-98	180	6010
			NO2/NO3	148.	ppm	LV	27-MAY-98	28	353.2
			PB(D)	.005	ppm	KB	19-MAY-98	180	6020
			PH	7.5	pH	DC	18-MAY-98		150.1
			SE(D)	5.1	ppm	KB	19-MAY-98	180	6020
			SO4=	12795.	ppm	LV	22-MAY-98	28	9036
			TDS	19297.	ppm	JH	15-MAY-98	7	160.1
			TSS	260.	ppm	MO	14-MAY-98		160.2
			ZN(D)	.15	ppm	JT	13-MAY-98	180	6010
L980977-11	11-MAY-98	EPRI-9805-141	AS(D)	.41	ppm	KB	19-MAY-98	180	6020
			CA	168.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	426.	ppm	LV	27-MAY-98	28	325.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-11	11-MAY-98	EPRI-9805-141	CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	5000.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	2.1	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	394.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	62.	ppm	JT	13-MAY-98	180	6010
			MG	97.	ppm	JT	13-MAY-98	180	6010
			NA	885.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	5.0	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.7	pH	DC	18-MAY-98		150.1
			SE(D)	.14	ppm	KB	19-MAY-98	180	6020
			SO4=	1758.	ppm	LV	22-MAY-98	28	9036
			TDS	3843.	ppm	JH	15-MAY-98	7	160.1
			TSS	1.6	ppm	MO	14-MAY-98		160.2
			ZN(D)	.085	ppm	JT	13-MAY-98	180	6010
L980977-12	11-MAY-98	EPRI-9805-111	AS(D)	4.2	ppm	KB	19-MAY-98	180	6020
			CA	131.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	420.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	5500.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	3.3	ppm	LV	27-MAY-98	28	340.2
			FE(D)	.63	ppm	JT	13-MAY-98	180	6010
			HCO3	330.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	70.	ppm	JT	13-MAY-98	180	6010
			MG	71.	ppm	JT	13-MAY-98	180	6010
			NA	821.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	<.050	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	7.6	pH	DC	18-MAY-98		150.1
			SE(D)	.011	ppm	KB	19-MAY-98	180	6020
			SO4=	1902.	ppm	LV	22-MAY-98	28	9036
			TDS	3492.	ppm	JH	15-MAY-98	7	160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-12	11-MAY-98	EPRI-9805-111	TSS	99.	ppm	MO	14-MAY-98		160.2
			ZN(D)	.045	ppm	JT	13-MAY-98	180	6010
L980977-13	11-MAY-98	EPRI-9805-153	AS(D)	.032	ppm	KB	19-MAY-98	180	6020
			CA	54.	ppm	JT	13-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	19-MAY-98	180	6020
			CL-	425.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	5370.	umhos	BD	13-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	19-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	19-MAY-98	180	6020
			F-	2.2	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	13-MAY-98	180	6010
			HCO3	484.	ppm CaCO3	DC	18-MAY-98	14	310.1
			K	10.	ppm	JT	13-MAY-98	180	6010
			MG	35.	ppm	JT	13-MAY-98	180	6010
			NA	1366.	ppm	JT	13-MAY-98	180	6010
			NO2/NO3	.95	ppm	LV	27-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	19-MAY-98	180	6020
			PH	8.0	pH	DC	18-MAY-98		150.1
			SE(D)	.029	ppm	KB	19-MAY-98	180	6020
			SO4=	1848.	ppm	LV	22-MAY-98	28	9036
			TDS	4085.	ppm	JH	15-MAY-98	7	160.1
			TSS	205.	ppm	MO	14-MAY-98		160.2
			ZN(D)	.027	ppm	JT	13-MAY-98	180	6010

Approved

James J. O'Travis
Reviewer

ASARCO TECHNI ERVICES CENTER

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Batch No: WG980657

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980657-1		Matrix Spike	AS(D)	100	% RECOVERY	KB	19-MAY-98		6020
			CD(D)	95	% RECOVERY	KB	19-MAY-98		6020
			CL-	102	% RECOVERY	LV	27-MAY-98		325.2
			CR(D)	93	% RECOVERY	KB	19-MAY-98		6020
			CU(D)	86	% RECOVERY	KB	19-MAY-98		6020
			F-	100	% RECOVERY	LV	27-MAY-98		340.2
			FE(D)	96	% RECOVERY	JT	13-MAY-98		6010
			NO2/NO3	88	% RECOVERY	LV	27-MAY-98		353.2
			PB(D)	91	% RECOVERY	KB	19-MAY-98		6020
			SE(D)	106	% RECOVERY	KB	19-MAY-98		6020
			SO4=	111	% RECOVERY	LV	22-MAY-98		9036
			ZN(D)	101	% RECOVERY	JT	13-MAY-98		6010
WG980657-2		Prep Blank	AS(D)	<.005	ppm	KB	19-MAY-98		6020
			CA	<1.0	ppm	JT	13-MAY-98		6010
			CD(D)	<.005	ppm	KB	19-MAY-98		6020
			CL-	<1.0	ppm	LV	27-MAY-98		325.2
			CO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			COND.	<5.	umhos	BD	13-MAY-98		120.1
			CR(D)	<.010	ppm	KB	19-MAY-98		6020
			CU(D)	<.025	ppm	KB	19-MAY-98		6020
			F-	<.050	ppm	LV	27-MAY-98		340.2
			FE(D)	<.10	ppm	JT	13-MAY-98		6010
			HCO3	<1.0	ppm CaCO3	DC	18-MAY-98		310.1
			K	<2.0	ppm	JT	13-MAY-98		6010
			MG	<1.0	ppm	JT	13-MAY-98		6010
			NA	<2.0	ppm	JT	13-MAY-98		6010
			NO2/NO3	<.050	ppm	LV	27-MAY-98		353.2
			PB(D)	<.003	ppm	KB	19-MAY-98		6020
			SE(D)	<.005	ppm	KB	19-MAY-98		6020
			SO4=	<2.0	ppm	LV	22-MAY-98		9036
			TDS	<10.	ppm	JH	15-MAY-98		160.1
			TSS	<1.0	ppm	MO	14-MAY-98		160.2
			ZN(D)	<.020	ppm	JT	13-MAY-98		6010
WG980657-3		Laboratory Control	AS(D)	98	% RECOVERY	KB	19-MAY-98		6020
			CA	104	% RECOVERY	JT	13-MAY-98		6010
			CD(D)	100	% RECOVERY	KB	19-MAY-98		6020
			CL-	99	% RECOVERY	LV	27-MAY-98		325.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980657-3		Laboratory Control	COND.	100	% RECOVERY	BD	13-MAY-98		120.1
			CR(D)	98	% RECOVERY	KB	19-MAY-98		6020
			CU(D)	100	% RECOVERY	KB	19-MAY-98		6020
			F-	104	% RECOVERY	LV	27-MAY-98		340.2
			FE(D)	104	% RECOVERY	JT	13-MAY-98		6010
			HCO3	102	% RECOVERY	DC	18-MAY-98		310.1
			K	100	% RECOVERY	JT	13-MAY-98		6010
			MG	104	% RECOVERY	JT	13-MAY-98		6010
			NA	101	% RECOVERY	JT	13-MAY-98		6010
			NO2/NO3	97	% RECOVERY	LV	27-MAY-98		353.2
			PB(D)	98	% RECOVERY	KB	19-MAY-98		6020
			SE(D)	103	% RECOVERY	KB	19-MAY-98		6020
			SO4=	104	% RECOVERY	LV	22-MAY-98		9036
			TDS	96	% RECOVERY	JH	15-MAY-98		160.1
			TSS	91	% RECOVERY	MO	14-MAY-98		160.2
			ZN(D)	103	% RECOVERY	JT	13-MAY-98		6010
WG980657-4		Duplicate	AS(D)	2.4	% RPD	KB	19-MAY-98		6020
			CA	3.5	% RPD	JT	13-MAY-98		6010
			CD(D)	<1	% RPD	KB	19-MAY-98		6020
			CL-	3.7	% RPD	LV	27-MAY-98		325.2
			CO3	<1	% RPD	DC	18-MAY-98		310.1
			COND.	<1	% RPD	BD	13-MAY-98		120.1
			CR(D)	<1	% RPD	KB	19-MAY-98		6020
			CU(D)	<1	% RPD	KB	19-MAY-98		6020
			F-	2.7	% RPD	LV	27-MAY-98		340.2
			FE(D)	<1	% RPD	JT	13-MAY-98		6010
			HCO3	<1	% RPD	DC	18-MAY-98		310.1
			K	1.6	% RPD	JT	13-MAY-98		6010
			MG	3.0	% RPD	JT	13-MAY-98		6010
			NA	3.4	% RPD	JT	13-MAY-98		6010
			NO2/NO3	1.5	% RPD	LV	27-MAY-98		353.2
			PB(D)	<1	% RPD	KB	19-MAY-98		6020
			SE(D)	1.6	% RPD	KB	19-MAY-98		6020
			SO4=	2.0	% RPD	LV	22-MAY-98		9036
			TDS	<1	% RPD	JH	15-MAY-98		160.1
			TSS	<1	% RPD	MO	14-MAY-98		160.2
			ZN(D)	1.2	% RPD	JT	13-MAY-98		6010

ASARCO TECHNIC... SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980657

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980657-5		Practical Quantitation Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6010

Approved

James J. Travis
Reviewer

Hydrometrics, 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.: 0734-
PROJECT NAME: ASARCO - ElPaso, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
5-8-98	830			EPRI-9805-124	3	X	X	X				~~X~~	~~X~~								
	900			EPRI-9805-129	3	X	X	X													
	940			EPRI-9805-127	3	X	X	X													
	1010			EPRI-9805-128	3	X	X	X													
	1040			EPRI-9805-125	3	X	X	X													
	1110			EPRI-9805-~~114~~ 131	3	X	X	X													
5-11-98	920			EPRI-9805-118	3	X	X	X													
	1050			EPRI-9805-119	3	X	X	X													
	1120			EPRI-9805-138	3	X	X	X													
	1345			EPRI-9805-140	3	X	X	X													
	1430			EPRI-9805-141	3	X	X	X													
	1515			EPRI-9805-111	3	X	X	X													
	1545			EPRI-9805-153	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Red Ex, UPS
[signature]	5/12/98 4:00 pm		TSC-SALT LAKE City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	
		[signature]	5.13.98 10:15		

HFORM-1

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

Split Samples: ☐ Accepted ☐ Declined

ASARCO

May 29, 1998

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for eighteen water samples collected May 12 through May 14, 1998. The samples were received by the lab on May 15, 1998.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy

Bilquis Dhedhy
Chemist

cc: Clare Bridge (w/attach.)
GRStanga "

RECEIVED
JUN 08 1998
HYDROMETRICS, INC.

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-1	12-MAY-98	EPRI-9805-132	AS(D)	.015	ppm	KB	21-MAY-98	180	6020
			CA	457.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	364.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	4440.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	.79	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	200.	ppm	DC	18-MAY-98	14	310.1
			K	15.	ppm	BD	29-MAY-98	180	6010
			MG	134.	ppm	JT	19-MAY-98	180	6010
			NA	473.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	17.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.2	pH	DC	18-MAY-98		150.1
			SE(D)	.14	ppm	KB	21-MAY-98	180	6020
			SO4=	1900.	ppm	LV	28-MAY-98	28	9036
			TDS	3665.	ppm	JH	19-MAY-98	7	160.1
			TSS	3.6	ppm	MO	19-MAY-98		160.2
			ZN(D)	.028	ppm	KB	21-MAY-98	180	6020
L980996-2	12-MAY-98	EPRI-9805-136	AS(D)	.13	ppm	KB	21-MAY-98	180	6020
			CA	362.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	476.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	6440.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	.89	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	246.	ppm	DC	18-MAY-98	14	310.1
			K	18.	ppm	BD	29-MAY-98	180	6010
			MG	169.	ppm	JT	19-MAY-98	180	6010
			NA	1058.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	46.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020

ASARCO TECHNI[illegible] SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-2	12-MAY-98	EPRI-9805-136	PH	7.3	pH	DC	18-MAY-98		150.1
			SE(D)	.27	ppm	KB	21-MAY-98	180	6020
			SO4=	2329.	ppm	LV	28-MAY-98	28	9036
			TDS	5049.	ppm	JH	19-MAY-98	7	160.1
			TSS	3.2	ppm	MO	19-MAY-98		160.2
			ZN(D)	.023	ppm	KB	21-MAY-98	180	6020
L980996-3	12-MAY-98	EPRI-9805-135	AS(D)	1.2	ppm	KB	21-MAY-98	180	6020
			CA	277.	ppm	JT	19-MAY-98	180	6010
			CD(D)	.012	ppm	KB	21-MAY-98	180	6020
			CL-	565.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	6290.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	1.2	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	232.	ppm	DC	18-MAY-98	14	310.1
			K	20.	ppm	JT	19-MAY-98	180	6010
			MG	143.	ppm	JT	19-MAY-98	180	6010
			NA	1097.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	46.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.4	pH	DC	18-MAY-98		150.1
			SE(D)	.21	ppm	KB	21-MAY-98	180	6020
			SO4=	2356.	ppm	LV	28-MAY-98	28	9036
			TDS	4672.	ppm	JH	19-MAY-98	7	160.1
			TSS	<1.0	ppm	MO	19-MAY-98		160.2
			ZN(D)	.19	ppm	KB	21-MAY-98	180	6020
L980996-4	13-MAY-98	EPRI-9805-133	AS(D)	.009	ppm	KB	21-MAY-98	180	6020
			CA	299.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	715.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	5690.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	.012	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	.76	ppm	LV	27-MAY-98	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-4	13-MAY-98	EPRI-9805-133	FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	180.	ppm	DC	18-MAY-98	14	310.1
			K	16.	ppm	BD	29-MAY-98	180	6010
			MG	129.	ppm	JT	19-MAY-98	180	6010
			NA	815.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	23.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.4	pH	DC	18-MAY-98		150.1
			SE(D)	.33	ppm	KB	21-MAY-98	180	6020
			SO4=	1845.	ppm	LV	28-MAY-98	28	9036
			TDS	4125.	ppm	JH	19-MAY-98	7	160.1
			TSS	46.	ppm	MO	19-MAY-98		160.2
			ZN(D)	.020	ppm	KB	21-MAY-98	180	6020
L980996-5	13-MAY-98	EPRI-9805-179	AS(D)	.010	ppm	KB	21-MAY-98	180	6020
			CA	316.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	789.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	5740.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	.012	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	.76	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	185.	ppm	DC	18-MAY-98	14	310.1
			K	16.	ppm	BD	29-MAY-98	180	6010
			MG	133.	ppm	JT	19-MAY-98	180	6010
			NA	840.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	21.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	8.1	pH	DC	18-MAY-98		150.1
			SE(D)	.34	ppm	KB	21-MAY-98	180	6020
			SO4=	1878.	ppm	LV	28-MAY-98	28	9036
			TDS	4166.	ppm	JH	19-MAY-98	7	160.1
			TSS	51.	ppm	MO	19-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	21-MAY-98	180	6020
L980996-6	13-MAY-98	EPRI-9805-154	AS(D)	.006	ppm	KB	21-MAY-98	180	6020
			CA	155.	ppm	JT	19-MAY-98	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-6	13-MAY-98	EPRI-9805-154	CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	336.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	2780.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	.77	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	216.	ppm	DC	18-MAY-98	14	310.1
			K	15.	ppm	JT	19-MAY-98	180	6010
			MG	62.	ppm	JT	19-MAY-98	180	6010
			NA	360.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	7.7	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.7	pH	DC	18-MAY-98		150.1
			SE(D)	.026	ppm	KB	21-MAY-98	180	6020
			SO4=	797.	ppm	LV	28-MAY-98	28	9036
			TDS	1814.	ppm	JH	19-MAY-98	7	160.1
			TSS	2.2	ppm	MO	19-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	21-MAY-98	180	6020
L980996-7	13-MAY-98	EPRI-9805-137	AS(D)	.50	ppm	KB	21-MAY-98	180	6020
			CA	327.	ppm	JT	19-MAY-98	180	6010
			CD(D)	.22	ppm	KB	21-MAY-98	180	6020
			CL-	569.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	6030.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	1.4	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	231.	ppm	DC	18-MAY-98	14	310.1
			K	21.	ppm	JT	19-MAY-98	180	6010
			MG	150.	ppm	JT	19-MAY-98	180	6010
			NA	985.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	44.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.5	pH	DC	18-MAY-98		150.1
			SE(D)	.39	ppm	KB	21-MAY-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-7	13-MAY-98	EPRI-9805-137	SO4=	2296.	ppm	LV	28-MAY-98	28	9036
			TDS	4600.	ppm	JH	19-MAY-98	7	160.1
			TSS	2.9	ppm	MO	19-MAY-98		160.2
			ZN(D)	.54	ppm	KB	21-MAY-98	180	6020
L980996-8	13-MAY-98	EPRI-9805-139	AS(D)	.17	ppm	KB	21-MAY-98	180	6020
			CA	120.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	315.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	2900.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	.60	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	232.	ppm	DC	18-MAY-98	14	310.1
			K	<5.0	ppm	JT	19-MAY-98	180	6010
			MG	55.	ppm	JT	19-MAY-98	180	6010
			NA	461.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	12.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.8	pH	DC	18-MAY-98		150.1
			SE(D)	.86	ppm	KB	21-MAY-98	180	6020
			SO4=	828.	ppm	LV	28-MAY-98	28	9036
			TDS	1930.	ppm	JH	19-MAY-98	7	160.1
			TSS	74.	ppm	MO	19-MAY-98		160.2
			ZN(D)	.027	ppm	KB	21-MAY-98	180	6020
L980996-9	13-MAY-98	EPRI-9805-142	AS(D)	5.4	ppm	KB	21-MAY-98	180	6020
			CA	220.	ppm	JT	19-MAY-98	180	6010
			CD(D)	.016	ppm	KB	21-MAY-98	180	6020
			CL-	608.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	5070.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	2.7	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	224.	ppm	DC	18-MAY-98	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-9	13-MAY-98	EPRI-9805-142							
			K	35.	ppm	JT	19-MAY-98	180	6010
			MG	48.	ppm	JT	19-MAY-98	180	6010
			NA	1054.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	.40	ppm	LV	28-MAY-98	28	353.2
			PB(D)	.005	ppm	KB	21-MAY-98	180	6020
			PH	7.5	pH	DC	18-MAY-98		150.1
			SE(D)	.018	ppm	KB	21-MAY-98	180	6020
			SO4=	1698.	ppm	LV	28-MAY-98	28	9036
			TDS	3502.	ppm	JH	19-MAY-98	7	160.1
			TSS	190.	ppm	MO	19-MAY-98		160.2
			ZN(D)	.031	ppm	KB	21-MAY-98	180	6020
L980996-10	13-MAY-98	EPRI-9805-146							
			AS(D)	.034	ppm	KB	21-MAY-98	180	6020
			CA	208.	ppm	JT	19-MAY-98	180	6010
			CD(D)	.006	ppm	KB	21-MAY-98	180	6020
			CL-	346.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	3040.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	.69	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	244.	ppm	DC	18-MAY-98	14	310.1
			K	<5.0	ppm	JT	19-MAY-98	180	6010
			MG	99.	ppm	JT	19-MAY-98	180	6010
			NA	335.	ppm	LV	28-MAY-98	28	353.2
			NO2/NO3	10.	ppm	KB	21-MAY-98	180	6020
			PB(D)	.006	pH	DC	18-MAY-98		150.1
			PH	7.5	ppm	KB	21-MAY-98	180	6020
			SE(D)	.029	ppm	LV	28-MAY-98	28	9036
			SO4=	916.	ppm	JH	19-MAY-98	7	160.1
			TDS	2087.	ppm	MO	19-MAY-98		160.2
			TSS	8.1	ppm	KB	21-MAY-98	180	6020
			ZN(D)	.052					
L980996-11	13-MAY-98	EPRI-9805-148							
			AS(D)	.010	ppm	KB	21-MAY-98	180	6020
			CA	71.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	350.	ppm	LV	27-MAY-98	28	325.2

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-11	13-MAY-98	EPRI-9805-148	CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	3840.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	3.1	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	294.	ppm	DC	18-MAY-98	14	310.1
			K	<5.0	ppm	JT	19-MAY-98	180	6010
			MG	64.	ppm	JT	19-MAY-98	180	6010
			NA	763.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	9.1	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.8	pH	DC	18-MAY-98		150.1
			SE(D)	.054	ppm	KB	21-MAY-98	180	6020
			SO4=	1126.	ppm	LV	28-MAY-98	28	9036
			TDS	2558.	ppm	JH	19-MAY-98	7	160.1
			TSS	4.0	ppm	MO	19-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	21-MAY-98	180	6020
L980996-12	13-MAY-98	EPRI-9805-145	AS(D)	.020	ppm	KB	21-MAY-98	180	6020
			CA	183.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	360.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	4960.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	1.3	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	409.	ppm	DC	18-MAY-98	14	310.1
			K	15.	ppm	BD	29-MAY-98	180	6010
			MG	80.	ppm	JT	19-MAY-98	180	6010
			NA	1004.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	5.2	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.6	pH	DC	18-MAY-98		150.1
			SE(D)	.039	ppm	KB	21-MAY-98	180	6020
			SO4=	1757.	ppm	LV	28-MAY-98	28	9036
			TDS	3596.	ppm	JH	19-MAY-98	7	160.1

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Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-12	13-MAY-98	EPRI-9805-145	TSS	6.2	ppm	MO	19-MAY-98		160.2
			ZN(D)	.023	ppm	KB	21-MAY-98	180	6020
L980996-13	14-MAY-98	EPRI-9805-151	AS(D)	.008	ppm	KB	21-MAY-98	180	6020
			CA	40.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	274.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	2640.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	2.8	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	284.	ppm	DC	18-MAY-98	14	310.1
			K	<5.0	ppm	JT	19-MAY-98	180	6010
			MG	30.	ppm	JT	19-MAY-98	180	6010
			NA	507.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	5.6	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.9	pH	DC	18-MAY-98		150.1
			SE(D)	.041	ppm	KB	21-MAY-98	180	6020
			SO4=	599.	ppm	LV	28-MAY-98	28	9036
			TDS	1628.	ppm	JH	19-MAY-98	7	160.1
			TSS	61.	ppm	MO	19-MAY-98		160.2
			ZN(D)	.020	ppm	KB	21-MAY-98	180	6020
L980996-14	14-MAY-98	EPRI-9805-144	AS(D)	.008	ppm	KB	21-MAY-98	180	6020
			CA	56.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	468.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	5080.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	.011	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	4.4	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	500.	ppm	DC	18-MAY-98	14	310.1
			K	<5.0	ppm	JT	19-MAY-98	180	6010
			MG	69.	ppm	JT	19-MAY-98	180	6010

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Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-14	14-MAY-98	EPRI-9805-144	NA	1144.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	9.9	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.8	pH	DC	18-MAY-98		150.1
			SE(D)	.17	ppm	KB	21-MAY-98	180	6020
			SO4=	1518.	ppm	LV	28-MAY-98	28	9036
			TDS	3404.	ppm	JH	19-MAY-98	7	160.1
			TSS	718.	ppm	MO	19-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	21-MAY-98	180	6020
L980996-15	14-MAY-98	EPRI-9805-143	AS(D)	5.6	ppm	KB	21-MAY-98	180	6020
			CA	78.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	325.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	3730.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	3.9	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	297.	ppm	DC	18-MAY-98	14	310.1
			K	48.	ppm	JT	19-MAY-98	180	6010
			MG	40.	ppm	JT	19-MAY-98	180	6010
			NA	669.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	11.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	8.0	pH	DC	18-MAY-98		150.1
			SE(D)	.21	ppm	KB	21-MAY-98	180	6020
			SO4=	1078.	ppm	LV	28-MAY-98	28	9036
			TDS	2364.	ppm	JH	19-MAY-98	7	160.1
			TSS	18.	ppm	MO	19-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	21-MAY-98	180	6020
L980996-16	14-MAY-98	EPRI-9805-147	AS(D)	.010	ppm	KB	21-MAY-98	180	6020
			CA	170.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	530.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	4740.	umhos	BD	18-MAY-98	28	120.1

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Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-16	14-MAY-98	EPRI-9805-147	CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	2.5	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	312.	ppm	DC	18-MAY-98	14	310.1
			K	20.	ppm	JT	19-MAY-98	180	6010
			MG	85.	ppm	JT	19-MAY-98	180	6010
			NA	844.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	10.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.6	pH	DC	18-MAY-98		150.1
			SE(D)	.18	ppm	KB	21-MAY-98	180	6020
			SO4=	1317.	ppm	LV	28-MAY-98	28	9036
			TDS	3297.	ppm	JH	19-MAY-98	7	160.1
			TSS	47.	ppm	MO	19-MAY-98		160.2
			ZN(D)	.022	ppm	KB	21-MAY-98	180	6020
L980996-17	14-MAY-98	EPRI-9805-150	AS(D)	2.8	ppm	KB	21-MAY-98	180	6020
			CA	105.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	233.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	2970.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	3.5	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	282.	ppm	DC	18-MAY-98	14	310.1
			K	28.	ppm	BD	29-MAY-98	180	6010
			MG	51.	ppm	JT	19-MAY-98	180	6010
			NA	496.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	7.1	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.7	pH	DC	18-MAY-98		150.1
			SE(D)	.16	ppm	KB	21-MAY-98	180	6020
			SO4=	857.	ppm	LV	28-MAY-98	28	9036
			TDS	2047.	ppm	JH	19-MAY-98	7	160.1
			TSS	7.3	ppm	MO	19-MAY-98		160.2
			ZN(D)	.025	ppm	KB	21-MAY-98	180	6020

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Water and Solid Waste (Project 3220)

Batch No: L980996

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980996-18	14-MAY-98	EPRI-9805-149	AS(D)	.24	ppm	KB	21-MAY-98	180	6020
			CA	140.	ppm	JT	19-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	21-MAY-98	180	6020
			CL-	100.	ppm	LV	27-MAY-98	28	325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	2540.	umhos	BD	18-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	21-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	21-MAY-98	180	6020
			F-	1.4	ppm	LV	27-MAY-98	28	340.2
			FE(D)	<.10	ppm	JT	19-MAY-98	180	6010
			HCO3	440.	ppm	DC	18-MAY-98	14	310.1
			K	12.	ppm	BD	29-MAY-98	180	6010
			MG	75.	ppm	JT	19-MAY-98	180	6010
			NA	330.	ppm	JT	19-MAY-98	180	6010
			NO2/NO3	7.9	ppm	LV	28-MAY-98	28	353.2
			PB(D)	<.003	ppm	KB	21-MAY-98	180	6020
			PH	7.4	pH	DC	18-MAY-98		150.1
			SE(D)	.21	ppm	KB	21-MAY-98	180	6020
			SO4=	776.	ppm	LV	28-MAY-98	28	9036
			TDS	1850.	ppm	JH	19-MAY-98	7	160.1
			TSS	45.	ppm	MO	19-MAY-98		160.2
			ZN(D)	.021	ppm	KB	21-MAY-98	180	6020

Approved

KB/dc

Reviewer

ASARCO TECHNICAL SERVICES CENTER

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Water and Solid Waste (Project 3220)

Batch No: WG980664

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980664-1		Matrix Spike	AS(D)	101	% RECOVERY	KB	21-MAY-98		6020
			CD(D)	96	% RECOVERY	KB	21-MAY-98		6020
			CL-	102	% RECOVERY	LV	27-MAY-98		325.2
			CR(D)	99	% RECOVERY	KB	21-MAY-98		6020
			CU(D)	92	% RECOVERY	KB	21-MAY-98		6020
			F-	97	% RECOVERY	LV	27-MAY-98		340.2
			FE(D)	88	% RECOVERY	JT	19-MAY-98		6010
			NO2/NO3	85	% RECOVERY	LV	28-MAY-98		353.2
			PB(D)	97	% RECOVERY	KB	21-MAY-98		6020
			SE(D)	106	% RECOVERY	KB	21-MAY-98		6020
			SO4=	101	% RECOVERY	LV	28-MAY-98		9036
			ZN(D)	105	% RECOVERY	KB	21-MAY-98		6020
WG980664-2		Prep Blank	AS(D)	<.005	ppm	KB	21-MAY-98		6020
			CA	<1.0	ppm	JT	19-MAY-98		6010
			CD(D)	<.005	ppm	KB	21-MAY-98		6020
			CL-	<1.0	ppm	LV	27-MAY-98		325.2
			CO3	<1.0	ppm	DC	18-MAY-98		310.1
			COND.	<5.	umhos	BD	18-MAY-98		120.1
			CR(D)	<.010	ppm	KB	21-MAY-98		6020
			CU(D)	<.025	ppm	KB	21-MAY-98		6020
			F-	<.050	ppm	LV	27-MAY-98		340.2
			FE(D)	<.10	ppm	JT	19-MAY-98		6010
			HCO3	<1.0	ppm	DC	18-MAY-98		310.1
			K	<5.0	ppm	JT	19-MAY-98		6010
			MG	<1.0	ppm	JT	19-MAY-98		6010
			NA	<5.0	ppm	JT	19-MAY-98		6010
			NO2/NO3	<.050	ppm	LV	28-MAY-98		353.2
			PB(D)	<.003	ppm	KB	21-MAY-98		6020
			SE(D)	<.005	ppm	KB	21-MAY-98		6020
			SO4=	<2.0	ppm	LV	28-MAY-98		9036
			TDS	<10.	ppm	JH	19-MAY-98		160.1
			TSS	<1.0	ppm	MO	19-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	21-MAY-98		6020
WG980664-3		Laboratory Control	AS(D)	95	% RECOVERY	KB	21-MAY-98		6020
			CA	96	% RECOVERY	JT	19-MAY-98		6010
			CD(D)	98	% RECOVERY	KB	21-MAY-98		6020
			CL-	99	% RECOVERY	LV	27-MAY-98		325.2

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Batch No: WG980664

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980664-3		Laboratory Control	COND.	101	% RECOVERY	BD	18-MAY-98		120.1
			CR(D)	98	% RECOVERY	KB	21-MAY-98		6020
			CU(D)	98	% RECOVERY	KB	21-MAY-98		6020
			F-	104	% RECOVERY	LV	27-MAY-98		340.2
			FE(D)	92	% RECOVERY	JT	19-MAY-98		6010
			HCO3	100	% RECOVERY	DC	18-MAY-98		310.1
			K	88	% RECOVERY	JT	19-MAY-98		6010
			MG	98	% RECOVERY	JT	19-MAY-98		6010
			NA	90	% RECOVERY	JT	19-MAY-98		6010
			NO2/NO3	101	% RECOVERY	LV	28-MAY-98		353.2
			PB(D)	100	% RECOVERY	KB	21-MAY-98		6020
			SE(D)	95	% RECOVERY	KB	21-MAY-98		6020
			SO4=	96	% RECOVERY	LV	28-MAY-98		9036
			TDS	100	% RECOVERY	JH	19-MAY-98		160.1
			TSS	96	% RECOVERY	MO	19-MAY-98		160.2
			ZN(D)	100	% RECOVERY	KB	21-MAY-98		6020
WG980664-4		Duplicate	AS(D)	2.2	% RPD	KB	21-MAY-98		6020
			CA	6.6	% RPD	JT	19-MAY-98		6010
			CD(D)	<1	% RPD	KB	21-MAY-98		6020
			CL-	1.7	% RPD	LV	27-MAY-98		325.2
			CO3	<1	% RPD	DC	18-MAY-98		310.1
			COND.	<1	% RPD	BD	18-MAY-98		120.1
			CR(D)	<1	% RPD	KB	21-MAY-98		6020
			CU(D)	<1	% RPD	KB	21-MAY-98		6020
			F-	1.5	% RPD	LV	27-MAY-98		340.2
			FE(D)	<1	% RPD	JT	19-MAY-98		6010
			HCO3	1.4	% RPD	DC	18-MAY-98		310.1
			K	14	% RPD	JT	19-MAY-98		6010
			MG	<1	% RPD	JT	19-MAY-98		6010
			NA	<1	% RPD	JT	19-MAY-98		6010
			NO2/NO3	<1	% RPD	LV	28-MAY-98		353.2
			PB(D)	<1	% RPD	KB	21-MAY-98		6020
			SE(D)	<1	% RPD	KB	21-MAY-98		6020
			SO4=	<1	% RPD	LV	28-MAY-98		9036
			TDS	1.8	% RPD	JH	19-MAY-98		160.1
			TSS	<1	% RPD	MO	19-MAY-98		160.2
			ZN(D)	4.3	% RPD	KB	21-MAY-98		6020

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Batch No: WG980664

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980664-5		Practical Quantitation Limit	AS(D)	.005	ppm				6020
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm				310.1
			COND.	5.	umhos				120.1
			CR(D)	.010	ppm				6020
			CU(D)	.025	ppm				6020
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			HCO3	1.0	ppm				310.1
			K	5.0	ppm				6010
			MG	1.0	ppm				6010
			NA	5.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			SE(D)	.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020

Approved

Reviewer

Hydrotechnics, Inc.
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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734-
PROJECT NAME: ASARCO - El Paso, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
5-12-98	1430			EPRI-9805-132	3	X	X	X													
5-12-98	1515			EPRI-9805-136	3	X	X	X													
5-12-98	1545			EPRI-9805-135	3	X	X	X													
5-13-98	820			EPRI-9805-133	3	X	X	X													
	830			EPRI-9805-179	3	X	X	X													
	915			EPRI-9805-154	3	X	X	X													
	950			EPRI-9805-137	3	X	X	X													
	1030			EPRI-9805-139	3	X	X	X													
	1115			EPRI-9805-142	3	X	X	X													
	1345			EPRI-9805-146	3	X	X	X													
	1500			EPRI-9805-148	3	X	X	X													
	1530			EPRI-9805-145	3	X	X	X													
5-14-98	820			EPRI-9805-151	3	X	X	X													
	915			EPRI-9805-144	3	X	X	X													
	945			EPRI-9805-143	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	5-14-98 1600		ASARCO - Salt Lake City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	
		[illegible]	5.15.98 10:30		

HFORM-1

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

Split Samples: ☐ Accepted ☐ Declined

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85[illegible] (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.: 0734-
PROJECT NAME: ASARCO - ElPaso, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
5-14-98	1015			EPRI-9805-147	3	X	X	X													
	1045			EPRI-9805-150	3	X	X	X													
	1115			EPRI-9805-149	3	X	X	X													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus Fed Ex UPS Other Air Bill #
Douglas M. Solon	5-14-98 1600		ASARCO-Salt Lake City		
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other	
		[illegible]	5.15.98 10:30		

Split Samples: [] Accepted [] Declined _____ Signature

HFORM-1-4/95

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

HYDROMETRICS, INC. - EL PASO

PROJECT MEMO

TO: TSC Laboratory - Salt Lake City
FILE

FROM: Lairy Johnson, Doug Solon

DATE: May 1, 1998

SUBJECT: Analysis of Ground Water - 0734-502.100

The samples included are to be analyzed for the parameters on the attached sheet. The samples will follow Standard SW846 sample analysis protocol.

We would like the sample results to be completed and forwarded to our office in ~~15~~ 10 work days from time of receipt. Please send the original results with chain-of-custody to us in El Paso and a copy of the results with chain-of-custody to Clare Bridge in Helena.

Please call us upon receipt to verify that the cooler(s) has arrived.

If you have any questions, please call us.

Thanks,

Lairy

TABLE 4-8A. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR WATER SAMPLES

Parameter	Method[1]	PDLG[2] Water (mg/L)	Holding Time
WATER MATRIX			
pH	150.1 (field and lab)	--	analyze immediately
SC	120.1 (field and lab)	--	analyze immediately
temperature	field measurement only	--	analyze immediately
TDS	160.1	10	7 days
TSS	160.2	10	7 days
oxygen (Dis)	field measurement only	--	analyze immediately
bicarbonate	310.x	1	14 days
carbonate	310.x	1	14 days
sulfate	375.x	1	28 days
chloride	325.x	1	28 days
fluoride	340.2	0.1	28 days
nitrite/ nitrate	353.2	0.1	28 days
Ca	200.7/215.1/6020, ICP/FAA/ICP-MS	1	6 months
Mg	200.7/242.1/6020, ICP/FAA ICP-MS	1	6 months
Na	200.7/273.1/6020, ICP/FAA ICP-MS	5	6 months
K	200.7/258.1/6020, ICP/FAA ICP-MS	5	6 months
As	200.7/6020/206.2, ICP/ICP-MS/GFAA	0.005	6 months
Cd	200.7/6020/213.2, ICP/ ICP-MS/GFAA	0.005	6 months
Cu	200.7/6020/220.1, ICP/ ICP-MS/FAA	0.025	6 months
Cr	200.7/6020/218.2, ICP/ ICP-MS/FAA	0.01	6 months
Fe	200.7/6020/236.1, ICP/ ICP-MS/FAA	0.1	6 months
Pb	200.7/6020/239.2. ICP/ ICP-MS/GFAA	0.003	6 months
Se	200.7/6020/270.2/270.3/st meth 303A ICP/ ICP-MS/GFAA/HGAA/FAA	0.005	6 months
Zn	200.7/6020/289.2. ICP/ ICP-MS/GFAA	0.02	6 months

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983) and "Test Methods for Evaluating Solid Wastes" (EPA, 1990).

2 Project Detection Limit Goal.

Note: Groundwater samples analyzed for dissolved constituents only. Surface water analyzed for both total recoverable and dissolved metals.

ASARCO

June 05, 1998

RECEIVED
JUN 12 1998
HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics, Inc.
El Paso.

Please find attached the analytical results, associated quality control data and chain of custody forms for twenty one water samples collected May 18 and May 19, 1998. The samples were received by the lab on May 20, 1998.

If you have any questions, I can be reached at 801 263-5268.

Sincerely,

Bilquis Dhedhy

Bilquis Dhedhy
Chemist

cc: Clare Bridge (w/attach.)
GRStanga "

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-1	18-MAY-98	EPRI-9805-157	AS(D)	.019	ppm	KB	29-MAY-98	180	6020
			CA	383.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	2798.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	9420.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	.071	ppm	KB	29-MAY-98	180	6020
			F-	1.3	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	116.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	37.	ppm	JT	21-MAY-98	180	6010
			MG	168.	ppm	JT	21-MAY-98	180	6010
			NA	1618.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.23	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	7.7	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SO4=	376.	ppm	LV	03-JUN-98	28	9036
			TDS	5744.	ppm	JH	21-MAY-98	7	160.1
			TSS	<1.0	ppm	MO	21-MAY-98		160.2
			ZN(D)	.032	ppm	KB	29-MAY-98	180	6020
L981031-2	18-MAY-98	EPRI-9805-156	AS(D)	.58	ppm	KB	29-MAY-98	180	6020
			CA	173.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	428.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	4190.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			F-	1.5	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	263.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	17.	ppm	JT	21-MAY-98	180	6010
			MG	68.	ppm	JT	21-MAY-98	180	6010
			NA	785.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	19.	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-2	18-MAY-98	EPRI-9805-156	PH	7.5	pH	DC	21-MAY-98		150.1
			SE(D)	.13	ppm	KB	29-MAY-98	180	6020
			SO4=	1197.	ppm	LV	02-JUN-98	28	9036
			TDS	2917.	ppm	JH	21-MAY-98	7	160.1
			TSS	9.2	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
L981031-3	18-MAY-98	EPRI-9805-158	AS(D)	1.7	ppm	KB	29-MAY-98	180	6020
			CA	142.	ppm	JT	21-MAY-98	180	6010
			CD(D)	.017	ppm	KB	29-MAY-98	180	6020
			CL-	485.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	4920.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	.025	ppm	KB	29-MAY-98	180	6020
			F-	9.5	ppm	LV	05-JUN-98	28	340.2
			FE(D)	1.3	ppm	JT	21-MAY-98	180	6010
			HCO3	128.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	54.	ppm	JT	21-MAY-98	180	6010
			MG	33.	ppm	JT	21-MAY-98	180	6010
			NA	1084.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.16	ppm	LV	05-JUN-98	28	353.2
			PB(D)	.005	ppm	KB	29-MAY-98	180	6020
			PH	7.9	pH	DC	21-MAY-98		150.1
			SE(D)	.013	ppm	KB	29-MAY-98	180	6020
			SO4=	1599.	ppm	LV	02-JUN-98	28	9036
			TDS	3432.	ppm	JH	21-MAY-98	7	160.1
			TSS	3.4	ppm	MO	21-MAY-98		160.2
			ZN(D)	.17	ppm	KB	29-MAY-98	180	6020
L981031-4	18-MAY-98	EPRI-9805-159	AS(D)	.025	ppm	KB	29-MAY-98	180	6020
			CA	117.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	390.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	4090.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	.045	ppm	KB	29-MAY-98	180	6020
			F-	2.0	ppm	LV	05-JUN-98	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-4	18-MAY-98	EPRI-9805-159	FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	291.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	11.	ppm	JT	21-MAY-98	180	6010
			MG	71.	ppm	JT	21-MAY-98	180	6010
			NA	865.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	6.6	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	7.6	pH	DC	21-MAY-98		150.1
			SE(D)	.099	ppm	KB	29-MAY-98	180	6020
			SO4=	1223.	ppm	LV	02-JUN-98	28	9036
			TDS	2874.	ppm	JH	21-MAY-98	7	160.1
			TSS	<1.0	ppm	MO	21-MAY-98		160.2
			ZN(D)	.052	ppm	KB	29-MAY-98	180	6020
L981031-5	18-MAY-98	EPRI-9805-180	AS(D)	.024	ppm	KB	29-MAY-98	180	6020
			CA	116.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	420.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	4120.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	.044	ppm	KB	29-MAY-98	180	6020
			F-	1.9	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	295.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	12.	ppm	BD	04-JUN-98	180	6010
			MG	71.	ppm	JT	21-MAY-98	180	6010
			NA	861.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	6.9	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	7.5	pH	DC	21-MAY-98		150.1
			SE(D)	.098	ppm	KB	29-MAY-98	180	6020
			SO4=	1245.	ppm	LV	02-JUN-98	28	9036
			TDS	2846.	ppm	JH	21-MAY-98	7	160.1
			TSS	<1.0	ppm	MO	21-MAY-98		160.2
			ZN(D)	.044	ppm	KB	29-MAY-98	180	6020
L981031-6	18-MAY-98	EPRI-9805-155	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CA	206.	ppm	JT	21-MAY-98	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-6	18-MAY-98	EPRI-9805-155	CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	743.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	5550.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			F-	.81	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	186.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	28.	ppm	JT	21-MAY-98	180	6010
			MG	115.	ppm	JT	21-MAY-98	180	6010
			NA	1008.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	7.6	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SO4=	1699.	ppm	LV	02-JUN-98	28	9036
			TDS	3901.	ppm	JH	21-MAY-98	7	160.1
			TSS	122.	ppm	MO	21-MAY-98		160.2
			ZN(D)	.020	ppm	KB	29-MAY-98	180	6020
L981031-7	18-MAY-98	EPRI-9805-123	AS(D)	4.5	ppm	KB	29-MAY-98	180	6020
			CA	489.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	789.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	11500.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	.011	ppm	KB	29-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			F-	5.0	ppm	LV	05-JUN-98	28	340.2
			FE(D)	.90	ppm	JT	21-MAY-98	180	6010
			HCO3	1116.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	252.	ppm	JT	21-MAY-98	180	6010
			MG	189.	ppm	JT	21-MAY-98	180	6010
			NA	2245.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	6.8	pH	DC	21-MAY-98		150.1
			SE(D)	.034	ppm	KB	29-MAY-98	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-7	18-MAY-98	EPRI-9805-123	SO4=	4372.	ppm	LV	03-JUN-98	28	9036
			TDS	8740.	ppm	JH	21-MAY-98	7	160.1
			TSS	172.	ppm	MO	21-MAY-98		160.2
			ZN(D)	.023	ppm	KB	29-MAY-98	180	6020
L981031-8	18-MAY-98	EPRI-9805-126	AS(D)	.008	ppm	KB	29-MAY-98	180	6020
			CA	454.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	836.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	8860.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			F-	1.6	ppm	LV	05-JUN-98	28	340.2
			FE(D)	.18	ppm	JT	21-MAY-98	180	6010
			HCO3	356.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	24.	ppm	JT	21-MAY-98	180	6010
			MG	189.	ppm	JT	21-MAY-98	180	6010
			NA	1684.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	156.	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	7.3	pH	DC	21-MAY-98		150.1
			SE(D)	.31	ppm	KB	29-MAY-98	180	6020
			SO4=	3315.	ppm	LV	02-JUN-98	28	9036
			TDS	7116.	ppm	JH	21-MAY-98	7	160.1
			TSS	27.	ppm	MO	21-MAY-98		160.2
			ZN(D)	.022	ppm	KB	29-MAY-98	180	6020
L981031-9	18-MAY-98	EPRI-9805-130	AS(D)	.007	ppm	KB	29-MAY-98	180	6020
			CA	328.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	689.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	7440.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			F-	2.1	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	422.	ppm CaCO3	DC	21-MAY-98	14	310.1

ASARCO TECHNICAL SERVICES CENTER

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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-9	18-MAY-98	EPRI-9805-130	K	28.	ppm	JT	21-MAY-98	180	6010
			MG	139.	ppm	JT	21-MAY-98	180	6010
			NA	1349.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	35.	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	7.3	pH	DC	21-MAY-98		150.1
			SE(D)	.16	ppm	KB	29-MAY-98	180	6020
			SO4=	2892.	ppm	LV	02-JUN-98	28	9036
			TDS	5726.	ppm	JH	21-MAY-98	7	160.1
			TSS	132.	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
L981031-10	18-MAY-98	EPRI-9805-122	AS(D)	.79	ppm	KB	29-MAY-98	180	6020
			CA	71.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CL-	258.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	2610.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			F-	.95	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	1102.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	18.	ppm	JT	21-MAY-98	180	6010
			MG	64.	ppm	JT	21-MAY-98	180	6010
			NA	455.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.16	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PH	7.5	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SO4=	172.	ppm	LV	03-JUN-98	28	9036
			TDS	1475.	ppm	JH	21-MAY-98	7	160.1
			TSS	1076.	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
L981031-11	19-MAY-98	EPRI-9805-173	AS(D)	2.7	ppm	KB	29-MAY-98	180	6020
			CA	213.	ppm	JT	21-MAY-98	180	6010
			CD(D)	.059	ppm	KB	29-MAY-98	180	6020
			CL-	512.	ppm	LV	02-JUN-98	28	325.2

ASARCO TECHNI[illegible] ERVICES CENTER

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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-11	19-MAY-98	EPRI-9805-173	CO3	58.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	4650.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	.27	ppm	KB	29-MAY-98	180	6020
			F-	8.2	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	123.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	29.	ppm	JT	21-MAY-98	180	6010
			MG	47.	ppm	JT	21-MAY-98	180	6010
			NA	925.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-JUN-98	28	353.2
			PB(D)	.004	ppm	KB	29-MAY-98	180	6020
			PH	9.1	pH	DC	21-MAY-98		150.1
			SE(D)	.082	ppm	KB	29-MAY-98	180	6020
			SO4=	1634.	ppm	LV	02-JUN-98	28	9036
			TDS	3389.	ppm	JH	21-MAY-98	7	160.1
			TSS	41.	ppm	MO	21-MAY-98		160.2
			ZN(D)	.16	ppm	KB	29-MAY-98	180	6020
L981031-12	19-MAY-98	EPRI-9805-172	AS(D)	.081	ppm	KB	29-MAY-98	180	6020
			CA	78.	ppm	JT	21-MAY-98	180	6010
			CD(D)	.021	ppm	KB	29-MAY-98	180	6020
			CL-	176.	ppm	LV	02-JUN-98	28	325.2
			CO3	41.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1351.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	.20	ppm	KB	29-MAY-98	180	6020
			F-	.94	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	95.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	13.	ppm	JT	21-MAY-98	180	6010
			MG	18.	ppm	JT	21-MAY-98	180	6010
			NA	176.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	<.050	ppm	LV	05-JUN-98	28	353.2
			PB(D)	.092	ppm	KB	29-MAY-98	180	6020
			PH	8.9	pH	DC	21-MAY-98		150.1
			SE(D)	.009	ppm	KB	29-MAY-98	180	6020
			SO4=	318.	ppm	LV	02-JUN-98	28	9036
			TDS	846.	ppm	JH	21-MAY-98	7	160.1

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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-12	19-MAY-98	EPRI-9805-172	TSS	6.0	ppm	MO	21-MAY-98		160.2
			ZN(D)	.22	ppm	KB	29-MAY-98	180	6020
L981031-13	19-MAY-98	EPRI-9805-171	AS(D)	.064	ppm	KB	29-MAY-98	180	6020
			CA	526.	ppm	JT	21-MAY-98	180	6010
			CD(D)	22.	ppm	KB	29-MAY-98	180	6020
			CL-	2853.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	50100.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CU(D)	.52	ppm	KB	29-MAY-98	180	6020
			F-	30.	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			HCO3	210.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	715.	ppm	JT	21-MAY-98	180	6010
			MG	274.	ppm	JT	21-MAY-98	180	6010
			NA	16140.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	34.	ppm	LV	05-JUN-98	28	353.2
			PB(D)	.18	ppm	KB	29-MAY-98	180	6020
			PH	7.9	pH	DC	21-MAY-98		150.1
			SE(D)	1.7	ppm	KB	29-MAY-98	180	6020
			SO4=	36326.	ppm	LV	02-JUN-98	28	9036
			TDS	53664.	ppm	JH	21-MAY-98	7	160.1
			TSS	21.	ppm	MO	21-MAY-98		160.2
			ZN(D)	82.	ppm	KB	29-MAY-98	180	6020
L981031-14	19-MAY-98	EPRI-9805-164	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	.006	ppm	KB	02-JUN-98	180	6020M
			CA	72.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	110.	ppm	LV	02-JUN-98	28	325.2
			CO3	14.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1054.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.66	ppm	LV	05-JUN-98	28	340.2

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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-14	19-MAY-98	EPRI-9805-164	FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			FE(TR)	1.8	ppm	JT	28-MAY-98	180	6010
			HCO3	157.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	8.7	ppm	BD	04-JUN-98	180	6010
			MG	17.	ppm	JT	21-MAY-98	180	6010
			NA	120.	ppm	JT	27-MAY-98	180	6010
			NO2/NO3	.23	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PB(TR)	.005	ppm	KB	02-JUN-98	180	6020M
			PH	8.4	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	217.	ppm	LV	02-JUN-98	28	9036
			TDS	640.	ppm	JH	21-MAY-98	7	160.1
			TSS	82.	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
			ZN(TR)	.042	ppm	JT	28-MAY-98	180	6010
L981031-15	19-MAY-98	EPRI-9805-170	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	.005	ppm	KB	02-JUN-98	180	6020M
			CA	71.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	109.	ppm	LV	02-JUN-98	28	325.2
			CO3	16.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1051.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.65	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			FE(TR)	1.6	ppm	JT	28-MAY-98	180	6010
			HCO3	162.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	8.8	ppm	BD	04-JUN-98	180	6010
			MG	17.	ppm	JT	21-MAY-98	180	6010
			NA	129.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.24	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020

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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-15	19-MAY-98	EPRI-9805-170	PB(TR)	.014	ppm	KB	02-JUN-98	180	6020M
			PH	8.5	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	221.	ppm	LV	02-JUN-98	28	9036
			TDS	621.	ppm	JH	21-MAY-98	7	160.1
			TSS	79.	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
			ZN(TR)	.030	ppm	JT	28-MAY-98	180	6010
L981031-16	19-MAY-98	EPRI-9805-169	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	.005	ppm	KB	02-JUN-98	180	6020M
			CA	71.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	105.	ppm	LV	02-JUN-98	28	325.2
			CO3	16.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1064.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.66	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			FE(TR)	2.1	ppm	JT	28-MAY-98	180	6010
			HCO3	152.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	14.	ppm	JT	21-MAY-98	180	6010
			MG	17.	ppm	JT	21-MAY-98	180	6010
			NA	127.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.22	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PB(TR)	.005	ppm	KB	02-JUN-98	180	6020M
			PH	8.4	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	216.	ppm	LV	02-JUN-98	28	9036
			TDS	646.	ppm	JH	21-MAY-98	7	160.1
			TSS	99.	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020

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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
			ZN(TR)	.027	ppm	JT	28-MAY-98	180	6010
L981031-16	19-MAY-98	EPRI-9805-169							
L981031-17	19-MAY-98	EPRI-9805-162	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CA	72.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	108.	ppm	LV	02-JUN-98	28	325.2
			CO3	15.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1068.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.66	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			FE(TR)	2.1	ppm	JT	28-MAY-98	180	6010
			HCO3	157.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	8.4	ppm	JT	21-MAY-98	180	6010
			MG	17.	ppm	JT	21-MAY-98	180	6010
			NA	128.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.22	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PB(TR)	.003	ppm	KB	02-JUN-98	180	6020M
			PH	8.5	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	233.	ppm	LV	02-JUN-98	28	9036
			TDS	667.	ppm	JH	21-MAY-98	7	160.1
			TSS	92.	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
			ZN(TR)	.028	ppm	JT	28-MAY-98	180	6010
L981031-18	19-MAY-98	EPRI-9805-168	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CA	72.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	110.	ppm	LV	02-JUN-98	28	325.2

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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-18	19-MAY-98	EPRI-9805-168	CO3	28.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1071.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.66	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			FE(TR)	2.2	ppm	JT	28-MAY-98	180	6010
			HCO3	146.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	9.4	ppm	JT	21-MAY-98	180	6010
			MG	17.	ppm	JT	21-MAY-98	180	6010
			NA	126.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.21	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PB(TR)	.003	ppm	KB	02-JUN-98	180	6020M
			PH	8.5	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	229.	ppm	LV	02-JUN-98	28	9036
			TDS	660.	ppm	JH	21-MAY-98	7	160.1
			TSS	104.	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
			ZN(TR)	.028	ppm	JT	28-MAY-98	180	6010
L981031-19	19-MAY-98	EPRI-9805-167	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CA	74.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	112.	ppm	LV	02-JUN-98	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1066.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.68	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010

ASARCO TECHNICA .VICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-19	19-MAY-98	EPRI-9805-167	FE(TR)	2.1	ppm	JT	28-MAY-98	180	6010
			HCO3	165.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	8.0	ppm	BD	04-JUN-98	180	6010
			MG	17.	ppm	JT	21-MAY-98	180	6010
			NA	130.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.21	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PB(TR)	.004	ppm	KB	02-JUN-98	180	6020M
			PH	8.3	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	229.	ppm	LV	02-JUN-98	28	9036
			TDS	650.	ppm	JH	21-MAY-98	7	160.1
			TSS	102.	ppm	MO	22-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
			ZN(TR)	.027	ppm	JT	28-MAY-98	180	6010
L981031-20	19-MAY-98	EPRI-9805-181	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CA	72.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	109.	ppm	LV	02-JUN-98	28	325.2
			CO3	12.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1066.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.68	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			FE(TR)	2.1	ppm	JT	28-MAY-98	180	6010
			HCO3	154.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	8.4	ppm	BD	04-JUN-98	180	6010
			MG	17.	ppm	JT	21-MAY-98	180	6010
			NA	126.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	.21	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PB(TR)	.004	ppm	KB	02-JUN-98	180	6020M

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-20	19-MAY-98	EPRI-9805-181	PH	8.4	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	229.	ppm	LV	02-JUN-98	28	9036
			TDS	684.	ppm	JH	21-MAY-98	7	160.1
			TSS	105.	ppm	MO	22-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98	180	6020
			ZN(TR)	.025	ppm	JT	28-MAY-98	180	6010
L981031-21	19-MAY-98	EPRI-9805-166	AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			AS(TR)	.006	ppm	KB	02-JUN-98	180	6020M
			CA	71.	ppm	JT	21-MAY-98	180	6010
			CD(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CD(TR)	<.005	ppm	KB	02-JUN-98	180	6020M
			CL-	150.	ppm	LV	02-JUN-98	28	325.2
			CO3	14.	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	1273.	umhos	BD	27-MAY-98	28	120.1
			CR(D)	<.010	ppm	KB	29-MAY-98	180	6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98	180	6020
			CU(TR)	<.025	ppm	JT	28-MAY-98	180	6010
			F-	.70	ppm	LV	05-JUN-98	28	340.2
			FE(D)	<.10	ppm	JT	21-MAY-98	180	6010
			FE(TR)	1.7	ppm	JT	28-MAY-98	180	6010
			HCO3	160.	ppm CaCO3	DC	21-MAY-98	14	310.1
			K	8.7	ppm	BD	04-JUN-98	180	6010
			MG	16.	ppm	JT	21-MAY-98	180	6010
			NA	173.	ppm	JT	21-MAY-98	180	6010
			NO2/NO3	2.4	ppm	LV	05-JUN-98	28	353.2
			PB(D)	<.003	ppm	KB	29-MAY-98	180	6020
			PB(TR)	.004	ppm	KB	02-JUN-98	180	6020M
			PH	8.5	pH	DC	21-MAY-98		150.1
			SE(D)	<.005	ppm	KB	29-MAY-98	180	6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	262.	ppm	LV	02-JUN-98	28	9036
			TDS	797.	ppm	JH	21-MAY-98	7	160.1
			TSS	80.	ppm	MO	22-MAY-98		160.2
			ZN(D)	.035	ppm	KB	29-MAY-98	180	6020
			ZN(TR)	.037	ppm	JT	28-MAY-98	180	6010

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981031

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

Vince [illegible]
Approved

Ken Bilak
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980706-1		Matrix Spike	AS(D)	101	% RECOVERY	KB	29-MAY-98		6020
			AS(TR)	79	% RECOVERY	KB	02-JUN-98		6020M
			CD(D)	98	% RECOVERY	KB	29-MAY-98		6020
			CD(TR)	94	% RECOVERY	KB	02-JUN-98		6020M
			CL-	101	% RECOVERY	LV	02-JUN-98		325.2
			CR(D)	96	% RECOVERY	KB	29-MAY-98		6020
			CR(TR)	95	% RECOVERY	JT	28-MAY-98		6010
			CU(D)	105	% RECOVERY	KB	29-MAY-98		6020
			CU(TR)	101	% RECOVERY	JT	28-MAY-98		6010
			F-	99	% RECOVERY	LV	05-JUN-98		340.2
			FE(D)	91	% RECOVERY	JT	21-MAY-98		6010
			FE(TR)	125	% RECOVERY	JT	28-MAY-98		6010
			NO2/NO3	105	% RECOVERY	LV	05-JUN-98		353.2
			PB(D)	92	% RECOVERY	KB	29-MAY-98		6020
			PB(TR)	87	% RECOVERY	KB	02-JUN-98		6020M
			SE(D)	102	% RECOVERY	KB	29-MAY-98		6020
			SE(TR)	77	% RECOVERY	KB	02-JUN-98		6020M
			SO4=	98	% RECOVERY	LV	02-JUN-98		9036
			ZN(D)	107	% RECOVERY	KB	29-MAY-98		6020
			ZN(TR)	96	% RECOVERY	JT	28-MAY-98		6010
WG980706-2		Prep Blank	AS(D)	<.005	ppm	KB	29-MAY-98		6020
			AS(TR)	<.005	ppm	KB	03-JUN-98		6020M
			CA	<1.0	ppm	JT	21-MAY-98		6010
			CD(D)	<.005	ppm	KB	29-MAY-98		6020
			CD(TR)	<.005	ppm	KB	02-JUN-98		6020M
			CL-	<1.0	ppm	LV	02-JUN-98		325.2
			CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	<5.0	umhos	BD	27-MAY-98		120.1
			CR(D)	<.010	ppm	KB	29-MAY-98		6020
			CR(TR)	<.010	ppm	JT	28-MAY-98		6010
			CU(D)	<.025	ppm	KB	29-MAY-98		6020
			CU(TR)	<.025	ppm	JT	28-MAY-98		6010
			F-	<.050	ppm	LV	05-JUN-98		340.2
			FE(D)	<.10	ppm	JT	21-MAY-98		6010
			FE(TR)	<.10	ppm	JT	28-MAY-98		6010
			HCO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			K	<5.0	ppm	JT	21-MAY-98		6010
			MG	<1.0	ppm	JT	21-MAY-98		6010

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980706-2		Prep Blank	NA	<5.0	ppm	JT	21-MAY-98		6010
			NO2/NO3	<.050	ppm	LV	05-JUN-98		353.2
			PB(D)	<.003	ppm	KB	29-MAY-98		6020
			PB(TR)	<.003	ppm	KB	02-JUN-98		6020M
			SE(D)	<.005	ppm	KB	29-MAY-98		6020
			SE(TR)	<.005	ppm	KB	02-JUN-98		6020M
			SO4=	<2.0	ppm	LV	02-JUN-98		9036
			TDS	<10.	ppm	JH	21-MAY-98		160.1
			TSS	<1.0	ppm	MO	22-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98		6020
			ZN(TR)	<.020	ppm	JT	28-MAY-98		6010
WG980706-3		Laboratory Control	AS(D)	100	% RECOVERY	KB	29-MAY-98		6020
			AS(TR)	92	% RECOVERY	KB	02-JUN-98		6020M
			CA	101	% RECOVERY	JT	21-MAY-98		6010
			CD(D)	100	% RECOVERY	KB	29-MAY-98		6020
			CD(TR)	103	% RECOVERY	KB	02-JUN-98		6020M
			CL-	100	% RECOVERY	LV	02-JUN-98		325.2
			COND.	101	% RECOVERY	BD	27-MAY-98		120.1
			CR(D)	100	% RECOVERY	KB	29-MAY-98		6020
			CR(TR)	98	% RECOVERY	JT	28-MAY-98		6010
			CU(D)	100	% RECOVERY	KB	29-MAY-98		6020
			CU(TR)	100	% RECOVERY	JT	28-MAY-98		6010
			F-	96	% RECOVERY	LV	05-JUN-98		340.2
			FE(D)	96	% RECOVERY	JT	21-MAY-98		6010
			FE(TR)	103	% RECOVERY	JT	28-MAY-98		6010
			HCO3	99	% RECOVERY	DC	21-MAY-98		310.1
			K	103	% RECOVERY	JT	21-MAY-98		6010
			MG	100	% RECOVERY	JT	21-MAY-98		6010
			NA	117	% RECOVERY	JT	21-MAY-98		6010
			NO2/NO3	106	% RECOVERY	LV	05-JUN-98		353.2
			PB(D)	95	% RECOVERY	KB	29-MAY-98		6020
			PB(TR)	99	% RECOVERY	KB	02-JUN-98		6020M
			SE(D)	103	% RECOVERY	KB	29-MAY-98		6020
			SE(TR)	86	% RECOVERY	KB	02-JUN-98		6020M
			SO4=	90	% RECOVERY	LV	02-JUN-98		9036
			TDS	98	% RECOVERY	JH	21-MAY-98		160.1
			TSS	94	% RECOVERY	MO	22-MAY-98		160.2
			ZN(D)	100	% RECOVERY	KB	29-MAY-98		6020

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980706-3		Laboratory Control	ZN(TR)	96	% RECOVERY	JT	28-MAY-98		6010
WG980706-4		Duplicate	AS(D)	<1	% RPD	KB	29-MAY-98		6020
			AS(TR)	+/-prdl	% RPD	KB	02-JUN-98		6020M
			CA	4.0	% RPD	JT	21-MAY-98		6010
			CD(D)	<1	% RPD	KB	29-MAY-98		6020
			CD(TR)	<1	% RPD	KB	02-JUN-98		6020M
			CL-	1.6	% RPD	LV	02-JUN-98		325.2
			CO3	<1	% RPD	DC	21-MAY-98		310.1
			COND.	<1	% RPD	BD	27-MAY-98		120.1
			CR(D)	<1	% RPD	KB	29-MAY-98		6020
			CR(TR)	<1	% RPD	JT	28-MAY-98		6010
			CU(D)	<1	% RPD	KB	29-MAY-98		6020
			CU(TR)	<1	% RPD	JT	28-MAY-98		6010
			F-	<1	% RPD	LV	05-JUN-98		340.2
			FE(D)	<1	% RPD	JT	21-MAY-98		6010
			FE(TR)	<1	% RPD	JT	28-MAY-98		6010
			HCO3	1.8	% RPD	DC	21-MAY-98		310.1
			K	11	% RPD	JT	21-MAY-98		6010
			MG	<1	% RPD	JT	21-MAY-98		6010
			NA	<1	% RPD	JT	21-MAY-98		6010
			NO2/NO3	<1	% RPD	LV	05-JUN-98		353.2
			PB(D)	<1	% RPD	KB	29-MAY-98		6020
			PB(TR)	+/-prdl	% RPD	KB	02-JUN-98		6020M
			SE(D)	+/-prdl	% RPD	KB	29-MAY-98		6020
			SE(TR)	<1	% RPD	KB	02-JUN-98		6020M
			SO4=	2.1	% RPD	LV	02-JUN-98		9036
			TDS	1.4	% RPD	JH	21-MAY-98		160.1
			TSS	1.2	% RPD	MO	22-MAY-98		160.2
			ZN(D)	<1	% RPD	KB	29-MAY-98		6020
			ZN(TR)	4.7	% RPD	JT	28-MAY-98		6010
WG980706-5		Practical Quantitation Limit	AS(D)	.005	ppm				6020
			AS(TR)	.005	ppm				6020M
			CA	1.0	ppm				6010
			CD(D)	.005	ppm				6020
			CD(TR)	.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980706-5		Practical Quantitation Limit	COND.	5.0	umhos				120.1
			CR(D)	.010	ppm				6020
			CR(TR)	.010	ppm				6010
			CU(D)	.025	ppm				6020
			CU(TR)	.025	ppm				6010
			F-	.050	ppm				340.2
			FE(D)	.10	ppm				6010
			FE(TR)	.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	5.0	ppm				6010
			MG	1.0	ppm				6010
			NA	5.0	ppm				6010
			NO2/NO3	.050	ppm				353.2
			PB(D)	.003	ppm				6020
			PB(TR)	.003	ppm				6020M
			SE(D)	.005	ppm				6020
			SE(TR)	.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN(D)	.020	ppm				6020
			ZN(TR)	.020	ppm				6010
WG980706-6		Matrix Spike	AS(D)	111	% RECOVERY	KB	29-MAY-98		6020
			CD(D)	109	% RECOVERY	KB	29-MAY-98		6020
			CL-	102	% RECOVERY	LV	02-JUN-98		325.2
			CR(D)	101	% RECOVERY	KB	29-MAY-98		6020
			CU(D)	93	% RECOVERY	KB	29-MAY-98		6020
			FE(D)	94	% RECOVERY	JT	21-MAY-98		6010
			NO2/NO3	102	% RECOVERY	LV	05-JUN-98		353.2
			PB(D)	104	% RECOVERY	KB	29-MAY-98		6020
			SE(D)	120	% RECOVERY	KB	29-MAY-98		6020
			SO4=	89	% RECOVERY	LV	02-JUN-98		9036
			ZN(D)	91	% RECOVERY	KB	29-MAY-98		6020
WG980706-7		Prep Blank	AS(D)	<.005	ppm	KB	29-MAY-98		6020
			CA	<1.0	ppm	JT	21-MAY-98		6010
			CD(D)	<.005	ppm	KB	29-MAY-98		6020
			CL-	<1.0	ppm	LV	02-JUN-98		325.2

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980706-7		Prep Blank	CO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			COND.	<5.0	umhos	BD	27-MAY-98		120.1
			CR(D)	<.010	ppm	KB	29-MAY-98		6020
			CU(D)	<.025	ppm	KB	29-MAY-98		6020
			FE(D)	<.10	ppm	JT	21-MAY-98		6010
			HCO3	<1.0	ppm CaCO3	DC	21-MAY-98		310.1
			K	<5.0	ppm	JT	21-MAY-98		6010
			MG	<1.0	ppm	JT	21-MAY-98		6010
			NA	<5.0	ppm	JT	21-MAY-98		6010
			NO2/NO3	<.050	ppm	LV	05-JUN-98		353.2
			PB(D)	<.003	ppm	KB	29-MAY-98		6020
			SE(D)	<.005	ppm	KB	29-MAY-98		6020
			SO4=	<2.0	ppm	LV	02-JUN-98		9036
			TSS	<1.0	ppm	MO	21-MAY-98		160.2
			ZN(D)	<.020	ppm	KB	29-MAY-98		6020
WG980706-8		Laboratory Control	AS(D)	98	% RECOVERY	KB	29-MAY-98		6020
			CA	98	% RECOVERY	JT	21-MAY-98		6010
			CD(D)	100	% RECOVERY	KB	29-MAY-98		6020
			CL-	100	% RECOVERY	LV	02-JUN-98		325.2
			COND.	101	% RECOVERY	BD	27-MAY-98		120.1
			CR(D)	98	% RECOVERY	KB	29-MAY-98		6020
			CU(D)	103	% RECOVERY	KB	29-MAY-98		6020
			FE(D)	92	% RECOVERY	JT	21-MAY-98		6010
			HCO3	101	% RECOVERY	DC	21-MAY-98		310.1
			K	95	% RECOVERY	JT	21-MAY-98		6010
			MG	96	% RECOVERY	JT	21-MAY-98		6010
			NA	110	% RECOVERY	JT	21-MAY-98		6010
			NO2/NO3	101	% RECOVERY	LV	05-JUN-98		353.2
			PB(D)	100	% RECOVERY	KB	29-MAY-98		6020
			SE(D)	103	% RECOVERY	KB	29-MAY-98		6020
			SO4=	93	% RECOVERY	LV	02-JUN-98		9036
			TSS	92	% RECOVERY	MO	21-MAY-98		160.2
			ZN(D)	103	% RECOVERY	KB	29-MAY-98		6020
WG980706-9		Duplicate	AS(D)	<1	% RPD	KB	29-MAY-98		6020
			CA	<1	% RPD	JT	21-MAY-98		6010
			CD(D)	<1	% RPD	KB	29-MAY-98		6020
			CL-	<1	% RPD	LV	02-JUN-98		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980706-9		Duplicate	CO3	<1	% RPD	DC	21-MAY-98		310.1
			COND.	<1	% RPD	BD	27-MAY-98		120.1
			CR(D)	<1	% RPD	KB	29-MAY-98		6020
			CU(D)	<1	% RPD	KB	29-MAY-98		6020
			FE(D)	<1	% RPD	JT	21-MAY-98		6010
			HCO3	<1	% RPD	DC	21-MAY-98		310.1
			K	20	% RPD	JT	21-MAY-98		6010
			MG	<1	% RPD	JT	21-MAY-98		6010
			NA	1.6	% RPD	JT	21-MAY-98		6010
			NO2/NO3	<1	% RPD	LV	05-JUN-98		353.2
			PB(D)	<1	% RPD	KB	29-MAY-98		6020
			SE(D)	<1	% RPD	KB	29-MAY-98		6020
			SO4=	2.9	% RPD	LV	02-JUN-98		9036
			TSS	<1	% RPD	MO	21-MAY-98		160.2
			ZN(D)	+/-prdl	% RPD	KB	29-MAY-98		6020

Approved

Ken Bilak
Reviewer

Hydrotechnics, Inc.
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

CHAIN OF CUSTODY RECORD

PROJ. NO.: 0734
PROJECT NAME: ASARCO - ELPASO, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
5-18-98	820			EPRI-9805-157	3	X	X	X													
5-18-98	900			EPRI-9805-156	3	X	X	X													
	945			EPRI-9805-158	3	X	X	X													
	1020			EPRI-9805-159	3	X	X	X													
	1030			EPRI-9805-180	3	X	X	X													
	1130			EPRI-9805-155	3	X	X	X													
	1330			EPRI-9805-123	3	X	X	X													
	1415			EPRI-9805-126	3	X	X	X													
	1500			EPRI-9805-130	3	X	X	X													
	1530			EPRI-9805-122	3	X	X	X													
5-19-98	1110			EPRI-9805-173	3	X	X	X													
	1125			EPRI-9805-172	3	X	X	X													
	1140			EPRI-9805-171	3	X	X	X													
	1330			EPRI-9805-164	4	X	X	X			X										
	1350			EPRI-9805-170	4	X	X	X			X										

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M. Solon	5-19-98 1600		ASARCO - SALT LAKE City, UT		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 5.20.98 10:00	Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____	

HFORM-1

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

Split Samples: || Accepted || Declined

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 857[illegible] (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.: 0734-
PROJECT NAME: ASARCO - El Paso, TX
SAMPLERS: (Signature) Douglas M. Solon

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH								REMARKS
5-19-98	1415			EPRI-9805-169	4	X	X	X			X										
	1430			EPRI-9805-162	4	X	X	X			X										
	1445			EPRI-9805-168	4	X	X	X			X										
	1500			EPRI-9805-167	4	X	X	X			X										
	1510			EPRI-9805-181	4	X	X	X			X										
	1530			EPRI-9805-166	4	X	X	X			X										

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
Douglas M Solon	5-19-98 1606		ASARCO-SALT LAKE City		Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time		Enclosed: ☒ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☒ Cover letter ☐ Other ____
		[illegible]	5-20-98 10:00		

Split Samples: ☐ Accepted ☐ Declined ____ Signature

HFORM-1-4/95

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

TABLE 4-8A. PARAMETERS, ANALYTICAL METHODS, DETECTION LIMITS, AND HOLDING TIMES FOR WATER SAMPLES

Parameter	Method[1]	PDLG[2] Water (mg/L)	Holding Time
WATER MATRIX			
pH	150.1 (field and lab)	--	analyze immediately
SC	120.1 (field and lab)	--	analyze immediately
temperature	field measurement only	--	analyze immediately
TDS	160.1	10	7 days
TSS	160.2	10	7 days
oxygen (Dis)	field measurement only	--	analyze immediately
bicarbonate	310.x	1	14 days
carbonate	310.x	1	14 days
sulfate	375.x	1	28 days
chloride	325.x	1	28 days
fluoride	340.2	0.1	28 days
nitrite/ nitrate	353.2	0.1	28 days
Ca	200.7/215.1/6020, ICP/FAA/ICP-MS	1	6 months
Mg	200.7/242.1/6020, ICP/FAA ICP-MS	1	6 months
Na	200.7/273.1/6020, ICP/FAA ICP-MS	5	6 months
K	200.7/258.1/6020, ICP/FAA ICP-MS	5	6 months
As	200.7/6020/206.2, ICP/ICP-MS/GFAA	0.005	6 months
Cd	200.7/6020/213.2, ICP/ ICP-MS/GFAA	0.005	6 months
Cu	200.7/6020/220.1, ICP/ ICP-MS/FAA	0.025	6 months
Cr	200.7/6020/218.2, ICP/ ICP-MS/FAA	0.01	6 months
Fe	200.7/6020/236.1, ICP/ ICP-MS/FAA	0.1	6 months
Pb	200.7/6020/239.2. ICP/ ICP-MS/GFAA	0.003	6 months
Se	200.7/6020/270.2/270.3/st meth 303A ICP/ ICP-MS/GFAA/HGAA/FAA	0.005	6 months
Zn	200.7/6020/289.2. ICP/ ICP-MS/GFAA	0.02	6 months

1 Method numbers from "Methods for Chemical Analysis of Water and Wastes" (EPA, 1983) and "Test Methods for Evaluating Solid Wastes" (EPA, 1990).

2 Project Detection Limit Goal.

Note: Groundwater samples analyzed for dissolved constituents only. Surface water analyzed for both total recoverable and dissolved metals.

HYDROMETRICS, INC. - EL PASO

PROJECT MEMO

TO: TSC Laboratory - Salt Lake City
FILE

FROM: Lairy Johnson, Doug Solon

DATE: May 1, 1998

SUBJECT: Analysis of Ground Water - 0734-502.100

The samples included are to be analyzed for the parameters on the attached sheet. The samples will follow Standard SW846 sample analysis protocol.

We would like the sample results to be completed and forwarded to our office in ~~15~~ 10 work days from time of receipt. Please send the original results with chain-of-custody to us in El Paso and a copy of the results with chain-of-custody to Clare Bridge in Helena.

Please call us upon receipt to verify that the cooler(s) has arrived.

If you have any questions, please call us.

Thanks,

Lairy

TELECOPY TRANSMITTAL

TO: Larry Johnson

FROM: Bilquis ASARCO TBC Laboratory Dhami

DATE: June 11, 98

RE: Preliminary Results

Number of pages: 2 **(including this cover page).**

If you do not receive the number of pages indicated above, or if the documents are unreadable, please call Maureen or Jodie at (801) 263-5252.

ADDITIONAL INFORMATION:

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981203

SAMPLE NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981203-1	10-JUN-98	EPRI-9806-200	AS(D)	63.	ppm	JT	15-JUN-98	180	6010
			CA	475.	ppm	JT	15-JUN-98	180	6010
			CD(D)	1.3	ppm	JT	15-JUN-98	180	6010
			CR(D)	<.010	ppm	JT	15-JUN-98	180	6010
			CU(D)	<.025	ppm	JT	15-JUN-98	180	6010
			FE(D)	<.10	ppm	JT	15-JUN-98	180	6010
			K	118.	ppm	JT	15-JUN-98	180	6010
			MG	82.	ppm	JT	15-JUN-98	180	6010
			NA	1365.	ppm	JT	15-JUN-98	180	6010
			PB(D)	<.020	ppm	JT	15-JUN-98	180	6010
			SE(D)	1.2	ppm	JT	15-JUN-98	180	6010
			ZN(D)	4.2	ppm	JT	15-JUN-98	180	6010
L981203-2	10-JUN-98	EPRI-9806-201	AS(D)	<.10	ppm	JT	15-JUN-98	180	6010
			CA	289.	ppm	JT	15-JUN-98	180	6010
			CD(D)	.045	ppm	JT	15-JUN-98	180	6010
			CR(D)	<.010	ppm	JT	15-JUN-98	180	6010
			CU(D)	.032	ppm	JT	15-JUN-98	180	6010
			FE(D)	.11	ppm	JT	15-JUN-98	180	6010
			K	245.	ppm	JT	15-JUN-98	180	6010
			MG	148.	ppm	JT	15-JUN-98	180	6010
			NA	1477.	ppm	JT	15-JUN-98	180	6010
			PB(D)	.046	ppm	JT	15-JUN-98	180	6010
			SE(D)	.48	ppm	JT	15-JUN-98	180	6010
			ZN(D)	5.9	ppm	JT	15-JUN-98	180	6010

Approved

Reviewer

SECTION 5

LABORATORY REPORTS FOR SOIL SAMPLES

ASARCO

December 16, 1996

RI Soil
XRF Results

Mr. Lairy Johnson
HYDROMETRICS INC.
P O Box 220182
El Paso, TX 79913

Please find attached the results for fourteen **El Paso** soil samples collected on October 28, 1996.

The samples were received by the laboratory on November 1, 1996. A copy of the chain of custody is also attached.

As requested there are two reports, one with arsenic, copper and sulfate only, and another with all of the analyses.

The billing will also reflect your request.

If you have any questions regarding these analyses, please feel free to call me at (801) 263-5243.

Sincerely,

Michael J. Fabbi
Laboratory/Environmental
Technician

MJF/jh
Attach.

cc: JABaca (w/attach.)
GRStanga "
JBRichardson

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

Hydrometrics, Inc.
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

This set of samples are from the Acid Spill Investigation below the A.P. #2 - Sample Code Changes will be

AB-1	SS1A4-1
AB-2	SS1A4-2
AB-3	SS1A4-3
AB-4	SS1A4-4
AB-5	SS1A5-5

* ~~Keep w/ Photo copy version of~~ lab ~~Data~~

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L962254

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L962254-1	28-OCT-96	AB-1-3-5	AS	2920.	ppm	MJF	15-NOV-96		6010
			CD	185.	ppm	MJF	15-NOV-96		6010
			CR	15.	ppm	MJF	15-NOV-96		6010
			CU	4220.	ppm	MJF	15-NOV-96		6010
			FE	30630.	ppm	MJF	15-NOV-96		6010
			PB	918.	ppm	MJF	15-NOV-96		6010
			PH	7.2	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	26900.	ppm	LV	12-DEC-96		9036
			ZN	2640.	ppm	MJF	15-NOV-96		6010
L962254-2	28-OCT-96	AB-1-7-9	AS	2140.	ppm	MJF	15-NOV-96		6010
			CD	294.	ppm	MJF	15-NOV-96		6010
			CR	32.	ppm	MJF	15-NOV-96		6010
			CU	3470.	ppm	MJF	15-NOV-96		6010
			FE	39950.	ppm	MJF	15-NOV-96		6010
			PB	2610.	ppm	MJF	15-NOV-96		6010
			PH	7.2	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	11200.	ppm	LV	12-DEC-96		9036
			ZN	5050.	ppm	MJF	15-NOV-96		6010
L962254-3	28-OCT-96	AB-1-11-12	AS	585.	ppm	MJF	15-NOV-96		6010
			CD	98.	ppm	MJF	15-NOV-96		6010
			CR	14.	ppm	MJF	15-NOV-96		6010
			CU	439.	ppm	MJF	15-NOV-96		6010
			FE	18830.	ppm	MJF	15-NOV-96		6010
			PB	388.	ppm	MJF	15-NOV-96		6010
			PH	8.0	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	10400.	ppm	LV	12-DEC-96		9036
			ZN	2420.	ppm	MJF	15-NOV-96		6010
L962254-4	28-OCT-96	AB-2-3-5	AS	1000.	ppm	MJF	15-NOV-96		6010
			CD	470.	ppm	MJF	15-NOV-96		6010
			CR	14.	ppm	MJF	15-NOV-96		6010
			CU	1970.	ppm	MJF	15-NOV-96		6010
			FE	20740.	ppm	MJF	15-NOV-96		6010
			PB	1100.	ppm	MJF	15-NOV-96		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L962254

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L962254-4	28-OCT-96	AB-2-3-5	PH	7.8	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	8900.	ppm	LV	12-DEC-96		9036
			ZN	3170.	ppm	MJF	15-NOV-96		6010
L962254-5	28-OCT-96	AB-2-7-9	AS	640.	ppm	MJF	15-NOV-96		6010
			CD	32.	ppm	MJF	15-NOV-96		6010
			CR	14.	ppm	MJF	15-NOV-96		6010
			CU	1040.	ppm	MJF	15-NOV-96		6010
			FE	15680.	ppm	MJF	15-NOV-96		6010
			PB	221.	ppm	MJF	15-NOV-96		6010
			PH	7.9	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	6150.	ppm	LV	12-DEC-96		9036
			ZN	2450.	ppm	MJF	15-NOV-96		6010
L962254-6	28-OCT-96	AB-2-11-13	AS	430.	ppm	MJF	15-NOV-96		6010
			CD	108.	ppm	MJF	15-NOV-96		6010
			CR	13.	ppm	MJF	15-NOV-96		6010
			CU	506.	ppm	MJF	15-NOV-96		6010
			FE	14800.	ppm	MJF	15-NOV-96		6010
			PB	162.	ppm	MJF	15-NOV-96		6010
			PH	8.0	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	11750.	ppm	LV	12-DEC-96		9036
			ZN	2480.	ppm	MJF	15-NOV-96		6010
L962254-7	28-OCT-96	AB-3-3-5	AS	378.	ppm	MJF	15-NOV-96		6010
			CD	236.	ppm	MJF	15-NOV-96		6010
			CR	23.	ppm	MJF	15-NOV-96		6010
			CU	721.	ppm	MJF	15-NOV-96		6010
			FE	17640.	ppm	MJF	15-NOV-96		6010
			PB	404.	ppm	MJF	15-NOV-96		6010
			PH	8.0	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	5050.	ppm	LV	12-DEC-96		9036
			ZN	1620.	ppm	MJF	15-NOV-96		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L962254

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L962254-8	28-OCT-96	AB-3-7-9	AS	304.	ppm	MJF	15-NOV-96		6010
			CD	63.	ppm	MJF	15-NOV-96		6010
			CR	11.	ppm	MJF	15-NOV-96		6010
			CU	206.	ppm	MJF	15-NOV-96		6010
			FE	14280.	ppm	MJF	15-NOV-96		6010
			PB	139.	ppm	MJF	15-NOV-96		6010
			PH	8.1	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	5250.	ppm	LV	12-DEC-96		9036
			ZN	2360.	ppm	MJF	15-NOV-96		6010
L962254-9	28-OCT-96	AB-3-9-11	AS	524.	ppm	MJF	15-NOV-96		6010
			CD	17.	ppm	MJF	15-NOV-96		6010
			CR	12.	ppm	MJF	15-NOV-96		6010
			CU	22.	ppm	MJF	15-NOV-96		6010
			FE	12790.	ppm	MJF	15-NOV-96		6010
			PB	19.	ppm	MJF	15-NOV-96		6010
			PH	8.1	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	6800.	ppm	LV	12-DEC-96		9036
			ZN	2602.	ppm	MJF	15-NOV-96		6010
L962254-10	29-OCT-96	AB-4-3-5	AS	91.	ppm	MJF	15-NOV-96		6010
			CD	<10.	ppm	MJF	18-NOV-96		6010
			CR	16.	ppm	MJF	15-NOV-96		6010
			CU	252.	ppm	MJF	15-NOV-96		6010
			FE	15010.	ppm	MJF	15-NOV-96		6010
			PB	268.	ppm	MJF	15-NOV-96		6010
			PH	8.3	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	1815.	ppm	LV	12-DEC-96		9036
			ZN	404.	ppm	MJF	15-NOV-96		6010
L962254-11	29-OCT-96	AB-4-7-9	AS	32.	ppm	MJF	15-NOV-96		6010
			CD	<10.	ppm	MJF	18-NOV-96		6010
			CR	14.	ppm	MJF	15-NOV-96		6010
			CU	130.	ppm	MJF	15-NOV-96		6010
			FE	15140.	ppm	MJF	15-NOV-96		6010
			PB	90.	ppm	MJF	15-NOV-96		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L962254

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L962254-11	29-OCT-96	AB-4-7-9	PH	8.3	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	1540.	ppm	LV	12-DEC-96		9036
			ZN	201.	ppm	MJF	15-NOV-96		6010
L962254-12	29-OCT-96	AB-4-9-11	AS	<20.	ppm	MJF	15-NOV-96		6010
			CD	<10.	ppm	MJF	15-NOV-96		6010
			CR	16.	ppm	MJF	15-NOV-96		6010
			CU	84.	ppm	MJF	15-NOV-96		6010
			FE	15440.	ppm	MJF	15-NOV-96		6010
			PB	59.	ppm	MJF	15-NOV-96		6010
			PH	8.5	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	2435.	ppm	LV	12-DEC-96		9036
			ZN	626.	ppm	MJF	15-NOV-96		6010
L962254-13	29-OCT-96	AB-5-4-5	AS	28.	ppm	MJF	15-NOV-96		6010
			CD	<10.	ppm	MJF	15-NOV-96		6010
			CR	26.	ppm	MJF	15-NOV-96		6010
			CU	325.	ppm	MJF	15-NOV-96		6010
			FE	12690.	ppm	MJF	15-NOV-96		6010
			PB	169.	ppm	MJF	15-NOV-96		6010
			PH	8.6	pH	MJF	20-NOV-96		150.1
			SE	<12.	ppm	MJF	15-NOV-96		6010
			SO4=	401.	ppm	LV	12-DEC-96		9036
			ZN	393.	ppm	MJF	15-NOV-96		6010
L962254-14	29-OCT-96	AB-5-7-9	AS	<20.	ppm	MJF	15-NOV-96		6010
			CD	<10.	ppm	MJF	15-NOV-96		6010
			CR	24.	ppm	MJF	15-NOV-96		6010
			CU	179.	ppm	MJF	15-NOV-96		6010
			FE	10490.	ppm	MJF	15-NOV-96		6010
			PB	135.	ppm	MJF	15-NOV-96		6010
			PH	8.6	pH	MJF	20-NOV-96		150.1
			SE	<10.	ppm	MJF	15-NOV-96		6010
			SO4=	417.	ppm	LV	12-DEC-96		9036
			ZN	201.	ppm	MJF	15-NOV-96		6010

ASARCO TECHNI... SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L962254

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

NOTE: SO4= IS BASED ON A WATER SOLUBLE EXTRACT.

Approved

Reviewer

ASARCO

June 20, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray results for your El Paso soil samples received on the 4th of June 1997. Also attached are the Q C results for this set and for the L970701 sample set.

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

RECEIVED
JUL 01 1997
HYDROMETRICS, INC.

Lee Stone

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w\attach)

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

Q C FOR ELPASO SOILS L971239

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	457	24	400	1048	15	7429	<10	28095
	584	15	360	1048	15	7407	27	28633
	576	25	366	1045	15	7368	<10	28422
	541	23	330	1077	15	7403	17	27977
	466	20	351	959	15	7418	<10	27904
	496	15	341	1062	15	7601	23	28460

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	123	136	4.5	209	<10	509
	<20	<10	113	128	4.3	223	<10	496
	<20	<10	123	141	4.4	203	<10	516

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	154	58	6	22	<10	175
	<20	<10	130	72	6	17	<10	164
	<20	<10	102	78	6	18	<10	164

DUPLICATES

	PPM As	PPM CD	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
L971239-2	28	<10	<30	97	1.8	123	<10	105
DUP239-23	43	<10	32	127	1.7	99	<10	93
L971239-4	<20	<10	69	10	1.3	22	<10	19
DUP239-41	<20	<10	29	18	1.3	23	<10	28
L971239-6	41	<10	64	13	3	<10	<10	36
DUP239-62	43	<10	106	21	3	11	<10	52
L971239-7	38	<10	123	41	2.7	<10	<10	46
DUP239-70	27	<10	123	48	2.7	20	<10	59

DETECTION LIMITS

PPM As	PPM Cd	PPM Cr	PPM Cu	PPM Fe	PPM Pb	PPM Se	PPM Zn
20	10	30	20	20	10	10	10

Q C FOR ELPASO SOILS L970701

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	433	23	298	955	15	7503	<10	28413
	487	11	295	1047	15	7496	27	28543
	451	17	417	993	15	7633	11	28783
	540	21	337	1053	15	7590	14	28715
	484	15	318	979	15	7563	20	28335
	483	11	406	959	15	7459	<10	28363

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	27	<10	177	134	4.4	211	<10	526
	<20	<10	166	137	4.5	205	<10	505

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	182	89	6	26	<10	160

DUPLICATES

L970701-20	<20	<10	155	162	1.5	48	<10	44
DUP701-20	<20	<10	102	216	1.5	44	<10	44
L970701-41	390	403	235	9502	2.9	13336	33	5610
DUP701-41	445	402	256	9576	2.8	13117	25	5392
L970701-54	646	89	139	7291	23	7745	<10	10801
DUP701-54	703	85	172	7374	23	7530	<10	10570
L970701-68	<20	<10	49	<20	1	17	<10	11
DUP701-68	<20	<10	48	<20	1	14	<10	<10

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-1	28-MAY-97	EP-67A	AS	1400	PPM	LCS	18-JUN-97		EDXRF
			CD	470	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	25000	PPM	LCS	18-JUN-97		EDXRF
			FE	3.0	%	LCS	18-JUN-97		EDXRF
			PB	9400	PPM	LCS	18-JUN-97		EDXRF
			SE	18	PPM	LCS	18-JUN-97		EDXRF
			ZN	4800	PPM	LCS	18-JUN-97		EDXRF
L971239-2	28-MAY-97	EP-67B	AS	320	PPM	LCS	18-JUN-97		EDXRF
			CD	200	PPM	LCS	18-JUN-97		EDXRF
			CR	77	PPM	LCS	18-JUN-97		EDXRF
			CU	2000	PPM	LCS	18-JUN-97		EDXRF
			FE	2.6	%	LCS	18-JUN-97		EDXRF
			PB	550	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	680	PPM	LCS	18-JUN-97		EDXRF
L971239-3	28-MAY-97	EP-67C	AS	340	PPM	LCS	18-JUN-97		EDXRF
			CD	59	PPM	LCS	18-JUN-97		EDXRF
			CR	46	PPM	LCS	18-JUN-97		EDXRF
			CU	210	PPM	LCS	18-JUN-97		EDXRF
			FE	2.5	%	LCS	18-JUN-97		EDXRF
			PB	25	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	56	PPM	LCS	18-JUN-97		EDXRF
L971239-4	28-MAY-97	EP-67D	AS	240	PPM	LCS	18-JUN-97		EDXRF
			CD	82	PPM	LCS	18-JUN-97		EDXRF
			CR	100	PPM	LCS	18-JUN-97		EDXRF
			CU	250	PPM	LCS	18-JUN-97		EDXRF
			FE	2.2	%	LCS	18-JUN-97		EDXRF
			PB	18	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	82	PPM	LCS	18-JUN-97		EDXRF
L971239-5	28-MAY-97	EP-67E	AS	310	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-5	28-MAY-97	EP-67E	CU	130	PPM	LCS	18-JUN-97		EDXRF
			FE	2.4	%	LCS	18-JUN-97		EDXRF
			PB	27	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	44	PPM	LCS	18-JUN-97		EDXRF
L971239-6	28-MAY-97	EP-67F	AS	350	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	210	PPM	LCS	18-JUN-97		EDXRF
			FE	1.9	%	LCS	18-JUN-97		EDXRF
			PB	<10	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	41	PPM	LCS	18-JUN-97		EDXRF
L971239-7	28-MAY-97	EP-67G	AS	170	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	64	PPM	LCS	18-JUN-97		EDXRF
			CU	110	PPM	LCS	18-JUN-97		EDXRF
			FE	1.8	%	LCS	18-JUN-97		EDXRF
			PB	16	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	29	PPM	LCS	18-JUN-97		EDXRF
L971239-8	28-MAY-97	EP-67H	AS	140	PPM	LCS	18-JUN-97		EDXRF
			CD	13	PPM	LCS	18-JUN-97		EDXRF
			CR	30	PPM	LCS	18-JUN-97		EDXRF
			CU	91	PPM	LCS	18-JUN-97		EDXRF
			FE	1.6	%	LCS	18-JUN-97		EDXRF
			PB	21	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	39	PPM	LCS	18-JUN-97		EDXRF
L971239-9	28-MAY-97	EP-67J	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	23	PPM	LCS	18-JUN-97		EDXRF
			FE	2.5	%	LCS	18-JUN-97		EDXRF
			PB	20	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-9	28-MAY-97	EP-67J	SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	33	PPM	LCS	18-JUN-97		EDXRF
L971239-10	28-MAY-97	EP-67K	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	24	PPM	LCS	18-JUN-97		EDXRF
			FE	2.3	%	LCS	18-JUN-97		EDXRF
			PB	11	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	56	PPM	LCS	18-JUN-97		EDXRF
L971239-11	29-MAY-97	EP-68A	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	580	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	140	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	82	PPM	LCS	18-JUN-97		EDXRF
L971239-12	29-MAY-97	EP-68A2	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	37	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	24	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	42	PPM	LCS	18-JUN-97		EDXRF
L971239-13	29-MAY-97	EP-68B	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	49	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	29	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	35	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-14	29-MAY-97	EP-68C	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	130	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.6	%	LCS	18-JUN-97		EDXRF
			PB	18	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	22	PPM	LCS	18-JUN-97		EDXRF
L971239-15	29-MAY-97	EP-68D	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	65	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.1	%	LCS	18-JUN-97		EDXRF
			PB	33	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	53	PPM	LCS	18-JUN-97		EDXRF
L971239-16	29-MAY-97	EP-68E	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	37	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.3	%	LCS	18-JUN-97		EDXRF
			PB	14	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	37	PPM	LCS	18-JUN-97		EDXRF
L971239-17	29-MAY-97	EP-68F	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	61	PPM	LCS	18-JUN-97		EDXRF
			CU	32	PPM	LCS	18-JUN-97		EDXRF
			FE	2.5	%	LCS	18-JUN-97		EDXRF
			PB	24	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	47	PPM	LCS	18-JUN-97		EDXRF
L971239-18	29-MAY-97	EP-68G	AS	21	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-18	29-MAY-97	EP-68G	CU	22	PPM	LCS	18-JUN-97		EDXRF
			FE	2.4	%	LCS	18-JUN-97		EDXRF
			PB	11	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	36	PPM	LCS	18-JUN-97		EDXRF
L971239-19	29-MAY-97	EP-68H	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	85	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	<10	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	40	PPM	LCS	18-JUN-97		EDXRF
L971239-20	29-MAY-97	EP-68I	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	32	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	3.0	%	LCS	18-JUN-97		EDXRF
			PB	<10	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	49	PPM	LCS	18-JUN-97		EDXRF
L971239-21	29-MAY-97	EP-68J	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	54	PPM	LCS	18-JUN-97		EDXRF
			FE	1.4	%	LCS	18-JUN-97		EDXRF
			PB	34	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	42	PPM	LCS	18-JUN-97		EDXRF
L971239-22	30-MAY-97	EP-69A	AS	650	PPM	LCS	18-JUN-97		EDXRF
			CD	150	PPM	LCS	18-JUN-97		EDXRF
			CR	86	PPM	LCS	18-JUN-97		EDXRF
			CU	9900	PPM	LCS	18-JUN-97		EDXRF
			FE	3.7	%	LCS	18-JUN-97		EDXRF
			PB	6100	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-22	30-MAY-97	EP-69A	SE	16	PPM	LCS	18-JUN-97		EDXRF
			ZN	3800	PPM	LCS	18-JUN-97		EDXRF
L971239-23	30-MAY-97	EP-69B	AS	28	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	96	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	120	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	100	PPM	LCS	18-JUN-97		EDXRF
L971239-24	30-MAY-97	EP-69C	AS	40	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	34	PPM	LCS	18-JUN-97		EDXRF
			FE	2.0	%	LCS	18-JUN-97		EDXRF
			PB	53	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	360	PPM	LCS	18-JUN-97		EDXRF
L971239-25	30-MAY-97	EP-69D	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	68	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.0	%	LCS	18-JUN-97		EDXRF
			PB	11	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	32	PPM	LCS	18-JUN-97		EDXRF
L971239-26	30-MAY-97	EP-69E	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.8	%	LCS	18-JUN-97		EDXRF
			PB	20	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	57	PPM	LCS	18-JUN-97		EDXRF

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L971239-27	30-MAY-97	EP-69F	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	43	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.7	%	LCS	18-JUN-97		EDXRF
			PB	26	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	48	PPM	LCS	18-JUN-97		EDXRF
L971239-28	30-MAY-97	EP-70A	AS	230	PPM	LCS	18-JUN-97		EDXRF
			CD	79	PPM	LCS	18-JUN-97		EDXRF
			CR	45	PPM	LCS	18-JUN-97		EDXRF
			CU	32	PPM	LCS	18-JUN-97		EDXRF
			FE	1.2	%	LCS	18-JUN-97		EDXRF
			PB	28	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	890	PPM	LCS	18-JUN-97		EDXRF
L971239-29	30-MAY-97	EP-70B	AS	130	PPM	LCS	18-JUN-97		EDXRF
			CD	210	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	24	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	20	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	1400	PPM	LCS	18-JUN-97		EDXRF
L971239-30	30-MAY-97	EP-70C	AS	130	PPM	LCS	18-JUN-97		EDXRF
			CD	20	PPM	LCS	18-JUN-97		EDXRF
			CR	64	PPM	LCS	18-JUN-97		EDXRF
			CU	43	PPM	LCS	18-JUN-97		EDXRF
			FE	1.1	%	LCS	18-JUN-97		EDXRF
			PB	24	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	300	PPM	LCS	18-JUN-97		EDXRF
L971239-31	30-MAY-97	EP-70D	AS	320	PPM	LCS	18-JUN-97		EDXRF
			CD	190	PPM	LCS	18-JUN-97		EDXRF
			CR	48	PPM	LCS	18-JUN-97		EDXRF

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L971239-31	30-MAY-97	EP-70D	CU	66	PPM	LCS	18-JUN-97		EDXRF
			FE	2.2	%	LCS	18-JUN-97		EDXRF
			PB	20	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	770	PPM	LCS	18-JUN-97		EDXRF
L971239-32	31-MAY-97	EP-70E	AS	390	PPM	LCS	18-JUN-97		EDXRF
			CD	51	PPM	LCS	18-JUN-97		EDXRF
			CR	130	PPM	LCS	18-JUN-97		EDXRF
			CU	27	PPM	LCS	18-JUN-97		EDXRF
			FE	2.5	%	LCS	18-JUN-97		EDXRF
			PB	18	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	1000	PPM	LCS	18-JUN-97		EDXRF
L971239-33	31-MAY-97	EP-70F	AS	120	PPM	LCS	18-JUN-97		EDXRF
			CD	70	PPM	LCS	18-JUN-97		EDXRF
			CR	87	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.9	%	LCS	18-JUN-97		EDXRF
			PB	18	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	690	PPM	LCS	18-JUN-97		EDXRF
L971239-34	31-MAY-97	EP-71A	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	18	PPM	LCS	18-JUN-97		EDXRF
			CR	36	PPM	LCS	18-JUN-97		EDXRF
			CU	160	PPM	LCS	18-JUN-97		EDXRF
			FE	1.0	%	LCS	18-JUN-97		EDXRF
			PB	40	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	720	PPM	LCS	18-JUN-97		EDXRF
L971239-35	31-MAY-97	EP-71B	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	20	PPM	LCS	18-JUN-97		EDXRF

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L971239-35	31-MAY-97	EP-71B	SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	410	PPM	LCS	18-JUN-97		EDXRF
L971239-36	31-MAY-97	EP-71C	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	120	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.5	%	LCS	18-JUN-97		EDXRF
			PB	49	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	400	PPM	LCS	18-JUN-97		EDXRF
L971239-37	31-MAY-97	EP-71D	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	40	PPM	LCS	18-JUN-97		EDXRF
			CU	29	PPM	LCS	18-JUN-97		EDXRF
			FE	1.4	%	LCS	18-JUN-97		EDXRF
			PB	33	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	570	PPM	LCS	18-JUN-97		EDXRF
L971239-38	31-MAY-97	EP-71E	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	22	PPM	LCS	18-JUN-97		EDXRF
			FE	2.9	%	LCS	18-JUN-97		EDXRF
			PB	59	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	79	PPM	LCS	18-JUN-97		EDXRF
L971239-39	31-MAY-97	EP-72A	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	220	PPM	LCS	18-JUN-97		EDXRF
			CR	70	PPM	LCS	18-JUN-97		EDXRF
			CU	340	PPM	LCS	18-JUN-97		EDXRF
			FE	3.3	%	LCS	18-JUN-97		EDXRF
			PB	530	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	1500	PPM	LCS	18-JUN-97		EDXRF

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L971239-40	31-MAY-97	EP-72B	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	33	PPM	LCS	18-JUN-97		EDXRF
			CU	20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.7	%	LCS	18-JUN-97		EDXRF
			PB	32	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	81	PPM	LCS	18-JUN-97		EDXRF
L971239-41	01-JUN-97	EP-72C	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	67	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.3	%	LCS	18-JUN-97		EDXRF
			PB	22	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	19	PPM	LCS	18-JUN-97		EDXRF
L971239-42	01-JUN-97	EP-72C2	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	72	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	1.1	%	LCS	18-JUN-97		EDXRF
			PB	24	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	<10	PPM	LCS	18-JUN-97		EDXRF
L971239-43	01-JUN-97	EP-72D	AS	67	PPM	LCS	18-JUN-97		EDXRF
			CD	25	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	63	PPM	LCS	18-JUN-97		EDXRF
			FE	1.9	%	LCS	18-JUN-97		EDXRF
			PB	23	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	74	PPM	LCS	18-JUN-97		EDXRF
L971239-44	01-JUN-97	EP-72E	AS	54	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	75	PPM	LCS	18-JUN-97		EDXRF

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L971239-44	01-JUN-97	EP-72E	CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.2	%	LCS	18-JUN-97		EDXRF
			PB	38	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	32	PPM	LCS	18-JUN-97		EDXRF
L971239-45	01-JUN-97	EP-72F	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.3	%	LCS	18-JUN-97		EDXRF
			PB	29	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	49	PPM	LCS	18-JUN-97		EDXRF
L971239-46	01-JUN-97	EP-73A	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	50	PPM	LCS	18-JUN-97		EDXRF
			CU	31	PPM	LCS	18-JUN-97		EDXRF
			FE	2.8	%	LCS	18-JUN-97		EDXRF
			PB	160	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	350	PPM	LCS	18-JUN-97		EDXRF
L971239-47	01-JUN-97	EP-73B	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	110	PPM	LCS	18-JUN-97		EDXRF
			CU	400	PPM	LCS	18-JUN-97		EDXRF
			FE	5.8	%	LCS	18-JUN-97		EDXRF
			PB	2400	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	5200	PPM	LCS	18-JUN-97		EDXRF
L971239-48	01-JUN-97	EP-73C	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	44	PPM	LCS	18-JUN-97		EDXRF
			FE	0.9	%	LCS	18-JUN-97		EDXRF
			PB	230	PPM	LCS	18-JUN-97		EDXRF

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L971239-48	01-JUN-97	EP-73C	SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	490	PPM	LCS	18-JUN-97		EDXRF
L971239-49	01-JUN-97	EP-73D	AS	24	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.1	%	LCS	18-JUN-97		EDXRF
			PB	31	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	33	PPM	LCS	18-JUN-97		EDXRF
L971239-50	01-JUN-97	EP-73E	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	30	PPM	LCS	18-JUN-97		EDXRF
			FE	2.0	%	LCS	18-JUN-97		EDXRF
			PB	140	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	240	PPM	LCS	18-JUN-97		EDXRF
L971239-51	02-JUN-97	EP-74A	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	46	PPM	LCS	18-JUN-97		EDXRF
			CU	110	PPM	LCS	18-JUN-97		EDXRF
			FE	1.3	%	LCS	18-JUN-97		EDXRF
			PB	300	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	140	PPM	LCS	18-JUN-97		EDXRF
L971239-52	02-JUN-97	EP-74B	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	28	PPM	LCS	18-JUN-97		EDXRF
			CR	130	PPM	LCS	18-JUN-97		EDXRF
			CU	260	PPM	LCS	18-JUN-97		EDXRF
			FE	2.2	%	LCS	18-JUN-97		EDXRF
			PB	960	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	450	PPM	LCS	18-JUN-97		EDXRF

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L971239-53	02-JUN-97	EP-74C	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	99	PPM	LCS	18-JUN-97		EDXRF
			CU	55	PPM	LCS	18-JUN-97		EDXRF
			FE	2.3	%	LCS	18-JUN-97		EDXRF
			PB	100	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	110	PPM	LCS	18-JUN-97		EDXRF
L971239-54	02-JUN-97	EP-74D	AS	140	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	96	PPM	LCS	18-JUN-97		EDXRF
			FE	2.3	%	LCS	18-JUN-97		EDXRF
			PB	250	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	150	PPM	LCS	18-JUN-97		EDXRF
L971239-55	02-JUN-97	EP-74E	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	42	PPM	LCS	18-JUN-97		EDXRF
			CU	30	PPM	LCS	18-JUN-97		EDXRF
			FE	2.4	%	LCS	18-JUN-97		EDXRF
			PB	38	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	49	PPM	LCS	18-JUN-97		EDXRF
L971239-56	02-JUN-97	EP-74F	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.4	%	LCS	18-JUN-97		EDXRF
			PB	19	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	57	PPM	LCS	18-JUN-97		EDXRF
L971239-57	02-JUN-97	EP-74G	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	77	PPM	LCS	18-JUN-97		EDXRF

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L971239-57	02-JUN-97	EP-74G	CU	25	PPM	LCS	18-JUN-97		EDXRF
			FE	2.4	%	LCS	18-JUN-97		EDXRF
			PB	24	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	42	PPM	LCS	18-JUN-97		EDXRF
L971239-58	02-JUN-97	EP-74H	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.3	%	LCS	18-JUN-97		EDXRF
			PB	26	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	48	PPM	LCS	18-JUN-97		EDXRF
L971239-59	02-JUN-97	EP-74I	AS	<20	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.3	%	LCS	18-JUN-97		EDXRF
			PB	22	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	41	PPM	LCS	18-JUN-97		EDXRF
L971239-60	02-JUN-97	EP-74J	AS	41	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	<30	PPM	LCS	18-JUN-97		EDXRF
			CU	31	PPM	LCS	18-JUN-97		EDXRF
			FE	3.0	%	LCS	18-JUN-97		EDXRF
			PB	42	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	65	PPM	LCS	18-JUN-97		EDXRF
L971239-61	02-JUN-97	EP-74K	AS	49	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	41	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	2.9	%	LCS	18-JUN-97		EDXRF
			PB	11	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-61	02-JUN-97	EP-74K	SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	66	PPM	LCS	18-JUN-97		EDXRF
L971239-62	02-JUN-97	EP-74L	AS	40	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	63	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	3.1	%	LCS	18-JUN-97		EDXRF
			PB	<10	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	36	PPM	LCS	18-JUN-97		EDXRF
L971239-63	02-JUN-97	EP-74M	AS	46	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	130	PPM	LCS	18-JUN-97		EDXRF
			CU	31	PPM	LCS	18-JUN-97		EDXRF
			FE	3.0	%	LCS	18-JUN-97		EDXRF
			PB	19	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	40	PPM	LCS	18-JUN-97		EDXRF
L971239-64	02-JUN-97	EP-74M2	AS	28	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	120	PPM	LCS	18-JUN-97		EDXRF
			CU	35	PPM	LCS	18-JUN-97		EDXRF
			FE	2.5	%	LCS	18-JUN-97		EDXRF
			PB	23	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	27	PPM	LCS	18-JUN-97		EDXRF
L971239-65	02-JUN-97	EP-74N	AS	24	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	70	PPM	LCS	18-JUN-97		EDXRF
			CU	33	PPM	LCS	18-JUN-97		EDXRF
			FE	3.1	%	LCS	18-JUN-97		EDXRF
			PB	16	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	54	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-66	02-JUN-97	EP-75A	AS	220	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	35	PPM	LCS	18-JUN-97		EDXRF
			CU	280	PPM	LCS	18-JUN-97		EDXRF
			FE	3.2	%	LCS	18-JUN-97		EDXRF
			PB	490	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	5400	PPM	LCS	18-JUN-97		EDXRF
L971239-67	02-JUN-97	EP-75B	AS	120	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	53	PPM	LCS	18-JUN-97		EDXRF
			CU	64	PPM	LCS	18-JUN-97		EDXRF
			FE	2.9	%	LCS	18-JUN-97		EDXRF
			PB	120	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	1100	PPM	LCS	18-JUN-97		EDXRF
L971239-68	02-JUN-97	EP-75C	AS	67	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	83	PPM	LCS	18-JUN-97		EDXRF
			CU	<20	PPM	LCS	18-JUN-97		EDXRF
			FE	3.3	%	LCS	18-JUN-97		EDXRF
			PB	23	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	77	PPM	LCS	18-JUN-97		EDXRF
L971239-69	02-JUN-97	EP-75D	AS	45	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	43	PPM	LCS	18-JUN-97		EDXRF
			CU	60	PPM	LCS	18-JUN-97		EDXRF
			FE	2.2	%	LCS	18-JUN-97		EDXRF
			PB	29	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	280	PPM	LCS	18-JUN-97		EDXRF
L971239-70	28-MAY-97	EP-67I	AS	38	PPM	LCS	18-JUN-97		EDXRF
			CD	<10	PPM	LCS	18-JUN-97		EDXRF
			CR	120	PPM	LCS	18-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971239

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971239-70	28-MAY-97	EP-67I	CU	41	PPM	LCS	18-JUN-97		EDXRF
			FE	2.6	%	LCS	18-JUN-97		EDXRF
			PB	<10	PPM	LCS	18-JUN-97		EDXRF
			SE	<10	PPM	LCS	18-JUN-97		EDXRF
			ZN	58	PPM	LCS	18-JUN-97		EDXRF

Approved

Reviewer

ASARCO

RECEIVED
JUL 08 1997
HYDROMETRICS, INC.

July 1, Monitor Well TCLP for Haz Determination

Mr. Lairy Johnson
HYDROMETRICS INCORPORATED
P O Box 220182
El Paso TX 79913

Please find attached the analytical results for nine samples collected 6/11/97 through 6/20/97 from the **ASARCO EL Paso Plant** and received by the laboratory on June 24, 1997.

The samples were handled and analyzed in accordance with EPA's Toxic Characteristic Leach, (TCLP), Procedure.

Sincerely,

Milan Mraz
Chemist

MM/jh
Attach.

cc: GRStanga (w/attach.)

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971420

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971420-1	11-JUN-97	EP 84 (1530)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	<.10	ppm	JJT	27-JUN-97		6010
				BA	.63	ppm	JJT	27-JUN-97		6010
				CD	<.05	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	.12	ppm	JJT	27-JUN-97		6010
				PH	9.7	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010
L971420-2	11-JUN-97	EP 84 (1545)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	<.10	ppm	JJT	27-JUN-97		6010
				BA	.95	ppm	JJT	27-JUN-97		6010
				CD	.068	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	.42	ppm	JJT	27-JUN-97		6010
				PH	9.3	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010
L971420-3	12-JUN-97	EP 70R (1345)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	<.10	ppm	JJT	27-JUN-97		6010
				BA	.45	ppm	JJT	27-JUN-97		6010
				CD	<.05	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	.29	ppm	JJT	27-JUN-97		6010
				PH	9.6	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010
L971420-4	12-JUN-97	EP 71R (1410)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	<.10	ppm	JJT	27-JUN-97		6010
				BA	.42	ppm	JJT	27-JUN-97		6010
				CD	<.05	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	.19	ppm	JJT	27-JUN-97		6010
				PH	9.7	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010

ASARCO TECHNIC[illegible]ERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971420

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971420-5	12-JUN-97	EP 85 (1800)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	.20	ppm	JJT	27-JUN-97		6010
				BA	2.4	ppm	JJT	27-JUN-97		6010
				CD	<.05	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	3.8	ppm	JJT	27-JUN-97		6010
				PH	9.6	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010
L971420-6	13-JUN-97	EP 86 (1400)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	<.10	ppm	JJT	27-JUN-97		6010
				BA	.59	ppm	JJT	27-JUN-97		6010
				CD	<.05	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	<.10	ppm	JJT	27-JUN-97		6010
				PH	9.8	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010
L971420-7	16-JUN-97	EP 87 (1130)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	<.10	ppm	JJT	27-JUN-97		6010
				BA	.75	ppm	JJT	27-JUN-97		6010
				CD	<.05	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	.13	ppm	JJT	27-JUN-97		6010
				PH	9.4	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010
L971420-8	17-JUN-97	EP 88 (1010)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	<.10	ppm	JJT	27-JUN-97		6010
				BA	.71	ppm	JJT	27-JUN-97		6010
				CD	.10	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	2.4	ppm	JJT	27-JUN-97		6010
				PH	9.7	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971420

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971420-9	20-JUN-97	EP 89 (1145)	(TCLP)	AG	<.05	ppm	JJT	27-JUN-97		6010
				AS	.15	ppm	JJT	27-JUN-97		6010
				BA	.38	ppm	JJT	27-JUN-97		6010
				CD	.076	ppm	JJT	27-JUN-97		6010
				CR	<.10	ppm	JJT	27-JUN-97		6010
				HG	<.5	ppb	LV	30-JUN-97		245.1
				PB	1.1	ppm	JJT	27-JUN-97		6010
				PH	9.5	pH	MM	25-JUN-97		150.1
				SE	<.10	ppm	JJT	27-JUN-97		6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG970951

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG970951-5		Detection Limit	AG	.05	ppm				6010
			AS	.10	ppm				6010
			BA	.10	ppm				6010
			CD	.05	ppm				6010
			CR	.10	ppm				6010
			HG	.5	ppb				245.1
			PB	.10	ppm				6010
			SE	.10	ppm				6010

Approved

Reviewer

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME
0734	ASARCO - RI

SAMPLERS: (Signature) Larry Johnson & [illegible]

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	TCLP (method 1311)							REMARKS
6/11/97	1530	X		EP 84	1									X							
6-11-97	1545	X		EP 84	1									X							
6-12-97	1345	X		EP 7CR	1									X							
6-12-97	1410	X		EP 71 R	1									X							
6-12-97	1800	X		EP 85	1									X							
6-13-97	1400	X		EP 86	1									X							
6-16-97	1130	X		EP 87	1									X							
6-17-97	1010	X		EP 88	1									X							
6-20-97	1145	X		EP 89	1									X							

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
[illegible]	6/20/97 1:00 pm				
Relinquished (Signature)	**Date/Time**	**Received by: (Signature)**	**Remarks**		
Relinquished (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**	**Date/Time**		
		[illegible]	6-20-97 10:30		

Enclosed: ☐ Parameter sheet w/detection limits
☐ QA/QC standard mixing instructions ☐ Cover letter
☐ Other

Split Samples:
[] Accepted [] Declined

HFORM-1 95

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

0154 · 302.700
SOIL SAMPLES

ASARCO

RECEIVED
JUN 16 1997
HYDROMETRICS, INC.

June 10, 1997

Mr. Lairy Johnson
HYDROMETRICS INCORPORATED
P O Box 220182
El Paso TX 79913

Please find attached the analytical results for seven samples collected on 5/30/97 through 6/2/97 from the **ASARCO EL Paso Plant** and received by the laboratory on June 3, 1997.

The samples were handled and analyzed in accordance with EPA's Toxic Characteristic Leach, (TCLP), Procedure.

Sincerely,

Milan Mraz
Chemist

MM/jh
Attach.

cc: GRStanga (w/attach.)
Jenny Vanek " (with diskette)

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971211

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971211-1	02-JUN-97	EP-68	(TCLP)	AG	<.05	ppm	JJT	06-JUN-97		6010
				AS	<.10	ppm	JJT	06-JUN-97		6010
				BA	2.0	ppm	JJT	06-JUN-97		6010
				CD	<.05	ppm	JJT	06-JUN-97		6010
				CR	<.10	ppm	JJT	06-JUN-97		6010
				HG	<.5	ppb	MM	09-JUN-97		245.1
				PB	.84	ppm	JJT	06-JUN-97		6010
				PH	9.2	pH	MM	05-JUN-97		150.1
				SE	<.10	ppm	JJT	06-JUN-97		6010
L971211-2	30-MAY-97	EP-69	(TCLP)	AG	<.05	ppm	JJT	06-JUN-97		6010
				AS	<.10	ppm	JJT	06-JUN-97		6010
				BA	.89	ppm	JJT	06-JUN-97		6010
				CD	<.05	ppm	JJT	06-JUN-97		6010
				CR	<.10	ppm	JJT	06-JUN-97		6010
				HG	<.5	ppb	MM	09-JUN-97		245.1
				PB	.82	ppm	JJT	06-JUN-97		6010
				PH	9.3	pH	MM	05-JUN-97		150.1
				SE	<.10	ppm	JJT	06-JUN-97		6010
L971211-3	31-MAY-97	EP-70	(TCLP)	AG	<.05	ppm	JJT	06-JUN-97		6010
				AS	.13	ppm	JJT	06-JUN-97		6010
				BA	.35	ppm	JJT	06-JUN-97		6010
				CD	1.1	ppm	JJT	06-JUN-97		6010
				CR	<.10	ppm	JJT	06-JUN-97		6010
				HG	<.5	ppb	MM	09-JUN-97		245.1
				PB	.24	ppm	JJT	06-JUN-97		6010
				PH	9.0	pH	MM	05-JUN-97		150.1
				SE	<.10	ppm	JJT	06-JUN-97		6010
L971211-4	31-MAY-97	EP-71	(TCLP)	AG	<.05	ppm	JJT	06-JUN-97		6010
				AS	<.10	ppm	JJT	06-JUN-97		6010
				BA	.26	ppm	JJT	06-JUN-97		6010
				CD	.28	ppm	JJT	06-JUN-97		6010
				CR	<.10	ppm	JJT	06-JUN-97		6010
				HG	<.5	ppb	MM	09-JUN-97		245.1
				PB	.17	ppm	JJT	06-JUN-97		6010
				PH	9.1	pH	MM	05-JUN-97		150.1
				SE	<.10	ppm	JJT	06-JUN-97		6010

ASARCO TECHNIC. .ERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971211

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971211-5	01-JUN-97	EP-72	(TCLP)	AG	<.05	ppm	JJT	06-JUN-97		6010
				AS	<.10	ppm	JJT	06-JUN-97		6010
				BA	.33	ppm	JJT	06-JUN-97		6010
				CD	.11	ppm	JJT	06-JUN-97		6010
				CR	<.10	ppm	JJT	06-JUN-97		6010
				HG	<.5	ppb	MM	09-JUN-97		245.1
				PB	.18	ppm	JJT	06-JUN-97		6010
				PH	9.4	pH	MM	05-JUN-97		150.1
				SE	<.10	ppm	JJT	06-JUN-97		6010
L971211-6	02-JUN-97	EP-73	(TCLP)	AG	<.05	ppm	JJT	06-JUN-97		6010
				AS	.16	ppm	JJT	06-JUN-97		6010
				BA	1.0	ppm	JJT	06-JUN-97		6010
				CD	.092	ppm	JJT	06-JUN-97		6010
				CR	<.10	ppm	JJT	06-JUN-97		6010
				HG	<.5	ppb	MM	09-JUN-97		245.1
				PB	6.1	ppm	JJT	06-JUN-97		6010
				PH	9.1	pH	MM	05-JUN-97		150.1
				SE	<.10	ppm	JJT	06-JUN-97		6010
L971211-7	02-JUN-97	EP-74	(TCLP)	AG	<.05	ppm	JJT	06-JUN-97		6010
				AS	<.10	ppm	JJT	06-JUN-97		6010
				BA	1.5	ppm	JJT	06-JUN-97		6010
				CD	<.05	ppm	JJT	06-JUN-97		6010
				CR	<.10	ppm	JJT	06-JUN-97		6010
				HG	<.5	ppb	MM	09-JUN-97		245.1
				PB	.40	ppm	JJT	06-JUN-97		6010
				PH	9.4	pH	MM	05-JUN-97		150.1
				SE	<.10	ppm	JJT	06-JUN-97		6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG970821

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG970821-5		Detection Limit	AG	.05	ppm				6010
			AS	.10	ppm				6010
			BA	.10	ppm				6010
			CD	.05	ppm				6010
			CR	.10	ppm				6010
			HG	.5	ppb				245.1
			PB	.10	ppm				6010
			SE	.10	ppm				6010

Approved

Reviewer

ASARCO

RECEIVED
JUN 23 1997
HYDROMETRICS, INC.

June 17, 1997

Mr. Lairy Johnson
HYDROMETRICS INCORPORATED
P O Box 220182
El Paso TX 79913

Please find attached the analytical results for six samples collected on 6/3/97 through 6/6/97 from the **ASARCO EL Paso Plant** and received by the laboratory on June 12, 1997.

The samples were handled and analyzed in accordance with EPA's Toxic Characteristic Leach, (TCLP), Procedure.

Sincerely,

Milan Mraz
Chemist

MM/jh
Attach.

cc: GRStanga (w/attach.)

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971317

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971317-1	03-JUN-97	EP-75A	(TCLP)	AG	<.05	ppm	JJT	13-JUN-97		6010
				AS	.50	ppm	JJT	13-JUN-97		6010
				BA	4.1	ppm	JJT	13-JUN-97		6010
				CD	.29	ppm	JJT	13-JUN-97		6010
				CR	<.10	ppm	JJT	13-JUN-97		6010
				HG	<.5	ppb	EBK	16-JUN-97		245.1
				PB	30.	ppm	JJT	13-JUN-97		6010
				PH	9.3	pH	MM	12-JUN-97		150.1
				SE	<.10	ppm	JJT	13-JUN-97		6010
L971317-2	03-JUN-97	EP-75B	(TCLP)	AG	<.05	ppm	JJT	13-JUN-97		6010
				AS	.50	ppm	JJT	13-JUN-97		6010
				BA	4.5	ppm	JJT	13-JUN-97		6010
				CD	.29	ppm	JJT	13-JUN-97		6010
				CR	<.10	ppm	JJT	13-JUN-97		6010
				HG	<.5	ppb	EBK	16-JUN-97		245.1
				PB	29.	ppm	JJT	13-JUN-97		6010
				PH	9.3	pH	MM	12-JUN-97		150.1
				SE	<.10	ppm	JJT	13-JUN-97		6010
L971317-3	03-JUN-97	EP-76	(TCLP)	AG	<.05	ppm	JJT	13-JUN-97		6010
				AS	1.1	ppm	JJT	13-JUN-97		6010
				BA	7.2	ppm	JJT	13-JUN-97		6010
				CD	.11	ppm	JJT	13-JUN-97		6010
				CR	<.10	ppm	JJT	13-JUN-97		6010
				HG	<.5	ppb	EBK	16-JUN-97		245.1
				PB	47.	ppm	JJT	13-JUN-97		6010
				PH	9.8	pH	MM	12-JUN-97		150.1
				SE	<.10	ppm	JJT	13-JUN-97		6010
L971317-4	05-JUN-97	EP-78	(TCLP)	AG	<.05	ppm	JJT	13-JUN-97		6010
				AS	<.10	ppm	JJT	13-JUN-97		6010
				BA	1.2	ppm	JJT	13-JUN-97		6010
				CD	.081	ppm	JJT	13-JUN-97		6010
				CR	<.10	ppm	JJT	13-JUN-97		6010
				HG	<.5	ppb	EBK	16-JUN-97		245.1
				PB	.24	ppm	JJT	13-JUN-97		6010
				PH	9.3	pH	MM	12-JUN-97		150.1
				SE	<.10	ppm	JJT	13-JUN-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971317

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971317-5	05-JUN-97	EP-79	(TCLP)	AG	<.05	ppm	JJT	13-JUN-97		6010
				AS	<.10	ppm	JJT	13-JUN-97		6010
				BA	.82	ppm	JJT	13-JUN-97		6010
				CD	<.05	ppm	JJT	13-JUN-97		6010
				CR	<.10	ppm	JJT	13-JUN-97		6010
				HG	<.5	ppb	EBK	16-JUN-97		245.1
				PB	<.10	ppm	JJT	13-JUN-97		6010
				PH	9.4	pH	MM	12-JUN-97		150.1
				SE	<.10	ppm	JJT	13-JUN-97		6010
L971317-6	06-JUN-97	EP-80	(TCLP)	AG	<.05	ppm	JJT	13-JUN-97		6010
				AS	.15	ppm	JJT	13-JUN-97		6010
				BA	.62	ppm	JJT	13-JUN-97		6010
				CD	.073	ppm	JJT	13-JUN-97		6010
				CR	<.10	ppm	JJT	13-JUN-97		6010
				HG	<.5	ppb	EBK	16-JUN-97		245.1
				PB	.71	ppm	JJT	13-JUN-97		6010
				PH	9.2	pH	MM	12-JUN-97		150.1
				SE	<.10	ppm	JJT	13-JUN-97		6010

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG970872

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG970872-5		Detection Limit	AG	.05	ppm				6010
			AS	.10	ppm				6010
			BA	.10	ppm				6010
			CD	.05	ppm				6010
			CR	.10	ppm				6010
			HG	.5	ppb				245.1
			PB	.10	ppm				6010
			SE	.10	ppm				6010

Approved

Reviewer

Hydrometrics Inc.

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME
0734	ASARCO - R1

SAMPLERS: (Signature) [signature]

DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	TCLP (Method 1311)							REMARKS
6-3-97	0800		X	EP-75	1																
6-3-97	0800		↓	EP-75 B (more grave)	↓									↓							
6-3-97	1400		↓	EP-76	↓									↓							
6-5-97	1300		↓	EP-78	↓									↓							
6-5-97	1200		↓	EP-79	↓									↓							
6-6-97	0900		↓	EP-80	↓									↓							

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other ____ Air Bill # ____
[signature]	6/10/97 2:00pm				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks * 24 hour - Rush * Letter - Mention that EP-75 both bags had same date. One (1) has more grave		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other Talked to Harold.	

Split Samples:
[] Accepted [] Declined ____ Signature

HFORM-1-4/95

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

ASARCO

July 2, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray results for your El Paso soil samples received on the 12th of June 1997. Also attached are the Q C results for this set.

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

Lee Stone

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w\attach)

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

Q C FOR ELPASO SOILS L971325

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	546	23	262	1142	15	7455	11	28254
	495	10	342	1016	15	7331	10	27868
	490	21	227	1118	15	7393	<10	27713
	518	22	402	977	15	7448	25	28418
	474	13	380	1038	15	7583	17	28362

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	156	130	4.4	202	<10	476
	<20	<10	124	119	4.4	180	<10	487

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	136	85	6	16	<10	164

DUPLICATES

L971235-20	82	<10	51	<20	2.6	34	<10	121
DUP235-20	81	<10	<30	21	2.6	36	<10	136
L971235-39	<20	<10	<30	<20	1.8	11	<10	42
DUP235-39	<20	<10	44	<20	1.8	<10	<10	29

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-1	03-JUN-97	EP-75E	AS	91	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	130	PPM	LCS	27-JUN-97		EDXRF
			CU	450	PPM	LCS	27-JUN-97		EDXRF
			FE	3.1	%	LCS	27-JUN-97		EDXRF
			PB	760	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	7300	PPM	LCS	27-JUN-97		EDXRF
L971325-2	03-JUN-97	EP-75F	AS	73	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	40	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.3	%	LCS	27-JUN-97		EDXRF
			PB	17	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	50	PPM	LCS	27-JUN-97		EDXRF
L971325-3	03-JUN-97	EP-75G	AS	36	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	22	PPM	LCS	27-JUN-97		EDXRF
			FE	2.1	%	LCS	27-JUN-97		EDXRF
			PB	12	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	100	PPM	LCS	27-JUN-97		EDXRF
L971325-4	03-JUN-97	EP-76A	AS	1800	PPM	LCS	27-JUN-97		EDXRF
			CD	420	PPM	LCS	27-JUN-97		EDXRF
			CR	200	PPM	LCS	27-JUN-97		EDXRF
			CU	12000	PPM	LCS	27-JUN-97		EDXRF
			FE	12	%	LCS	27-JUN-97		EDXRF
			PB	9500	PPM	LCS	27-JUN-97		EDXRF
			SE	82	PPM	LCS	27-JUN-97		EDXRF
			ZN	12000	PPM	LCS	27-JUN-97		EDXRF
L971325-5	03-JUN-97	EP-76B	AS	420	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	310	PPM	LCS	27-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-5	03-JUN-97	EP-76B	CU	4800	PPM	LCS	27-JUN-97		EDXRF
			FE	15	%	LCS	27-JUN-97		EDXRF
			PB	3400	PPM	LCS	27-JUN-97		EDXRF
			SE	80	PPM	LCS	27-JUN-97		EDXRF
			ZN	11	%	LCS	27-JUN-97		EDXRF
L971325-6	03-JUN-97	EP-76C	AS	78	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	82	PPM	LCS	27-JUN-97		EDXRF
			CU	35	PPM	LCS	27-JUN-97		EDXRF
			FE	2.0	%	LCS	27-JUN-97		EDXRF
			PB	28	PPM	LCS	27-JUN-97		EDXRF
			SE	14	PPM	LCS	27-JUN-97		EDXRF
			ZN	190	PPM	LCS	27-JUN-97		EDXRF
L971325-7	03-JUN-97	EP-76D	AS	29	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	52	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	20	PPM	LCS	27-JUN-97		EDXRF
			SE	13	PPM	LCS	27-JUN-97		EDXRF
			ZN	80	PPM	LCS	27-JUN-97		EDXRF
L971325-8	03-JUN-97	EP-76E	AS	110	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	500	PPM	LCS	27-JUN-97		EDXRF
			FE	2.9	%	LCS	27-JUN-97		EDXRF
			PB	650	PPM	LCS	27-JUN-97		EDXRF
			SE	20	PPM	LCS	27-JUN-97		EDXRF
			ZN	6600	PPM	LCS	27-JUN-97		EDXRF
L971325-9	03-JUN-97	EP-76F	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	140	PPM	LCS	27-JUN-97		EDXRF
			CU	25	PPM	LCS	27-JUN-97		EDXRF
			FE	1.9	%	LCS	27-JUN-97		EDXRF
			PB	37	PPM	LCS	27-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-9	03-JUN-97	EP-76F	SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	260	PPM	LCS	27-JUN-97		EDXRF
L971325-10	04-JUN-97	EP-77A	AS	200	PPM	LCS	27-JUN-97		EDXRF
			CD	11	PPM	LCS	27-JUN-97		EDXRF
			CR	210	PPM	LCS	27-JUN-97		EDXRF
			CU	2500	PPM	LCS	27-JUN-97		EDXRF
			FE	10	%	LCS	27-JUN-97		EDXRF
			PB	2600	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	1100	PPM	LCS	27-JUN-97		EDXRF
L971325-11	04-JUN-97	EP-77B	AS	140	PPM	LCS	27-JUN-97		EDXRF
			CD	43	PPM	LCS	27-JUN-97		EDXRF
			CR	84	PPM	LCS	27-JUN-97		EDXRF
			CU	350	PPM	LCS	27-JUN-97		EDXRF
			FE	3.9	%	LCS	27-JUN-97		EDXRF
			PB	950	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	850	PPM	LCS	27-JUN-97		EDXRF
L971325-12	04-JUN-97	EP-77C	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	94	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.0	%	LCS	27-JUN-97		EDXRF
			PB	90	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	100	PPM	LCS	27-JUN-97		EDXRF
L971325-13	04-JUN-97	EP-77D	AS	33	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	36	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	57	PPM	LCS	27-JUN-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-14	04-JUN-97	EP-77E	AS	28	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	23	PPM	LCS	27-JUN-97		EDXRF
			FE	1.7	%	LCS	27-JUN-97		EDXRF
			PB	37	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	57	PPM	LCS	27-JUN-97		EDXRF
L971325-15	04-JUN-97	EP-77F	AS	73	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	78	PPM	LCS	27-JUN-97		EDXRF
			CU	32	PPM	LCS	27-JUN-97		EDXRF
			FE	2.7	%	LCS	27-JUN-97		EDXRF
			PB	22	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	55	PPM	LCS	27-JUN-97		EDXRF
L971325-16	04-JUN-97	EP-77G	AS	49	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.6	%	LCS	27-JUN-97		EDXRF
			PB	25	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	52	PPM	LCS	27-JUN-97		EDXRF
L971325-17	04-JUN-97	EP-77H	AS	20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.9	%	LCS	27-JUN-97		EDXRF
			PB	20	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	42	PPM	LCS	27-JUN-97		EDXRF
L971325-18	04-JUN-97	EP-78A	AS	990	PPM	LCS	27-JUN-97		EDXRF
			CD	46	PPM	LCS	27-JUN-97		EDXRF
			CR	47	PPM	LCS	27-JUN-97		EDXRF

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El Paso

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Batch No: L971325

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-18	04-JUN-97	EP-78A	CU	700	PPM	LCS	27-JUN-97		EDXRF
			FE	3.2	%	LCS	27-JUN-97		EDXRF
			PB	530	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	2300	PPM	LCS	27-JUN-97		EDXRF
L971325-19	04-JUN-97	EP-78B	AS	87	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	78	PPM	LCS	27-JUN-97		EDXRF
			CU	64	PPM	LCS	27-JUN-97		EDXRF
			FE	1.1	%	LCS	27-JUN-97		EDXRF
			PB	33	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	170	PPM	LCS	27-JUN-97		EDXRF
L971325-20	04-JUN-97	EP-78C	AS	82	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	51	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.6	%	LCS	27-JUN-97		EDXRF
			PB	34	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	120	PPM	LCS	27-JUN-97		EDXRF
L971325-21	04-JUN-97	EP-78D	AS	50	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	86	PPM	LCS	27-JUN-97		EDXRF
			CU	62	PPM	LCS	27-JUN-97		EDXRF
			FE	1.5	%	LCS	27-JUN-97		EDXRF
			PB	46	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	240	PPM	LCS	27-JUN-97		EDXRF
L971325-22	05-JUN-97	EP-79A	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	45	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	2.4	%	LCS	27-JUN-97		EDXRF
			PB	17	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-22	05-JUN-97	EP-79A	SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	67	PPM	LCS	27-JUN-97		EDXRF
L971325-23	05-JUN-97	EP-79B	AS	32	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	60	PPM	LCS	27-JUN-97		EDXRF
			CU	86	PPM	LCS	27-JUN-97		EDXRF
			FE	2.8	%	LCS	27-JUN-97		EDXRF
			PB	30	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	180	PPM	LCS	27-JUN-97		EDXRF
L971325-24	05-JUN-97	EP-79C	AS	28	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	57	PPM	LCS	27-JUN-97		EDXRF
			CU	120	PPM	LCS	27-JUN-97		EDXRF
			FE	3.4	%	LCS	27-JUN-97		EDXRF
			PB	110	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	440	PPM	LCS	27-JUN-97		EDXRF
L971325-25	05-JUN-97	EP-79D	AS	210	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	95	PPM	LCS	27-JUN-97		EDXRF
			CU	300	PPM	LCS	27-JUN-97		EDXRF
			FE	4.7	%	LCS	27-JUN-97		EDXRF
			PB	240	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	1400	PPM	LCS	27-JUN-97		EDXRF
L971325-26	05-JUN-97	EP-79E	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	59	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.6	%	LCS	27-JUN-97		EDXRF
			PB	<10	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	34	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-27	05-JUN-97	EP-79F	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	83	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	0.9	%	LCS	27-JUN-97		EDXRF
			PB	12	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	20	PPM	LCS	27-JUN-97		EDXRF
L971325-28	05-JUN-97	EP-79G	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	0.5	%	LCS	27-JUN-97		EDXRF
			PB	10	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	20	PPM	LCS	27-JUN-97		EDXRF
L971325-29	06-JUN-97	EP-80A	AS	26	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	41	PPM	LCS	27-JUN-97		EDXRF
			CU	160	PPM	LCS	27-JUN-97		EDXRF
			FE	1.4	%	LCS	27-JUN-97		EDXRF
			PB	95	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	200	PPM	LCS	27-JUN-97		EDXRF
L971325-30	06-JUN-97	EP-80B	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	34	PPM	LCS	27-JUN-97		EDXRF
			FE	1.6	%	LCS	27-JUN-97		EDXRF
			PB	46	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	79	PPM	LCS	27-JUN-97		EDXRF
L971325-31	06-JUN-97	EP-80C	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-31	06-JUN-97	EP-80C	CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	32	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	29	PPM	LCS	27-JUN-97		EDXRF
L971325-32	06-JUN-97	EP-80D	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	49	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	10	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	31	PPM	LCS	27-JUN-97		EDXRF
L971325-33	06-JUN-97	EP-80E	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	79	PPM	LCS	27-JUN-97		EDXRF
			CU	34	PPM	LCS	27-JUN-97		EDXRF
			FE	1.3	%	LCS	27-JUN-97		EDXRF
			PB	23	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	36	PPM	LCS	27-JUN-97		EDXRF
L971325-34	06-JUN-97	EP-80F	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.4	%	LCS	27-JUN-97		EDXRF
			PB	15	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	30	PPM	LCS	27-JUN-97		EDXRF
L971325-35	06-JUN-97	EP-81A	AS	150	PPM	LCS	27-JUN-97		EDXRF
			CD	15	PPM	LCS	27-JUN-97		EDXRF
			CR	80	PPM	LCS	27-JUN-97		EDXRF
			CU	1100	PPM	LCS	27-JUN-97		EDXRF
			FE	4.0	%	LCS	27-JUN-97		EDXRF
			PB	790	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971325-35	06-JUN-97	EP-81A	SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	2600	PPM	LCS	27-JUN-97		EDXRF
L971325-36	06-JUN-97	EP-81B	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	38	PPM	LCS	27-JUN-97		EDXRF
			CU	190	PPM	LCS	27-JUN-97		EDXRF
			FE	2.2	%	LCS	27-JUN-97		EDXRF
			PB	140	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	360	PPM	LCS	27-JUN-97		EDXRF
L971325-37	06-JUN-97	EP-81C	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	14	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	46	PPM	LCS	27-JUN-97		EDXRF
L971325-38	06-JUN-97	EP-81D	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.7	%	LCS	27-JUN-97		EDXRF
			PB	12	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	34	PPM	LCS	27-JUN-97		EDXRF
L971325-39	06-JUN-97	EP-81E	AS	<20	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	<30	PPM	LCS	27-JUN-97		EDXRF
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	11	PPM	LCS	27-JUN-97		EDXRF
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	29	PPM	LCS	27-JUN-97		EDXRF

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

Approved

Reviewer

ASARCO

July 2, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray results for your El Paso soil samples received on the 13th of June 1997. Also attached are the Q C results for this set.

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

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w\attach)

ASARCO Incorporated 3422 South 700 West, Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

Q C FOR ELPASO SOILS L971344

CCV 30651-58

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
GIVEN		12	420		18	8062		27400
FOUND	473	23	417	917	15	7523	16	28578
	441	13	365	925	15	7451	27	28268
	415	22	356	850	15	7345	29	28196
	456	13	319	939	15	7380	<10	28270
	401	9	388	1019	15	7535	16	28424

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	105	84	6	32	<10	156
	<20	<10	117	70	6	11	<10	152
	<20	<10	56	63	6	22	<10	162
	<20	<10	124	59	6	20	<10	168

DUPLICATES

L971344-20	<20	<10	104	<20	0.8	<10	<10	14
DUP344-20	<20	<10	<30	<20	0.7	<10	<10	21
L971344-37	14	<10	<30	16	1.7	<10	<10	33
DUP344-37	<10	<10	62	16	1.6	<10	<10	49
L971344-47	<20	<10	39	25	1.9	20	<10	38
DUP344-47	<20	<10	<30	<20	1.9	25	<10	31

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-1	11-JUN-97	EP-71RA	AS	1300	PPM	LCS	01-JUL-97		EDXRF
			CD	120	PPM	LCS	01-JUL-97		EDXRF
			CR	91	PPM	LCS	01-JUL-97		EDXRF
			CU	31000	PPM	LCS	01-JUL-97		EDXRF
			FE	4.5	%	LCS	01-JUL-97		EDXRF
			PB	7200	PPM	LCS	01-JUL-97		EDXRF
			SE	33	PPM	LCS	01-JUL-97		EDXRF
			ZN	3900	PPM	LCS	01-JUL-97		EDXRF
L971344-2	11-JUN-97	EP-71RB	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	51	PPM	LCS	01-JUL-97		EDXRF
			CU	340	PPM	LCS	01-JUL-97		EDXRF
			FE	1.4	%	LCS	01-JUL-97		EDXRF
			PB	90	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	56	PPM	LCS	01-JUL-97		EDXRF
L971344-3	11-JUN-97	EP-71RC	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	38	PPM	LCS	01-JUL-97		EDXRF
			CU	170	PPM	LCS	01-JUL-97		EDXRF
			FE	1.1	%	LCS	01-JUL-97		EDXRF
			PB	54	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	12	PPM	LCS	01-JUL-97		EDXRF
L971344-4	11-JUN-97	EP-83A	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	55	PPM	LCS	01-JUL-97		EDXRF
			CU	70	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	100	PPM	LCS	01-JUL-97		EDXRF
L971344-5	11-JUN-97	EP-83B	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF

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L971344-5	11-JUN-97	EP-83B	CU	54	PPM	LCS	01-JUL-97		EDXRF
			FE	2.8	%	LCS	01-JUL-97		EDXRF
			PB	18	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF
L971344-6	11-JUN-97	EP-83C	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	99	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	21	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	75	PPM	LCS	01-JUL-97		EDXRF
L971344-7	11-JUN-97	EP-83D	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF
			CU	23	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	33	PPM	LCS	01-JUL-97		EDXRF
L971344-8	11-JUN-97	EP-83E	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	90	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	18	PPM	LCS	01-JUL-97		EDXRF
L971344-9	11-JUN-97	EP-83F	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.6	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF

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L971344-9	11-JUN-97	EP-83F	SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	21	PPM	LCS	01-JUL-97		EDXRF
L971344-10	11-JUN-97	EP-83F2	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	48	PPM	LCS	01-JUL-97		EDXRF
			CU	21	PPM	LCS	01-JUL-97		EDXRF
			FE	0.6	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	49	PPM	LCS	01-JUL-97		EDXRF
L971344-11	11-JUN-97	EP-83G	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	32	PPM	LCS	01-JUL-97		EDXRF
L971344-12	11-JUN-97	EP-83H	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	2.7	%	LCS	01-JUL-97		EDXRF
			PB	27	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF
L971344-13	11-JUN-97	EP-84A	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	14	PPM	LCS	01-JUL-97		EDXRF
			CR	47	PPM	LCS	01-JUL-97		EDXRF
			CU	490	PPM	LCS	01-JUL-97		EDXRF
			FE	2.2	%	LCS	01-JUL-97		EDXRF
			PB	500	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	390	PPM	LCS	01-JUL-97		EDXRF

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L971344-14	11-JUN-97	EP-84B	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	16	PPM	LCS	01-JUL-97		EDXRF
			CR	65	PPM	LCS	01-JUL-97		EDXRF
			CU	490	PPM	LCS	01-JUL-97		EDXRF
			FE	2.3	%	LCS	01-JUL-97		EDXRF
			PB	500	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	380	PPM	LCS	01-JUL-97		EDXRF
L971344-15	11-JUN-97	EP-84C	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	29	PPM	LCS	01-JUL-97		EDXRF
			CU	47	PPM	LCS	01-JUL-97		EDXRF
			FE	2.4	%	LCS	01-JUL-97		EDXRF
			PB	61	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	98	PPM	LCS	01-JUL-97		EDXRF
L971344-16	11-JUN-97	EP-84D	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	48	PPM	LCS	01-JUL-97		EDXRF
			CU	33	PPM	LCS	01-JUL-97		EDXRF
			FE	2.2	%	LCS	01-JUL-97		EDXRF
			PB	33	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF
L971344-17	10-JUN-97	EP-82A	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF
			CU	200	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	60	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	150	PPM	LCS	01-JUL-97		EDXRF
L971344-18	10-JUN-97	EP-82B	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	70	PPM	LCS	01-JUL-97		EDXRF

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L971344-18	10-JUN-97	EP-82B	CU	34	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	23	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	57	PPM	LCS	01-JUL-97		EDXRF
L971344-19	10-JUN-97	EP-82C	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	38	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	22	PPM	LCS	01-JUL-97		EDXRF
L971344-20	10-JUN-97	EP-82D	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	100	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	14	PPM	LCS	01-JUL-97		EDXRF
L971344-21	10-JUN-97	EP-82E	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.1	%	LCS	01-JUL-97		EDXRF
			PB	14	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-22	10-JUN-97	EP-82F	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	<30	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	15	PPM	LCS	01-JUL-97		EDXRF