

IHW/31235/RP

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

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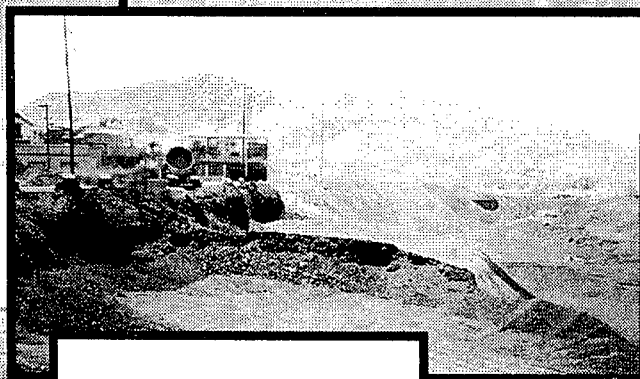
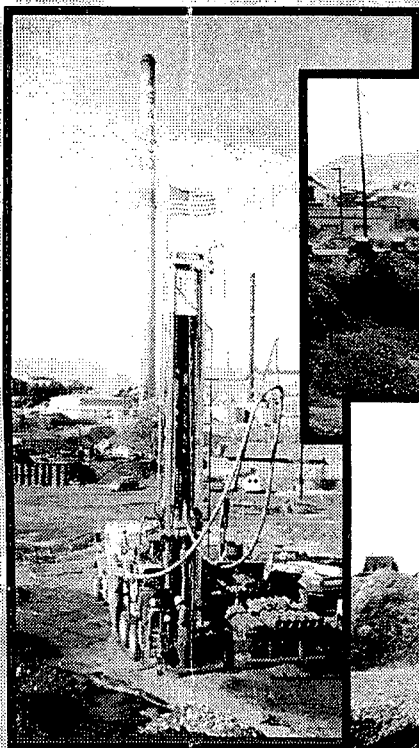
ASARCO

2301 West Paisano Drive
El Paso, Texas 79922

Prepared By:



Hydrometrics, Inc.
consulting scientists, engineers and contractors



WST IHW/ REPORTS

1st: 31235 2nd: Vol: 001 10/1/1998

BBC: 100398544



IBC: 100398548



**VOLUME
III**

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October 1998

APPENDIX I
LABORATORY REPORTS

APPENDIX I
LABORATORY REPORTS

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SECTION 1

**LABORATORY REPORTS FOR WATER SAMPLES,
AUGUST 1997**

ASARCO

August 27, 1997

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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
Bilquis Dhedhy
Chemist

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



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	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
			AS(D)	49.	ppm	KPB	18-AUG-97	180	310.1
			CA(D)	434.	ppm	JJT	13-AUG-97	180	6020
			CD(D)	.82	ppm	KPB	18-AUG-97	180	6010
			CL-	673.	ppm	LV	26-AUG-97	28	6020
			CO3	<1.0	ppm	CaCO3	BD	12-AUG-97	325.2
			COND.	12500	umhos	BD	12-AUG-97		310.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	120.1
			F-	1.5	ppm	BD	13-AUG-97	28	6020
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	340.2
			HCO3	352.	ppm	CaCO3	BD	12-AUG-97	14
			K(D)	110.	ppm	JJT	13-AUG-97		310.1
			MG(D)	73.	ppm	JJT	13-AUG-97		6010
			NA(D)	3087.	ppm	BD	15-AUG-97	180	6010
			NO2/NO3	104.	ppm	LV	26-AUG-97	28	6010
			PB(D)	.008	ppm	KPB	18-AUG-97	180	353.2
			PH	7.7	pH	BD	12-AUG-97		6020
			SE(D)	7.0	ppm	KPB	18-AUG-97	180	150.1
			SO4=	5745.	ppm	LV	25-AUG-97	28	6020
			TDS	11243.	ppm	EBK	13-AUG-97	7	9036
			TSS	52.	ppm	EBK	13-AUG-97		160.1
			ZN(D)	.052	ppm	KPB	18-AUG-97	180	160.2
L971905-9	07-AUG-97	EPRI-9708-107	ALK.	266.	ppm	CaCO3	BD	12-AUG-97	14
			AS(D)	.076	ppm	KPB	18-AUG-97	180	310.1
			CA(D)	125.	ppm	JJT	13-AUG-97	180	6020
			CD(D)	<.005	ppm	KPB	18-AUG-97	180	6010
			CL-	315.	ppm	LV	26-AUG-97	28	6020
			CO3	<1.0	ppm	CaCO3	BD	12-AUG-97	325.2
			COND.	3150	umhos	BD	12-AUG-97		310.1
			CR(D)	<.010	ppm	KPB	18-AUG-97	180	120.1
			CU(D)	<.025	ppm	KPB	18-AUG-97	180	6020
			F-	.93	ppm	BD	13-AUG-97	28	6020
			FE(D)	<.10	ppm	JJT	13-AUG-97	180	340.2

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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	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

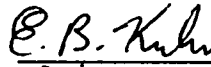
El Paso

Water and Solid Waste (Project 3220)

Batch No: L971905

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


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)	99=4xSA	% RECOVERY	BD	15-AUG-97	6010	
			NO2/NO3	34	% 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.		PROJECT NAME			NO. OF CONTAINERS														REMARKS	
0734		ASARCO - EL PASO																		
SAMPLERS: (Signature)																				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Commons	Metals - filtered	Nutrients				
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	1040			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-9708-127																
8-9-97	1230			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
<i>[Signature]</i>	8-11-97 1700				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
<i>[Signature]</i>			Send Copy of Results to Lairy Johnson in EL PASO		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits	
<i>[Signature]</i>		<i>[Signature]</i>	8-25-97 10:00	<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter	
			<input type="checkbox"/> Other _____		
			Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		
			Signature _____		

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
Bilquis Dhedhy
Chemist

BD/mo
Attach.

cc: GRStanga (w/attach.)
Claire Bridge



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

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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	EPR1-9708-103	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	EPR1-9708-115	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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971905-7	07-AUG-97	EPR1-9708-108	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	EPR1-9708-105	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	EPR1-9708-107	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	BD	18-AUG-97	180	6020
			CA(D)	360.	ppm	JJT	BD	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	BD	18-AUG-97	180	6020
			CL-	1345.	ppm	LV	BD	26-AUG-97	28	325.2
			CO3	<1.0	ppm	CaCO3	BD	12-AUG-97		310.1
			COND.	9140	umhos	BD	BD	12-AUG-97	28	120.1
			CR(D)	.011	ppm	KPB	BD	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	BD	18-AUG-97	180	6020
			F-	1.7	ppm	BD	BD	13-AUG-97	28	340.2
			FE(D)	.38	ppm	JJT	BD	13-AUG-97	180	6010
			HCO3	240.	ppm	CaCO3	BD	12-AUG-97	14	310.1
			K(D)	14.	ppm	JJT	BD	13-AUG-97		6010
			MG(D)	152.	ppm	JJT	BD	13-AUG-97	180	6010
			NA(D)	857.	ppm	BD	BD	15-AUG-97	180	6010
			NO2/NO3	90.	ppm	LV	BD	26-AUG-97	28	353.2
			PB(D)	<.003	ppm	KPB	BD	18-AUG-97	180	6020
			PH	7.5	pH	BD	BD	12-AUG-97		150.1
			SE(D)	.24	ppm	KPB	BD	18-AUG-97	180	6020
			SO4=	3055.	ppm	LV	BD	25-AUG-97	28	9036
			TDS	8015.	ppm	EBK	BD	13-AUG-97	7	160.1
			TSS	8.9	ppm	EBK	BD	13-AUG-97		160.2
			ZN(D)	.026	ppm	KPB	BD	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	BD	18-AUG-97	180	6020
			CA(D)	191.	ppm	JJT	BD	13-AUG-97	180	6010
			CD(D)	<.005	ppm	KPB	BD	18-AUG-97	180	6020
			CL-	419.	ppm	LV	BD	26-AUG-97	28	325.2
			CO3	<1.0	ppm	CaCO3	BD	12-AUG-97		310.1
			COND.	4780	umhos	BD	BD	12-AUG-97	28	120.1
			CR(D)	<.010	ppm	KPB	BD	18-AUG-97	180	6020
			CU(D)	<.025	ppm	KPB	BD	18-AUG-97	180	6020

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L971905-12	09-AUG-97	EPR1-9708-124	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	EPR1-9708-129	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

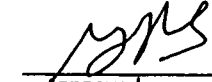
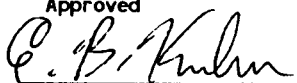
ANALYTICAL DATA REPORT

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 occurred 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,

Bilqis Dhedhy
Bilqis Dhedhy
Chemist

RECEIVED

SEP 09 1997

HYDROMETRICS, INC.

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



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	340.2
			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	
L971944-12	12-AUG-97	EPRI-9708-154	ZN(D)	.027	ppm	KPB	28-AUG-97	180	6020
			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	28	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	180	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	14	310.1
			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	7	160.2
L971944-13	12-AUG-97	EPRI-9708-153	ZN(D)	.020	ppm	KPB	28-AUG-97	180	6020
			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	28	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	
			ALK.	308.	ppm	BD	18-AUG-97 14	310.1	
			AS(D)	5.6	ppm	KPB	28-AUG-97 180	6020	
L971944-14	12-AUG-97	EPRI-9708-142	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	
			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	
L971944-15	12-AUG-97	EPRI-9708-141							

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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
							18-AUG-97	14	310.1
			ALK.	248.	ppm	BD	18-AUG-97	14	310.1
L971944-19	12-AUG-97	EPRI-9708-136	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
			PH(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	EPR1-9708-144	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	EPR1-9708-145	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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LAB NO	DATE		DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD	
	COLLECTED							ANALYZED	DAYS	METHOD	
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	

Vince Ellis
Approved
Deon Collier
Reviewer

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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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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	

ASARCO TECHNICAL SERVICES CENTER

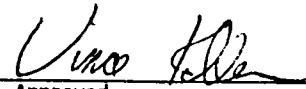
ANALYTICAL DATA REPORT

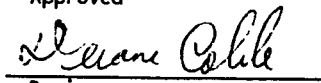
El Paso

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	


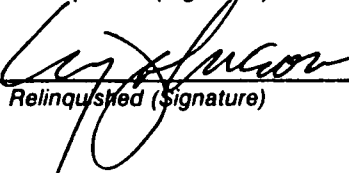
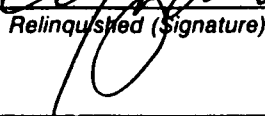
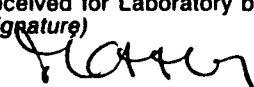

Approved


Reviewer

CHAIN OF CUSTODY RECORD

Hyarometrics, Inc.

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

PROJ. NO. 0782 502.100		PROJECT NAME ASARCO - El Paso - R1		NO. OF CON- TAINERS													REMARKS			
SAMPLERS: (Signature) 					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH								
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																
8-11-97	0845			EPRI-9708-114	3	X	X	X												
8-11-97	0930			EPRI-9708-121																
8-11-97	1015			EPRI-9708-111																
8-11-97	1200			EPRI-9708-172																
8-11-97	1400			EPRI-9708-118																
8-11-97	1445			EPRI-9708-119																
8-11-97	1545			EPRI-9708-158																
8-11-97	1730			EPRI-9708-156																
8-11-97	1800			EPRI-9708-159																
8-11-97	1830			EPRI-9708-160																
8-11-97	1840			EPRI-9708-173																
Relinquished (Signature) 				Date/Time 8/13/97 1600	Received by: (Signature)		Lab			P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____								
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: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____											
								Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature												

CHAIN OF CUSTODY RECORD

HYDROMETRICS, INC.

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

PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS															REMARKS	
0734.302		ASARCO - El Paso - RI																			
SAMPLERS: (Signature)																					
DATE	TIME	COMF.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH								
8-12-97	14:30			EPRI-9708-131	3	X	X	X													
8-12-97	16:00			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									
Relinquished (Signature)					Date/Time	Received by: (Signature)		Remarks													
Relinquished (Signature)					Date/Time	Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other											

HFORM-1-1/95

Return results & electronic copy to:
Computer Dept. at address at top of pageSplit Samples:
☐ Accepted ☐ Declined

Signature

Hyarometrics Inc.

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS															REMARKS
0734 502.100		ASARCO-El Paso - R1																		
SAMPLERS: (Signature)																				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH							
8-13-97	945			EPA1-9708-139	3	X	X	X												
8-13-97	1545			EPA1-9708-143																
8-13-97	1515			EPA1-9708-144																
8-13-97	1100			EPA1-9708-145																
8-13-97	1130			EPA1-9708-146																
8-13-97	1645			EPA1-9708-147																
8-13-97	1830			EPA1-9708-148																
8-13-97	1800			EPA1-9708-149																
8-13-97	1230			EPA1-9708-150																
8-13-97	1415			EPA1-9708-151																
8-13-97	740			EPA1-9708-155																

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	8-14-97 1400				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits	
			8-15-97 9:30	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
				<input type="checkbox"/> Other _____	
Split Samples:				Signature	
<input type="checkbox"/> Accepted <input type="checkbox"/> Declined					

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 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	KPB	27-AUG-97	28	340.2
			FE(D)	<.10	ppm	BD	21-AUG-97	180	6010
			FE(TR)	5.6	ppm	BD	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	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	BD	21-AUG-97	180	6010
			PB(D)	<.003	ppm	LV	04-SEP-97	28	353.2
			PB(Tr)	.006	ppm	KPB	28-AUG-97	180	6020
			PH	8.2	ppm	KPB	05-SEP-97	180	6020M
			SE(D)	<.005	pH	BD	26-AUG-97		150.1
			SE(Tr)	<.005	ppm	KPB	28-AUG-97	180	6020
			SO4=	141.	ppm	KPB	05-SEP-97		6020M
			TDS	554.	ppm	LV	09-SEP-97	28	9036
			TSS	305.	ppm	EBK	20-AUG-97	7	160.1
			ZN(D)	<.020	ppm	EBK	20-AUG-97		160.2
			ZN(Tr)	.026	ppm	KPB	28-AUG-97	180	6020
					ppm	KPB	05-SEP-97	180	6020M
			ALK.	176.	ppm	CaCO3	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	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	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

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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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	DATE	METHOD
L971969-7	15-AUG-97	EPRI-9708-164	TDS	585.					
			TSS	180.	ppm	EBK	20-AUG-97	7	160.1
			ZN(D)	<.020	ppm	EBK	20-AUG-97		160.2
			ZN(TR)	.033	ppm	KPB	28-AUG-97	180	6020
					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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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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L971969-11	15-AUG-97	EPRI-9708-163	HC03	180.	ppm	CaCO3	BD	26-AUG-97 14	310.1
			K(D)	8.4	ppm	BD	BD	21-AUG-97	6010
			MG(D)	15.	ppm	BD	BD	21-AUG-97 180	6010
			NA(D)	114.	ppm	BD	BD	21-AUG-97 180	6010
			NO2/NO3	.50	ppm	LV	LV	04-SEP-97 28	353.2
			PB(D)	<.003	ppm	KPB	KPB	28-AUG-97 180	6020
			PB(TR)	.008	ppm	KPB	KPB	05-SEP-97 180	6020M
			PH	8.3	pH	BD	BD	26-AUG-97	150.1
			SE(D)	<.005	ppm	KPB	KPB	28-AUG-97 180	6020
			SE(TR)	<.005	ppm	KPB	KPB	05-SEP-97	6020M
			SO4=	156.	ppm	LV	LV	09-SEP-97 28	9036
			TDS	635.	ppm	EBK	EBK	20-AUG-97 7	160.1
			TSS	275.	ppm	EBK	EBK	20-AUG-97	160.2
			ZN(D)	<.020	ppm	KPB	KPB	28-AUG-97 180	6020
			ZN(TR)	.044	ppm	KPB	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	KPB	17-SEP-97 180	6020
			AS(TR)	.006	ppm	KPB	KPB	05-SEP-97 180	6020M
			CA(D)	64.	ppm	BD	BD	21-AUG-97 180	6010
			CD(D)	<.005	ppm	KPB	KPB	28-AUG-97 180	6020
			CD(TR)	<.005	ppm	KPB	KPB	05-SEP-97 180	6020M
			CL-	116.	ppm	LV	LV	08-SEP-97 28	325.2
			CO3	<1.0	ppm	CaCO3	BD	26-AUG-97	310.1
			COND.	1133	umhos	BD	BD	02-SEP-97 28	120.1
			CR(D)	<.010	ppm	KPB	KPB	02-SEP-97 180	6020
			CR(TR)	<.010	ppm	KPB	KPB	05-SEP-97	6020M
			CU(D)	<.025	ppm	KPB	KPB	28-AUG-97 180	6020
			CU(TR)	<.025	ppm	KPB	KPB	05-SEP-97 180	6020M
			F-	.68	ppm	BD	BD	27-AUG-97 28	340.2
			FE(D)	<.10	ppm	BD	BD	21-AUG-97 180	6010
			FE(TR)	3.2	ppm	JJT	JJT	09-SEP-97 180	6010
			HC03	174.	ppm	CaCO3	BD	26-AUG-97 14	310.1
			K(D)	9.5	ppm	BD	BD	21-AUG-97	6010
			MG(D)	15.	ppm	BD	BD	21-AUG-97 180	6010
			NA(D)	155.	ppm	BD	BD	21-AUG-97 180	6010
			NO2/NO3	2.3	ppm	LV	LV	04-SEP-97 28	353.2
			PB(D)	<.003	ppm	KPB	KPB	28-AUG-97 180	6020
			PB(TR)	.004	ppm	KPB	KPB	05-SEP-97 180	6020M

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L971969-12	15-AUG-97	EPRI-9708-171	PH	8.3					
			SE(D)	<.005		BD	26-AUG-97		150.1
			SE(TR)	<.005		KPB	28-AUG-97	180	6020
			SO4=	203.		KPB	05-SEP-97		6020M
			TDS	730.		LV	09-SEP-97	28	9036
			TSS	223.		EBK	20-AUG-97	7	160.1
			ZN(D)	.023		EBK	20-AUG-97		160.2
			ZN(TR)	.034		KPB	28-AUG-97	180	6020
						KPB	05-SEP-97	180	6020M
L971969-13	15-AUG-97	EPRI-9708-120	ALK.	460.					
			AS(D)	62.		ppm CaCO3	BD	26-AUG-97	14
			CA(D)	569.		BD	BD	21-AUG-97	180
			CD(D)	.13		BD	BD	09-SEP-97	180
			CL-	945.		KPB	BD	28-AUG-97	180
			CO3	<1.0		LV	BD	08-SEP-97	28
			COND.	10550		ppm CaCO3	BD	26-AUG-97	28
			CR(D)	<.010		unhos	BD	02-SEP-97	28
			CU(D)	<.025		ppm	KPB	02-SEP-97	180
			F-	17.		ppm	KPB	28-AUG-97	180
			FE(D)	229.		BD	BD	27-AUG-97	28
			HCO3	460.		BD	BD	09-SEP-97	180
			K(D)	227.		ppm CaCO3	BD	26-AUG-97	14
			MG(D)	373.		BD	BD	09-SEP-97	
			NA(D)	1602.		BD	BD	09-SEP-97	180
			NO2/NO3	<.050		BD	BD	09-SEP-97	180
			PB(D)	.020		ppm	LV	04-SEP-97	28
			PH	7.0		ppm	KPB	28-AUG-97	180
			SE(D)	.28		BD	BD	26-AUG-97	
			SO4=	4747.		ppm	KPB	28-AUG-97	180
L971969-14	16-AUG-97	EPRI-9708-122	TDS	9746.		ppm	LV	09-SEP-97	28
			TSS	947.		EBK	BD	20-AUG-97	7
			ZN(D)	200.		EBK	BD	20-AUG-97	
						BD	BD	20-AUG-97	160.2
								09-SEP-97	180
									6010
			ALK.	1032.		ppm CaCO3	BD	26-AUG-97	14
			AS(D)	1.1		ppm	KPB	28-AUG-97	180
			CA(D)	129.		BD	BD	21-AUG-97	180
			CD(D)	<.005		KPB	BD	28-AUG-97	180
			CL-	284.		LV	BD	08-SEP-97	28
			CO3	<1.0		ppm CaCO3	BD	26-AUG-97	
									325.2
									310.1

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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	

ASARCO TECHNICAL SERVICES CENTER

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Water and Solid Waste (Project 3220)

Batch No: L971969

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 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
L971969-17	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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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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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
			PH(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	

ASARCO TECHNICAL SERVICES CENTER

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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
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Approved

Reviewer

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
WG971306-1		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	

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
WG971306-2		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

CHAIN OF CUSTODY RECORD

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

[illegible]

HFORM-1-4/95

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

Split Samples:
☐ Accepted ☐ Declined

Signature _____

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

[illegible]

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
Bilquis Dhedhy
Chemist

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

RECEIVED
SEP 17 1997
HYDROMETRICS, INC.



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 TECHNICAL SERVICES CENTER


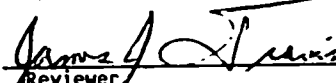
ANALYTICAL DATA REPORT

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
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 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


 reviewer

CHAIN OF STUDY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS															REMARKS		
SAMPLERS: (Signature)					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH									
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER																
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	1250			EPRI-9708-180																	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks															
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____													

HFCRM-1-4/95

Return results & electronic copy to:
Computer Dept. at address: _____

Split Samples:
☐ Accepted ☐ Declined

Signature _____



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,
Bilguis Dhedny
Bilguis Dhedny
Chemist

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

RECEIVED

OCT 10 1997

HYDROMETRICS, INC.



ASARCO TECHNICAL 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

Revised

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

BEST POSSIBLE IMAGE

CHAIN OF CUSTODY RECORD[illegible]

HFORM-1-4/95

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

Split Samples:
☐ Accepted ☐ Declined

Signature _____

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

Element	Method	Detection Limit (ppm)	Holding Time (months)
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	None for XRF 6 months for digestate
Cd	XRF 6010/6020/SW 7130/SW 7131 ICP/ICP-MS/GFAA/GFAA	10	
Cr	XRF 6010/6020/SW 7190/SW 7191 ICP/ICP-MS/GFAA/GFAA	20	
Cu	XRF 6010/6020/SW 7210 ICP/ICP-MS/GFAA	10	
Fe	XRF ICP/ICP-MS/GFAA	20	
Pb	XRF ICP/ICP-MS/GFAA/GFAA 6010/6020/SW 7380	10	
Se	XRF ICP/ICP-MS/GFAA/HGAA 6010/6020/SW 7420/SW 7421	10	
Zn	XRF ICP/ICP-MS/GFAA 6010/6020/SW 7950	10	

- 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.
- Project Detection Limit Goal.

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

Note to Lab:

Please analyzing all samples w/ the suffix A-B notation. Archive samples C-D. If you have any questions please call Larry @ 532-3489

Thanks
Larry

SECTION 2

**LABORATORY REPORTS FOR WATER SAMPLES,
NOVEMBER 1997**

ASARCO

RECEIVED

DEC 08 1997

December 02, 1997

HYDROMETRICS, INC.

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
Bilquis Dhedhy
Chemist

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



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 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
L972673-2	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
L972673-6	04-NOV-97	EPRI-9711-100	TSS	14.	ppm	BK	10-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	20-NOV-97	180	6020
			AS(D)	.14	ppm	KPB	20-NOV-97	180	6020
			CA	56.	ppm	JJT	11-NOV-97	180	6010

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
L972673-6	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

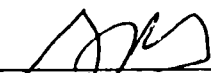
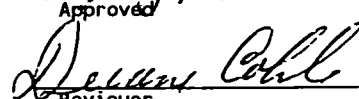
ANALYTICAL DATA REPORT

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 ZN(D)	61. .028	ppm ppm	BK KPB	10-NOV-97 20-NOV-97	160.2 180	6020


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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

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85705 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS														REMARKS		
SAMPLERS: (Signature)					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH								
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER															
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									
Relinquished (Signature)					Date/Time	Received by: (Signature)		Remarks												
Relinquished (Signature)					Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other											

ASARCO

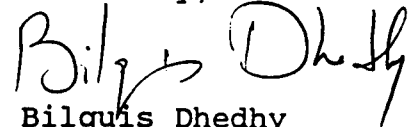
December 08, 1997

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 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

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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

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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

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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

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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

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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

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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	

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
L972701-12	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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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
L972701-14	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
L972701-16	07-NOV-97	EPRI-9711-135	TSS	10.	ppm	BK	11-NOV-97		160.2
			ZN(D)	.027	ppm	KPB	24-NOV-97	180	6020
			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

ASARCO TECHNICAL SERVICES CENTER

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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
L972701-16	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

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
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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

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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Water and Solid Waste (Project 3220)

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	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

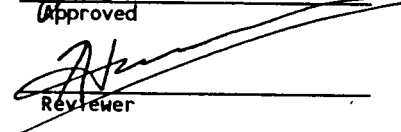
El Paso

Water and Solid Waste (Project 3220)

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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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

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

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

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

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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	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.

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

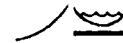
PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS															REMARKS	
0734		ASARCO - EL PASO, TX																		
SAMPLERS: (Signature)																				
Douglas M. Gilon																				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH								
11-12-97	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. Gilon				11-12-97 1600		ABC - 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: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____												
						NOV 12-13-97 9:30														
HF0RM-1-				Return results & electronic copy to: Computer Dept. at address at top of page						Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined										

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS														REMARKS									
0734		ASARCO - EL PASO, TX																									
SAMPLERS: (Signature)				DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																			
Douglas M. Solon																											
										Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH										
	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															
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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 SAIT 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: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____															
						K446				11-9-97 9:45																	

Split Samples:
☐ Accepted ☐ Declined _____ Signature

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.		PROJECT NAME			NO. OF CON- TAINERS	ANALYSIS PARAMETERS													REMARKS		
0734		ASARCO - EL PASO, TX				Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH								
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																	
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) <i>Douglas M. Solon</i>	Date/Time 11-7-97 1400	Received by: (Signature)	Lab TSC LAB SAIT Lake City	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) <i>C. H. C.</i>	Date/Time 11-9-97 9:45	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other	
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined				Signature	

ASARCO

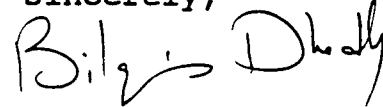
December 11, 1997

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
Chemist

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



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 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
L972756-2	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	JJT	19-NOV-97	180	6010
			PB(D)	<.003	ppm	LV	08-DEC-97	28	353.2
			PH	7.4	pH	KPB	24-NOV-97	180	6020
			SE(D)	.018	ppm	DC	18-NOV-97		150.1
			SO4=	777.	ppm	KPB	24-NOV-97	180	6020
			TDS	1956.	ppm	LV	03-DEC-97	28	9036
			TSS	2.9	ppm	BK	20-NOV-97	7	160.1
			ZN(D)	<.020	ppm	BK	20-NOV-97		160.2
					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


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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

BEST POSSIBLE IMAGE

CHAIN OF [REDACTED] BODY RECORD

[illegible]

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.

RECEIVED

DEC 18 1997

HYDROMETRICS, INC.

Sincerely,

Bilquis Dhedhy
Bilquis Dhedhy
Chemist

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



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		HOLD DAYS	METHOD
							ANALYZED			
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	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	KPB	12-DEC-97	180	6020
			CA	249.	ppm	JT	JT	24-NOV-97	180	6010
			CD(D)	.069	ppm	KPB	KPB	05-DEC-97	180	6020
			CL-	806.	ppm	LV	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm	CaCO3	DC	05-DEC-97		310.1
			COND.	6700	umhos	BD	BD	24-NOV-97	28	120.1
			CR(D)	<.005	ppm	KPB	KPB	05-DEC-97	180	6020
			CU(D)	<.025	ppm	KPB	KPB	05-DEC-97	180	6020
			F-	6.4	ppm	LV	LV	05-DEC-97	28	340.2
			FE(D)	1.8	ppm	JT	JT	24-NOV-97	180	6010
			HCO3	174.	ppm	CaCO3	DC	05-DEC-97	14	310.1
			HG(D)	<.20	ppb	BD	BD	20-NOV-97		245.1
			K	83.	ppm	JT	JT	24-NOV-97	180	6010
			MG	60.	ppm	JT	JT	24-NOV-97	180	6010
			MN(D)	.73	ppm	JT	JT	24-NOV-97	180	6010
			NA	1445.	ppm	JT	JT	24-NOV-97	180	6010
			NO2/NO3	<.050	ppm	LV	LV	08-DEC-97	28	353.2
			PB(D)	.006	ppm	KPB	KPB	05-DEC-97	180	6020
			PH	7.7	pH	DC	DC	05-DEC-97		150.1
			SE(D)	.009	ppm	KPB	KPB	05-DEC-97	180	6020
			SO4=	2224.	ppm	LV	LV	12-DEC-97	28	9036
			TDS	5176.	ppm	BK	BK	20-NOV-97	7	160.1
			TSS	7.4	ppm	BK	BK	20-NOV-97		160.2
			ZN(D)	.31	ppm	KPB	KPB	05-DEC-97	180	6020
L972777-2	17-NOV-97	EPRI-9711-160	AG(D)	<.0003	ppm	KPB	KPB	12-DEC-97	180	6020
			ALK.	318.	ppm	CaCO3	DC	05-DEC-97	14	310.1
			AS(D)	.026	ppm	KPB	KPB	05-DEC-97	180	6020
			BA(D)	<.10	ppm	KPB	KPB	12-DEC-97	180	6020
			CA	124.	ppm	JT	JT	24-NOV-97	180	6010
			CD(D)	<.005	ppm	KPB	KPB	05-DEC-97	180	6020
			CL-	451.	ppm	LV	LV	12-DEC-97	28	325.2
			CO3	<1.0	ppm	CaCO3	DC	05-DEC-97		310.1
			COND.	4500	umhos	BD	BD	24-NOV-97	28	120.1
			CR(D)	<.005	ppm	KPB	KPB	05-DEC-97	180	6020
			CU(D)	.045	ppm	KPB	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 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
L972777-3	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		DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD	METHOD
	COLLECTED							ANALYZED	DAYS		
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	

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

01011-000
H₂O Samples
Fall 1997
Soil Analytical Room
Lab

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

Bilquis
Bilquis Dhedhy
Chemist

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



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	EPR1-9711-145	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	EPR1-9711-150	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 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
L972784-2	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	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	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	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
L972784-6	18-NOV-97	EPRI-9711-143	TSS	89.	ppm	BK	20-NOV-97		160.2
			ZN(D)	<.020	ppm	KPB	05-DEC-97	180	6020
			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

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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

ASARCO TECHNICAL SERVICES CENTER

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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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Batch No: L972784

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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

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
L972784-12	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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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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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

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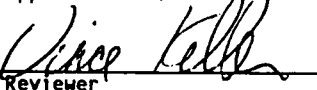
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Batch No: L972784

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.


Approved


Reviewer

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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	

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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				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				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

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH									REMARKS	
DATE	TIME	COMP.	GRAB																			SAMPLE NUMBER
0734-		ASARCO - EL PASO, TX																				
SAMPLERS: (Signature)																						
Douglas M. Solor																						
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												
<div>Relinquished (Signature)</div> <div>Douglas M. Solor</div> <div>Date/Time</div> <div>11/19/97</div> <div>1605</div> <div>Received by: (Signature)</div> <div>Lab</div> <div>ISL - SALT LAKE CITY</div> <div>P.O. #</div> <div>Shipped via: Bus, Fed Ex, UPS</div> <div>Other</div> <div>Air Bill #</div>																						
<div>Relinquished (Signature)</div> <div>Date/Time</div> <div>Received by: (Signature)</div> <div>Remarks</div>																						
<div>Relinquished (Signature)</div> <div>Date/Time</div> <div>Received for Laboratory by: (Signature)</div> <div>Date/Time</div> <div>Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits</div> <div><input type="checkbox"/> QA/QC standard mixing instructions</div> <div><input type="checkbox"/> Cover letter</div> <div><input type="checkbox"/> Other</div>																						
<div>Split Samples:</div> <div><input type="checkbox"/> Accepted <input type="checkbox"/> Declined</div>																						

BEST POSSIBLE IMAGE

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,

B. Iq. Dhedhy
Bilquis Dhedhy
Chemist

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

RECEIVED

JAN 19 1998

HYDROMETRICS, INC.



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

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

[illegible]

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. Salen.

Only what is
on the sheet.
no Glaciers,
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 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
WG980026-3		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	HOLD	METHOD
							ANALYZED	DAYS	
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 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
L973027-1	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

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

HFÖRM-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 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
WG980027-3		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

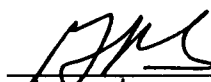
ANALYTICAL DATA REPORT

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

PROJECT MEMO

0100107241014211101071EI Dih-dwork15021001lab ltr

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	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	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 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
L980276-1	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	28	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

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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

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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

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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

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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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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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980276-12	04-FEB-98	EPR1-9802-111	TSS	45.	ppm	MO	09-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	20-FEB-98	180	6020
L980276-13	04-FEB-98	EPR1-9802-178	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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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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El Paso

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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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El Paso

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Batch No: WG980226

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

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

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	HOLD	METHOD
							ANALYZED	DAYS	
L980310-1	05-FEB-98	EPR1-9802-124	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	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	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	ppm	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	EPR1-9802-129	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	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	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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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

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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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980310-6	05-FEB-98	EPR1-9802-131	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	EPR1-9802-145	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

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
L980310-9	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

ASARCO TECHNICAL SERVICES CENTER

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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
L980310-11	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

ASARCO TECHNICAL SERVICES CENTER

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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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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
L980310-14	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

ASARCO TECHNICAL SERVICES CENTER

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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
L980310-16	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

Chico *1/23*
Approved
Chico *1/23*
Reviewer

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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Water and Solid Waste (Project 3220)

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	

ASARCO TECHNICAL SERVICES CENTER

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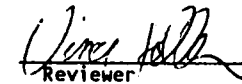
Water and Solid Waste (Project 3220)

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



Approved



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	28	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	28	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	28	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	28	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

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
L980342-2	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

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
L980342-4	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
L980342-6	11-FEB-98	EPRI-9802-136	TSS	5.8	ppm	MO	21-FEB-98		160.2
			ZN(D)	<.020	ppm	KPB	26-FEB-98	180	6020
			AS(D)	.14	ppm	KPB	26-FEB-98	180	6020
			CA	379.	ppm	JJT	20-FEB-98	180	6010

ASARCO TECHNICAL SERVICES CENTER

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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	
L980342-6	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	

ASARCO TECHNICAL SERVICES CENTER

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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
L980342-7	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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Batch No: L980342

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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Batch No: L980342

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

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
L980342-12	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

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
L980342-14	12-FEB-98	EPR1-9802-120	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	EPR1-9802-119	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

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
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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

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	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980268

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	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980268

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

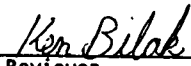
El Paso

Water and Solid Waste (Project)

Batch No: WG980268

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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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 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
L980371-3	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	DC	20-FEB-98		310.1
			COND.	1440.	unihos	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	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	HOLD	METHOD
							ANALYZED	DAYS	
L980371-4	13-FEB-98	EPR1-9802-162	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	EPR1-9802-168	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 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
L980371-6	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 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
L980371-8	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 TECHNICAL SERVICES CENTER


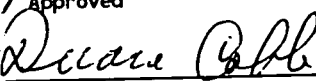
ANALYTICAL DATA REPORT

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
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 Approved

 Reviewer

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	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	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

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
WG980274-2		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

ASARCO TECHNICAL SERVICES CENTER

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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	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

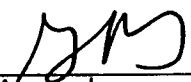
El Paso


Water and Solid Waste (Project 3220)

Batch No: WG980274

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980274-5		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.


Approved


Reviewer

ASARCO TECHNICAL SERVICES CENTER

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

ASARCO TECHNICAL SERVICES CENTER

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
L980395-2	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

ASARCO TECHNICAL SERVICES CENTER

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	
L980395-4	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
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
			CA	117.	ppm	JJT	24-FEB-98	180	6010	

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Batch No: L980395

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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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Water and Solid Waste (Project 3220)

Batch No: L980395

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

ASARCO TECHNICAL SERVICES CENTER

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
L980395-21	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

ASARCO TECHNICAL SERVICES CENTER


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


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Reviewer

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
WG980294-1		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	

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	HOLD
							ANALYZED	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

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
WG980294-5		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

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
WG980294-7		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	HOLD	METHOD
							ANALYZED	DAYS	
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

Hydrometronics, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85705 • (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.		PROJECT NAME			NO. OF CON- TAINERS																	REMARKS
SAMPLERS: (Signature) <i>Douglas M. Solon</i>																						
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH									
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) <i>Douglas M. Solon</i>		Date/Time 2-4-98 1600		Received by: (Signature)		Lab <i>ASARCO - SALT LAKES CITY, UT</i>				P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____										
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks																
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____														

HFORM-1-4/95

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

Split Samples:

☐ Accepted ☐ Declined

Signature

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85741 • (520) 544-3150 • FAX (520) 544-3190
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PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS																		
SAMPLERS: (Signature)						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH										
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																	REMARKS		
2-5-98	945			EPR1-9802-124	3	X	X	X															
	1020			EPR1-9802-129	3	X	X	X															
	1100			EPR1-9802-127	3	X	X	X															
	1130			EPR1-9802-128	3	X	X	X															
	1245			EPR1-9802-125	3	X	X	X															
	1410			EPR1-9802-131	3	X	X	X															
	1515			EPR1-9802-145	3	X	X	X															
	1540			EPR1-9802-146	3	X	X	X															
	1615			EPR1-9802-150	3	X	X	X															
2/6/98	900			EPR1-9802-149	3	X	X	X															
	920			EPR1-9802-152	3	X	X	X															
	950			EPR1-9802-148	3	X	X	X															
	1020			EPR1-9802-141	3	X	X	X															
	1105			EPR1-9802-140	3	X	X	X															
	1250			EPR1-9802-151	3	X	X	X															
Relinquished (Signature) <i>Douglas M. Solon</i>		Date/Time 2/9/98 1600		Received by: (Signature)		Lab ASARCO-SALT LAKE CITY, UT		P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____													
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks																	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____															

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[illegible]

HYDROMETRICS, INC.

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH								REMARKS
DATE	TIME	COMP.	GRAB																	
0734- ASARCO - EL PASO, TX																				
SAMPLERS: (Signature) Douglas M. Soto																				
2-11-98	1015			EPR1-9802-147	3	X	X	X												
	1100			EPR1-9802-132	3	X	X	X												
	1105			EPR1-9802-179	3	X	X	X												
	1130			EPR1-9802-133	3	X	X	X												
	1350			EPR1-9802-154	3	X	X	X												
	1415			EPR1-9802-136	3	X	X	X												
	1445			EPR1-9802-135	3	X	X	X												
	1515			EPR1-9802-137	3	X	X	X												
2-12-98	845			EPR1-9802-142	3	X	X	X												
	930			EPR1-9802-153	3	X	X	X												
	1000			EPR1-9802-138	3	X	X	X												
	1100			EPR1-9802-176	3	X	X	X												
	1130			EPR1-9802-118	3	X	X	X												
	1415			EPR1-9802-120	3	X	X	X												
	1430			EPR1-9802-119	3	X	X	X												
Relinquished (Signature) Douglas M. Soto		Date/Time 2-12-98 1600		Received by: (Signature)		Lab ASARCO - SAIT LAKE CITY, UT		P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____										
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks														
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____												
Split Samples:		<input type="checkbox"/> Accepted <input type="checkbox"/> Declined																		

HFORM-105

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

ל.ו.ו. כולל, כולל וכולל

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PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS	ANALYSIS PARAMETERS													REMARKS			
SAMPLERS: (Signature)						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH									
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																		
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 ASARCO - SALT LAKE CITY, UT				P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____										
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks																
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____														
HFORM-1-4/95						Return results & electronic copy to:						Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature _____										

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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

Bilquis Dhedhy
Chemist

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



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

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
L980940-4	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
L980940-6	06-MAY-98	EPRI-9805-116	TSS	50.	ppm	MO	12-MAY-98		160.2
			ZN(D)	.098	ppm	JT	13-MAY-98	180	6010
			AS(D)	.62	ppm	KB	19-MAY-98	180	6020
			CA	436.	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
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

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
L980940-7	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

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	
L980940-9	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
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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Batch No: L980940

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

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
L980940-12	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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El Paso
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Batch No: L980940

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

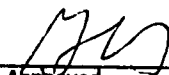
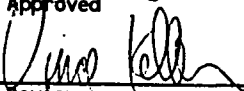
Batch No: L980940

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
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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	

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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
Bilquis Dhedhy
Chemist

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

0131. 502.100
Folder (3)



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	18-MAY-98	28	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	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	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	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
L980977-6	08-MAY-98	EPRI-9805-131	TSS	7.0	ppm	MO	14-MAY-98		160.2
			ZN(D)	.052	ppm	JT	13-MAY-98	180	6010
			AS(D)	10.	ppm	KB	19-MAY-98	180	6020
			CA	554.	ppm	JT	13-MAY-98	180	6010

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
L980977-6	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

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
L980977-7	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

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
L980977-9	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

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso


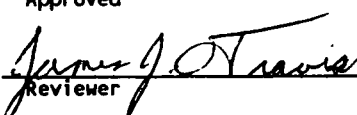
Water and Solid Waste (Project 3220)

Batch No: L980977

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980977-11	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

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
L980977-12	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

 Reviewer

ASARCO TECHNICAL 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
WG980657-1		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	

ASARCO TECHNICAL 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
WG980657-3		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 TECHNICAL 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


ApprovedJames J. Travis
Reviewer

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

PROJ. NO.		PROJECT NAME																						
0734-ASARCO-EIPABO,TX																								
SAMPLERS: (Signature) Douglas M. Solon																								
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	NO. OF CON- TAINERS	Commons UF/RAW	Nutrients UF/H₂SO₄	Diss. Metal F/HNO₃	CN UF-/NaOH	Total Metals UF/HNO₃	Total Recoverable Metals UF/HNO₃	BTEX	TPH										REMARKS	
5-8-98	830			EPR1-9805-124	3	X	X	X				*	x											
	900			EPR1-9805-129	3	X	A	X																
	940			EPR1-9805-127	3	X	X	X																
	1010			EPR1-9805-128	3	X	X	X																
	1040			EPR1-9805-125	3	X	X	X																
	1110			EPR1-9805-H+ 131	3	X	X	X																
5-11-98	920			EPR1-9805 - 118	3	X	X	X																
	1050			EPR1-9805 - 119	3	X	X	X																
	1120			EPR1-9805-138	3	X	X	X																
	1345			EPR1-9805-140	3	X	X	X																
	1430			EPR1-9805-141	3	X	X	X																
	1515			EPR1-9805-111	3	X	X	X																
	1545			EPR1-9805-153	3	X	X	X																
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab		P.O. #	Shipped via: Bus, Fed Ex UPS Other _____ Air Bill # _____																
[Signature]		5/12/98 4:00 pm			TSC-SATTLAKE CITY																			
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks																			
Relinquished (Signature)		Date/Time	Received for Laboratory by:		Date/Time	Enclosed: [x] Parameter sheet w/detection limits [] QA/QC standard mixing instructions [x] Cover letter [] Other _____																		
			[Signature]		5.13.98 10.15-																			

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 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 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
L980996-2	12-MAY-98	EPRI-9805-136	PH	7.3	ppm	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	ppm	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

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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	JT	19-MAY-98	180	6010
			PB(D)	<.003	ppm	LV	28-MAY-98	28	353.2
			PH	7.7	ppm	KB	21-MAY-98	180	6020
			SE(D)	.026	pH	DC	18-MAY-98		150.1
			SO4=	797.	ppm	KB	21-MAY-98	180	6020
			TDS	1814.	ppm	LV	28-MAY-98	28	9036
			TSS	2.2	ppm	JH	19-MAY-98	7	160.1
			ZN(D)	<.020	ppm	MO	19-MAY-98		160.2
					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

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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

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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	JT	19-MAY-98	180	6010
			NO2/NO3	10.	ppm	LV	28-MAY-98	28	353.2
			PB(D)	.006	ppm	KB	21-MAY-98	180	6020
			PH	7.5	pH	DC	18-MAY-98		150.1
			SE(D)	.029	ppm	KB	21-MAY-98	180	6020
			SO4=	916.	ppm	LV	28-MAY-98	28	9036
			TDS	2087.	ppm	JH	19-MAY-98	7	160.1
			TSS	8.1	ppm	MO	19-MAY-98		160.2
			ZN(D)	.052	ppm	KB	21-MAY-98	180	6020
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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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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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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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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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

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
L980996-18	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
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

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	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

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	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

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

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS													REMARKS				
SAMPLERS: (Signature)					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH									
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER																
0734-	ASARCO - EL PASO, TX																				
Douglas M. Solor																					
5-12-98	1430			EPR1-9805-132	3	X	X	X													
5-12-98	1515			EPR1-9805-136	3	X	X	X													
5-12-98	1545			EPR1-9805-135	3	X	X	X													
5-13-98	820			EPR1-9805-133	3	X	X	X													
	830			EPR1-9805-179	3	X	X	X													
	915			EPR1-9805-154	3	X	X	X													
	950			EPR1-9805-137	3	X	X	X													
	1030			EPR1-9805-139	3	X	X	X													
	1115			EPR1-9805-142	3	X	X	X													
	1345			EPR1-9805-146	3	X	X	X													
	1500			EPR1-9805-148	3	X	X	X													
	1530			EPR1-9805-145	3	X	X	X													
5-14-98	820			EPR1-9805-151	3	X	X	X													
	915			EPR1-9805-144	3	X	X	X													
	945			EPR1-9805-143	3	X	X	X													
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, FedEx, UPS Other _____ Air Bill # _____											
Douglas M. Solor		5-14-98 1600				ASARCO - JAIL LAKE CITY															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks															
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____													
				[Signature]		5.15.98 10:30															

HF0RM-1

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

Split Samples:
☐ Accepted ☒ Declined

Hydrometronics, Inc.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85705 • (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.		PROJECT NAME		NO. OF CONTAINERS													REMARKS			
0734-		ASARCO - EL PASO, TX																		
SAMPLERS: (Signature)																				
Douglas M. Solon																				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH								
5-14-98	1015			EPR1-9805-147	3	X	X	X												
	1045			EPR1-9805-150	3	X	X	X												
	1115			EPR1-9805-149	3	X	X	X												
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS										
Douglas M. Solon		5-14-98 1600				ASARCO-SAIT 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: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____												
				[Signature]		5-15-98 10:30														
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature _____																				

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 ¹⁰ ~~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

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 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
			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
L981031-4	18-MAY-98	EPRI-9805-159							

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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
L981031-6	18-MAY-98	EPRI-9805-155	TSS	<1.0	ppm	MO	21-MAY-98		160.2
			ZN(D)	.044	ppm	KB	29-MAY-98	180	6020
			AS(D)	<.005	ppm	KB	29-MAY-98	180	6020
			CA	206.	ppm	JT	21-MAY-98	180	6010

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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

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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	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	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	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	21-MAY-98	14	310.1

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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

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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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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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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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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
L981031-15	19-MAY-98	EPRI-9805-170	PB(TR)	.014	ppm	KB	02-JUN-98	180	6020M
			PH	8.5	ppm	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	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	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	ppm	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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L981031-16	19-MAY-98	EPRI-9805-169	ZN(TR)	.027	ppm	JT	28-MAY-98	180	6010
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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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

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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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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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Batch No: L981031

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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[Signature]
Approved

Ken Bilak
Reviewer

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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	

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
WG980706-2		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

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
WG980706-3		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)	+/-prdt	% 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)	+/-prdt	% RPD	KB	02-JUN-98	6020M	
			SE(D)	+/-prdt	% 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	

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
WG980706-5		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

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
WG980706-7		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	
WG980706-9		Duplicate	TSS	92	% RECOVERY	MO	21-MAY-98	160.2	
			ZN(D)	103	% RECOVERY	KB	29-MAY-98	6020	
			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

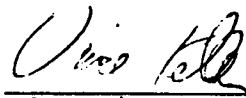
ANALYTICAL DATA REPORT

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


Reviewer

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

[illegible]

Hydrometronics, Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85742 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME			NO. OF CONTAINERS	ANALYSIS PARAMETERS												REMARKS	
SAMPLERS: (Signature)						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH						
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER															
0734-	ASARCO - EL PASO, TX																		
Douglas M. Solon																			
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									
[Handwritten signature across the bottom of the table]																			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex , UPS									
Douglas M. Solon		5-19-98 1606				ASARCO-SAIL 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: <input checked="" type="checkbox"/> Parameter sheet w/detection limits											
				Hotten		5-20-98 10:00		<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter											
								<input type="checkbox"/> Other _____											
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature _____																			

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 ¹⁰ ~~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

TELECOPY TRANSMITTAL

TO:

LARRY JOHNSON

FROM:

BIL DAVIS ASARCO TSC Laboratory DAEH/

DATE:

June 14, 78

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 TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L981203

DATE	TIME	ANALYST	TEST	UNIT	RESULT	REFERENCE
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



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 TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

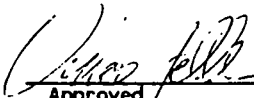
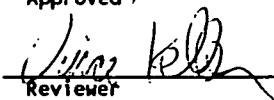
El Paso

Water and Solid Waste (Project 3220)

Batch No: L962254

LAB NO	DATE	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD
	COLLECTED						ANALYZED	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
Senior Analytical
Chemist

cc: GRStanga (w\attach)



Q C FOR ELPASO SOILS L971239

CCV 30651-58

GIVEN

PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
	12	420		18	8062		27400
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

FOUND

LCS BRS2704

GIVEN

23.4	3.45	135	98.6	4.4	161		438
<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

FOUND

LCS SO-1

GIVEN

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

FOUND

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

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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

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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

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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

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
L971239-44	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

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
L971239-48	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

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
L971239-53	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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El Paso

Technical Services (Project 3201)

Batch No: L971239

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

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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-671	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

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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-671	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
Heavy 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 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 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
L971420-5	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


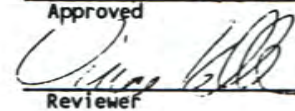
ANALYTICAL DATA REPORT

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

Split Samples:
☐ Accepted ☐ Declined

ASARCO

0154-3-2.700
SOIL SAMPLES

RECEIVED

JUN 16 1997

June 10, 1997

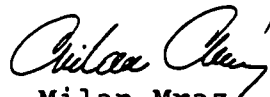
HYDROMETRICS, INC.

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 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 TECHNICAL SERVICES CENTER


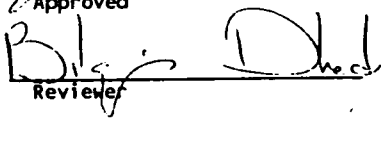
ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971211

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971211-5	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

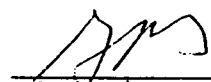
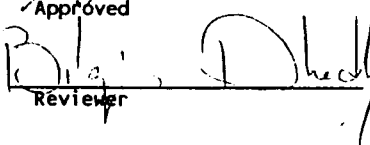
ANALYTICAL DATA REPORT

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 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

☐ 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		NO. OF CON- TAINERS	<div style="display: flex; justify-content: space-between;"> <div>Commons UF/RAW</div> <div>Nutrients UF/H₂SO₄</div> <div>Diss. Metal F/HNO₃</div> <div>CN UF/NaOH</div> <div>Total Metals UF/HNO₃</div> <div>Total Recoverable Metals UF/HNO₃</div> <div>BTEX</div> <div>TPH</div> <div>TCLP (see label 1311)</div> </div>										REMARKS						
SAMPLERS: (Signature)																					
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER																
6-3-97	0800		X	EP-75	1																
6-5-97	0800			EP-75 B (more grass)																	
6-3-97	1400			EP-76																	
6-5-97	1300			EP-78																	
6-5-97	1200			EP-79																	
6-6-97	0400		✓	EP-80																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Handwritten: 1A</p> </div> <div style="width: 45%;"> <p>Handwritten: 1</p> </div> </div>																					

Relinquished (Signature)

Handwritten: [Signature]

Date/Time

Handwritten: 6/10/97 2:00pm

Received by: (Signature)

Lab

P.O. #

Shipped via: Bus, Fed Ex, UPS

Other _____

Air Bill # _____

Relinquished (Signature)

Handwritten: [Signature]

Date/Time

Received by: (Signature)

Remarks

Handwritten: * 24 hour - Rush

Letter - Mention that EP-75 both in bags and same date. One has note in file.

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 Handwritten: Talked in March.

HF0RM-1-4/95

Return results & electronic copy to:

Computer Dept. at address at top of page

Split Samples:

☐ Accepted ☐ Declined

Signature



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.

A handwritten signature in cursive script that reads "Lee Stone".

Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w\attach)



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

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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

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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

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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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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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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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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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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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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

ASARCO TECHNICAL SERVICES CENTER

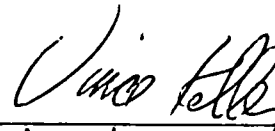
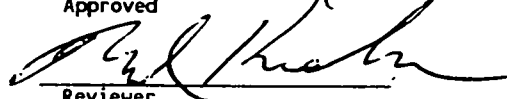
ANALYTICAL DATA REPORT

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
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Approved

Reviewer

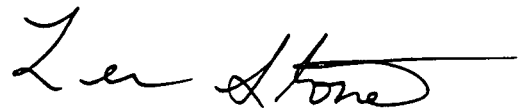
ASARCO

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)



Q C FOR ELPASO SOILS L971344

CCV 30651-58

GIVEN

FOUND

PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
	12	420		18	8062		27400
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

FOUND

		160	61	6	21		146
<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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AB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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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El Paso
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Batch No: L971344

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

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El Paso

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD	METHOD
							ANALYZED	DAYS	
L971344-22	10-JUN-97	EP-82F	SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	24	PPM	LCS	01-JUL-97		EDXRF
L971344-23	10-JUN-97	EP-82G	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	1.1	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	15	PPM	LCS	01-JUL-97		EDXRF
L971344-24	12-JUN-97	EP-70RA	AS	36	PPM	LCS	01-JUL-97		EDXRF
			CD	27	PPM	LCS	01-JUL-97		EDXRF
			CR	110	PPM	LCS	01-JUL-97		EDXRF
			CU	230	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	41	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	470	PPM	LCS	01-JUL-97		EDXRF
L971344-25	12-JUN-97	EP-70RB	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	1.0	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	17	PPM	LCS	01-JUL-97		EDXRF
L971344-26	12-JUN-97	EP-70RB2	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	66	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.9	%	LCS	01-JUL-97		EDXRF
			PB	19	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	18	PPM	LCS	01-JUL-97		EDXRF

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El Paso

Water and Solid Waste (Project 3220)

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNIT	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-27	12-JUN-97	EP-70RC	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	21	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	25	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	29	PPM	LCS	01-JUL-97		EDXRF
L971344-28	12-JUN-97	EP-70RD	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	42	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	22	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	<10	PPM	LCS	01-JUL-97		EDXRF
L971344-29	12-JUN-97	EP-70RE	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	22	PPM	LCS	01-JUL-97		EDXRF
			FE	0.9	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	<10	PPM	LCS	01-JUL-97		EDXRF
L971344-30	12-JUN-97	EP-70RF	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	67	PPM	LCS	01-JUL-97		EDXRF
			CU	13	PPM	LCS	01-JUL-97		EDXRF
			FE	2.3	%	LCS	01-JUL-97		EDXRF
			PB	27	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	56	PPM	LCS	01-JUL-97		EDXRF
L971344-31	12-JUN-97	EP-70RG	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	52	PPM	LCS	01-JUL-97		EDXRF

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El Paso

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-31	12-JUN-97	EP-70RG	CU	14	PPM	LCS	01-JUL-97		EDXRF
			FE	2.1	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-32	12-JUN-97	EP-70RH	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	77	PPM	LCS	01-JUL-97		EDXRF
			CU	68	PPM	LCS	01-JUL-97		EDXRF
			FE	2.9	%	LCS	01-JUL-97		EDXRF
			PB	45	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF
L971344-33	12-JUN-97	EP-70RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	110	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	12	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-34	12-JUN-97	EP-70RJ	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	65	PPM	LCS	01-JUL-97		EDXRF
L971344-35	12-JUN-97	EP-70RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-35	12-JUN-97	EP-70RK	SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	26	PPM	LCS	01-JUL-97		EDXRF
L971344-36	12-JUN-97	EP-70RL	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	55	PPM	LCS	01-JUL-97		EDXRF
L971344-37	12-JUN-97	EP-70RM	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	33	PPM	LCS	01-JUL-97		EDXRF
L971344-38	12-JUN-97	EP-71RF	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	2.3	%	LCS	01-JUL-97		EDXRF
			PB	19	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	61	PPM	LCS	01-JUL-97		EDXRF
L971344-39	12-JUN-97	EP-71RG	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	29	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	63	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-40	12-JUN-97	EP-71RH	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	35	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF
L971344-41	12-JUN-97	EP-71RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	57	PPM	LCS	01-JUL-97		EDXRF
			CU	37	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	11	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF
L971344-42	12-JUN-97	EP-71RJ	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	200	PPM	LCS	01-JUL-97		EDXRF
			CU	21	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-43	12-JUN-97	EP-71RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	81	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	46	PPM	LCS	01-JUL-97		EDXRF
L971344-44	12-JUN-97	EP-71RL	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	46	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-44	12-JUN-97	EP-71RL	CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-45	12-JUN-97	EP-71RL2	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	51	PPM	LCS	01-JUL-97		EDXRF
L971344-46	11-JUN-97	EP-71RD	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	1.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF
L971344-47	11-JUN-97	EP-71RE	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	39	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

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


Reviewer

ASARCO

RECEIVED

JUL 14 1997

HYDROMETRICS, INC.

July 8, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray result for your El Paso soil samples received on the 20th 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: CRStanga (w\attach)
JVanek “



Q C FOR ELPASO SOILS L971402

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	424	21	278	951	15	7514	12	28505
	450	<10	386	1129	15	7453	19	28429
	515	11	340	1070	15	7357	13	28629
	375	11	443	943	15	7472	16	28390
	588	19	322	956	15	7429	27	28504

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	115	117	4.4	188	<10	494
	<20	<10	115	140	4.5	200	<10	499

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	77	47	6	47	<10	176

DUPLICATES

L971402-20	<20	<10	<30	41	1.4	55	<10	68
DUP402-20	<20	<10	46	44	1.4	59	<10	55
%DIFF			88	7	0	7		21

L971402-40	<20	<10	43	<20	1.1	<10	<10	42
DUP402-40	<20	<10	91	<20	1.0	<10	<10	23
%DIFF			72		10			58

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		175	66		83	93		104
		75	92		83	92		104
		92	81		83	91		104
		92	105		83	93		104
		158	77		83	92		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			85	119	100	117		113
			85	142	102	124		114

LCS SO-1

GIVEN		160PPM	61PPM	6%	21PPM		146PPM
% RECOV		48	77	100	224		121

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El Paso

Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-1	12-JUN-97	EP-85A	AS	59	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	58	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	150	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF
L971402-2	12-JUN-97	EP-85B	AS	27	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	78	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	15	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	35	PPM	LCS	07-JUL-97		EDXRF
L971402-3	12-JUN-97	EP-85C	AS	22	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	63	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	27	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	26	PPM	LCS	07-JUL-97		EDXRF
L971402-4	12-JUN-97	EP-85D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	32	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	99	PPM	LCS	07-JUL-97		EDXRF
L971402-5	13-JUN-97	EP-86A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-5	13-JUN-97	EP-86A	CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	87	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-6	13-JUN-97	EP-86B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	33	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-7	13-JUN-97	EP-86C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	31	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	57	PPM	LCS	07-JUL-97		EDXRF
L971402-8	13-JUN-97	EP-86D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	42	PPM	LCS	07-JUL-97		EDXRF
			FE	2.2	%	LCS	07-JUL-97		EDXRF
			PB	48	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	85	PPM	LCS	07-JUL-97		EDXRF
L971402-9	13-JUN-97	EP-86E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	39	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.6	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-9	13-JUN-97	EP-86E	SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	63	PPM	LCS	07-JUL-97		EDXRF
L971402-10	13-JUN-97	EP-86F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	26	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	52	PPM	LCS	07-JUL-97		EDXRF
L971402-11	13-JUN-97	EP-86G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	25	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-12	13-JUN-97	EP-86H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	22	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	33	PPM	LCS	07-JUL-97		EDXRF
L971402-13	13-JUN-97	EP-86I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	23	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-14	13-JUN-97	EP-86J	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	35	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	17	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	25	PPM	LCS	07-JUL-97		EDXRF
L971402-15	13-JUN-97	EP-86K	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-16	13-JUN-97	EP-86L	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	41	PPM	LCS	07-JUL-97		EDXRF
L971402-17	13-JUN-97	EP-86M	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	36	PPM	LCS	07-JUL-97		EDXRF
L971402-18	13-JUN-97	EP-86M2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-18	13-JUN-97	EP-86M2	CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	18	PPM	LCS	07-JUL-97		EDXRF
L971402-19	16-JUN-97	EP-87A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	86	PPM	LCS	07-JUL-97		EDXRF
			CU	20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-20	16-JUN-97	EP-87B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	54	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF
L971402-21	16-JUN-97	EP-87C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	11	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-22	16-JUN-97	EP-88A	AS	550	PPM	LCS	07-JUL-97		EDXRF
			CD	150	PPM	LCS	07-JUL-97		EDXRF
			CR	200	PPM	LCS	07-JUL-97		EDXRF
			CU	5600	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	3600	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-22	16-JUN-97	EP-88A	SE	23	PPM	LCS	07-JUL-97		EDXRF
			ZN	3100	PPM	LCS	07-JUL-97		EDXRF
L971402-23	16-JUN-97	EP-88B	AS	50	PPM	LCS	07-JUL-97		EDXRF
			CD	120	PPM	LCS	07-JUL-97		EDXRF
			CR	120	PPM	LCS	07-JUL-97		EDXRF
			CU	2200	PPM	LCS	07-JUL-97		EDXRF
			FE	3.3	%	LCS	07-JUL-97		EDXRF
			PB	2700	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	3200	PPM	LCS	07-JUL-97		EDXRF
L971402-24	16-JUN-97	EP-88C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	59	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.4	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	54	PPM	LCS	07-JUL-97		EDXRF
L971402-25	16-JUN-97	EP-88C2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-26	16-JUN-97	EP-88D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	3.0	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	95	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-27	16-JUN-97	EP-88E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	58	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	55	PPM	LCS	07-JUL-97		EDXRF
L971402-28	16-JUN-97	EP-88F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	36	PPM	LCS	07-JUL-97		EDXRF
			FE	2.8	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	49	PPM	LCS	07-JUL-97		EDXRF
L971402-29	16-JUN-97	EP-88G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	18	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF
L971402-30	16-JUN-97	EP-88H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	70	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-31	18-JUN-97	EP-89A	AS	34	PPM	LCS	07-JUL-97		EDXRF
			CD	110	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-31	18-JUN-97	EP-89A	CU	4900	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	9600	PPM	LCS	07-JUL-97		EDXRF
			SE	20	PPM	LCS	07-JUL-97		EDXRF
			ZN	4100	PPM	LCS	07-JUL-97		EDXRF
L971402-32	18-JUN-97	EP-89B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	48	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	42	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	78	PPM	LCS	07-JUL-97		EDXRF
L971402-33	18-JUN-97	EP-89C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	160	PPM	LCS	07-JUL-97		EDXRF
			FE	3.2	%	LCS	07-JUL-97		EDXRF
			PB	180	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	200	PPM	LCS	07-JUL-97		EDXRF
L971402-34	18-JUN-97	EP-89D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	75	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	2.5	%	LCS	07-JUL-97		EDXRF
			PB	22	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	56	PPM	LCS	07-JUL-97		EDXRF
L971402-35	18-JUN-97	EP-89E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	54	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-35	18-JUN-97	EP-89E	SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	72	PPM	LCS	07-JUL-97		EDXRF
L971402-36	18-JUN-97	EP-89F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	92	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF
L971402-37	18-JUN-97	EP-89G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	91	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-38	18-JUN-97	EP-89H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	46	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	44	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	65	PPM	LCS	07-JUL-97		EDXRF
L971402-39	18-JUN-97	EP-89I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	88	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	32	PPM	LCS	07-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

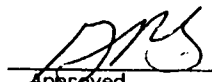
ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-40	18-JUN-97	EP-73F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	43	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.1	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF


Approved
Reviewer

July 15, 1997

RECEIVED

JUL 18 1997

HYDROMETRICS, INC.

Ms. Jenny Vanek
HYDROMETRICS INC.
2727 Airport Road
Helena, MT 59601

Attached are the analytical results for twenty, (20) XRF Confirmation soil samples from the El Paso, selected and analyzed upon your request.

If you need further information, please call me at (801) 263-5266.

Sincerely,



Adil Harami
Senior Chemist

AKH/jh
Attach.

cc: Lairy Johnson (w/attach.)
Lee Stone "
GRStanga "

1 in 20.
Wet Chemistry
Confirmation



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-1	11-JUN-97	EP-71RA	(L971344-1)	AS	984	ppm	JJT	11-JUL-97	6010	
				CD	85	ppm	JJT	11-JUL-97	6010	
				CR	26	ppm	JJT	11-JUL-97	6010	
				CU	22970	ppm	JJT	11-JUL-97	6010	
				FE	40150	ppm	JJT	11-JUL-97	6010	
				PB	5793	ppm	JJT	11-JUL-97	6010	
				SE	33	ppm	JJT	11-JUL-97	6010	
				ZN	3049	ppm	JJT	11-JUL-97	6010	
L971526-2	28-MAY-97	EP-67A	L971239-1)	AS	1035	ppm	JJT	11-JUL-97	6010	
				CD	292	ppm	JJT	11-JUL-97	6010	
				CR	25	ppm	JJT	11-JUL-97	6010	
				CU	15910	ppm	JJT	11-JUL-97	6010	
				FE	19290	ppm	JJT	11-JUL-97	6010	
				PB	8051	ppm	JJT	11-JUL-97	6010	
				SE	26	ppm	JJT	11-JUL-97	6010	
				ZN	3176	ppm	JJT	11-JUL-97	6010	
L971526-3	28-MAY-97	EP-67B	(L971239-2)	AS	197	ppm	JJT	11-JUL-97	6010	
				CD	137	ppm	JJT	11-JUL-97	6010	
				CR	22	ppm	JJT	11-JUL-97	6010	
				CU	1254	ppm	JJT	11-JUL-97	6010	
				FE	15250	ppm	JJT	11-JUL-97	6010	
				PB	392	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	438	ppm	JJT	11-JUL-97	6010	
L971526-4	28-MAY-97	EP-67C	(L971239-3)	AS	170	ppm	JJT	11-JUL-97	6010	
				CD	42	ppm	JJT	11-JUL-97	6010	
				CR	21	ppm	JJT	11-JUL-97	6010	
				CU	161	ppm	JJT	11-JUL-97	6010	
				FE	14620	ppm	JJT	11-JUL-97	6010	
				PB	15	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	31	ppm	JJT	11-JUL-97	6010	
L971526-5	03-JUN-97	EP-76B	(L971325-5)	AS	530	ppm	KPB	14-JUL-97	6020	
				CD	<10	ppm	KPB	14-JUL-97	6020	
				CR	132	ppm	JJT	11-JUL-97	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-5	03-JUN-97	EP-768	(L971325-5)	CU	4699	ppm	JJT	11-JUL-97		6010
				FE	207300	ppm	JJT	11-JUL-97		6010
				PB	4897	ppm	JJT	11-JUL-97		6010
				SE	96	ppm	KPB	14-JUL-97		6020
				ZN	118100	ppm	JJT	11-JUL-97		6010
L971526-6	13-JUN-97	EP-86D	(L971402-8)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	12	ppm	JJT	11-JUL-97		6010
				CU	31	ppm	JJT	11-JUL-97		6010
				FE	13810	ppm	JJT	11-JUL-97		6010
				PB	35	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	139	ppm	JJT	11-JUL-97		6010
L971526-7	04-JUN-97	EP-77A	(L971325-10)	AS	240	ppm	JJT	11-JUL-97		6010
				CD	11	ppm	JJT	11-JUL-97		6010
				CR	14	ppm	JJT	11-JUL-97		6010
				CU	1583	ppm	JJT	11-JUL-97		6010
				FE	84180	ppm	JJT	11-JUL-97		6010
				PB	1902	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	799	ppm	JJT	11-JUL-97		6010
L971526-8	04-JUN-97	EP-77B	(L971325-11)	AS	69	ppm	JJT	11-JUL-97		6010
				CD	35	ppm	JJT	11-JUL-97		6010
				CR	18	ppm	JJT	11-JUL-97		6010
				CU	208	ppm	JJT	11-JUL-97		6010
				FE	20220	ppm	JJT	11-JUL-97		6010
				PB	648	ppm	JJT	11-JUL-97		6010
				SE	<10	ppm	JJT	11-JUL-97		6010
				ZN	723	ppm	JJT	11-JUL-97		6010
L971526-9	11-JUN-97	EP-84C	(L971344-15)	AS	<10	ppm	JJT	11-JUL-97		6010
				CD	<10	ppm	JJT	11-JUL-97		6010
				CR	<10	ppm	JJT	11-JUL-97		6010
				CU	45	ppm	JJT	11-JUL-97		6010
				FE	17650	ppm	JJT	11-JUL-97		6010
				PB	35	ppm	JJT	11-JUL-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-9	11-JUN-97	EP-84C	(L971344-15)	SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	80	ppm	JJT	11-JUL-97	6010	
L971526-10	11-JUN-97	EP-84D	(L971344-16)	AS	<10	ppm	JJT	11-JUL-97	6010	
				CD	<10	ppm	JJT	11-JUL-97	6010	
				CR	<10	ppm	JJT	11-JUL-97	6010	
				CU	35	ppm	JJT	11-JUL-97	6010	
				FE	16050	ppm	JJT	11-JUL-97	6010	
				PB	20	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	80	ppm	JJT	11-JUL-97	6010	
L971526-11	04-JUN-97	EP-78A	(L971325-18)	AS	524	ppm	JJT	11-JUL-97	6010	
				CD	32	ppm	JJT	11-JUL-97	6010	
				CR	15	ppm	JJT	11-JUL-97	6010	
				CU	526	ppm	JJT	11-JUL-97	6010	
				FE	24770	ppm	JJT	11-JUL-97	6010	
				PB	359	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	1928	ppm	JJT	11-JUL-97	6010	
L971526-12	16-JUN-97	EP-88A	(L971402-22)	AS	420	ppm	JJT	11-JUL-97	6010	
				CD	96	ppm	JJT	11-JUL-97	6010	
				CR	16	ppm	JJT	11-JUL-97	6010	
				CU	3756	ppm	JJT	11-JUL-97	6010	
				FE	13090	ppm	JJT	11-JUL-97	6010	
				PB	2508	ppm	JJT	11-JUL-97	6010	
				SE	18	ppm	JJT	11-JUL-97	6010	
				ZN	2062	ppm	JJT	11-JUL-97	6010	
L971526-13	18-JUN-97	EP-89A	(L971402-31)	AS	275	ppm	JJT	11-JUL-97	6010	
				CD	70	ppm	JJT	11-JUL-97	6010	
				CR	16	ppm	JJT	11-JUL-97	6010	
				CU	3695	ppm	JJT	11-JUL-97	6010	
				FE	20380	ppm	JJT	11-JUL-97	6010	
				PB	8968	ppm	JJT	11-JUL-97	6010	
				SE	11	ppm	JJT	11-JUL-97	6010	
				ZN	2880	ppm	JJT	11-JUL-97	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-14	18-JUN-97	EP-89B	(L971402-32)	AS	<10	ppm	JJT	11-JUL-97	6010	
				CD	<10	ppm	JJT	11-JUL-97	6010	
				CR	10	ppm	JJT	11-JUL-97	6010	
				CU	39	ppm	JJT	11-JUL-97	6010	
				FE	14870	ppm	JJT	11-JUL-97	6010	
				PB	38	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	53	ppm	JJT	11-JUL-97	6010	
L971526-15	31-MAY-97	EP-70E	(L971239-32)	AS	213	ppm	JJT	11-JUL-97	6010	
				CD	40	ppm	JJT	11-JUL-97	6010	
				CR	16	ppm	JJT	11-JUL-97	6010	
				CU	28	ppm	JJT	11-JUL-97	6010	
				FE	15050	ppm	JJT	11-JUL-97	6010	
				PB	17	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	561	ppm	JJT	11-JUL-97	6010	
L971526-16	12-JUN-97	EP-70RJ	(L971344-34)	AS	<10	ppm	JJT	11-JUL-97	6010	
				CD	<10	ppm	JJT	11-JUL-97	6010	
				CR	15	ppm	JJT	11-JUL-97	6010	
				CU	19	ppm	JJT	11-JUL-97	6010	
				FE	10370	ppm	JJT	11-JUL-97	6010	
				PB	14	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	183	ppm	JJT	11-JUL-97	6010	
L971526-17	11-JUN-97	EP-71RE	(L971344-47)	AS	<10	ppm	JJT	11-JUL-97	6010	
				CD	<10	ppm	JJT	11-JUL-97	6010	
				CR	20	ppm	JJT	11-JUL-97	6010	
				CU	14	ppm	JJT	11-JUL-97	6010	
				FE	11620	ppm	JJT	11-JUL-97	6010	
				PB	21	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	115	ppm	JJT	11-JUL-97	6010	
L971526-18	02-JUN-97	EP-74H	(L971239-58)	AS	<10	ppm	JJT	11-JUL-97	6010	
				CD	<10	ppm	JJT	11-JUL-97	6010	
				CR	18	ppm	JJT	11-JUL-97	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971526

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971526-18	02-JUN-97	EP-74H	(L971239-58)	CU	13	ppm	JJT	11-JUL-97	6010	
				FE	13530	ppm	JJT	11-JUL-97	6010	
				PB	11	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	36	ppm	JJT	11-JUL-97	6010	
L971526-19	02-JUN-97	EP-74I	(L971239-59)	AS	<10	ppm	JJT	11-JUL-97	6010	
				CD	<10	ppm	JJT	11-JUL-97	6010	
				CR	35	ppm	JJT	11-JUL-97	6010	
				CU	14	ppm	JJT	11-JUL-97	6010	
				FE	15470	ppm	JJT	11-JUL-97	6010	
				PB	11	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	40	ppm	JJT	11-JUL-97	6010	
L971526-20	02-JUN-97	EP-74K	(L971239-61)	AS	16	ppm	JJT	11-JUL-97	6010	
				CD	<10	ppm	JJT	11-JUL-97	6010	
				CR	37	ppm	JJT	11-JUL-97	6010	
				CU	13	ppm	JJT	11-JUL-97	6010	
				FE	20190	ppm	JJT	11-JUL-97	6010	
				PB	15	ppm	JJT	11-JUL-97	6010	
				SE	<10	ppm	JJT	11-JUL-97	6010	
				ZN	38	ppm	JJT	11-JUL-97	6010	

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971038

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971038-1		Matrix Spike	AS	78	% RECOVERY	JJT	11-JUL-97	6010	
			CD	88	% RECOVERY	JJT	11-JUL-97	6010	
			CR	108	% RECOVERY	JJT	11-JUL-97	6010	
			CU	88	% RECOVERY	JJT	11-JUL-97	6010	
			FE	SR>4xSA	% RECOVERY	JJT	11-JUL-97	6010	
			PB	85	% RECOVERY	JJT	11-JUL-97	6010	
			SE	85	% RECOVERY	JJT	11-JUL-97	6010	
			ZN	83	% RECOVERY	JJT	11-JUL-97	6010	
WG971038-2		Prep Blank	AS	<10	ppm	JJT	11-JUL-97	6010	
			CD	<10	ppm	JJT	11-JUL-97	6010	
			CR	<10	ppm	JJT	11-JUL-97	6010	
			CU	<10	ppm	JJT	11-JUL-97	6010	
			FE	<10	ppm	JJT	11-JUL-97	6010	
			PB	<10	ppm	JJT	11-JUL-97	6010	
			SE	<10	ppm	JJT	11-JUL-97	6010	
			ZN	<10	ppm	JJT	11-JUL-97	6010	
WG971038-3		Laboratory Control	AS	79	% RECOVERY	JJT	11-JUL-97	6010	
			CD	88	% RECOVERY	JJT	11-JUL-97	6010	
			CR	89	% RECOVERY	JJT	11-JUL-97	6010	
			CU	86	% RECOVERY	JJT	11-JUL-97	6010	
			FE	116	% RECOVERY	JJT	11-JUL-97	6010	
			PB	84	% RECOVERY	JJT	11-JUL-97	6010	
			SE	88	% RECOVERY	JJT	11-JUL-97	6010	
			ZN	83	% RECOVERY	JJT	11-JUL-97	6010	
WG971038-4		Duplicate	AS	3	% RPD	JJT	11-JUL-97	6010	
			CD	2	% RPD	JJT	11-JUL-97	6010	
			CR	12	% RPD	JJT	11-JUL-97	6010	
			CU	2	% RPD	JJT	11-JUL-97	6010	
			FE	5	% RPD	JJT	11-JUL-97	6010	
			PB	3	% RPD	JJT	11-JUL-97	6010	
			SE	14	% RPD	JJT	11-JUL-97	6010	
			ZN	6	% RPD	JJT	11-JUL-97	6010	
WG971038-5		Detection Limit	AS	<10	ppm			6010	
			CD	<10	ppm			6010	
			CR	<10	ppm			6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971038

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971038-5		Detection Limit	CU	<10	ppm				6010
			FE	<10	ppm				6010
			PB	<10	ppm				6010
			SE	<10	ppm				6010
			ZN	<10	ppm				6010
WG971038-6		Matrix Spike	AS	100	% RECOVERY	KPB	14-JUL-97		6020
			CD	109	% RECOVERY	KPB	14-JUL-97		6020
			SE	92	% RECOVERY	KPB	14-JUL-97		6020
WG971038-7		Prep Blank	AS	<10	ppm	KPB	14-JUL-97		6020
			CD	<10	ppm	KPB	14-JUL-97		6020
			SE	<10	ppm	KPB	14-JUL-97		6020
WG971038-8		Laboratory Control Samples	AS	100	% RECOVERY	KPB	14-JUL-97		6020
			CD	99	% RECOVERY	KPB	14-JUL-97		6020
			SE	96	% RECOVERY	KPB	14-JUL-97		6020
WG971038-9		Duplicate	AS	3	% RPD	KPB	14-JUL-97		6020
			CD	4	% RPD	KPB	14-JUL-97		6020
			SE	3	% RPD	KPB	14-JUL-97		6020

Approved

Reviewer

ASARCO

July 25, 1997

Mr. Lairy Johnson
Hydrometrics
EL PASO

Please find attached the following analytical results:

1). pH results for our laboratory sample numbers L971325-1 through L971325-39 inclusive, L971344-1 through L971344-47 inclusive, L971402-1 through L971402-40 inclusive. These pH results are for El Paso soil samples that were previously reported with metals results only. The samples were collected June 03, 1997 through June 18, 1997.

2). XRF metals and pH results for thirty eight soil samples collected June 19, through July 01, 1997. These samples were received by the laboratory on July 03, 1997.

3). XRF metals and pH results for twenty nine soil samples collected July 07, through July 08, 1997. These samples were received by the laboratory on July 14, 1997.

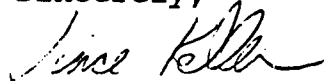
Associated quality control data is also attached.

RECEIVED

AUG 01 1997

HYDROMETRICS, INC.

Sincerely,



Vince Keller
Environmental Laboratory
Coordinator

VK/mo
Attach.

cc: JVanek (w/attach.)
GRStanga "



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	HOLD	METHOD
							ANALYZED	DAYS	
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
			PH	8.6	pH	DK	15-JUL-97		9045
			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
			PH	8.9	pH	DK	15-JUL-97		9045
			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
			PH	8.8	pH	DK	15-JUL-97		9045
			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
			PH	7.8	pH	DK	15-JUL-97		9045
			SE	82	PPM	LCS	27-JUN-97		EDXRF
			ZN	12000	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	AS	420	PPM	LCS	27-JUN-97		EDXRF
			CD	<10	PPM	LCS	27-JUN-97		EDXRF
			CR	310	PPM	LCS	27-JUN-97		EDXRF
			CU	4800	PPM	LCS	27-JUN-97		EDXRF
			FE	15	%	LCS	27-JUN-97		EDXRF
			PB	3400	PPM	LCS	27-JUN-97		9045
			PH	10.2	pH	DK	15-JUL-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		9045
			PH	8.9	pH	DK	15-JUL-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		9045
			PH	9.7	pH	DK	15-JUL-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		9045
			PH	9.4	pH	DK	15-JUL-97		EDXRF
			SE	20	PPM	LCS	27-JUN-97		EDXRF
			ZN	6600	PPM	LCS	27-JUN-97		EDXRF

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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
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	260	PPM	LCS	27-JUN-97		EDXRF
			AS	200	PPM	LCS	27-JUN-97		EDXRF
			CD	11	PPM	LCS	27-JUN-97		EDXRF
L971325-10	04-JUN-97	EP-77A	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
			PH	7.9	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	1100	PPM	LCS	27-JUN-97		EDXRF
			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
L971325-11	04-JUN-97	EP-77B	FE	3.9	%	LCS	27-JUN-97		EDXRF
			PB	950	PPM	LCS	27-JUN-97		EDXRF
			PH	8.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	850	PPM	LCS	27-JUN-97		EDXRF
			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
L971325-12	04-JUN-97	EP-77C	PH	8.8	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	100	PPM	LCS	27-JUN-97		EDXRF

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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
			PH	8.7	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	57	PPM	LCS	27-JUN-97		EDXRF
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
			PH	8.8	pH	DK	15-JUL-97		9045
			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
			PH	9.3	pH	DK	15-JUL-97		9045
			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
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	52	PPM	LCS	27-JUN-97		EDXRF

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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
			PH	8.8	pH	DK	15-JUL-97		9045
			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
			CU	700	PPM	LCS	27-JUN-97		EDXRF
			FE	3.2	%	LCS	27-JUN-97		EDXRF
			PB	530	PPM	LCS	27-JUN-97		EDXRF
			PH	8.2	pH	DK	15-JUL-97		9045
			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
			PH	8.8	pH	DK	15-JUL-97		9045
			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
			PH	9.4	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	120	PPM	LCS	27-JUN-97		EDXRF

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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
			PH	9.6	pH	DK	15-JUL-97		9045
			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
			PH	9.0	pH	DK	15-JUL-97		9045
			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
			PH	9.0	pH	DK	15-JUL-97		9045
			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
			PH	9.2	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	440	PPM	LCS	27-JUN-97		EDXRF

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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
			PH	1S	pH	DK	15-JUL-97		9045
			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
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	34	PPM	LCS	27-JUN-97		EDXRF
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
			PH	9.4	pH	DK	15-JUL-97		9045
			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
			PH	9.3	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	20	PPM	LCS	27-JUN-97		EDXRF

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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
			PH	8.4	pH	DK	15-JUL-97		9045
			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
			PH	8.5	pH	DK	15-JUL-97		9045
			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
			CU	<20	PPM	LCS	27-JUN-97		EDXRF
			FE	1.8	%	LCS	27-JUN-97		EDXRF
			PB	32	PPM	LCS	27-JUN-97		EDXRF
			PH	9.0	pH	DK	15-JUL-97		9045
			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
			PH	9.0	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	31	PPM	LCS	27-JUN-97		EDXRF

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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
			PH	9.1	pH	DK	15-JUL-97		9045
			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
			PH	9.0	pH	DK	15-JUL-97		9045
			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
			PH	8.3	pH	DK	15-JUL-97		9045
			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
			PH	8.5	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	360	PPM	LCS	27-JUN-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD	METHOD
							ANALYZED	DAYS	
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
			PH	9.0	pH	DK	15-JUL-97		9045
			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
			PH	8.7	pH	DK	15-JUL-97		9045
			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
			PH	8.6	pH	DK	15-JUL-97		9045
			SE	<10	PPM	LCS	27-JUN-97		EDXRF
			ZN	29	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
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IS=INSUFFICIENT SAMPLE


 Approved

 Reviewer

ASARCO TECHNOLOGICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

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
			PH	6.7	pH	DK	16-JUL-97		9045
			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
			PH	10.0	pH	DK	16-JUL-97		9045
			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
			PH	9.7	pH	DK	16-JUL-97		9045
			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
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	100	PPM	LCS	01-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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
			CU	54	PPM	LCS	01-JUL-97		EDXRF
			FE	2.8	%	LCS	01-JUL-97		EDXRF
			PB	18	PPM	LCS	01-JUL-97		EDXRF
			PH	9.9	pH	DK	16-JUL-97		9045
			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
			PH	9.8	pH	DK	16-JUL-97		9045
			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
			PH	9.9	pH	DK	16-JUL-97		9045
			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
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	18	PPM	LCS	01-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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
			PH	9.5	pH	DK	16-JUL-97		9045
			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
			PH	9.6	pH	DK	16-JUL-97		9045
			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
			PH	9.5	pH	DK	16-JUL-97		9045
			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
			PH	8.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF

Q C FOR ELPASO SOILS L971545

CCV 30651-58

GIVEN

FOUND

PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
	12	420		18	8062		27400
420	27	324	985	15	7477	13	28599
445	26	355	1034	15	7605	11	28335
478	18	381	1035	15	7412	42	28206
446	13	414	914	15	7528	11	28505

LCS BRS2704

GIVEN

FOUND

23.4	3.45	135	98.6	4.4	161		438
<20	<10	73	129	4.4	190	<10	494

LCS SO-1

GIVEN

FOUND

		160	61	6	21		146
<20	<10	140	89	6.2	21	<10	161

DUPLICATES

L971545-20

DUP545-20

%DIFF

<20	<10	59	<20	1.7	19	<10	25
<20	<10	<30	<20	1.6	11	<10	42
				6	53		51

L971545-38

DUP545-38

%DIFF

<20	<10	72	<20	1.7	21	<10	25
<20	<10	52	<20	1.6	10	<10	25
		32		6			0

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		225	77		83	93		104
		75	85		83	94		103
		150	91		83	92		103
		108	99		83	93		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			54	130	100	118		113

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			88	146	103	100		110

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-1	07-JUL-97	SS1A5-1A	AS	240	PPM	LV	23-JUL-97		EDXRF
			CD	130	PPM	LV	23-JUL-97		EDXRF
			CR	46	PPM	LV	23-JUL-97		EDXRF
			CU	6600	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	4200	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	30	PPM	LV	23-JUL-97		EDXRF
			ZN	2400	PPM	LV	23-JUL-97		EDXRF
L971637-2	08-JUL-97	SS1A5-1B	AS	28	PPM	LV	23-JUL-97		EDXRF
			CD	17	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	400	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	420	PPM	LV	23-JUL-97		EDXRF
			PH	8.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	200	PPM	LV	23-JUL-97		EDXRF
L971637-3	08-JUL-97	SS1A5-2A	AS	71	PPM	LV	23-JUL-97		EDXRF
			CD	66	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	1100	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	580	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	410	PPM	LV	23-JUL-97		EDXRF
L971637-4	08-JUL-97	SS1A5-2B	AS	22	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	82	PPM	LV	23-JUL-97		EDXRF
			CU	42	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	44	PPM	LV	23-JUL-97		EDXRF
			PH	9.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	28	PPM	LV	23-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-5	08-JUL-97	SS1A5-3A	AS	130	PPM	LV	23-JUL-97		EDXRF
			CD	110	PPM	LV	23-JUL-97		EDXRF
			CR	170	PPM	LV	23-JUL-97		EDXRF
			CU	7200	PPM	LV	23-JUL-97		EDXRF
			FE	2.5	%	LV	23-JUL-97		EDXRF
			PB	2700	PPM	LV	23-JUL-97		EDXRF
			PH	7.6	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	2000	PPM	LV	23-JUL-97		EDXRF
L971637-6	08-JUL-97	SS1A5-3B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	16	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	1200	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	850	PPM	LV	23-JUL-97		EDXRF
			PH	8.1	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	590	PPM	LV	23-JUL-97		EDXRF
L971637-7	08-JUL-97	SS1A5-4A	AS	37	PPM	LV	23-JUL-97		EDXRF
			CD	41	PPM	LV	23-JUL-97		EDXRF
			CR	30	PPM	LV	23-JUL-97		EDXRF
			CU	1800	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	1100	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	11	PPM	LV	23-JUL-97		EDXRF
			ZN	770	PPM	LV	23-JUL-97		EDXRF
L971637-8	08-JUL-97	SS1A5-4B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	44	PPM	LV	23-JUL-97		EDXRF
			CR	37	PPM	LV	23-JUL-97		EDXRF
			CU	1600	PPM	LV	23-JUL-97		EDXRF
			FE	2.3	%	LV	23-JUL-97		EDXRF
			PB	1800	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	12	PPM	LV	23-JUL-97		EDXRF
			ZN	1100	PPM	LV	23-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-9	08-JUL-97	SS1A5-5A	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	36	PPM	LV	23-JUL-97		EDXRF
			CR	30	PPM	LV	23-JUL-97		EDXRF
			CU	1100	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	1200	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	20	PPM	LV	23-JUL-97		EDXRF
			ZN	740	PPM	LV	23-JUL-97		EDXRF
L971637-10	08-JUL-97	SS1A5-5B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	130	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	210	PPM	LV	23-JUL-97		EDXRF
			PH	8.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	130	PPM	LV	23-JUL-97		EDXRF
L971637-11	08-JUL-97	SS1A5-6A	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	14	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	650	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	370	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	280	PPM	LV	23-JUL-97		EDXRF
L971637-12	08-JUL-97	SS1A5-6B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	10	PPM	LV	23-JUL-97		EDXRF
			CR	97	PPM	LV	23-JUL-97		EDXRF
			CU	310	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	370	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	210	PPM	LV	23-JUL-97		EDXRF

Q C FOR ELPASO SOILS L971637

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	501	21	381	977	15	7372	25	28021
	529	16	391	1053	15	7442	11	28303
	507	14	394	1003	15	7572	<10	28547

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	146	153	4.3	200	<10	498

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	154	95	6.2	15	<10	140

DUPLICATES

L971637-20	134	109	34	3947	1.9	2753	12	2476
DUP637-20	146	121	<30	3956	1.9	2800	14	2497
%DIFF	9	10		0	0	2	15	1
L971637-29	<20	<10	<30	115	1.9	127	<10	54
DUP637-29	<20	<10	<30	130	1.9	119	<10	58
%DIFF				12	0	7		7

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Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-13	08-JUL-97	SS1A5-7A	AS	110	PPM	LV	23-JUL-97		EDXRF
			CD	56	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	3800	PPM	LV	23-JUL-97		EDXRF
			FE	2.4	%	LV	23-JUL-97		EDXRF
			PB	1700	PPM	LV	23-JUL-97		EDXRF
			PH	7.9	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	1300	PPM	LV	23-JUL-97		EDXRF
L971637-14	08-JUL-97	SS1A5-7B (SAMPLE I)	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	59	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	68	PPM	LV	23-JUL-97		EDXRF
			PH	8.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	52	PPM	LV	23-JUL-97		EDXRF
L971637-15	08-JUL-97	SS1A5-7B (SAMPLE II)	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	24	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	<10	PPM	LV	23-JUL-97		EDXRF
			PH	1S	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	52	PPM	LV	23-JUL-97		EDXRF
L971637-16	08-JUL-97	SS1A5-8A	AS	31	PPM	LV	23-JUL-97		EDXRF
			CD	42	PPM	LV	23-JUL-97		EDXRF
			CR	47	PPM	LV	23-JUL-97		EDXRF
			CU	2800	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	1200	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	16	PPM	LV	23-JUL-97		EDXRF
			ZN	990	PPM	LV	23-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-17	08-JUL-97	SS1A5-8B	AS	32	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	<20	PPM	LV	23-JUL-97		EDXRF
			FE	1.6	%	LV	23-JUL-97		EDXRF
			PB	30	PPM	LV	23-JUL-97		EDXRF
			PH	8.9	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	28	PPM	LV	23-JUL-97		EDXRF
L971637-18	08-JUL-97	SS1A5-9A	AS	90	PPM	LV	23-JUL-97		EDXRF
			CD	39	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	2800	PPM	LV	23-JUL-97		EDXRF
			FE	2.3	%	LV	23-JUL-97		EDXRF
			PB	800	PPM	LV	23-JUL-97		EDXRF
			PH	7.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	850	PPM	LV	23-JUL-97		EDXRF
L971637-19	08-JUL-97	SS1A5-9B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	68	PPM	LV	23-JUL-97		EDXRF
			CU	260	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	110	PPM	LV	23-JUL-97		EDXRF
			PH	8.1	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	83	PPM	LV	23-JUL-97		EDXRF
L971637-20	08-JUL-97	SS1A5-10A	AS	130	PPM	LV	23-JUL-97		EDXRF
			CD	110	PPM	LV	23-JUL-97		EDXRF
			CR	34	PPM	LV	23-JUL-97		EDXRF
			CU	3900	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	2800	PPM	LV	23-JUL-97		EDXRF
			PH	7.7	pH	DK	17-JUL-97		9045
			SE	12	PPM	LV	23-JUL-97		EDXRF
			ZN	2500	PPM	LV	23-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-21	08-JUL-97	SS1A5-10B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	30	PPM	LV	23-JUL-97		EDXRF
			CU	320	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	250	PPM	LV	23-JUL-97		EDXRF
			PH	8.4	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	200	PPM	LV	23-JUL-97		EDXRF
L971637-22	08-JUL-97	SS1A5-11A	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	22	PPM	LV	23-JUL-97		EDXRF
			CR	36	PPM	LV	23-JUL-97		EDXRF
			CU	1100	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	740	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	630	PPM	LV	23-JUL-97		EDXRF
L971637-23	08-JUL-97	SS1A5-11B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	23	PPM	LV	23-JUL-97		EDXRF
			CR	66	PPM	LV	23-JUL-97		EDXRF
			CU	570	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	470	PPM	LV	23-JUL-97		EDXRF
			PH	8.1	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	360	PPM	LV	23-JUL-97		EDXRF
L971637-24	08-JUL-97	SS1A5-12A	AS	21	PPM	LV	23-JUL-97		EDXRF
			CD	19	PPM	LV	23-JUL-97		EDXRF
			CR	41	PPM	LV	23-JUL-97		EDXRF
			CU	810	PPM	LV	23-JUL-97		EDXRF
			FE	2.1	%	LV	23-JUL-97		EDXRF
			PB	540	PPM	LV	23-JUL-97		EDXRF
			PH	7.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	440	PPM	LV	23-JUL-97		EDXRF

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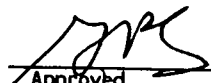

Batch No: L971637

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-25	08-JUL-97	SS1A5-12B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	11	PPM	LV	23-JUL-97		EDXRF
			CR	100	PPM	LV	23-JUL-97		EDXRF
			CU	430	PPM	LV	23-JUL-97		EDXRF
			FE	2.0	%	LV	23-JUL-97		EDXRF
			PB	440	PPM	LV	23-JUL-97		EDXRF
			PH	7.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	340	PPM	LV	23-JUL-97		EDXRF
L971637-26	08-JUL-97	SS1A5-13A	AS	87	PPM	LV	23-JUL-97		EDXRF
			CD	36	PPM	LV	23-JUL-97		EDXRF
			CR	69	PPM	LV	23-JUL-97		EDXRF
			CU	2200	PPM	LV	23-JUL-97		EDXRF
			FE	1.7	%	LV	23-JUL-97		EDXRF
			PB	830	PPM	LV	23-JUL-97		EDXRF
			PH	7.8	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	850	PPM	LV	23-JUL-97		EDXRF
L971637-27	08-JUL-97	SS1A5-13B	AS	<20	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	100	PPM	LV	23-JUL-97		EDXRF
			FE	1.8	%	LV	23-JUL-97		EDXRF
			PB	110	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	100	PPM	LV	23-JUL-97		EDXRF
L971637-28	08-JUL-97	SS1A5-14A	AS	78	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	60	PPM	LV	23-JUL-97		EDXRF
			CU	1300	PPM	LV	23-JUL-97		EDXRF
			FE	1.4	%	LV	23-JUL-97		EDXRF
			PB	170	PPM	LV	23-JUL-97		EDXRF
			PH	8.0	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	220	PPM	LV	23-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971637-29	08-JUL-97	SS1A5-14B	AS	10	PPM	LV	23-JUL-97		EDXRF
			CD	<10	PPM	LV	23-JUL-97		EDXRF
			CR	<30	PPM	LV	23-JUL-97		EDXRF
			CU	120	PPM	LV	23-JUL-97		EDXRF
			FE	1.9	%	LV	23-JUL-97		EDXRF
			PB	130	PPM	LV	23-JUL-97		EDXRF
			PH	8.2	pH	DK	17-JUL-97		9045
			SE	<10	PPM	LV	23-JUL-97		EDXRF
			ZN	54	PPM	LV	23-JUL-97		EDXRF

IS=INSUFFICIENT SAMPLE


 Approved

 Reviewer

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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
			PH	9.1	pH	DK	16-JUL-97		9045
			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
			CU	34	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	23	PPM	LCS	01-JUL-97		EDXRF
			PH	15	pH	DK	16-JUL-97		9045
			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
			PH	9.7	pH	DK	16-JUL-97		9045
			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
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	14	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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
			PH	9.0	pH	DK	16-JUL-97		9045
			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
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	24	PPM	LCS	01-JUL-97		EDXRF
L971344-23	10-JUN-97	EP-82G	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	1.1	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	15	PPM	LCS	01-JUL-97		EDXRF
L971344-24	12-JUN-97	EP-70RA	AS	36	PPM	LCS	01-JUL-97		EDXRF
			CD	27	PPM	LCS	01-JUL-97		EDXRF
			CR	110	PPM	LCS	01-JUL-97		EDXRF
			CU	230	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	41	PPM	LCS	01-JUL-97		EDXRF
			PH	7.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	470	PPM	LCS	01-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	390	PPM	LCS	01-JUL-97		EDXRF
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
			PH	9.0	pH	DK	16-JUL-97		9045
			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
			PH	8.8	pH	DK	16-JUL-97		9045
			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
			PH	8.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		175	91		83	91		102
		133	93		83	92		103
		117	94		83	94		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV.			108	155	98	124		114

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV.			96	156	103	71		96

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-25	12-JUN-97	EP-70RB	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	1.0	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	17	PPM	LCS	01-JUL-97		EDXRF
L971344-26	12-JUN-97	EP-70RB2	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	66	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	0.9	%	LCS	01-JUL-97		EDXRF
			PB	19	PPM	LCS	01-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	18	PPM	LCS	01-JUL-97		EDXRF
L971344-27	12-JUN-97	EP-70RC	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	21	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	25	PPM	LCS	01-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	29	PPM	LCS	01-JUL-97		EDXRF
L971344-28	12-JUN-97	EP-70RD	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	42	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.2	%	LCS	01-JUL-97		EDXRF
			PB	22	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	<10	PPM	LCS	01-JUL-97		EDXRF

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Water and Solid Waste (Project 3220)

Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-29	12-JUN-97	EP-70RE	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	22	PPM	LCS	01-JUL-97		EDXRF
			FE	0.9	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	<10	PPM	LCS	01-JUL-97		EDXRF
L971344-30	12-JUN-97	EP-70RF	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	67	PPM	LCS	01-JUL-97		EDXRF
			CU	13	PPM	LCS	01-JUL-97		EDXRF
			FE	2.3	%	LCS	01-JUL-97		EDXRF
			PB	27	PPM	LCS	01-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	56	PPM	LCS	01-JUL-97		EDXRF
L971344-31	12-JUN-97	EP-70RG	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	52	PPM	LCS	01-JUL-97		EDXRF
			CU	14	PPM	LCS	01-JUL-97		EDXRF
			FE	2.1	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			PH	9.2	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-32	12-JUN-97	EP-70RH	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	77	PPM	LCS	01-JUL-97		EDXRF
			CU	68	PPM	LCS	01-JUL-97		EDXRF
			FE	2.9	%	LCS	01-JUL-97		EDXRF
			PB	45	PPM	LCS	01-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	110	PPM	LCS	01-JUL-97		EDXRF

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El Paso

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-33	12-JUN-97	EP-70RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	110	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	12	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	53	PPM	LCS	01-JUL-97		EDXRF
L971344-34	12-JUN-97	EP-70RJ	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	65	PPM	LCS	01-JUL-97		EDXRF
L971344-35	12-JUN-97	EP-70RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	16	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	26	PPM	LCS	01-JUL-97		EDXRF
L971344-36	12-JUN-97	EP-70RL	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	55	PPM	LCS	01-JUL-97		EDXRF

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-37	12-JUN-97	EP-70RM	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	33	PPM	LCS	01-JUL-97		EDXRF
L971344-38	12-JUN-97	EP-71RF	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	2.3	%	LCS	01-JUL-97		EDXRF
			PB	19	PPM	LCS	01-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	61	PPM	LCS	01-JUL-97		EDXRF
L971344-39	12-JUN-97	EP-71RG	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	150	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	2.0	%	LCS	01-JUL-97		EDXRF
			PB	29	PPM	LCS	01-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	63	PPM	LCS	01-JUL-97		EDXRF
L971344-40	12-JUN-97	EP-71RH	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	35	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-41	12-JUN-97	EP-71RI	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	57	PPM	LCS	01-JUL-97		EDXRF
			CU	37	PPM	LCS	01-JUL-97		EDXRF
			FE	1.6	%	LCS	01-JUL-97		EDXRF
			PB	11	PPM	LCS	01-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF
L971344-42	12-JUN-97	EP-71RJ	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	200	PPM	LCS	01-JUL-97		EDXRF
			CU	21	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.2	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF
L971344-43	12-JUN-97	EP-71RK	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	81	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.8	%	LCS	01-JUL-97		EDXRF
			PB	13	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	46	PPM	LCS	01-JUL-97		EDXRF
L971344-44	12-JUN-97	EP-71RL	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	46	PPM	LCS	01-JUL-97		EDXRF
			CU	<20	PPM	LCS	01-JUL-97		EDXRF
			FE	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	50	PPM	LCS	01-JUL-97		EDXRF

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Batch No: L971344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971344-45	12-JUN-97	EP-71RL2	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	1.7	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	51	PPM	LCS	01-JUL-97		EDXRF
L971344-46	11-JUN-97	EP-71RD	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	1.8	%	LCS	01-JUL-97		EDXRF
			PB	<10	PPM	LCS	01-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	31	PPM	LCS	01-JUL-97		EDXRF
L971344-47	11-JUN-97	EP-71RE	AS	<20	PPM	LCS	01-JUL-97		EDXRF
			CD	<10	PPM	LCS	01-JUL-97		EDXRF
			CR	39	PPM	LCS	01-JUL-97		EDXRF
			CU	25	PPM	LCS	01-JUL-97		EDXRF
			FE	1.9	%	LCS	01-JUL-97		EDXRF
			PB	20	PPM	LCS	01-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	01-JUL-97		EDXRF
			ZN	38	PPM	LCS	01-JUL-97		EDXRF

Approved

Reviewer

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El Paso

Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-1	12-JUN-97	EP-85A	AS	59	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	58	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	150	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF
L971402-2	12-JUN-97	EP-85B	AS	27	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	78	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	15	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	35	PPM	LCS	07-JUL-97		EDXRF
L971402-3	12-JUN-97	EP-85C	AS	22	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	63	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	27	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	26	PPM	LCS	07-JUL-97		EDXRF
L971402-4	12-JUN-97	EP-85D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	32	PPM	LCS	07-JUL-97		EDXRF
			PH	9.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	99	PPM	LCS	07-JUL-97		EDXRF

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Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-5	13-JUN-97	EP-86A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	87	PPM	LCS	07-JUL-97		EDXRF
			PH	8.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-6	13-JUN-97	EP-86B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	33	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	100	PPM	LCS	07-JUL-97		EDXRF
L971402-7	13-JUN-97	EP-86C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	31	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	57	PPM	LCS	07-JUL-97		EDXRF
L971402-8	13-JUN-97	EP-86D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	42	PPM	LCS	07-JUL-97		EDXRF
			FE	2.2	%	LCS	07-JUL-97		EDXRF
			PB	48	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	85	PPM	LCS	07-JUL-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971402-9	13-JUN-97	EP-86E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	39	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.6	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	63	PPM	LCS	07-JUL-97		EDXRF
L971402-10	13-JUN-97	EP-86F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	26	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	52	PPM	LCS	07-JUL-97		EDXRF
L971402-11	13-JUN-97	EP-86G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	25	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-12	13-JUN-97	EP-86H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	22	PPM	LCS	07-JUL-97		EDXRF
			FE	0.9	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	33	PPM	LCS	07-JUL-97		EDXRF

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L971402-13	13-JUN-97	EP-86I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	16	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	23	PPM	LCS	07-JUL-97		EDXRF
L971402-14	13-JUN-97	EP-86J	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	35	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	17	PPM	LCS	07-JUL-97		EDXRF
			PH	10.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	25	PPM	LCS	07-JUL-97		EDXRF
L971402-15	13-JUN-97	EP-86K	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	0.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-16	13-JUN-97	EP-86L	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	41	PPM	LCS	07-JUL-97		EDXRF

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L971402-17	13-JUN-97	EP-86M	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	36	PPM	LCS	07-JUL-97		EDXRF
L971402-18	13-JUN-97	EP-86M2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.5	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.8	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	18	PPM	LCS	07-JUL-97		EDXRF
L971402-19	16-JUN-97	EP-87A	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	86	PPM	LCS	07-JUL-97		EDXRF
			CU	20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-20	16-JUN-97	EP-87B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	41	PPM	LCS	07-JUL-97		EDXRF
			FE	1.4	%	LCS	07-JUL-97		EDXRF
			PB	54	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF

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L971402-21	16-JUN-97	EP-87C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	11	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97	9045	
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	19	PPM	LCS	07-JUL-97		EDXRF
L971402-22	16-JUN-97	EP-88A	AS	550	PPM	LCS	07-JUL-97		EDXRF
			CD	150	PPM	LCS	07-JUL-97		EDXRF
			CR	200	PPM	LCS	07-JUL-97		EDXRF
			CU	5600	PPM	LCS	07-JUL-97		EDXRF
			FE	2.1	%	LCS	07-JUL-97		EDXRF
			PB	3600	PPM	LCS	07-JUL-97		EDXRF
			PH	8.3	pH	DK	16-JUL-97	9045	
			SE	23	PPM	LCS	07-JUL-97		EDXRF
			ZN	3100	PPM	LCS	07-JUL-97		EDXRF
L971402-23	16-JUN-97	EP-88B	AS	50	PPM	LCS	07-JUL-97		EDXRF
			CD	120	PPM	LCS	07-JUL-97		EDXRF
			CR	120	PPM	LCS	07-JUL-97		EDXRF
			CU	2200	PPM	LCS	07-JUL-97		EDXRF
			FE	3.3	%	LCS	07-JUL-97		EDXRF
			PB	2700	PPM	LCS	07-JUL-97		EDXRF
			PH	8.0	pH	DK	16-JUL-97	9045	
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	3200	PPM	LCS	07-JUL-97		EDXRF
L971402-24	16-JUN-97	EP-88C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	59	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.4	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97	9045	
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	54	PPM	LCS	07-JUL-97		EDXRF

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L971402-25	16-JUN-97	EP-88C2	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-26	16-JUN-97	EP-88D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	55	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	3.0	%	LCS	07-JUL-97		EDXRF
			PB	35	PPM	LCS	07-JUL-97		EDXRF
			PH	9.3	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	95	PPM	LCS	07-JUL-97		EDXRF
L971402-27	16-JUN-97	EP-88E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	76	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	58	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	55	PPM	LCS	07-JUL-97		EDXRF
L971402-28	16-JUN-97	EP-88F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	36	PPM	LCS	07-JUL-97		EDXRF
			FE	2.8	%	LCS	07-JUL-97		EDXRF
			PB	19	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	49	PPM	LCS	07-JUL-97		EDXRF

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L971402-29	16-JUN-97	EP-88G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	100	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	18	PPM	LCS	07-JUL-97		EDXRF
			PH	9.7	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	68	PPM	LCS	07-JUL-97		EDXRF
L971402-30	16-JUN-97	EP-88H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	70	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.8	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.5	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF
L971402-31	18-JUN-97	EP-89A	AS	34	PPM	LCS	07-JUL-97		EDXRF
			CD	110	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	4900	PPM	LCS	07-JUL-97		EDXRF
			FE	2.7	%	LCS	07-JUL-97		EDXRF
			PB	9600	PPM	LCS	07-JUL-97		EDXRF
			PH	7.8	pH	DK	16-JUL-97		9045
			SE	20	PPM	LCS	07-JUL-97		EDXRF
			ZN	4100	PPM	LCS	07-JUL-97		EDXRF
L971402-32	18-JUN-97	EP-89B	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	48	PPM	LCS	07-JUL-97		EDXRF
			CU	25	PPM	LCS	07-JUL-97		EDXRF
			FE	2.3	%	LCS	07-JUL-97		EDXRF
			PB	42	PPM	LCS	07-JUL-97		EDXRF
			PH	8.4	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	78	PPM	LCS	07-JUL-97		EDXRF

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L971402-33	18-JUN-97	EP-89C	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	160	PPM	LCS	07-JUL-97		EDXRF
			FE	3.2	%	LCS	07-JUL-97		EDXRF
			PB	180	PPM	LCS	07-JUL-97		EDXRF
			PH	IS	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	200	PPM	LCS	07-JUL-97		EDXRF
L971402-34	18-JUN-97	EP-89D	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	75	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	2.5	%	LCS	07-JUL-97		EDXRF
			PB	22	PPM	LCS	07-JUL-97		EDXRF
			PH	IS	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	56	PPM	LCS	07-JUL-97		EDXRF
L971402-35	18-JUN-97	EP-89E	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	54	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.9	%	LCS	07-JUL-97		EDXRF
			PB	39	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	72	PPM	LCS	07-JUL-97		EDXRF
L971402-36	18-JUN-97	EP-89F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	<30	PPM	LCS	07-JUL-97		EDXRF
			CU	38	PPM	LCS	07-JUL-97		EDXRF
			FE	2.0	%	LCS	07-JUL-97		EDXRF
			PB	92	PPM	LCS	07-JUL-97		EDXRF
			PH	8.9	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	180	PPM	LCS	07-JUL-97		EDXRF

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L971402-37	18-JUN-97	EP-89G	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	91	PPM	LCS	07-JUL-97		EDXRF
			CU	30	PPM	LCS	07-JUL-97		EDXRF
			FE	1.7	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	61	PPM	LCS	07-JUL-97		EDXRF
L971402-38	18-JUN-97	EP-89H	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	46	PPM	LCS	07-JUL-97		EDXRF
			CU	33	PPM	LCS	07-JUL-97		EDXRF
			FE	1.3	%	LCS	07-JUL-97		EDXRF
			PB	44	PPM	LCS	07-JUL-97		EDXRF
			PH	9.1	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	65	PPM	LCS	07-JUL-97		EDXRF
L971402-39	18-JUN-97	EP-89I	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	88	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.2	%	LCS	07-JUL-97		EDXRF
			PB	14	PPM	LCS	07-JUL-97		EDXRF
			PH	9.6	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	32	PPM	LCS	07-JUL-97		EDXRF
L971402-40	18-JUN-97	EP-73F	AS	<20	PPM	LCS	07-JUL-97		EDXRF
			CD	<10	PPM	LCS	07-JUL-97		EDXRF
			CR	43	PPM	LCS	07-JUL-97		EDXRF
			CU	<20	PPM	LCS	07-JUL-97		EDXRF
			FE	1.1	%	LCS	07-JUL-97		EDXRF
			PB	<10	PPM	LCS	07-JUL-97		EDXRF
			PH	9.0	pH	DK	16-JUL-97		9045
			SE	<10	PPM	LCS	07-JUL-97		EDXRF
			ZN	42	PPM	LCS	07-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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Approved
Vince Keller
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971096

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971096-3		Laboratory Control	ERA 9973	PH	100	% RECOVERY DK	16-JUL-97	9045	
WG971096-4		Duplicate	L971402-1	PH	1	% RPD DK	16-JUL-97	9045	
WG971096-9		Duplicate	L971402-20	PH	<1	% RPD DK	16-JUL-97	9045	
WG971096-11		Duplicate	L971402-40	PH	2	% RPD DK	16-JUL-97	9045	


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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971099

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971099-3		Laboratory Control	LCS 9973	PH	100	% RECOVERY	MM	22-JUL-97	9045	
WG971099-4		Duplicate	L971545-1	PH	<1	% RPD	MM	22-JUL-97	9045	
WG971099-8		Laboratory Control	LCS 9973	PH	100	% RECOVERY	MM	22-JUL-97	9045	
WG971099-9		Duplicate	L971545-21	PH	<1	% RPD	MM	22-JUL-97	9045	


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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971095

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971095-3		Laboratory Control	ERA 9973	PH	100	% RECOVERY DK	15-JUL-97	9045	
WG971095-4		Duplicate	L971325-20	PH	1	% RPD DK	15-JUL-97	9045	


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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971098

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971098-3		Laboratory Control	ERA 9973	PH	100	% RECOVERY	DK	17-JUL-97	9045	
WG971098-4		Duplicate	L971637-1	PH	1	% RPD	DK	17-JUL-97	9045	
WG971098-9		Duplicate	L971637-20	PH	<1	% RPD	DK	17-JUL-97	9045	


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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971097

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971097-3		Laboratory Control	ERA 9973	PH	99	% RECOVERY	DK	16-JUL-97	9045	
WG971097-4		Duplicate	L971344-1	PH	1	% RPD	DK	16-JUL-97	9045	
WG971097-9		Duplicate	L971344-22	PH	<1	% RPD	DK	16-JUL-97	9045	
WG971097-14		Duplicate	L971344-40	PH	1	% RPD	DK	16-JUL-97	9045	


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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-1	19-JUN-97	RIBH-1A	AS	4400	PPM	LCS	17-JUL-97		EDXRF
			CD	2100	PPM	LCS	17-JUL-97		EDXRF
			CR	190	PPM	LCS	17-JUL-97		EDXRF
			CU	4000	PPM	LCS	17-JUL-97		EDXRF
			FE	13	%	LCS	17-JUL-97		EDXRF
			PB	11000	PPM	LCS	17-JUL-97		EDXRF
			PH	7.9	pH	MM	22-JUL-97		9045
			SE	20	PPM	LCS	17-JUL-97		EDXRF
			ZN	16000	PPM	LCS	17-JUL-97		EDXRF
L971545-2	19-JUN-97	RIBH-1B	AS	1400	PPM	LCS	17-JUL-97		EDXRF
			CD	660	PPM	LCS	17-JUL-97		EDXRF
			CR	170	PPM	LCS	17-JUL-97		EDXRF
			CU	1200	PPM	LCS	17-JUL-97		EDXRF
			FE	4.1	%	LCS	17-JUL-97		EDXRF
			PB	2200	PPM	LCS	17-JUL-97		EDXRF
			PH	1S	pH	MM	22-JUL-97		9045
			SE	13	PPM	LCS	17-JUL-97		EDXRF
			ZN	4200	PPM	LCS	17-JUL-97		EDXRF
L971545-3	19-JUN-97	RIBH-1C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	11	PPM	LCS	17-JUL-97		EDXRF
			CR	89	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	36	PPM	LCS	17-JUL-97		EDXRF
			PH	8.5	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	83	PPM	LCS	17-JUL-97		EDXRF
L971545-4	19-JUN-97	RIBH-1D	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	92	PPM	LCS	17-JUL-97		EDXRF
			CU	26	PPM	LCS	17-JUL-97		EDXRF
			FE	1.1	%	LCS	17-JUL-97		EDXRF
			PB	67	PPM	LCS	17-JUL-97		EDXRF
			PH	9.0	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	110	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-5	19-JUN-97	RIBH-1E	AS	23	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	52	PPM	LCS	17-JUL-97		EDXRF
			CU	39	PPM	LCS	17-JUL-97		EDXRF
			FE	1.2	%	LCS	17-JUL-97		EDXRF
			PB	20	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	64	PPM	LCS	17-JUL-97		EDXRF
L971545-6	19-JUN-97	RIBH-1E2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	33	PPM	LCS	17-JUL-97		EDXRF
			CU	24	PPM	LCS	17-JUL-97		EDXRF
			FE	1.2	%	LCS	17-JUL-97		EDXRF
			PB	24	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	140	PPM	LCS	17-JUL-97		EDXRF
L971545-7	19-JUN-97	RIBH-1F	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	51	PPM	LCS	17-JUL-97		EDXRF
			CU	130	PPM	LCS	17-JUL-97		EDXRF
			FE	2.0	%	LCS	17-JUL-97		EDXRF
			PB	320	PPM	LCS	17-JUL-97		EDXRF
			PH	9.5	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	310	PPM	LCS	17-JUL-97		EDXRF
L971545-8	30-JUN-97	RIBH-2A	AS	82	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	100	PPM	LCS	17-JUL-97		EDXRF
			CU	44	PPM	LCS	17-JUL-97		EDXRF
			FE	5.0	%	LCS	17-JUL-97		EDXRF
			PB	39	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	280	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-9	30-JUN-97	RIBH-2B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	37	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.4	%	LCS	17-JUL-97		EDXRF
			PB	29	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	35	PPM	LCS	17-JUL-97		EDXRF
L971545-10	30-JUN-97	RIBH-2C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	31	PPM	LCS	17-JUL-97		EDXRF
			FE	1.6	%	LCS	17-JUL-97		EDXRF
			PB	26	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	85	PPM	LCS	17-JUL-97		EDXRF
L971545-11	30-JUN-97	RIBH-3A	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	120	PPM	LCS	17-JUL-97		EDXRF
			FE	3.3	%	LCS	17-JUL-97		EDXRF
			PB	800	PPM	LCS	17-JUL-97		EDXRF
			PH	8.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1200	PPM	LCS	17-JUL-97		EDXRF
L971545-12	30-JUN-97	RIBH-3A2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	150	PPM	LCS	17-JUL-97		EDXRF
			FE	2.6	%	LCS	17-JUL-97		EDXRF
			PB	800	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1300	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-13	30-JUN-97	RIBH-3B	AS	25	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	33	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	20	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	75	PPM	LCS	17-JUL-97		EDXRF
L971545-14	30-JUN-97	RIBH-3C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	64	PPM	LCS	17-JUL-97		EDXRF
			FE	2.4	%	LCS	17-JUL-97		EDXRF
			PB	44	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	90	PPM	LCS	17-JUL-97		EDXRF
L971545-15	30-JUN-97	RIBH-4A	AS	280	PPM	LCS	17-JUL-97		EDXRF
			CD	24	PPM	LCS	17-JUL-97		EDXRF
			CR	120	PPM	LCS	17-JUL-97		EDXRF
			CU	2100	PPM	LCS	17-JUL-97		EDXRF
			FE	6.0	%	LCS	17-JUL-97		EDXRF
			PB	970	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	4700	PPM	LCS	17-JUL-97		EDXRF
L971545-16	30-JUN-97	RIBH-4B	AS	29	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	91	PPM	LCS	17-JUL-97		EDXRF
			CU	54	PPM	LCS	17-JUL-97		EDXRF
			FE	2.1	%	LCS	17-JUL-97		EDXRF
			PB	140	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	540	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-17	30-JUN-97	RIBH-4C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	23	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	25	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	27	PPM	LCS	17-JUL-97		EDXRF
L971545-18	30-JUN-97	RIBH-5A	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	46	PPM	LCS	17-JUL-97		EDXRF
			CU	310	PPM	LCS	17-JUL-97		EDXRF
			FE	2.7	%	LCS	17-JUL-97		EDXRF
			PB	210	PPM	LCS	17-JUL-97		EDXRF
			PH	8.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1600	PPM	LCS	17-JUL-97		EDXRF
L971545-19	30-JUN-97	RIBH-5B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	82	PPM	LCS	17-JUL-97		EDXRF
			CU	24	PPM	LCS	17-JUL-97		EDXRF
			FE	1.6	%	LCS	17-JUL-97		EDXRF
			PB	17	PPM	LCS	17-JUL-97		EDXRF
			PH	9.4	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	36	PPM	LCS	17-JUL-97		EDXRF
L971545-20	30-JUN-97	RIBH-5B2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	59	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	19	PPM	LCS	17-JUL-97		EDXRF
			PH	9.4	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	25	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-21	30-JUN-97	RIBH-5C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	32	PPM	LCS	17-JUL-97		EDXRF
			CU	25	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	30	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	42	PPM	LCS	17-JUL-97		EDXRF
L971545-22	30-JUN-97	RIBH-5D	AS	34	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	17	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	22	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	59	PPM	LCS	17-JUL-97		EDXRF
L971545-23	30-JUN-97	RIBH-5E	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	48	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	33	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	54	PPM	LCS	17-JUL-97		EDXRF
L971545-24	30-JUN-97	RIBH-6A	AS	270	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	150	PPM	LCS	17-JUL-97		EDXRF
			CU	1800	PPM	LCS	17-JUL-97		EDXRF
			FE	9.6	%	LCS	17-JUL-97		EDXRF
			PB	830	PPM	LCS	17-JUL-97		EDXRF
			PH	9.7	pH	MM	22-JUL-97		9045
			SE	15	PPM	LCS	17-JUL-97		EDXRF
			ZN	6500	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-25	01-JUL-97	RIBH-7A	AS	53	PPM	LCS	17-JUL-97		EDXRF
			CD	28	PPM	LCS	17-JUL-97		EDXRF
			CR	130	PPM	LCS	17-JUL-97		EDXRF
			CU	1500	PPM	LCS	17-JUL-97		EDXRF
			FE	2.1	%	LCS	17-JUL-97		EDXRF
			PB	1000	PPM	LCS	17-JUL-97		EDXRF
			PH	8.0	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	780	PPM	LCS	17-JUL-97		EDXRF
L971545-26	01-JUL-97	RIBH-7B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	89	PPM	LCS	17-JUL-97		EDXRF
			CU	55	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	19	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	47	PPM	LCS	17-JUL-97		EDXRF
L971545-27	01-JUL-97	RIBH-7C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	74	PPM	LCS	17-JUL-97		EDXRF
			CU	31	PPM	LCS	17-JUL-97		EDXRF
			FE	2.3	%	LCS	17-JUL-97		EDXRF
			PB	24	PPM	LCS	17-JUL-97		EDXRF
			PH	8.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	71	PPM	LCS	17-JUL-97		EDXRF
L971545-28	01-JUL-97	RIBH-8A	AS	120	PPM	LCS	17-JUL-97		EDXRF
			CD	120	PPM	LCS	17-JUL-97		EDXRF
			CR	63	PPM	LCS	17-JUL-97		EDXRF
			CU	3800	PPM	LCS	17-JUL-97		EDXRF
			FE	2.2	%	LCS	17-JUL-97		EDXRF
			PB	3300	PPM	LCS	17-JUL-97		EDXRF
			PH	7.5	pH	MM	22-JUL-97		9045
			SE	14	PPM	LCS	17-JUL-97		EDXRF
			ZN	3100	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-29	01-JUL-97	RIBH-8B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	31	PPM	LCS	17-JUL-97		EDXRF
			CU	22	PPM	LCS	17-JUL-97		EDXRF
			FE	1.6	%	LCS	17-JUL-97		EDXRF
			PB	29	PPM	LCS	17-JUL-97		EDXRF
			PH	9.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	35	PPM	LCS	17-JUL-97		EDXRF
L971545-30	01-JUL-97	RIBH-8C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	64	PPM	LCS	17-JUL-97		EDXRF
			CU	27	PPM	LCS	17-JUL-97		EDXRF
			FE	2.0	%	LCS	17-JUL-97		EDXRF
			PB	17	PPM	LCS	17-JUL-97		EDXRF
			PH	9.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	48	PPM	LCS	17-JUL-97		EDXRF
L971545-31	01-JUL-97	RIBH-8C2	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	32	PPM	LCS	17-JUL-97		EDXRF
			CU	29	PPM	LCS	17-JUL-97		EDXRF
			FE	1.9	%	LCS	17-JUL-97		EDXRF
			PB	16	PPM	LCS	17-JUL-97		EDXRF
			PH	9.1	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	53	PPM	LCS	17-JUL-97		EDXRF
L971545-32	01-JUL-97	RIBH-9A	AS	63	PPM	LCS	17-JUL-97		EDXRF
			CD	46	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	1600	PPM	LCS	17-JUL-97		EDXRF
			FE	2.3	%	LCS	17-JUL-97		EDXRF
			PB	1100	PPM	LCS	17-JUL-97		EDXRF
			PH	7.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	1500	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-33	01-JUL-97	RIBH-9B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	80	PPM	LCS	17-JUL-97		EDXRF
			CU	22	PPM	LCS	17-JUL-97		EDXRF
			FE	1.5	%	LCS	17-JUL-97		EDXRF
			PB	11	PPM	LCS	17-JUL-97		EDXRF
			PH	8.9	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	30	PPM	LCS	17-JUL-97		EDXRF
L971545-34	01-JUL-97	RIBH-9C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	31	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	33	PPM	LCS	17-JUL-97		EDXRF
			PH	8.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	31	PPM	LCS	17-JUL-97		EDXRF
L971545-35	01-JUL-97	RIBH-10A	AS	46	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	760	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	400	PPM	LCS	17-JUL-97		EDXRF
			PH	8.2	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	360	PPM	LCS	17-JUL-97		EDXRF
L971545-36	01-JUL-97	RIBH-10A2	AS	28	PPM	LCS	17-JUL-97		EDXRF
			CD	20	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	690	PPM	LCS	17-JUL-97		EDXRF
			FE	1.8	%	LCS	17-JUL-97		EDXRF
			PB	340	PPM	LCS	17-JUL-97		EDXRF
			PH	8.3	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	310	PPM	LCS	17-JUL-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971545

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971545-37	01-JUL-97	RIBH-10B	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	<30	PPM	LCS	17-JUL-97		EDXRF
			CU	85	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	40	PPM	LCS	17-JUL-97		EDXRF
			PH	IS	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	61	PPM	LCS	17-JUL-97		EDXRF
L971545-38	01-JUL-97	RIBH-10C	AS	<20	PPM	LCS	17-JUL-97		EDXRF
			CD	<10	PPM	LCS	17-JUL-97		EDXRF
			CR	72	PPM	LCS	17-JUL-97		EDXRF
			CU	<20	PPM	LCS	17-JUL-97		EDXRF
			FE	1.7	%	LCS	17-JUL-97		EDXRF
			PB	21	PPM	LCS	17-JUL-97		EDXRF
			PH	8.8	pH	MM	22-JUL-97		9045
			SE	<10	PPM	LCS	17-JUL-97		EDXRF
			ZN	25	PPM	LCS	17-JUL-97		EDXRF

IS=INSUFFICIENT SAMPLE

Approved

Reviewer

ASARCO

HYDROMETRICS, INC.

August 8, 1997

AUG 13 1997

RECEIVED

Mr. Lairy Johnson
HYDROMETRICS
El Paso

Please find attached the analytical results for seven samples collected on June 19 through July 08, 1997 from the ASARCO El Paso Plant Site.

The samples were digested according to EPA method SW 846, method 3050 and results are reported on a dry weight basis.

The samples were received by the laboratory on July 25, 1997.

Sincerely,

Milan Mraz
Milan Mraz
Chemist

VPK/mo
Attach.

cc: JVanek (w/attach.)
GRStanga "

7134.502.100



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971749

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971749-1	19-JUN-97	RIBH-1A	Resub. (L971545-1)	AS	2310.	ppm	MM	01-AUG-97	6010	
				CD	1462.	ppm	MM	01-AUG-97	6010	
				CR	62.	ppm	MM	01-AUG-97	6010	
				CU	2911.	ppm	MM	01-AUG-97	6010	
				FE	75130.	ppm	MM	01-AUG-97	6010	
				PB	7809.	ppm	MM	01-AUG-97	6010	
				SE	33.	ppm	MM	01-AUG-97	6010	
				ZN	10800.	ppm	MM	01-AUG-97	7950	
L971749-2	30-JUN-97	RIBH-3A	Resub. (L971545-11)	AS	38.	ppm	MM	01-AUG-97	6010	
				CD	<5.0	ppm	MM	01-AUG-97	6010	
				CR	16.	ppm	MM	01-AUG-97	6010	
				CU	148.	ppm	MM	01-AUG-97	6010	
				FE	24450.	ppm	MM	01-AUG-97	6010	
				PB	769.	ppm	MM	01-AUG-97	6010	
				SE	<10.	ppm	MM	01-AUG-97	6010	
				ZN	1410.	ppm	MM	01-AUG-97	7950	
L971749-3	30-JUN-97	RIBH-5A	Resub. (L971545-18)	AS	<10.	ppm	MM	01-AUG-97	6010	
				CD	5.5	ppm	MM	01-AUG-97	6010	
				CR	15.	ppm	MM	01-AUG-97	6010	
				CU	298.	ppm	MM	01-AUG-97	6010	
				FE	19430.	ppm	MM	01-AUG-97	6010	
				PB	210.	ppm	MM	01-AUG-97	6010	
				SE	<10.	ppm	MM	01-AUG-97	6010	
				ZN	2140.	ppm	MM	01-AUG-97	7950	
L971749-4	01-JUL-97	RIBH-10C	Resub. (L971545-38)	AS	<10.	ppm	MM	01-AUG-97	6010	
				CD	<5.0	ppm	MM	01-AUG-97	6010	
				CR	<10.	ppm	MM	01-AUG-97	6010	
				CU	20.	ppm	MM	01-AUG-97	6010	
				FE	8455.	ppm	MM	01-AUG-97	6010	
				PB	<10.	ppm	MM	01-AUG-97	6010	
				SE	<10.	ppm	MM	01-AUG-97	6010	
				ZN	18.	ppm	MM	01-AUG-97	7950	
L971749-5	08-JUL-97	SS1A5-9B	Resub. (L971637-19)	AS	<10.	ppm	MM	01-AUG-97	6010	
				CD	<5.0	ppm	MM	01-AUG-97	6010	
				CR	12.	ppm	MM	01-AUG-97	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L971749

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971749-5	08-JUL-97	SS1A5-9B	Resub. (L971637-19)						
			CU	190.	ppm	MM	01-AUG-97	6010	
			FE	9766.	ppm	MM	01-AUG-97	6010	
			PB	66.	ppm	MM	01-AUG-97	6010	
			SE	<10.	ppm	MM	01-AUG-97	6010	
L971749-6	08-JUL-97	SS1A5-3B	Resub. (L971637-6)						
			ZN	61.	ppm	MM	01-AUG-97	7950	
			AS	54.	ppm	MM	01-AUG-97	6010	
			CD	15.	ppm	MM	01-AUG-97	6010	
			CR	14.	ppm	MM	01-AUG-97	6010	
L971749-7	08-JUL-97	SS1A5-9A	Resub. (L971637-18)						
			CU	1058.	ppm	MM	01-AUG-97	6010	
			FE	11980.	ppm	MM	01-AUG-97	6010	
			PB	667.	ppm	MM	01-AUG-97	6010	
			SE	<10.	ppm	MM	01-AUG-97	6010	
			ZN	470.	ppm	MM	01-AUG-97	7950	
			AS	75.	ppm	MM	01-AUG-97	6010	
			CD	23.	ppm	MM	01-AUG-97	6010	
			CR	13.	ppm	MM	01-AUG-97	6010	
			CU	2225.	ppm	MM	01-AUG-97	6010	
			FE	13770.	ppm	MM	01-AUG-97	6010	
			PB	587.	ppm	MM	01-AUG-97	6010	
			SE	<10.	ppm	MM	01-AUG-97	6010	
			ZN	580.	ppm	MM	01-AUG-97	7950	

Approved

Reviewed

ASARCO TECHNICAL SERVICES CENTER



ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971187

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971187-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	10.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				7950


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971187

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971187-1		Matrix Spike	AS	91.	% RECOVERY	MM	01-AUG-97	6010	
			CD	88.	% RECOVERY	MM	01-AUG-97	6010	
			CR	100.	% RECOVERY	MM	01-AUG-97	6010	
			CU	98.	% RECOVERY	MM	01-AUG-97	6010	
			FE	SR>4XSA	% RECOVERY	MM	01-AUG-97	6010	
			PB	92.	% RECOVERY	MM	01-AUG-97	6010	
			SE	97.	% RECOVERY	MM	01-AUG-97	6010	
			ZN	95.	% RECOVERY	MM	01-AUG-97	7950	
WG971187-2		Prep Blank	AS	<10.	ppm	MM	01-AUG-97	6010	
			CD	<5.0	ppm	MM	01-AUG-97	6010	
			CR	<10.	ppm	MM	01-AUG-97	6010	
			CU	<10.	ppm	MM	01-AUG-97	6010	
			FE	<10.	ppm	MM	01-AUG-97	6010	
			PB	<10.	ppm	MM	01-AUG-97	6010	
			SE	<10.	ppm	MM	01-AUG-97	6010	
			ZN	<5.0	ppm	MM	01-AUG-97	7950	
WG971187-3		Laboratory Control	AS	80.	% RECOVERY	MM	01-AUG-97	6010	
			CD	74.	% RECOVERY	MM	01-AUG-97	6010	
			CR	92.	% RECOVERY	MM	01-AUG-97	6010	
			CU	113.	% RECOVERY	MM	01-AUG-97	6010	
			FE	112.	% RECOVERY	MM	01-AUG-97	6010	
			PB	79.	% RECOVERY	MM	01-AUG-97	6010	
			SE	91.	% RECOVERY	MM	01-AUG-97	6010	
			ZN	91.	% RECOVERY	MM	01-AUG-97	7950	
WG971187-4		Duplicate	AS	<1.0	% RPD	MM	01-AUG-97	6010	
			CD	2.8	% RPD	MM	01-AUG-97	6010	
			CR	-5.8	% RPD	MM	01-AUG-97	6010	
			CU	-1.9	% RPD	MM	01-AUG-97	6010	
			FE	<1.0	% RPD	MM	01-AUG-97	6010	
			PB	2.0	% RPD	MM	01-AUG-97	6010	
			SE	2.1	% RPD	MM	01-AUG-97	6010	
			ZN	3.5	% RPD	MM	01-AUG-97	7950	
WG971187-5		Detection Limit	AS	10.	ppm			6010	
			CD	5.0	ppm			6010	
			CR	10.	ppm			6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971187

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971187-5		Detection Limit	CU	10.	ppm				6010
			FE	10.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				7950

Approved

Reviewer

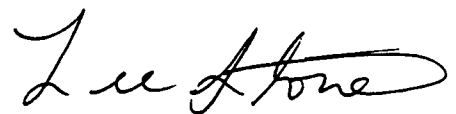
ASARCO

Aug. 18, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray results for your El Paso soil samples received on the 27th of June and on the 18th of July 1997. Also attached are the Q C results for this set . An amended report will follow containing pH values.

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



Lee Stone
Senior Analytical
Chemist

cc: CRStanga (w\attach)
JVanek “



Q C FOR ELPASO SOILS L971680

CCV 30651-58

GIVEN

FOUND

PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
	12	420		18	8062		27400
505	11	223	981	15	7443	23	28664
517	15	322	1155	15	7516	17	28317
436	21	404	997	15	7452	16	28672
543	18	385	1066	15	7440	14	28148
426	10	314	1051	15	7418	<10	28187
480	21	350	980	15	7429	<10	28488
464	15	303	1061	15	7432	<10	28028
406	15	336	1061	15	7449	11	28370
476	21	433	925	15	7520	13	28402

LCS BRS2704

GIVEN

FOUND

23.4	3.45	135	98.6	4.4	161		438
<20	<10	113	120	4.5	207	<10	501
<20	<10	84	137	4.4	192	<10	500

LCS SO-1

GIVEN

FOUND

		160	61	6	21		146
<20	<10	109	69	6.3	15	<10	160
<20	<10	116	95	6.2	18	<10	141

DUPLICATES

	PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
L971680-25	952	251	285	8401	8.8	4785	14	8934
DUP680-25	1032	270	256	8250	8.7	4663	21	8645
%DIFF	8	7	11	2	1	3	40	3
L971680-40	<20	<10	32	39	1.7	34	<10	59
DUP680-40	<20	<10	<30	31	1.7	36	<10	39
%DIFF				23	0	6		41
L971680-80	<20	12	90	303	2.2	277	<10	179
DUP680-80	<20	<10	<30	325	2.1	296	<10	178
%DIFF				7	5	7		1
L971680-88	710	254	26	1401	2.0	1329	12	908
DUP680-88	741	253	<30	1338	2.0	1268	11	935
%DIFF	4	0		5	0	5	9	3

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		92	53		83	92		105
		125	77		83	93		103
		175	96		83	92		105
		150	92		83	92		103
		83	75		83	92		103
		175	83		83	92		104
		125	72		83	92		102
		125	80		83	92		104
		175	103		83	93		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			84	122	102	129		114
			62	139	100	119		114

LCS SO-1

GIVEN		160PPM	61PPM	6%	21PPM		146PPM
% RECOV		68	113	105	71		110
		73	156	103	86		97

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L971680-1	15-JUL-97	SS1A1-1A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1900	PPM	LCS	13-AUG-97		EDXRF
			CR	62	PPM	LCS	13-AUG-97		EDXRF
			CU	13000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			SE	190	PPM	LCS	13-AUG-97		EDXRF
			ZN	7000	PPM	LCS	13-AUG-97		EDXRF
L971680-2	15-JUL-97	SS1A1-1B	AS	2300	PPM	LCS	13-AUG-97		EDXRF
			CD	91	PPM	LCS	13-AUG-97		EDXRF
			CR	330	PPM	LCS	13-AUG-97		EDXRF
			CU	7600	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5000	PPM	LCS	13-AUG-97		EDXRF
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	13000	PPM	LCS	13-AUG-97		EDXRF
L971680-3	15-JUL-97	SS1A1-2A	AS	21000	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	15	%	LCS	13-AUG-97		EDXRF
			SE	1300	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-4	15-JUL-97	SS1A1-2B	AS	22000	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	28000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.6	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			SE	200	PPM	LCS	13-AUG-97		EDXRF
			ZN	4900	PPM	LCS	13-AUG-97		EDXRF
L971680-5	15-JUL-97	SS1A1-3A	AS	2000	PPM	LCS	13-AUG-97		EDXRF
			CD	320	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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L971680-5	15-JUL-97	SS1A1-3A	CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	4100	PPM	LCS	13-AUG-97		EDXRF
			SE	41	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-6	15-JUL-97	SS1A1-3B	AS	4900	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	97	PPM	LCS	13-AUG-97		EDXRF
			CU	37000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	5800	PPM	LCS	13-AUG-97		EDXRF
			SE	36	PPM	LCS	13-AUG-97		EDXRF
			ZN	7200	PPM	LCS	13-AUG-97		EDXRF
L971680-7	15-JUL-97	SS1A1-4A	AS	410	PPM	LCS	13-AUG-97		EDXRF
			CD	88	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-8	15-JUL-97	SS1A1-4B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	6200	PPM	LCS	13-AUG-97		EDXRF
			SE	25	PPM	LCS	13-AUG-97		EDXRF
			ZN	7500	PPM	LCS	13-AUG-97		EDXRF
L971680-9	15-JUL-97	SS1A1-5A1	AS	1800	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	1200	PPM	LCS	13-AUG-97		EDXRF

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L971680-9	15-JUL-97	SS1A1-5A1	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF
L971680-10	15-JUL-97	SS1A1-5A2	AS	1600	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-11	15-JUL-97	SS1A1-5B	AS	220	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	3500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	550	PPM	LCS	13-AUG-97		EDXRF
L971680-12	14-JUL-97	SS1A2-1A	AS	400	PPM	LCS	13-AUG-97		EDXRF
			CD	14	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	7200	PPM	LCS	13-AUG-97		EDXRF
			FE	13	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	10000	PPM	LCS	13-AUG-97		EDXRF
L971680-13	14-JUL-97	SS1A2-1B	AS	1200	PPM	LCS	13-AUG-97		EDXRF
			CD	56	PPM	LCS	13-AUG-97		EDXRF
			CR	340	PPM	LCS	13-AUG-97		EDXRF
			CU	5400	PPM	LCS	13-AUG-97		EDXRF
			FE	19	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			SE	72	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF

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L971680-14	14-JUL-97	SS1A2-2A	AS	840	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	230	PPM	LCS	13-AUG-97		EDXRF
			CU	8800	PPM	LCS	13-AUG-97		EDXRF
			FE	8.5	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			SE	21	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-15	14-JUL-97	SS1A2-2A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	220	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.3	%	LCS	13-AUG-97		EDXRF
			PB	2500	PPM	LCS	13-AUG-97		EDXRF
			SE	23	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-16	14-JUL-97	SS1A3-1A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	510	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	27000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.6	%	LCS	13-AUG-97		EDXRF
			PB	7400	PPM	LCS	13-AUG-97		EDXRF
			SE	56	PPM	LCS	13-AUG-97		EDXRF
			ZN	7600	PPM	LCS	13-AUG-97		EDXRF
L971680-17	14-JUL-97	SS1A3-1B	AS	650	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	6900	PPM	LCS	13-AUG-97		EDXRF
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	17000	PPM	LCS	13-AUG-97		EDXRF
L971680-18	14-JUL-97	SS1A3-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	25	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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L971680-18	14-JUL-97	SS1A3-2A	CU	360	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	220	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-19	14-JUL-97	SS1A3-2B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	430	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	550	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-20	14-JUL-97	SS1A3-3A	AS	480	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	41	PPM	LCS	13-AUG-97		EDXRF
			CU	3600	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	2000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF
L971680-21	14-JUL-97	SS1A3-3B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	72	PPM	LCS	13-AUG-97		EDXRF
			FE	0.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	100	PPM	LCS	13-AUG-97		EDXRF
L971680-22	14-JUL-97	SS1A3-4A	AS	7800	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	7400	PPM	LCS	13-AUG-97		EDXRF
			FE	5.5	%	LCS	13-AUG-97		EDXRF
			PB	7300	PPM	LCS	13-AUG-97		EDXRF

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L971680-22	14-JUL-97	SS1A3-4A	SE	53	PPM	LCS	13-AUG-97		EDXRF
			ZN	9800	PPM	LCS	13-AUG-97		EDXRF
L971680-23	14-JUL-97	SS1A3-4B	AS	3000	PPM	LCS	13-AUG-97		EDXRF
			CD	330	PPM	LCS	13-AUG-97		EDXRF
			CR	300	PPM	LCS	13-AUG-97		EDXRF
			CU	4400	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5600	PPM	LCS	13-AUG-97		EDXRF
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF
L971680-24	15-JUL-97	SS1A3-5A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	280	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	9000	PPM	LCS	13-AUG-97		EDXRF
			FE	9.2	%	LCS	13-AUG-97		EDXRF
			PB	5200	PPM	LCS	13-AUG-97		EDXRF
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	9200	PPM	LCS	13-AUG-97		EDXRF
L971680-25	15-JUL-97	SS1A3-5A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.8	%	LCS	13-AUG-97		EDXRF
			PB	4800	PPM	LCS	13-AUG-97		EDXRF
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	8900	PPM	LCS	13-AUG-97		EDXRF
L971680-26	15-JUL-97	SS1A3-5B	AS	560	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	80	PPM	LCS	13-AUG-97		EDXRF
			CU	3700	PPM	LCS	13-AUG-97		EDXRF
			FE	6.3	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	7300	PPM	LCS	13-AUG-97		EDXRF

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L971680-27	15-JUL-97	SS1A3-6A	AS	2900	PPM	LCS	13-AUG-97		EDXRF
			CD	790	PPM	LCS	13-AUG-97		EDXRF
			CR	260	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-28	15-JUL-97	SS1A3-6B	AS	230	PPM	LCS	13-AUG-97		EDXRF
			CD	67	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1300	PPM	LCS	13-AUG-97		EDXRF
L971680-29	15-JUL-97	SS1A3-7A	AS	820	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	1900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-30	15-JUL-97	SS1A3-7B	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	440	PPM	LCS	13-AUG-97		EDXRF
			CR	1400	PPM	LCS	13-AUG-97		EDXRF
			CU	3900	PPM	LCS	13-AUG-97		EDXRF
			FE	4.5	%	LCS	13-AUG-97		EDXRF
			PB	3700	PPM	LCS	13-AUG-97		EDXRF
			SE	94	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-31	15-JUL-97	SS1A3-8A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF

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L971680-31	15-JUL-97	SS1A3-8A	CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.0	%	LCS	13-AUG-97		EDXRF
			PB	8100	PPM	LCS	13-AUG-97		EDXRF
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	9900	PPM	LCS	13-AUG-97		EDXRF
L971680-32	15-JUL-97	SS1A3-8B	AS	740	PPM	LCS	13-AUG-97		EDXRF
			CD	170	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	3300	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1600	PPM	LCS	13-AUG-97		EDXRF
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF
L971680-33	15-JUL-97	SS1A3-9A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	1400	PPM	LCS	13-AUG-97		EDXRF
			CR	53	PPM	LCS	13-AUG-97		EDXRF
			CU	8500	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	4500	PPM	LCS	13-AUG-97		EDXRF
			SE	33	PPM	LCS	13-AUG-97		EDXRF
			ZN	5500	PPM	LCS	13-AUG-97		EDXRF
L971680-34	15-JUL-97	SS1A3-9B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	340	PPM	LCS	13-AUG-97		EDXRF
			CR	52	PPM	LCS	13-AUG-97		EDXRF
			CU	2700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-35	15-JUL-97	SS1A3-10A	AS	2800	PPM	LCS	13-AUG-97		EDXRF
			CD	360	PPM	LCS	13-AUG-97		EDXRF
			CR	95	PPM	LCS	13-AUG-97		EDXRF
			CU	7900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	19000	PPM	LCS	13-AUG-97		EDXRF

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L971680-35	15-JUL-97	SS1A3-10A	SE	77	PPM	LCS	13-AUG-97		EDXRF
			ZN	4100	PPM	LCS	13-AUG-97		EDXRF
L971680-36	15-JUL-97	SS1A3-10A2	AS	3300	PPM	LCS	13-AUG-97		EDXRF
			CD	410	PPM	LCS	13-AUG-97		EDXRF
			CR	57	PPM	LCS	13-AUG-97		EDXRF
			CU	8900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	22000	PPM	LCS	13-AUG-97		EDXRF
			SE	75	PPM	LCS	13-AUG-97		EDXRF
			ZN	4400	PPM	LCS	13-AUG-97		EDXRF
L971680-37	15-JUL-97	SS1A3-10B	AS	980	PPM	LCS	13-AUG-97		EDXRF
			CD	680	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	4700	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	25000	PPM	LCS	13-AUG-97		EDXRF
			SE	46	PPM	LCS	13-AUG-97		EDXRF
			ZN	15000	PPM	LCS	13-AUG-97		EDXRF
L971680-38	14-JUL-97	SS1H5-15A	AS	86	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	2800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	900	PPM	LCS	13-AUG-97		EDXRF
L971680-39	14-JUL-97	SS1H5-15A2	AS	70	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	2400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	760	PPM	LCS	13-AUG-97		EDXRF

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L971680-40	14-JUL-97	SS1H5-15B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	32	PPM	LCS	13-AUG-97		EDXRF
			CU	39	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	34	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	59	PPM	LCS	13-AUG-97		EDXRF
L971680-41	14-JUL-97	SS1H5-15B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	20	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	38	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	27	PPM	LCS	13-AUG-97		EDXRF
L971680-42	14-JUL-97	SS1A5-16A	AS	27	PPM	LCS	13-AUG-97		EDXRF
			CD	24	PPM	LCS	13-AUG-97		EDXRF
			CR	89	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.2	%	LCS	13-AUG-97		EDXRF
			PB	610	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	650	PPM	LCS	13-AUG-97		EDXRF
L971680-43	14-JUL-97	SS1A5-16A2	AS	68	PPM	LCS	13-AUG-97		EDXRF
			CD	40	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.3	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1000	PPM	LCS	13-AUG-97		EDXRF
L971680-44	14-JUL-97	SS1A5-16B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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L971680-44	14-JUL-97	SS1A5-16B	CU	200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	150	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	190	PPM	LCS	13-AUG-97		EDXRF
L971680-45	14-JUL-97	SS1A5-16B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	51	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	140	PPM	LCS	13-AUG-97		EDXRF
L971680-46	14-JUL-97	SS1A5-17A	AS	83	PPM	LCS	13-AUG-97		EDXRF
			CD	85	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1400	PPM	LCS	13-AUG-97		EDXRF
L971680-47	14-JUL-97	SS1A5-17B	AS	24	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	150	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-48	14-JUL-97	SS1A5-18A	AS	26	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	200	PPM	LCS	13-AUG-97		EDXRF

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L971680-48	14-JUL-97	SS1A5-18A	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF
L971680-49	14-JUL-97	SS1A5-18B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	27	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	15	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	28	PPM	LCS	13-AUG-97		EDXRF
L971680-50	14-JUL-97	SS1A5-19A	AS	160	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	3400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2400	PPM	LCS	13-AUG-97		EDXRF
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3300	PPM	LCS	13-AUG-97		EDXRF
L971680-51	14-JUL-97	SS1A5-19B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	29	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	370	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	310	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF
L971680-52	16-JUL-97	SS1A8-1A	AS	240	PPM	LCS	13-AUG-97		EDXRF
			CD	33	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	44	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF

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L971680-53	16-JUL-97	SS1A8-1B	AS	2100	PPM	LCS	13-AUG-97		EDXRF
			CD	400	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	4300	PPM	LCS	13-AUG-97		EDXRF
			FE	8.6	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	8100	PPM	LCS	13-AUG-97		EDXRF
L971680-54	16-JUL-97	SS1A8-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	35	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	440	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	240	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	510	PPM	LCS	13-AUG-97		EDXRF
L971680-55	16-JUL-97	SS1A8-2B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	530	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	500	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	340	PPM	LCS	13-AUG-97		EDXRF
L971680-56	16-JUL-97	SS1A8-3A	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	660	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			SE	66	PPM	LCS	13-AUG-97		EDXRF
			ZN	4600	PPM	LCS	13-AUG-97		EDXRF
L971680-57	16-JUL-97	SS1A8-3B	AS	170	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	56	PPM	LCS	13-AUG-97		EDXRF

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L971680-57	16-JUL-97	SS1A8-3B	CU	1100	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1800	PPM	LCS	13-AUG-97		EDXRF
L971680-58	16-JUL-97	SS1A8-4A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	660	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	120	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-59	16-JUL-97	SS1A8-4B	AS	3700	PPM	LCS	13-AUG-97		EDXRF
			CD	980	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.1	%	LCS	13-AUG-97		EDXRF
			PB	43000	PPM	LCS	13-AUG-97		EDXRF
			SE	57	PPM	LCS	13-AUG-97		EDXRF
			ZN	21000	PPM	LCS	13-AUG-97		EDXRF
L971680-60	16-JUL-97	SS1A8-5A	AS	53	PPM	LCS	13-AUG-97		EDXRF
			CD	130	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF
L971680-61	16-JUL-97	SS1A8-5B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	130	PPM	LCS	13-AUG-97		EDXRF

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L971680-61	16-JUL-97	SS1A8-5B	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	350	PPM	LCS	13-AUG-97		EDXRF
L971680-62	16-JUL-97	SS1A8-6A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	23	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	370	PPM	LCS	13-AUG-97		EDXRF
L971680-63	16-JUL-97	SS1A8-6A2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	13	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	390	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	680	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	330	PPM	LCS	13-AUG-97		EDXRF
L971680-64	16-JUL-97	SS1A8-6B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	47	PPM	LCS	13-AUG-97		EDXRF
			CR	94	PPM	LCS	13-AUG-97		EDXRF
			CU	520	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF
L971680-65	16-JUL-97	SS1A8-7A	AS	51	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	59	PPM	LCS	13-AUG-97		EDXRF
			CU	980	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	520	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-66	16-JUL-97	SS1A8-7B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	22	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	250	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-67	16-JUL-97	SS1A8-8A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	830	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	770	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1200	PPM	LCS	13-AUG-97		EDXRF
L971680-68	16-JUL-97	SS1A8-8B	AS	39	PPM	LCS	13-AUG-97		EDXRF
			CD	31	PPM	LCS	13-AUG-97		EDXRF
			CR	44	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	1400	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF
L971680-69	16-JUL-97	SS1A8-9A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	310	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	22000	PPM	LCS	13-AUG-97		EDXRF
			FE	5.4	%	LCS	13-AUG-97		EDXRF
			PB	8900	PPM	LCS	13-AUG-97		EDXRF
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	8000	PPM	LCS	13-AUG-97		EDXRF
L971680-70	16-JUL-97	SS1A8-9B	AS	530	PPM	LCS	13-AUG-97		EDXRF
			CD	270	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF

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Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-70	16-JUL-97	SS1A8-9B	CU	7300	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			SE	37	PPM	LCS	13-AUG-97		EDXRF
			ZN	5100	PPM	LCS	13-AUG-97		EDXRF
L971680-71	17-JUL-97	SSENT1-1A	AS	470	PPM	LCS	13-AUG-97		EDXRF
			CD	75	PPM	LCS	13-AUG-97		EDXRF
			CR	69	PPM	LCS	13-AUG-97		EDXRF
			CU	9800	PPM	LCS	13-AUG-97		EDXRF
			FE	5.6	%	LCS	13-AUG-97		EDXRF
			PB	5700	PPM	LCS	13-AUG-97		EDXRF
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	5700	PPM	LCS	13-AUG-97		EDXRF
L971680-72	17-JUL-97	SSENT1-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	43	PPM	LCS	13-AUG-97		EDXRF
			CU	230	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF
L971680-73	17-JUL-97	SSENT2-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	180	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-74	17-JUL-97	SSENT2-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.4	%	LCS	13-AUG-97		EDXRF
			PB	330	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-74	17-JUL-97	SSENT2-B	SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF
L971680-75	17-JUL-97	SSENT3-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	99	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	8100	PPM	LCS	13-AUG-97		EDXRF
			FE	2.7	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3000	PPM	LCS	13-AUG-97		EDXRF
L971680-76	17-JUL-97	SSENT3-B	AS	34	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	160	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	160	PPM	LCS	13-AUG-97		EDXRF
L971680-77	17-JUL-97	SSENT4-A	AS	190	PPM	LCS	13-AUG-97		EDXRF
			CD	80	PPM	LCS	13-AUG-97		EDXRF
			CR	66	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1800	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-78	17-JUL-97	SSENT4-B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	49	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	69	PPM	LCS	13-AUG-97		EDXRF

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Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-79	17-JUL-97	SSENT5-A	AS	750	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	200	PPM	LCS	13-AUG-97		EDXRF
			CU	12000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.1	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-80	17-JUL-97	SSENT5-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	12	PPM	LCS	13-AUG-97		EDXRF
			CR	90	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	280	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	180	PPM	LCS	13-AUG-97		EDXRF
L971680-81	17-JUL-97	SSENT5-B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	210	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	170	PPM	LCS	13-AUG-97		EDXRF
L971680-82	17-JUL-97	SSENT6-A	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	5500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3800	PPM	LCS	13-AUG-97		EDXRF
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	2500	PPM	LCS	13-AUG-97		EDXRF
L971680-83	17-JUL-97	SSENT6-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	34	PPM	LCS	13-AUG-97		EDXRF
			CR	47	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-83	17-JUL-97	SSENT6-B	CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-84	17-JUL-97	SSENT7-A	AS	250	PPM	LCS	13-AUG-97		EDXRF
			CD	93	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	8300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2400	PPM	LCS	13-AUG-97		EDXRF
L971680-85	17-JUL-97	SSENT7-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	33	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	30	PPM	LCS	13-AUG-97		EDXRF
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	41	PPM	LCS	13-AUG-97		EDXRF
L971680-86	17-JUL-97	SSENT8-A	AS	520	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	88	PPM	LCS	13-AUG-97		EDXRF
			CU	5700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3000	PPM	LCS	13-AUG-97		EDXRF
			SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-87	17-JUL-97	SSENT8-A2	AS	450	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	5800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF

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Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-87	17-JUL-97	SSENT8-A2	SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-88	17-JUL-97	SSENT8-B	AS	710	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	1300	PPM	LCS	13-AUG-97		EDXRF
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	910	PPM	LCS	13-AUG-97		EDXRF


Approved
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

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Batch No: L971470

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971470-1		EP-76B2	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	16	PPM	LCS	13-AUG-97		EDXRF
			CR	380	PPM	LCS	13-AUG-97		EDXRF
			CU	5000	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	3500	PPM	LCS	13-AUG-97		EDXRF
			SE	83	PPM	LCS	13-AUG-97		EDXRF
			ZN	11	%	LCS	13-AUG-97		EDXRF



Approved



Reviewer

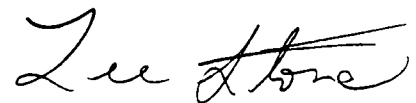
ASARCO

Aug. 18, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the X-ray results for your El Paso soil samples received on the 28th of July 1997. Also attached are the Q C results for this set . An amended report will follow containing pH values.

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



Lee Stone
Senior Analytical
Chemist

cc: CRStanga (w\attach)
JVaneK “



Q C FOR ELPASO SOILS L971715

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	451	19	290	1037	15	7413	15	28182
	467	17	348	984	15	7412	16	28309
	482	23	410	1032	15	7420	7	28217
	436	26	371	1009	15	7461	19	28532
	357	15	385	1027	15	7528	27	28293

LCS BRS2704

GIVEN	23.4	3.45	135	98.6	4.4	161		438
FOUND	<20	<10	139	128	4.4	196	<10	491
	<20	<10	123	120	4.4	201	<10	463

LCS SO-1

GIVEN			160	61	6	21		146
FOUND	<20	<10	99	51	6.2	26	<10	160
	<20	<10	77	91	6.2	18	<10	160

DUPLICATES

L971715-20	<20	110	77	3748	2.1	3596	<10	2574
DUP715-20	<20	99	<30	3868	2.1	3682	<10	2640
%DIFF		11		3	0	2		3

L971715-40	3314	1322	103	11705	4.9	18885	53	18976
DUP715-40	3363	1302	33	11300	4.8	18385	61	18719
%DIFF	1	2	103	4	2	3	14	1

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		158	69		83	92		103
		142	83		83	92		103
		192	98		83	92		103
		217	88		83	93		104
		125	92		83	93		103

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			103	130	100	122		112
			91	122	100	125		106

LCS SO-1

GIVEN		160PPM	61PPM	6%	21PPM		146PPM
% RECOV		62	84	103	124		110
		48	149	103	86		110

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Batch No: L971715

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-1	17-JUL-97	SS1A8-10A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	13	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.0	%	LCS	15-AUG-97		EDXRF
			PB	68	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-2	17-JUL-97	SS1A8-10B	AS	53	PPM	LCS	15-AUG-97		EDXRF
			CD	66	PPM	LCS	15-AUG-97		EDXRF
			CR	90	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	890	PPM	LCS	15-AUG-97		EDXRF
L971715-3	17-JUL-97	SS1A8-11A	AS	910	PPM	LCS	15-AUG-97		EDXRF
			CD	430	PPM	LCS	15-AUG-97		EDXRF
			CR	33	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	3200	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	6300	PPM	LCS	15-AUG-97		EDXRF
L971715-4	17-JUL-97	SS1A8-11B	AS	62	PPM	LCS	15-AUG-97		EDXRF
			CD	86	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			FE	1.1	%	LCS	15-AUG-97		EDXRF
			PB	3700	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1100	PPM	LCS	15-AUG-97		EDXRF
L971715-5	17-JUL-97	SS1A8-12A	AS	150	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	36	PPM	LCS	15-AUG-97		EDXRF
			FE	1.7	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF

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L971715-6	17-JUL-97	SS1A8-12B	AS	480	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	66	PPM	LCS	15-AUG-97		EDXRF
			FE	3.2	%	LCS	15-AUG-97		EDXRF
			PB	4900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2400	PPM	LCS	15-AUG-97		EDXRF
L971715-7	17-JUL-97	SS1A8-13A	AS	33	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	230	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	250	PPM	LCS	15-AUG-97		EDXRF
L971715-8	17-JUL-97	SS1A8-13B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	49	PPM	LCS	15-AUG-97		EDXRF
			CR	72	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	3100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2000	PPM	LCS	15-AUG-97		EDXRF
L971715-9	17-JUL-97	SS1A8-14A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	55	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	83	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	93	PPM	LCS	15-AUG-97		EDXRF
L971715-10	17-JUL-97	SS1A8-14A2	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	73	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	75	PPM	LCS	15-AUG-97		EDXRF

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L971715-11	17-JUL-97	SS1A8-14B	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	25	PPM	LCS	15-AUG-97		EDXRF
			CR	350	PPM	LCS	15-AUG-97		EDXRF
			FE	15	%	LCS	15-AUG-97		EDXRF
			PB	1200	PPM	LCS	15-AUG-97		EDXRF
			SE	23	PPM	LCS	15-AUG-97		EDXRF
			ZN	13000	PPM	LCS	15-AUG-97		EDXRF
L971715-12	18-JUL-97	SS1A8-15A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	11	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	160	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	370	PPM	LCS	15-AUG-97		EDXRF
L971715-13	18-JUL-97	SS1A8-15B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	14	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			FE	1.6	%	LCS	15-AUG-97		EDXRF
			PB	900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	480	PPM	LCS	15-AUG-97		EDXRF
L971715-14	18-JUL-97	SS1A8-16A	AS	930	PPM	LCS	15-AUG-97		EDXRF
			CD	240	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			FE	3.1	%	LCS	15-AUG-97		EDXRF
			PB	4000	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	5000	PPM	LCS	15-AUG-97		EDXRF
L971715-15	18-JUL-97	SS1A8-16B	AS	370	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	92	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	10000	PPM	LCS	15-AUG-97		EDXRF
			SE	27	PPM	LCS	15-AUG-97		EDXRF
			ZN	4000	PPM	LCS	15-AUG-97		EDXRF

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L971715-16	18-JUL-97	SS1A8-17A	AS	98	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	470	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	680	PPM	LCS	15-AUG-97		EDXRF
L971715-17	18-JUL-97	SS1A8-17B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	380	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	440	PPM	LCS	15-AUG-97		EDXRF
L971715-18	18-JUL-97	SS1A8-18A	AS	260	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	300	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	790	PPM	LCS	15-AUG-97		EDXRF
L971715-19	18-JUL-97	SS1A8-18A2	AS	280	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	87	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	240	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	840	PPM	LCS	15-AUG-97		EDXRF
L971715-20	18-JUL-97	SS1A8-18B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	99	PPM	LCS	15-AUG-97		EDXRF
			CR	77	PPM	LCS	15-AUG-97		EDXRF
			FE	2.1	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2600	PPM	LCS	15-AUG-97		EDXRF

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L971715-21	18-JUL-97	SS1A8-19A	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	76	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	350	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	280	PPM	LCS	15-AUG-97		EDXRF
L971715-22	18-JUL-97	SS1A8-19B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	48	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	560	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	470	PPM	LCS	15-AUG-97		EDXRF
L971715-23	18-JUL-97	SS1A8-20A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	64	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	95	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-24	18-JUL-97	SS1A8-20B	AS	330	PPM	LCS	15-AUG-97		EDXRF
			CD	89	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	3900	PPM	LCS	15-AUG-97		EDXRF
			SE	38	PPM	LCS	15-AUG-97		EDXRF
			ZN	15000	PPM	LCS	15-AUG-97		EDXRF
L971715-25	18-JUL-97	SS1A8-21A	AS	460	PPM	LCS	15-AUG-97		EDXRF
			CD	300	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			SE	21	PPM	LCS	15-AUG-97		EDXRF
			ZN	5900	PPM	LCS	15-AUG-97		EDXRF

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L971715-26	18-JUL-97	SS1A8-21B	AS	780	PPM	LCS	15-AUG-97		EDXRF
			CD	110	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			FE	2.7	%	LCS	15-AUG-97		EDXRF
			PB	2900	PPM	LCS	15-AUG-97		EDXRF
			SE	15	PPM	LCS	15-AUG-97		EDXRF
			ZN	3200	PPM	LCS	15-AUG-97		EDXRF
L971715-27	18-JUL-97	SS1A8-22A	AS	6600	PPM	LCS	15-AUG-97		EDXRF
			CD	1400	PPM	LCS	15-AUG-97		EDXRF
			CR	110	PPM	LCS	15-AUG-97		EDXRF
			FE	5.6	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	7600	PPM	LCS	15-AUG-97		EDXRF
L971715-28	18-JUL-97	SS1A8-22B	AS	2600	PPM	LCS	15-AUG-97		EDXRF
			CD	600	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	1500	PPM	LCS	15-AUG-97		EDXRF
			SE	24	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-29	18-JUL-97	SS1A8-23A	AS	140	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	97	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	590	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1500	PPM	LCS	15-AUG-97		EDXRF
L971715-30	18-JUL-97	SS1A8-23B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	65	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	490	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	420	PPM	LCS	15-AUG-97		EDXRF

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L971715-31	18-JUL-97	SS1A8-24A	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	550	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1000	PPM	LCS	15-AUG-97		EDXRF
L971715-32	18-JUL-97	SS1A8-24B	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	88	PPM	LCS	15-AUG-97		EDXRF
			FE	3.0	%	LCS	15-AUG-97		EDXRF
			PB	850	PPM	LCS	15-AUG-97		EDXRF
			SE	19	PPM	LCS	15-AUG-97		EDXRF
			ZN	2100	PPM	LCS	15-AUG-97		EDXRF
L971715-33	18-JUL-97	SS1A8-25A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	170	PPM	LCS	15-AUG-97		EDXRF
			FE	5.9	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	180	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-34	18-JUL-97	SS1A8-25B	AS	900	PPM	LCS	15-AUG-97		EDXRF
			CD	120	PPM	LCS	15-AUG-97		EDXRF
			CR	99	PPM	LCS	15-AUG-97		EDXRF
			FE	14	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-35	18-JUL-97	SS1A8-26A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	520	PPM	LCS	15-AUG-97		EDXRF
			CR	85	PPM	LCS	15-AUG-97		EDXRF
			FE	11	%	LCS	15-AUG-97		EDXRF
			PB	25000	PPM	LCS	15-AUG-97		EDXRF
			SE	94	PPM	LCS	15-AUG-97		EDXRF
			ZN	12000	PPM	LCS	15-AUG-97		EDXRF

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L971715-36	18-JUL-97	SS1A8-26B	AS	290	PPM	LCS	15-AUG-97		EDXRF
			CD	410	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			FE	16	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	33000	PPM	LCS	15-AUG-97		EDXRF
L971715-37	18-JUL-97	SS1A8-27A	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	380	PPM	LCS	15-AUG-97		EDXRF
			CR	290	PPM	LCS	15-AUG-97		EDXRF
			FE	7.0	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	98	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-38	18-JUL-97	SS1A8-27B	AS	240	PPM	LCS	15-AUG-97		EDXRF
			CD	33	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	790	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1200	PPM	LCS	15-AUG-97		EDXRF
L971715-39	18-JUL-97	SS1A8-28A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	1800	PPM	LCS	15-AUG-97		EDXRF
			CR	210	PPM	LCS	15-AUG-97		EDXRF
			FE	3.3	%	LCS	15-AUG-97		EDXRF
			PB	7300	PPM	LCS	15-AUG-97		EDXRF
			SE	39	PPM	LCS	15-AUG-97		EDXRF
			ZN	6100	PPM	LCS	15-AUG-97		EDXRF
L971715-40	18-JUL-97	SS1A8-28B	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	1300	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			FE	4.9	%	LCS	15-AUG-97		EDXRF
			PB	19000	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-41	18-JUL-97	SS1A8-29A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	470	PPM	LCS	15-AUG-97		EDXRF
			CR	520	PPM	LCS	15-AUG-97		EDXRF
			FE	13	%	LCS	15-AUG-97		EDXRF
			PB	9700	PPM	LCS	15-AUG-97		EDXRF
			SE	160	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-42	18-JUL-97	SS1A8-29B	AS	1100	PPM	LCS	15-AUG-97		EDXRF
			CD	350	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	22000	PPM	LCS	15-AUG-97		EDXRF
			SE	60	PPM	LCS	15-AUG-97		EDXRF
			ZN	24000	PPM	LCS	15-AUG-97		EDXRF
L971715-43	18-JUL-97	SS1A8-30A	AS	2000	PPM	LCS	15-AUG-97		EDXRF
			CD	840	PPM	LCS	15-AUG-97		EDXRF
			CR	70	PPM	LCS	15-AUG-97		EDXRF
			FE	7.8	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	73	PPM	LCS	15-AUG-97		EDXRF
			ZN	9400	PPM	LCS	15-AUG-97		EDXRF
L971715-44	18-JUL-97	SS1A8-30A2	AS	2300	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	150	PPM	LCS	15-AUG-97		EDXRF
			FE	7.2	%	LCS	15-AUG-97		EDXRF
			PB	17000	PPM	LCS	15-AUG-97		EDXRF
			SE	74	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-45	18-JUL-97	SS1A8-30B	AS	220	PPM	LCS	15-AUG-97		EDXRF
			CD	36	PPM	LCS	15-AUG-97		EDXRF
			CR	250	PPM	LCS	15-AUG-97		EDXRF
			FE	21	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	10000	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE		DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD
	COLLECTED							ANALYZED	DAYS METHOD
L971715-46	18-JUL-97	SS1A8-31A	AS	48	PPM	LCS	15-AUG-97	EDXRF	
			CD	<10	PPM	LCS	15-AUG-97	EDXRF	
			CR	<30	PPM	LCS	15-AUG-97	EDXRF	
			FE	1.4	%	LCS	15-AUG-97	EDXRF	
			PB	400	PPM	LCS	15-AUG-97	EDXRF	
			SE	<10	PPM	LCS	15-AUG-97	EDXRF	
			ZN	400	PPM	LCS	15-AUG-97	EDXRF	
L971715-47	18-JUL-97	SS1A8-31B	AS	94	PPM	LCS	15-AUG-97	EDXRF	
			CD	280	PPM	LCS	15-AUG-97	EDXRF	
			CR	80	PPM	LCS	15-AUG-97	EDXRF	
			FE	2.6	%	LCS	15-AUG-97	EDXRF	
			PB	9900	PPM	LCS	15-AUG-97	EDXRF	
			SE	40	PPM	LCS	15-AUG-97	EDXRF	
			ZN	7300	PPM	LCS	15-AUG-97	EDXRF	


Approved
Reviewer

ASARCO

Aug. 28, 1997

Mr. Lairy Johnson
Hydrometrics
El Paso

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SEP 02 1997

HYDROMETRICS, INC.

Please find attached an amended report for El Paso soils, lab number L971715, received on the 28th of July 1997. This report contains copper values which were inadvertently left out of the previous report, dated August 18, 1997.

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



Lee Stone
Senior Analytical
Chemist

cc: GRSianga (w\attach)
JVaneck



ASARCO TECHNICAL SERVICES CENTER

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							ANALYZED	DAYS	
L971715-1	17-JUL-97	SS1A8-10A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	13	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	160	PPM	LCS	15-AUG-97		EDXRF
			FE	1.0	%	LCS	15-AUG-97		EDXRF
			PB	68	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-2	17-JUL-97	SS1A8-10B	AS	53	PPM	LCS	15-AUG-97		EDXRF
			CD	66	PPM	LCS	15-AUG-97		EDXRF
			CR	90	PPM	LCS	15-AUG-97		EDXRF
			CU	750	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	890	PPM	LCS	15-AUG-97		EDXRF
L971715-3	17-JUL-97	SS1A8-11A	AS	910	PPM	LCS	15-AUG-97		EDXRF
			CD	430	PPM	LCS	15-AUG-97		EDXRF
			CR	33	PPM	LCS	15-AUG-97		EDXRF
			CU	20000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	3200	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	6300	PPM	LCS	15-AUG-97		EDXRF
L971715-4	17-JUL-97	SS1A8-11B	AS	62	PPM	LCS	15-AUG-97		EDXRF
			CD	86	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	2700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.1	%	LCS	15-AUG-97		EDXRF
			PB	3700	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1100	PPM	LCS	15-AUG-97		EDXRF
L971715-5	17-JUL-97	SS1A8-12A	AS	150	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	36	PPM	LCS	15-AUG-97		EDXRF

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L971715-5	17-JUL-97	SS1A8-12A	CU	5100	PPM	LCS	15-AUG-97		EDXRF
			FE	1.7	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-6	17-JUL-97	SS1A8-12B	AS	480	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	66	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	3.2	%	LCS	15-AUG-97		EDXRF
			PB	4900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2400	PPM	LCS	15-AUG-97		EDXRF
L971715-7	17-JUL-97	SS1A8-13A	AS	33	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	980	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	230	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	250	PPM	LCS	15-AUG-97		EDXRF
L971715-8	17-JUL-97	SS1A8-13B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	49	PPM	LCS	15-AUG-97		EDXRF
			CR	72	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	3100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2000	PPM	LCS	15-AUG-97		EDXRF
L971715-9	17-JUL-97	SS1A8-14A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	55	PPM	LCS	15-AUG-97		EDXRF
			CU	280	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	83	PPM	LCS	15-AUG-97		EDXRF

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L971715-14	18-JUL-97	SS1A8-16A	AS	930	PPM	LCS	15-AUG-97		EDXRF
			CD	240	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.1	%	LCS	15-AUG-97		EDXRF
			PB	4000	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	5000	PPM	LCS	15-AUG-97		EDXRF
L971715-15	18-JUL-97	SS1A8-16B	AS	370	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	92	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	10000	PPM	LCS	15-AUG-97		EDXRF
			SE	27	PPM	LCS	15-AUG-97		EDXRF
			ZN	4000	PPM	LCS	15-AUG-97		EDXRF
L971715-16	18-JUL-97	SS1A8-17A	AS	98	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	30	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	470	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	680	PPM	LCS	15-AUG-97		EDXRF
L971715-17	18-JUL-97	SS1A8-17B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	710	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	380	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	440	PPM	LCS	15-AUG-97		EDXRF
L971715-18	18-JUL-97	SS1A8-18A	AS	260	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF

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L971715-9	17-JUL-97	SS1A8-14A	SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	93	PPM	LCS	15-AUG-97		EDXRF
L971715-10	17-JUL-97	SS1A8-14A2	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	270	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	73	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	75	PPM	LCS	15-AUG-97		EDXRF
L971715-11	17-JUL-97	SS1A8-14B	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	25	PPM	LCS	15-AUG-97		EDXRF
			CR	350	PPM	LCS	15-AUG-97		EDXRF
			CU	4900	PPM	LCS	15-AUG-97		EDXRF
			FE	15	%	LCS	15-AUG-97		EDXRF
			PB	1200	PPM	LCS	15-AUG-97		EDXRF
			SE	23	PPM	LCS	15-AUG-97		EDXRF
			ZN	13000	PPM	LCS	15-AUG-97		EDXRF
L971715-12	18-JUL-97	SS1A8-15A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	11	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	1600	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	160	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	370	PPM	LCS	15-AUG-97		EDXRF
L971715-13	18-JUL-97	SS1A8-15B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	14	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	1900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.6	%	LCS	15-AUG-97		EDXRF
			PB	900	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	480	PPM	LCS	15-AUG-97		EDXRF

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L971715-18	18-JUL-97	SS1A8-18A	CU	890					
			FE	1.3	PPM	LCS	15-AUG-97		EDXRF
			PB	300	%	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	790	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
L971715-19	18-JUL-97	SS1A8-18A2	AS	280					
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	87	PPM	LCS	15-AUG-97		EDXRF
			CU	800	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	PPM	LCS	15-AUG-97		EDXRF
			PB	240	%	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	840	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
L971715-20	18-JUL-97	SS1A8-18B	AS	<20					
			CD	99	PPM	LCS	15-AUG-97		EDXRF
			CR	77	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	2.1	PPM	LCS	15-AUG-97		EDXRF
			PB	3600	%	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2600	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
L971715-21	18-JUL-97	SS1A8-19A	AS	44					
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	76	PPM	LCS	15-AUG-97		EDXRF
			CU	1200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	PPM	LCS	15-AUG-97		EDXRF
			PB	350	%	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	280	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
L971715-22	18-JUL-97	SS1A8-19B	AS	<20					
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	48	PPM	LCS	15-AUG-97		EDXRF
			CU	560	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	PPM	LCS	15-AUG-97		EDXRF
			PB	560	%	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-22	18-JUL-97	SS1A8-19B	SE	<10					
			ZN	470	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
			AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	64	PPM	LCS	15-AUG-97		EDXRF
			CU	200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	95	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
			AS	330	PPM	LCS	15-AUG-97		EDXRF
			CD	89	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	10000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	PPM	LCS	15-AUG-97		EDXRF
			PB	3900	%	LCS	15-AUG-97		EDXRF
			SE	38	PPM	LCS	15-AUG-97		EDXRF
			ZN	15000	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
			AS	460	PPM	LCS	15-AUG-97		EDXRF
			CD	300	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	PPM	LCS	15-AUG-97		EDXRF
			PB	1400	%	LCS	15-AUG-97		EDXRF
			SE	21	PPM	LCS	15-AUG-97		EDXRF
			ZN	5900	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF
			AS	780	PPM	LCS	15-AUG-97		EDXRF
			CD	110	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	19000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.7	PPM	LCS	15-AUG-97		EDXRF
			PB	2900	%	LCS	15-AUG-97		EDXRF
			SE	15	PPM	LCS	15-AUG-97		EDXRF
			ZN	3200	PPM	LCS	15-AUG-97		EDXRF
					PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-27	18-JUL-97	SS1A8-22A	AS	6600	PPM	LCS	15-AUG-97		EDXRF
			CD	1400	PPM	LCS	15-AUG-97		EDXRF
			CR	110	PPM	LCS	15-AUG-97		EDXRF
			CU	23000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.6	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	7600	PPM	LCS	15-AUG-97		EDXRF
L971715-28	18-JUL-97	SS1A8-22B	AS	2600	PPM	LCS	15-AUG-97		EDXRF
			CD	600	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	1500	PPM	LCS	15-AUG-97		EDXRF
			SE	24	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-29	18-JUL-97	SS1A8-23A	AS	140	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	97	PPM	LCS	15-AUG-97		EDXRF
			CU	820	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	590	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1500	PPM	LCS	15-AUG-97		EDXRF
L971715-30	18-JUL-97	SS1A8-23B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	65	PPM	LCS	15-AUG-97		EDXRF
			CU	570	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	490	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	420	PPM	LCS	15-AUG-97		EDXRF
L971715-31	18-JUL-97	SS1A8-24A	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-31	18-JUL-97	SS1A8-24A	CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	550	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1000	PPM	LCS	15-AUG-97		EDXRF
L971715-32	18-JUL-97	SS1A8-24B	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	88	PPM	LCS	15-AUG-97		EDXRF
			CU	2000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.0	%	LCS	15-AUG-97		EDXRF
			PB	850	PPM	LCS	15-AUG-97		EDXRF
			SE	19	PPM	LCS	15-AUG-97		EDXRF
			ZN	2100	PPM	LCS	15-AUG-97		EDXRF
L971715-33	18-JUL-97	SS1A8-25A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	170	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.9	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	180	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-34	18-JUL-97	SS1A8-25B	AS	900	PPM	LCS	15-AUG-97		EDXRF
			CD	120	PPM	LCS	15-AUG-97		EDXRF
			CR	99	PPM	LCS	15-AUG-97		EDXRF
			CU	9800	PPM	LCS	15-AUG-97		EDXRF
			FE	14	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-35	18-JUL-97	SS1A8-26A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	520	PPM	LCS	15-AUG-97		EDXRF
			CR	85	PPM	LCS	15-AUG-97		EDXRF
			CU	11	%	LCS	15-AUG-97		EDXRF
			FE	11	%	LCS	15-AUG-97		EDXRF
			PB	25000	PPM	LCS	15-AUG-97		EDXRF

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L971715-35	18-JUL-97	SS1A8-26A	SE	94	PPM	LCS	15-AUG-97		EDXRF
			ZN	12000	PPM	LCS	15-AUG-97		EDXRF
L971715-36	18-JUL-97	SS1A8-26B	AS	290	PPM	LCS	15-AUG-97		EDXRF
			CD	410	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	16	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	33000	PPM	LCS	15-AUG-97		EDXRF
L971715-37	18-JUL-97	SS1A8-27A	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	380	PPM	LCS	15-AUG-97		EDXRF
			CR	290	PPM	LCS	15-AUG-97		EDXRF
			CU	96000	PPM	LCS	15-AUG-97		EDXRF
			FE	7.0	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	98	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-38	18-JUL-97	SS1A8-27B	AS	240	PPM	LCS	15-AUG-97		EDXRF
			CD	33	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	8800	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	790	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1200	PPM	LCS	15-AUG-97		EDXRF
L971715-39	18-JUL-97	SS1A8-28A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	1800	PPM	LCS	15-AUG-97		EDXRF
			CR	210	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.3	%	LCS	15-AUG-97		EDXRF
			PB	7300	PPM	LCS	15-AUG-97		EDXRF
			SE	39	PPM	LCS	15-AUG-97		EDXRF
			ZN	6100	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-40	18-JUL-97	SS1A8-28B	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	1300	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	4.9	%	LCS	15-AUG-97		EDXRF
			PB	19000	PPM	LCS	15-AUG-97		EDXRF
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-41	18-JUL-97	SS1A8-29A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	470	PPM	LCS	15-AUG-97		EDXRF
			CR	520	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	13	%	LCS	15-AUG-97		EDXRF
			PB	9700	PPM	LCS	15-AUG-97		EDXRF
			SE	160	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-42	18-JUL-97	SS1A8-29B	AS	1100	PPM	LCS	15-AUG-97		EDXRF
			CD	350	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	31000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	22000	PPM	LCS	15-AUG-97		EDXRF
			SE	60	PPM	LCS	15-AUG-97		EDXRF
			ZN	24000	PPM	LCS	15-AUG-97		EDXRF
L971715-43	18-JUL-97	SS1A8-30A	AS	2000	PPM	LCS	15-AUG-97		EDXRF
			CD	840	PPM	LCS	15-AUG-97		EDXRF
			CR	70	PPM	LCS	15-AUG-97		EDXRF
			CU	19	%	LCS	15-AUG-97		EDXRF
			FE	7.8	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			SE	73	PPM	LCS	15-AUG-97		EDXRF
			ZN	9400	PPM	LCS	15-AUG-97		EDXRF
L971715-44	18-JUL-97	SS1A8-30A2	AS	2300	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	150	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-44	18-JUL-97	SS1A8-30A2	CU	18	%	LCS	15-AUG-97		EDXRF
			FE	7.2	%	LCS	15-AUG-97		EDXRF
			PB	17000	PPM	LCS	15-AUG-97		EDXRF
			SE	74	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-45	18-JUL-97	SS1A8-30B	AS	220	PPM	LCS	15-AUG-97		EDXRF
			CD	36	PPM	LCS	15-AUG-97		EDXRF
			CR	250	PPM	LCS	15-AUG-97		EDXRF
			CU	21000	PPM	LCS	15-AUG-97		EDXRF
			FE	21	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	10000	PPM	LCS	15-AUG-97		EDXRF
L971715-46	18-JUL-97	SS1A8-31A	AS	48	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	400	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	400	PPM	LCS	15-AUG-97		EDXRF
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	400	PPM	LCS	15-AUG-97		EDXRF
L971715-47	18-JUL-97	SS1A8-31B	AS	94	PPM	LCS	15-AUG-97		EDXRF
			CD	280	PPM	LCS	15-AUG-97		EDXRF
			CR	80	PPM	LCS	15-AUG-97		EDXRF
			CU	6500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	9900	PPM	LCS	15-AUG-97		EDXRF
			SE	40	PPM	LCS	15-AUG-97		EDXRF
			ZN	7300	PPM	LCS	15-AUG-97		EDXRF

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


Reviewer

ASARCO

August 28, 1997

RECEIVED

SEP 02 1997

HYDROMETRICS, INC.


Mr. Lairy Johnson
El Paso Hydrometrics

Please find attached the results for the fourteen soil samples collected July 14, through 18, 1997.

The samples were received by the laboratory between July 18, and 28, 1997.

Also included is the comparison between the XRF and wet results with the relative percent differences.

Sincerely,



E. B. Kuhn
Environmental Laboratory
Technician

EBK/jh
Attach.

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



ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L971910

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971910-1	14-JUL-97	SS1A3-1A	(L971680-16)	AS	1287	ppm	JJT	25-AUG-97	6010
				CD	338	ppm	JJT	25-AUG-97	6010
				CR	75	ppm	JJT	25-AUG-97	6010
				CU	16340	ppm	JJT	25-AUG-97	6010
				FE	51470	ppm	JJT	25-AUG-97	6010
				PB	4862	ppm	JJT	25-AUG-97	6010
				SE	54	ppm	JJT	25-AUG-97	6010
				ZN	4693	ppm	JJT	25-AUG-97	6010
L971910-2	15-JUL-97	SS1A3-9B	(L971680-34)	AS	473	ppm	JJT	25-AUG-97	6010
				CD	235	ppm	JJT	25-AUG-97	6010
				CR	22	ppm	JJT	25-AUG-97	6010
				CU	1814	ppm	JJT	25-AUG-97	6010
				FE	16960	ppm	JJT	25-AUG-97	6010
				PB	1915	ppm	JJT	25-AUG-97	6010
				SE	17	ppm	JJT	25-AUG-97	6010
				ZN	2044	ppm	JJT	25-AUG-97	6010
L971910-3	14-JUL-97	SS1A5-19B	(L971680-51)	AS	30	ppm	JJT	25-AUG-97	6010
				CD	17	ppm	JJT	25-AUG-97	6010
				CR	24	ppm	JJT	25-AUG-97	6010
				CU	270	ppm	JJT	25-AUG-97	6010
				FE	9869	ppm	JJT	25-AUG-97	6010
				PB	216	ppm	JJT	25-AUG-97	6010
				SE	<10	ppm	JJT	25-AUG-97	6010
				ZN	305	ppm	JJT	25-AUG-97	6010
L971910-4	16-JUL-97	SS1A8-6B	(L971680-64)	AS	62	ppm	JJT	25-AUG-97	6010
				CD	40	ppm	JJT	25-AUG-97	6010
				CR	32	ppm	JJT	25-AUG-97	6010
				CU	343	ppm	JJT	25-AUG-97	6010
				FE	12270	ppm	JJT	25-AUG-97	6010
				PB	764	ppm	JJT	25-AUG-97	6010
				SE	<10	ppm	JJT	25-AUG-97	6010
				ZN	342	ppm	JJT	25-AUG-97	6010
L971910-5	16-JUL-97	SS1A8-7A	(L971680-65)	AS	61	ppm	JJT	25-AUG-97	6010
				CD	68	ppm	JJT	25-AUG-97	6010
				CR	19	ppm	JJT	25-AUG-97	6010

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L971910-5	16-JUL-97	SS1A8-7A	(L971680-65)	CU	749	ppm	JJT	25-AUG-97	6010
				FE	11850	ppm	JJT	25-AUG-97	6010
				PB	340	ppm	JJT	25-AUG-97	6010
				SE	<10	ppm	JJT	25-AUG-97	6010
				ZN	642	ppm	JJT	25-AUG-97	6010
L971910-6	17-JUL-97	SSENT2-A	(L971680-73)	AS	309	ppm	JJT	25-AUG-97	6010
				CD	70	ppm	JJT	25-AUG-97	6010
				CR	34	ppm	JJT	25-AUG-97	6010
				CU	5964	ppm	JJT	25-AUG-97	6010
				FE	24900	ppm	JJT	25-AUG-97	6010
				PB	2485	ppm	JJT	25-AUG-97	6010
				SE	18	ppm	JJT	25-AUG-97	6010
				ZN	2644	ppm	JJT	25-AUG-97	6010
L971910-7	17-JUL-97	SSENT6-A	(L971680-82)	AS	340	ppm	JJT	25-AUG-97	6010
				CD	71	ppm	JJT	25-AUG-97	6010
				CR	12	ppm	JJT	25-AUG-97	6010
				CU	3795	ppm	JJT	25-AUG-97	6010
				FE	18050	ppm	JJT	25-AUG-97	6010
				PB	2731	ppm	JJT	25-AUG-97	6010
				SE	12	ppm	JJT	25-AUG-97	6010
				ZN	1852	ppm	JJT	25-AUG-97	6010
L971910-8	17-JUL-97	SSENT7-A	(L971680-84)	AS	282	ppm	JJT	25-AUG-97	6010
				CD	67	ppm	JJT	25-AUG-97	6010
				CR	18	ppm	JJT	25-AUG-97	6010
				CU	5604	ppm	JJT	25-AUG-97	6010
				FE	18590	ppm	JJT	25-AUG-97	6010
				PB	1936	ppm	JJT	25-AUG-97	6010
				SE	15	ppm	JJT	25-AUG-97	6010
				ZN	1674	ppm	JJT	25-AUG-97	6010
L971910-9	17-JUL-97	SSENT7-B	(L971680-85)	AS	8.3	ppm	JJT	25-AUG-97	6010
				CD	1.5	ppm	JJT	25-AUG-97	6010
				CR	30	ppm	JJT	25-AUG-97	6010
				CU	34	ppm	JJT	25-AUG-97	6010
				FE	13580	ppm	JJT	25-AUG-97	6010
				PB	33	ppm	JJT	25-AUG-97	6010

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L971910-9	17-JUL-97	SSENT7-B	(L971680-85)	SE	<10	ppm	JJT	25-AUG-97	6010
				ZN	44	ppm	JJT	25-AUG-97	6010
L971910-10	17-JUL-97	SS1A8-10A	(L971715-1)	AS	9.2	ppm	JJT	25-AUG-97	6010
				CD	4.3	ppm	JJT	25-AUG-97	6010
				CR	7.9	ppm	JJT	25-AUG-97	6010
				CU	136	ppm	JJT	25-AUG-97	6010
				FE	6347	ppm	JJT	25-AUG-97	6010
				PB	43	ppm	JJT	25-AUG-97	6010
				SE	<10	ppm	JJT	25-AUG-97	6010
				ZN	134	ppm	JJT	25-AUG-97	6010
L971910-11	18-JUL-97	SS1A8-20B	(L971715-24)	AS	337	ppm	JJT	25-AUG-97	6010
				CD	72	ppm	JJT	25-AUG-97	6010
				CR	86	ppm	JJT	25-AUG-97	6010
				CU	7855	ppm	JJT	25-AUG-97	6010
				FE	126000	ppm	JJT	25-AUG-97	6010
				PB	3171	ppm	JJT	25-AUG-97	6010
				SE	33	ppm	JJT	25-AUG-97	6010
				ZN	12480	ppm	JJT	25-AUG-97	6010
L971910-12	18-JUL-97	SS1A8-28B	(L971715-40)	AS	2215	ppm	JJT	25-AUG-97	6010
				CD	852	ppm	JJT	25-AUG-97	6010
				CR	28	ppm	JJT	25-AUG-97	6010
				CU	7940	ppm	JJT	25-AUG-97	6010
				FE	37950	ppm	JJT	25-AUG-97	6010
				PB	12660	ppm	JJT	25-AUG-97	6010
				SE	46	ppm	JJT	25-AUG-97	6010
				ZN	11140	ppm	JJT	25-AUG-97	6010
L971910-13	18-JUL-97	SS1A8-30A	(L971715-43)	AS	2011	ppm	JJT	25-AUG-97	6010
				CD	762	ppm	JJT	25-AUG-97	6010
				CR	17	ppm	JJT	25-AUG-97	6010
				CU	145500	ppm	JJT	25-AUG-97	6010
				FE	106100	ppm	JJT	25-AUG-97	6010
				PB	18490	ppm	JJT	25-AUG-97	6010
				SE	83	ppm	JJT	25-AUG-97	6010
				ZN	9592	ppm	JJT	25-AUG-97	6010

ASARCO TECHNICAL SERVICES CENTER


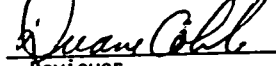
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971910

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

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971289

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971289-1		Matrix Spike	AS	94	% RECOVERY	JJT	25-AUG-97		6010
			CD	87	% RECOVERY	JJT	25-AUG-97		6010
			CR	97	% RECOVERY	JJT	25-AUG-97		6010
			CU	88	% RECOVERY	JJT	25-AUG-97		6010
			FE	SR>4XSA	% RECOVERY	JJT	25-AUG-97		6010
			PB	93	% RECOVERY	JJT	25-AUG-97		6010
			SE	89	% RECOVERY	JJT	25-AUG-97		6010
			ZN	81	% RECOVERY	JJT	25-AUG-97		6010
WG971289-2		Prep Blank	AS	<5.0	ppm	JJT	25-AUG-97		6010
			CD	<2.0	ppm	JJT	25-AUG-97		6010
			CR	<5.0	ppm	JJT	25-AUG-97		6010
			CU	<2.5	ppm	JJT	25-AUG-97		6010
			FE	<5.0	ppm	JJT	25-AUG-97		6010
			PB	<5.0	ppm	JJT	25-AUG-97		6010
			SE	<10	ppm	JJT	25-AUG-97		6010
			ZN	<10	ppm	JJT	25-AUG-97		6010
WG971289-3		Laboratory Control	AS	94	% RECOVERY	JJT	25-AUG-97		6010
			CD	91	% RECOVERY	JJT	25-AUG-97		6010
			CR	108	% RECOVERY	JJT	25-AUG-97		6010
			CU	101	% RECOVERY	JJT	25-AUG-97		6010
			FE	118	% RECOVERY	JJT	25-AUG-97		6010
			PB	94	% RECOVERY	JJT	25-AUG-97		6010
			SE	77	% RECOVERY	JJT	25-AUG-97		6010
			ZN	98	% RECOVERY	JJT	25-AUG-97		6010
WG971289-4		Duplicate	AS	3.3	% RPD	JJT	25-AUG-97		6010
			CD	<1.0	% RPD	JJT	25-AUG-97		6010
			CR	<1.0	% RPD	JJT	25-AUG-97		6010
			CU	<1.0	% RPD	JJT	25-AUG-97		6010
			FE	1.3	% RPD	JJT	25-AUG-97		6010
			PB	1.2	% RPD	JJT	25-AUG-97		6010
			SE	<1.0	% RPD	JJT	25-AUG-97		6010
			ZN	<1.0	% RPD	JJT	25-AUG-97		6010
WG971289-5		Detection Limit	AS	5.0	ppm				6010
			CD	2.0	ppm				6010
			CR	5.0	ppm				6010

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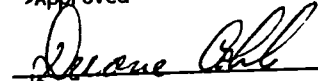
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971289

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD
							ANALYZED	DAYS METHOD
WG971289-5		Detection Limit	CU	2.5	ppm			6010
			FE	5.0	ppm			6010
			PB	5.0	ppm			6010
			SE	10	ppm			6010
			ZN	10	ppm			6010


Approved

Reviewer

QC FOR EL PASO SOILS
WET VS XRAY

LAB #	WET As PPM	XRF As PPM	RPD
L971910-1	1287	1900	38
L971910-2	473	570	19
L971910-3	30	<20	
L971910-4	62	<20	
L971910-5	61	51	18
L971910-6	309	340	10
L971910-7	340	380	11
L971910-8	282	250	12
L971910-9	8.2	<20	
L971910-10	9.2	<20	
L971910-11	337	330	2
L971910-12	2216	3300	39
L971910-13	2011	2000	1
SUM	7425.4	9121	150
RPD of sums	20		
		MEAN	15

LAB #	WET Cd PPM	XRF Cd PPM	RPD
L971910-1	338	510	41
L971910-2	235	340	37
L971910-3	17	29	52
L971910-4	40	47	16
L971910-5	61	51	18
L971910-6	70	100	35
L971910-7	71	100	34
L971910-8	67	93	33
L971910-9	1.5	<10	
L971910-10	4.3	13	101
L971910-11	72	89	21
L971910-12	852	1300	42
L971910-13	762	840	10
SUM	2590.8	3512	438
RPD of sums	30		
		MEAN	36

LAB #	WET Cr PPM	XRF Cr PPM	RPD
L971910-1	75	240	105
L971910-2	22	52	81
L971910-3	24	<30	
L971910-4	32	94	98
L971910-5	19	59	103
L971910-6	34	180	136
L971910-7	12	73	144
L971910-8	18	<30	
L971910-9	30	100	108
L971910-10	7.9	<30	
L971910-11	86	230	91
L971910-12	28	100	113
L971910-13	17	70	122
SUM	404.9	1198	1100
RPD of sums	99		
		MEAN	110

LAB #	WET Cu PPM	XRF Cu PPM	RPD
L971910-1	16340	27000	49
L971910-2	1814	2700	39
L971910-3	17	29	52
L971910-4	343	520	41
L971910-5	749	980	27
L971910-6	5964	8400	34
L971910-7	3795	5500	37
L971910-8	5604	8300	39
L971910-9	34	33	3
L971910-10	136	155	13
L971910-11	126000	120000	5
L971910-12	7940	11705	38
L971910-13	145500	186540	25
SUM	314236	371862	402
RPD of sums	17		
		MEAN	31

LAB #	WET Fe %	XRF Fe %	RPD
L971910-1	5.1	6.6	26
L971910-2	1.7	2.2	26
L971910-3	1.0	1.5	40
L971910-4	1.2	1.9	45
L971910-5	1.2	2.0	50
L971910-6	2.5	3.4	31
L971910-7	1.8	2.6	36
L971910-8	1.9	2.8	38
L971910-9	1.4	1.8	25
L971910-10	0.6	1.0	50
L971910-11	13	12	5
L971910-12	3.8	4.9	25
L971910-13	11	7.8	34
SUM	45.8	50.5	431
RPD of sums	10		
		MEAN	33

LAB #	WET Pb PPM	XRF Pb PPM	RPD
L971910-1	4862	7400	41
L971910-2	1915	2700	34
L971910-3	216.0	310	36
L971910-4	764	1000	27
L971910-5	340	526	43
L971910-6	2485	3300	28
L971910-7	2731	3800	33
L971910-8	1936	2800	36
L971910-9	33	30	10
L971910-10	43	68	45
L971910-11	3171	3900	21
L971910-12	12660	19000	40
L971910-13	18490	20000	8
SUM	49646	64834	401
RPD of sums	27		
		MEAN	31

LAB #	WET Se PPM	XRF Se PPM	RPD
L971910-1	54	56	4
L971910-2	17	26	42
L971910-3	<10	<10	
L971910-4	<10	<10	
L971910-5	<10	<10	
L971910-6	18	15	18
L971910-7	12	16	29
L971910-8	15	<10	
L971910-9	<10	<10	
L971910-10	43	68	45
L971910-11	33	38	14
L971910-12	46	53	14
L971910-13	83	73	13
SUM	321	345	178
RPD of sums	7		
		MEAN	22

LAB #	WET Zn PPM	XRF Zn PPM	RPD
L971910-1	4693	7600	47
L971910-2	2044	2600	24
L971910-3	305	430	34
L971910-4	342	470	32
L971910-5	642	1100	53
L971910-6	2644	3600	31
L971910-7	1852	2500	30
L971910-8	1674	2400	36
L971910-9	44	41	7
L971910-10	134	130	3
L971910-11	12480	15000	18
L971910-12	11140	19000	52
L971910-13	9592	9400	2
SUM	47586	64271	368
RPD of sums	30		
		MEAN	28

September 11, 1997

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SEP 17 1997

HYDROMETRICS, INC.

Mr. Lairy Johnson
HYDROMETRICS INC.
El Paso

Please find attached an amended report for the El Paso Soils, lab number L971470-1, L971680-1 through 88, and L971715-1 through 47, received on June 27, July 18, and 28, 1997. This report now contains pH values.

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



Lee Stone
Senior Analytical Chemist

LCS/jh
Attach.

cc: GRStanga (w/attach.)
JVanek "



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-1	15-JUL-97	SS1A1-1A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1900	PPM	LCS	13-AUG-97		EDXRF
			CR	62	PPM	LCS	13-AUG-97		EDXRF
			CU	13000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			PH	6.8	pH	DC	09-SEP-97		9045
			SE	190	PPM	LCS	13-AUG-97		EDXRF
			ZN	7000	PPM	LCS	13-AUG-97		EDXRF
L971680-2	15-JUL-97	SS1A1-1B	AS	2300	PPM	LCS	13-AUG-97		EDXRF
			CD	91	PPM	LCS	13-AUG-97		EDXRF
			CR	330	PPM	LCS	13-AUG-97		EDXRF
			CU	7600	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5000	PPM	LCS	13-AUG-97		EDXRF
			PH	6.3	pH	DC	09-SEP-97		9045
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	13000	PPM	LCS	13-AUG-97		EDXRF
L971680-3	15-JUL-97	SS1A1-2A	AS	21000	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	15	%	LCS	13-AUG-97		EDXRF
			PH	7.2	pH	DC	09-SEP-97		9045
			SE	1300	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-4	15-JUL-97	SS1A1-2B	AS	22000	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	28000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.6	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			PH	6.7	pH	DC	09-SEP-97		9045
			SE	200	PPM	LCS	13-AUG-97		EDXRF
			ZN	4900	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-5	15-JUL-97	SS1A1-3A	AS	2000	PPM	LCS	13-AUG-97		EDXRF
			CD	320	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	4100	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97	9045	
			SE	41	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-6	15-JUL-97	SS1A1-3B	AS	4900	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	97	PPM	LCS	13-AUG-97		EDXRF
			CU	37000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	5800	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97	9045	
			SE	36	PPM	LCS	13-AUG-97		EDXRF
			ZN	7200	PPM	LCS	13-AUG-97		EDXRF
L971680-7	15-JUL-97	SS1A1-4A	AS	410	PPM	LCS	13-AUG-97		EDXRF
			CD	88	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-8	15-JUL-97	SS1A1-4B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	4.4	%	LCS	13-AUG-97		EDXRF
			PB	6200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97	9045	
			SE	25	PPM	LCS	13-AUG-97		EDXRF
			ZN	7500	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-9	15-JUL-97	SS1A1-5A1	AS	1800	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	1200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF
L971680-10	15-JUL-97	SS1A1-5A2	AS	1600	PPM	LCS	13-AUG-97		EDXRF
			CD	110	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	2500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-11	15-JUL-97	SS1A1-5B	AS	220	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	3500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	550	PPM	LCS	13-AUG-97		EDXRF
L971680-12	14-JUL-97	SS1A2-1A	AS	400	PPM	LCS	13-AUG-97		EDXRF
			CD	14	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	7200	PPM	LCS	13-AUG-97		EDXRF
			FE	13	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			PH	7.6	pH	DC	09-SEP-97		9045
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	10000	PPM	LCS	13-AUG-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L971680

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-13	14-JUL-97	SS1A2-1B	AS	1200	PPM	LCS	13-AUG-97		EDXRF
			CD	56	PPM	LCS	13-AUG-97		EDXRF
			CR	340	PPM	LCS	13-AUG-97		EDXRF
			CU	5400	PPM	LCS	13-AUG-97		EDXRF
			FE	19	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			PH	7.6	pH	DC	09-SEP-97		9045
			SE	72	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF
L971680-14	14-JUL-97	SS1A2-2A	AS	840	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	230	PPM	LCS	13-AUG-97		EDXRF
			CU	8800	PPM	LCS	13-AUG-97		EDXRF
			FE	8.5	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	21	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-15	14-JUL-97	SS1A2-2A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	220	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.3	%	LCS	13-AUG-97		EDXRF
			PB	2500	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	23	PPM	LCS	13-AUG-97		EDXRF
			ZN	5300	PPM	LCS	13-AUG-97		EDXRF
L971680-16	14-JUL-97	SS1A3-1A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	510	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	27000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.6	%	LCS	13-AUG-97		EDXRF
			PB	7400	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	56	PPM	LCS	13-AUG-97		EDXRF
			ZN	7600	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-17	14-JUL-97	SS1A3-1B	AS	650	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	6900	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	13	PPM	LCS	13-AUG-97		EDXRF
			ZN	17000	PPM	LCS	13-AUG-97		EDXRF
L971680-18	14-JUL-97	SS1A3-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	25	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	360	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	220	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-19	14-JUL-97	SS1A3-2B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	430	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	550	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-20	14-JUL-97	SS1A3-3A	AS	480	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	41	PPM	LCS	13-AUG-97		EDXRF
			CU	3600	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	2000	PPM	LCS	13-AUG-97		EDXRF
			PH	6.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-21	14-JUL-97	SS1A3-3B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	72	PPM	LCS	13-AUG-97		EDXRF
			FE	0.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	100	PPM	LCS	13-AUG-97		EDXRF
L971680-22	14-JUL-97	SS1A3-4A	AS	7800	PPM	LCS	13-AUG-97		EDXRF
			CD	1600	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	7400	PPM	LCS	13-AUG-97		EDXRF
			FE	5.5	%	LCS	13-AUG-97		EDXRF
			PB	7300	PPM	LCS	13-AUG-97		EDXRF
			PH	7.3	pH	DC	09-SEP-97		9045
			SE	53	PPM	LCS	13-AUG-97		EDXRF
			ZN	9800	PPM	LCS	13-AUG-97		EDXRF
L971680-23	14-JUL-97	SS1A3-4B	AS	3000	PPM	LCS	13-AUG-97		EDXRF
			CD	330	PPM	LCS	13-AUG-97		EDXRF
			CR	300	PPM	LCS	13-AUG-97		EDXRF
			CU	4400	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	5600	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	16000	PPM	LCS	13-AUG-97		EDXRF
L971680-24	15-JUL-97	SS1A3-5A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	280	PPM	LCS	13-AUG-97		EDXRF
			CR	240	PPM	LCS	13-AUG-97		EDXRF
			CU	9000	PPM	LCS	13-AUG-97		EDXRF
			FE	9.2	%	LCS	13-AUG-97		EDXRF
			PB	5200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	9200	PPM	LCS	13-AUG-97		EDXRF

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L971680-25	15-JUL-97	SS1A3-5A2	AS	950	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	8.8	%	LCS	13-AUG-97		EDXRF
			PB	4800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	8900	PPM	LCS	13-AUG-97		EDXRF
L971680-26	15-JUL-97	SS1A3-5B	AS	560	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	80	PPM	LCS	13-AUG-97		EDXRF
			CU	3700	PPM	LCS	13-AUG-97		EDXRF
			FE	6.3	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			PH	7.4	pH	DC	09-SEP-97		9045
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	7300	PPM	LCS	13-AUG-97		EDXRF
L971680-27	15-JUL-97	SS1A3-6A	AS	2900	PPM	LCS	13-AUG-97		EDXRF
			CD	790	PPM	LCS	13-AUG-97		EDXRF
			CR	260	PPM	LCS	13-AUG-97		EDXRF
			CU	11000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-28	15-JUL-97	SS1A3-6B	AS	230	PPM	LCS	13-AUG-97		EDXRF
			CD	67	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1300	PPM	LCS	13-AUG-97		EDXRF

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L971680-29	15-JUL-97	SS1A3-7A	AS	820	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	1900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.2	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	22	PPM	LCS	13-AUG-97		EDXRF
			ZN	2200	PPM	LCS	13-AUG-97		EDXRF
L971680-30	15-JUL-97	SS1A3-7B	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	440	PPM	LCS	13-AUG-97		EDXRF
			CR	1400	PPM	LCS	13-AUG-97		EDXRF
			CU	3900	PPM	LCS	13-AUG-97		EDXRF
			FE	4.5	%	LCS	13-AUG-97		EDXRF
			PB	3700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	94	PPM	LCS	13-AUG-97		EDXRF
			ZN	14000	PPM	LCS	13-AUG-97		EDXRF
L971680-31	15-JUL-97	SS1A3-8A	AS	3200	PPM	LCS	13-AUG-97		EDXRF
			CD	1100	PPM	LCS	13-AUG-97		EDXRF
			CR	290	PPM	LCS	13-AUG-97		EDXRF
			CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.0	%	LCS	13-AUG-97		EDXRF
			PB	8100	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	60	PPM	LCS	13-AUG-97		EDXRF
			ZN	9900	PPM	LCS	13-AUG-97		EDXRF
L971680-32	15-JUL-97	SS1A3-8B	AS	740	PPM	LCS	13-AUG-97		EDXRF
			CD	170	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	3300	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1600	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	14	PPM	LCS	13-AUG-97		EDXRF
			ZN	1900	PPM	LCS	13-AUG-97		EDXRF

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L971680-33	15-JUL-97	SS1A3-9A	AS	1900	PPM	LCS	13-AUG-97		EDXRF
			CD	1400	PPM	LCS	13-AUG-97		EDXRF
			CR	53	PPM	LCS	13-AUG-97		EDXRF
			CU	8500	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	4500	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	33	PPM	LCS	13-AUG-97		EDXRF
			ZN	5500	PPM	LCS	13-AUG-97		EDXRF
L971680-34	15-JUL-97	SS1A3-9B	AS	570	PPM	LCS	13-AUG-97		EDXRF
			CD	340	PPM	LCS	13-AUG-97		EDXRF
			CR	52	PPM	LCS	13-AUG-97		EDXRF
			CU	2700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	2600	PPM	LCS	13-AUG-97		EDXRF
L971680-35	15-JUL-97	SS1A3-10A	AS	2800	PPM	LCS	13-AUG-97		EDXRF
			CD	360	PPM	LCS	13-AUG-97		EDXRF
			CR	95	PPM	LCS	13-AUG-97		EDXRF
			CU	7900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	19000	PPM	LCS	13-AUG-97		EDXRF
			PH	10.0	pH	DC	09-SEP-97		9045
			SE	77	PPM	LCS	13-AUG-97		EDXRF
			ZN	4100	PPM	LCS	13-AUG-97		EDXRF
L971680-36	15-JUL-97	SS1A3-10A2	AS	3300	PPM	LCS	13-AUG-97		EDXRF
			CD	410	PPM	LCS	13-AUG-97		EDXRF
			CR	57	PPM	LCS	13-AUG-97		EDXRF
			CU	8900	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	22000	PPM	LCS	13-AUG-97		EDXRF
			PH	9.3	pH	DC	09-SEP-97		9045
			SE	75	PPM	LCS	13-AUG-97		EDXRF
			ZN	4400	PPM	LCS	13-AUG-97		EDXRF

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L971680-37	15-JUL-97	SS1A3-10B	AS	980	PPM	LCS	13-AUG-97		EDXRF
			CD	680	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	4700	PPM	LCS	13-AUG-97		EDXRF
			FE	12	%	LCS	13-AUG-97		EDXRF
			PB	25000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97	9045	
			SE	46	PPM	LCS	13-AUG-97		EDXRF
			ZN	15000	PPM	LCS	13-AUG-97		EDXRF
L971680-38	14-JUL-97	SS1H5-15A	AS	86	PPM	LCS	13-AUG-97		EDXRF
			CD	20	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	2800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	900	PPM	LCS	13-AUG-97		EDXRF
L971680-39	14-JUL-97	SS1H5-15A2	AS	70	PPM	LCS	13-AUG-97		EDXRF
			CD	19	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	2400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	760	PPM	LCS	13-AUG-97		EDXRF
L971680-40	14-JUL-97	SS1H5-15B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	32	PPM	LCS	13-AUG-97		EDXRF
			CU	39	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	34	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	59	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-41	14-JUL-97	SS1H5-15B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	20	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	38	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	27	PPM	LCS	13-AUG-97		EDXRF
L971680-42	14-JUL-97	SS1A5-16A	AS	27	PPM	LCS	13-AUG-97		EDXRF
			CD	24	PPM	LCS	13-AUG-97		EDXRF
			CR	89	PPM	LCS	13-AUG-97		EDXRF
			CU	1000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.2	%	LCS	13-AUG-97		EDXRF
			PB	610	PPM	LCS	13-AUG-97		EDXRF
			PH	7.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	650	PPM	LCS	13-AUG-97		EDXRF
L971680-43	14-JUL-97	SS1A5-16A2	AS	68	PPM	LCS	13-AUG-97		EDXRF
			CD	40	PPM	LCS	13-AUG-97		EDXRF
			CR	74	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.3	%	LCS	13-AUG-97		EDXRF
			PB	830	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1000	PPM	LCS	13-AUG-97		EDXRF
L971680-44	14-JUL-97	SS1A5-16B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	150	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	190	PPM	LCS	13-AUG-97		EDXRF

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L971680-45	14-JUL-97	SS1A5-16B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	51	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	140	PPM	LCS	13-AUG-97		EDXRF
L971680-46	14-JUL-97	SS1A5-17A	AS	83	PPM	LCS	13-AUG-97		EDXRF
			CD	85	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1100	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1400	PPM	LCS	13-AUG-97		EDXRF
L971680-47	14-JUL-97	SS1A5-17B	AS	24	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	150	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	140	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-48	14-JUL-97	SS1A5-18A	AS	26	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1200	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF

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L971680-49	14-JUL-97	SS1A5-18B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	27	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	15	PPM	LCS	13-AUG-97		EDXRF
			PH	9.3	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	28	PPM	LCS	13-AUG-97		EDXRF
L971680-50	14-JUL-97	SS1A5-19A	AS	160	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	39	PPM	LCS	13-AUG-97		EDXRF
			CU	3400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2400	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97	9045	
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3300	PPM	LCS	13-AUG-97		EDXRF
L971680-51	14-JUL-97	SS1A5-19B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	29	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	370	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	310	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	430	PPM	LCS	13-AUG-97		EDXRF
L971680-52	16-JUL-97	SS1A8-1A	AS	240	PPM	LCS	13-AUG-97		EDXRF
			CD	33	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	140	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	44	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF

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L971680-53	16-JUL-97	SS1A8-1B	AS	2100	PPM	LCS	13-AUG-97		EDXRF
			CD	400	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	4300	PPM	LCS	13-AUG-97		EDXRF
			FE	8.6	%	LCS	13-AUG-97		EDXRF
			PB	1500	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97	9045	
			SE	26	PPM	LCS	13-AUG-97		EDXRF
			ZN	8100	PPM	LCS	13-AUG-97		EDXRF
L971680-54	16-JUL-97	SS1A8-2A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	35	PPM	LCS	13-AUG-97		EDXRF
			CR	58	PPM	LCS	13-AUG-97		EDXRF
			CU	440	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	240	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	510	PPM	LCS	13-AUG-97		EDXRF
L971680-55	16-JUL-97	SS1A8-2B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	11	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	530	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	500	PPM	LCS	13-AUG-97		EDXRF
			PH	8.9	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	340	PPM	LCS	13-AUG-97		EDXRF
L971680-56	16-JUL-97	SS1A8-3A	AS	2700	PPM	LCS	13-AUG-97		EDXRF
			CD	660	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	420	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97	9045	
			SE	66	PPM	LCS	13-AUG-97		EDXRF
			ZN	4600	PPM	LCS	13-AUG-97		EDXRF

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L971680-57	16-JUL-97	SS1A8-3B	AS	170	PPM	LCS	13-AUG-97		EDXRF
			CD	150	PPM	LCS	13-AUG-97		EDXRF
			CR	56	PPM	LCS	13-AUG-97		EDXRF
			CU	1100	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1800	PPM	LCS	13-AUG-97		EDXRF
L971680-58	16-JUL-97	SS1A8-4A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	660	PPM	LCS	13-AUG-97		EDXRF
			FE	1.7	%	LCS	13-AUG-97		EDXRF
			PB	120	PPM	LCS	13-AUG-97		EDXRF
			PH	8.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	150	PPM	LCS	13-AUG-97		EDXRF
L971680-59	16-JUL-97	SS1A8-4B	AS	3700	PPM	LCS	13-AUG-97		EDXRF
			CD	980	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	20000	PPM	LCS	13-AUG-97		EDXRF
			FE	6.1	%	LCS	13-AUG-97		EDXRF
			PB	43000	PPM	LCS	13-AUG-97		EDXRF
			PH	7.7	pH	DC	09-SEP-97		9045
			SE	57	PPM	LCS	13-AUG-97		EDXRF
			ZN	21000	PPM	LCS	13-AUG-97		EDXRF
L971680-60	16-JUL-97	SS1A8-5A	AS	53	PPM	LCS	13-AUG-97		EDXRF
			CD	130	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	180	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2300	PPM	LCS	13-AUG-97		EDXRF

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L971680-61	16-JUL-97	SS1A8-5B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	130	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	350	PPM	LCS	13-AUG-97		EDXRF
L971680-62	16-JUL-97	SS1A8-6A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	23	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	690	PPM	LCS	13-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	370	PPM	LCS	13-AUG-97		EDXRF
L971680-63	16-JUL-97	SS1A8-6A2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	13	PPM	LCS	13-AUG-97		EDXRF
			CR	140	PPM	LCS	13-AUG-97		EDXRF
			CU	390	PPM	LCS	13-AUG-97		EDXRF
			FE	1.5	%	LCS	13-AUG-97		EDXRF
			PB	680	PPM	LCS	13-AUG-97		EDXRF
			PH	8.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	330	PPM	LCS	13-AUG-97		EDXRF
L971680-64	16-JUL-97	SS1A8-6B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	47	PPM	LCS	13-AUG-97		EDXRF
			CR	94	PPM	LCS	13-AUG-97		EDXRF
			CU	520	PPM	LCS	13-AUG-97		EDXRF
			FE	1.9	%	LCS	13-AUG-97		EDXRF
			PB	1000	PPM	LCS	13-AUG-97		EDXRF
			PH	9.1	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	470	PPM	LCS	13-AUG-97		EDXRF

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L971680-65	16-JUL-97	SS1A8-7A	AS	51	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	59	PPM	LCS	13-AUG-97		EDXRF
			CU	980	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	520	PPM	LCS	13-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF
L971680-66	16-JUL-97	SS1A8-7B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	22	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	250	PPM	LCS	13-AUG-97		EDXRF
			FE	1.6	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	220	PPM	LCS	13-AUG-97		EDXRF
L971680-67	16-JUL-97	SS1A8-8A	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	96	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	830	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	770	PPM	LCS	13-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1200	PPM	LCS	13-AUG-97		EDXRF
L971680-68	16-JUL-97	SS1A8-8B	AS	39	PPM	LCS	13-AUG-97		EDXRF
			CD	31	PPM	LCS	13-AUG-97		EDXRF
			CR	44	PPM	LCS	13-AUG-97		EDXRF
			CU	1500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.1	%	LCS	13-AUG-97		EDXRF
			PB	1400	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1100	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-69	16-JUL-97	SS1A8-9A	AS	1000	PPM	LCS	13-AUG-97		EDXRF
			CD	310	PPM	LCS	13-AUG-97		EDXRF
			CR	120	PPM	LCS	13-AUG-97		EDXRF
			CU	22000	PPM	LCS	13-AUG-97		EDXRF
			FE	5.4	%	LCS	13-AUG-97		EDXRF
			PB	8900	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	35	PPM	LCS	13-AUG-97		EDXRF
			ZN	8000	PPM	LCS	13-AUG-97		EDXRF
L971680-70	16-JUL-97	SS1A8-9B	AS	530	PPM	LCS	13-AUG-97		EDXRF
			CD	270	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	7300	PPM	LCS	13-AUG-97		EDXRF
			FE	3.0	%	LCS	13-AUG-97		EDXRF
			PB	11000	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	37	PPM	LCS	13-AUG-97		EDXRF
			ZN	5100	PPM	LCS	13-AUG-97		EDXRF
L971680-71	17-JUL-97	SSENT1-1A	AS	470	PPM	LCS	13-AUG-97		EDXRF
			CD	75	PPM	LCS	13-AUG-97		EDXRF
			CR	69	PPM	LCS	13-AUG-97		EDXRF
			CU	9800	PPM	LCS	13-AUG-97		EDXRF
			FE	5.6	%	LCS	13-AUG-97		EDXRF
			PB	5700	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	5700	PPM	LCS	13-AUG-97		EDXRF
L971680-72	17-JUL-97	SSENT1-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	43	PPM	LCS	13-AUG-97		EDXRF
			CU	230	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	300	PPM	LCS	13-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF

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L971680-73	17-JUL-97	SSENT2-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	180	PPM	LCS	13-AUG-97		EDXRF
			CU	8400	PPM	LCS	13-AUG-97		EDXRF
			FE	3.4	%	LCS	13-AUG-97		EDXRF
			PB	3300	PPM	LCS	13-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	15	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-74	17-JUL-97	SSENT2-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	60	PPM	LCS	13-AUG-97		EDXRF
			CU	400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.4	%	LCS	13-AUG-97		EDXRF
			PB	330	PPM	LCS	13-AUG-97		EDXRF
			PH	9.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	210	PPM	LCS	13-AUG-97		EDXRF
L971680-75	17-JUL-97	SSENT3-A	AS	340	PPM	LCS	13-AUG-97		EDXRF
			CD	99	PPM	LCS	13-AUG-97		EDXRF
			CR	130	PPM	LCS	13-AUG-97		EDXRF
			CU	8100	PPM	LCS	13-AUG-97		EDXRF
			FE	2.7	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	18	PPM	LCS	13-AUG-97		EDXRF
			ZN	3000	PPM	LCS	13-AUG-97		EDXRF
L971680-76	17-JUL-97	SSENT3-B	AS	34	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	110	PPM	LCS	13-AUG-97		EDXRF
			CU	170	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	160	PPM	LCS	13-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	160	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-77	17-JUL-97	SSENT4-A	AS	190	PPM	LCS	13-AUG-97		EDXRF
			CD	80	PPM	LCS	13-AUG-97		EDXRF
			CR	66	PPM	LCS	13-AUG-97		EDXRF
			CU	4000	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	1800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-78	17-JUL-97	SSENT4-B	AS	35	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	64	PPM	LCS	13-AUG-97		EDXRF
			CU	49	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	37	PPM	LCS	13-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	69	PPM	LCS	13-AUG-97		EDXRF
L971680-79	17-JUL-97	SSENT5-A	AS	750	PPM	LCS	13-AUG-97		EDXRF
			CD	160	PPM	LCS	13-AUG-97		EDXRF
			CR	200	PPM	LCS	13-AUG-97		EDXRF
			CU	12000	PPM	LCS	13-AUG-97		EDXRF
			FE	3.1	%	LCS	13-AUG-97		EDXRF
			PB	5400	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	3600	PPM	LCS	13-AUG-97		EDXRF
L971680-80	17-JUL-97	SSENT5-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	12	PPM	LCS	13-AUG-97		EDXRF
			CR	90	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	280	PPM	LCS	13-AUG-97		EDXRF
			PH	8.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	180	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-81	17-JUL-97	SSENT5-B2	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.2	%	LCS	13-AUG-97		EDXRF
			PB	210	PPM	LCS	13-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	170	PPM	LCS	13-AUG-97		EDXRF
L971680-82	17-JUL-97	SSENT6-A	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	100	PPM	LCS	13-AUG-97		EDXRF
			CR	73	PPM	LCS	13-AUG-97		EDXRF
			CU	5500	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3800	PPM	LCS	13-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	16	PPM	LCS	13-AUG-97		EDXRF
			ZN	2500	PPM	LCS	13-AUG-97		EDXRF
L971680-83	17-JUL-97	SSENT6-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	34	PPM	LCS	13-AUG-97		EDXRF
			CR	47	PPM	LCS	13-AUG-97		EDXRF
			CU	1800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.3	%	LCS	13-AUG-97		EDXRF
			PB	2200	PPM	LCS	13-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	1500	PPM	LCS	13-AUG-97		EDXRF
L971680-84	17-JUL-97	SSENT7-A	AS	250	PPM	LCS	13-AUG-97		EDXRF
			CD	93	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	8300	PPM	LCS	13-AUG-97		EDXRF
			FE	2.8	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	2400	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971680-85	17-JUL-97	SSENT7-B	AS	<20	PPM	LCS	13-AUG-97		EDXRF
			CD	<10	PPM	LCS	13-AUG-97		EDXRF
			CR	100	PPM	LCS	13-AUG-97		EDXRF
			CU	33	PPM	LCS	13-AUG-97		EDXRF
			FE	1.8	%	LCS	13-AUG-97		EDXRF
			PB	30	PPM	LCS	13-AUG-97		EDXRF
			PH	9.1	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	13-AUG-97		EDXRF
			ZN	41	PPM	LCS	13-AUG-97		EDXRF
L971680-86	17-JUL-97	SSENT8-A	AS	520	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	88	PPM	LCS	13-AUG-97		EDXRF
			CU	5700	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	3000	PPM	LCS	13-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97	9045	
			SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2100	PPM	LCS	13-AUG-97		EDXRF
L971680-87	17-JUL-97	SSENT8-A2	AS	450	PPM	LCS	13-AUG-97		EDXRF
			CD	120	PPM	LCS	13-AUG-97		EDXRF
			CR	170	PPM	LCS	13-AUG-97		EDXRF
			CU	5800	PPM	LCS	13-AUG-97		EDXRF
			FE	2.6	%	LCS	13-AUG-97		EDXRF
			PB	2800	PPM	LCS	13-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97	9045	
			SE	11	PPM	LCS	13-AUG-97		EDXRF
			ZN	2000	PPM	LCS	13-AUG-97		EDXRF
L971680-88	17-JUL-97	SSENT8-B	AS	710	PPM	LCS	13-AUG-97		EDXRF
			CD	250	PPM	LCS	13-AUG-97		EDXRF
			CR	<30	PPM	LCS	13-AUG-97		EDXRF
			CU	1400	PPM	LCS	13-AUG-97		EDXRF
			FE	2.0	%	LCS	13-AUG-97		EDXRF
			PB	1300	PPM	LCS	13-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97	9045	
			SE	12	PPM	LCS	13-AUG-97		EDXRF
			ZN	910	PPM	LCS	13-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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Batch No: L971470

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971470-1		EP-7682	AS	380	PPM	LCS	13-AUG-97		EDXRF
			CD	16	PPM	LCS	13-AUG-97		EDXRF
			CR	380	PPM	LCS	13-AUG-97		EDXRF
			CU	5000	PPM	LCS	13-AUG-97		EDXRF
			FE	15	%	LCS	13-AUG-97		EDXRF
			PB	3500	PPM	LCS	13-AUG-97		EDXRF
			PH	10.1	pH	DC	09-SEP-97		9045
			SE	83	PPM	LCS	13-AUG-97		EDXRF
			ZN	11	%	LCS	13-AUG-97		EDXRF


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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-1	17-JUL-97	SS1A8-10A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	13	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	160	PPM	LCS	15-AUG-97		EDXRF
			FE	1.0	%	LCS	15-AUG-97		EDXRF
			PB	68	PPM	LCS	15-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-2	17-JUL-97	SS1A8-10B	AS	53	PPM	LCS	15-AUG-97		EDXRF
			CD	66	PPM	LCS	15-AUG-97		EDXRF
			CR	90	PPM	LCS	15-AUG-97		EDXRF
			CU	750	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	890	PPM	LCS	15-AUG-97		EDXRF
L971715-3	17-JUL-97	SS1A8-11A	AS	910	PPM	LCS	15-AUG-97		EDXRF
			CD	430	PPM	LCS	15-AUG-97		EDXRF
			CR	33	PPM	LCS	15-AUG-97		EDXRF
			CU	20000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	3200	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97	9045	
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	6300	PPM	LCS	15-AUG-97		EDXRF
L971715-4	17-JUL-97	SS1A8-11B	AS	62	PPM	LCS	15-AUG-97		EDXRF
			CD	86	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	2700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.1	%	LCS	15-AUG-97		EDXRF
			PB	3700	PPM	LCS	15-AUG-97		EDXRF
			PH	7.5	pH	DC	09-SEP-97	9045	
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1100	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-5	17-JUL-97	SS1A8-12A	AS	150	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	36	PPM	LCS	15-AUG-97		EDXRF
			CU	5100	PPM	LCS	15-AUG-97		EDXRF
			FE	1.7	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF
L971715-6	17-JUL-97	SS1A8-12B	AS	480	PPM	LCS	15-AUG-97		EDXRF
			CD	78	PPM	LCS	15-AUG-97		EDXRF
			CR	66	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	3.2	%	LCS	15-AUG-97		EDXRF
			PB	4900	PPM	LCS	15-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2400	PPM	LCS	15-AUG-97		EDXRF
L971715-7	17-JUL-97	SS1A8-13A	AS	33	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	980	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	230	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	250	PPM	LCS	15-AUG-97		EDXRF
L971715-8	17-JUL-97	SS1A8-13B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	49	PPM	LCS	15-AUG-97		EDXRF
			CR	72	PPM	LCS	15-AUG-97		EDXRF
			CU	8300	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	3100	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2000	PPM	LCS	15-AUG-97		EDXRF

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L971715-9	17-JUL-97	SS1A8-14A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	55	PPM	LCS	15-AUG-97		EDXRF
			CU	280	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	83	PPM	LCS	15-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	93	PPM	LCS	15-AUG-97		EDXRF
L971715-10	17-JUL-97	SS1A8-14A2	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	270	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	73	PPM	LCS	15-AUG-97		EDXRF
			PH	8.9	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	75	PPM	LCS	15-AUG-97		EDXRF
L971715-11	17-JUL-97	SS1A8-14B	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	25	PPM	LCS	15-AUG-97		EDXRF
			CR	350	PPM	LCS	15-AUG-97		EDXRF
			CU	4900	PPM	LCS	15-AUG-97		EDXRF
			FE	15	%	LCS	15-AUG-97		EDXRF
			PB	1200	PPM	LCS	15-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97	9045	
			SE	23	PPM	LCS	15-AUG-97		EDXRF
			ZN	13000	PPM	LCS	15-AUG-97		EDXRF
L971715-12	18-JUL-97	SS1A8-15A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	11	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	1600	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	160	PPM	LCS	15-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97	9045	
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	370	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-13	18-JUL-97	SS1A8-15B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	14	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	1900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.6	%	LCS	15-AUG-97		EDXRF
			PB	900	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	480	PPM	LCS	15-AUG-97		EDXRF
L971715-14	18-JUL-97	SS1A8-16A	AS	930	PPM	LCS	15-AUG-97		EDXRF
			CD	240	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.1	%	LCS	15-AUG-97		EDXRF
			PB	4000	PPM	LCS	15-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	5000	PPM	LCS	15-AUG-97		EDXRF
L971715-15	18-JUL-97	SS1A8-16B	AS	370	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	92	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	10000	PPM	LCS	15-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97		9045
			SE	27	PPM	LCS	15-AUG-97		EDXRF
			ZN	4000	PPM	LCS	15-AUG-97		EDXRF
L971715-16	18-JUL-97	SS1A8-17A	AS	98	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	30	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	470	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	680	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-17	18-JUL-97	SS1A8-17B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	710	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	380	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	440	PPM	LCS	15-AUG-97		EDXRF
L971715-18	18-JUL-97	SS1A8-18A	AS	260	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	890	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	300	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	790	PPM	LCS	15-AUG-97		EDXRF
L971715-19	18-JUL-97	SS1A8-18A2	AS	280	PPM	LCS	15-AUG-97		EDXRF
			CD	100	PPM	LCS	15-AUG-97		EDXRF
			CR	87	PPM	LCS	15-AUG-97		EDXRF
			CU	800	PPM	LCS	15-AUG-97		EDXRF
			FE	1.3	%	LCS	15-AUG-97		EDXRF
			PB	240	PPM	LCS	15-AUG-97		EDXRF
			PH	8.5	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	840	PPM	LCS	15-AUG-97		EDXRF
L971715-20	18-JUL-97	SS1A8-18B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	99	PPM	LCS	15-AUG-97		EDXRF
			CR	77	PPM	LCS	15-AUG-97		EDXRF
			CU	3700	PPM	LCS	15-AUG-97		EDXRF
			FE	2.1	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	2600	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-21	18-JUL-97	SS1A8-19A	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	76	PPM	LCS	15-AUG-97		EDXRF
			CU	1200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	350	PPM	LCS	15-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	280	PPM	LCS	15-AUG-97		EDXRF
L971715-22	18-JUL-97	SS1A8-19B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	48	PPM	LCS	15-AUG-97		EDXRF
			CU	560	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	560	PPM	LCS	15-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	470	PPM	LCS	15-AUG-97		EDXRF
L971715-23	18-JUL-97	SS1A8-20A	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	64	PPM	LCS	15-AUG-97		EDXRF
			CU	200	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	95	PPM	LCS	15-AUG-97		EDXRF
			PH	8.3	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	130	PPM	LCS	15-AUG-97		EDXRF
L971715-24	18-JUL-97	SS1A8-20B	AS	330	PPM	LCS	15-AUG-97		EDXRF
			CD	89	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	10000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	3900	PPM	LCS	15-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	38	PPM	LCS	15-AUG-97		EDXRF
			ZN	15000	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-25	18-JUL-97	SS1A8-21A	AS	460	PPM	LCS	15-AUG-97		EDXRF
			CD	300	PPM	LCS	15-AUG-97		EDXRF
			CR	59	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	1400	PPM	LCS	15-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97	9045	
			SE	21	PPM	LCS	15-AUG-97		EDXRF
			ZN	5900	PPM	LCS	15-AUG-97		EDXRF
L971715-26	18-JUL-97	SS1A8-21B	AS	780	PPM	LCS	15-AUG-97		EDXRF
			CD	110	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	19000	PPM	LCS	15-AUG-97		EDXRF
			FE	2.7	%	LCS	15-AUG-97		EDXRF
			PB	2900	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97	9045	
			SE	15	PPM	LCS	15-AUG-97		EDXRF
			ZN	3200	PPM	LCS	15-AUG-97		EDXRF
L971715-27	18-JUL-97	SS1A8-22A	AS	6600	PPM	LCS	15-AUG-97		EDXRF
			CD	1400	PPM	LCS	15-AUG-97		EDXRF
			CR	110	PPM	LCS	15-AUG-97		EDXRF
			CU	23000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.6	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	7.9	pH	DC	09-SEP-97	9045	
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	7600	PPM	LCS	15-AUG-97		EDXRF
L971715-28	18-JUL-97	SS1A8-22B	AS	2600	PPM	LCS	15-AUG-97		EDXRF
			CD	600	PPM	LCS	15-AUG-97		EDXRF
			CR	45	PPM	LCS	15-AUG-97		EDXRF
			CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	2.4	%	LCS	15-AUG-97		EDXRF
			PB	1500	PPM	LCS	15-AUG-97		EDXRF
			PH	7.3	pH	DC	09-SEP-97	9045	
			SE	24	PPM	LCS	15-AUG-97		EDXRF
			ZN	2300	PPM	LCS	15-AUG-97		EDXRF

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L971715-29	18-JUL-97	SS1A8-23A	AS	140	PPM	LCS	15-AUG-97		EDXRF
			CD	29	PPM	LCS	15-AUG-97		EDXRF
			CR	97	PPM	LCS	15-AUG-97		EDXRF
			CU	820	PPM	LCS	15-AUG-97		EDXRF
			FE	1.2	%	LCS	15-AUG-97		EDXRF
			PB	590	PPM	LCS	15-AUG-97		EDXRF
			PH	9.2	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1500	PPM	LCS	15-AUG-97		EDXRF
L971715-30	18-JUL-97	SS1A8-23B	AS	<20	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	65	PPM	LCS	15-AUG-97		EDXRF
			CU	570	PPM	LCS	15-AUG-97		EDXRF
			FE	1.5	%	LCS	15-AUG-97		EDXRF
			PB	490	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	420	PPM	LCS	15-AUG-97		EDXRF
L971715-31	18-JUL-97	SS1A8-24A	AS	110	PPM	LCS	15-AUG-97		EDXRF
			CD	21	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	2900	PPM	LCS	15-AUG-97		EDXRF
			FE	1.8	%	LCS	15-AUG-97		EDXRF
			PB	550	PPM	LCS	15-AUG-97		EDXRF
			PH	8.6	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1000	PPM	LCS	15-AUG-97		EDXRF
L971715-32	18-JUL-97	SS1A8-24B	AS	44	PPM	LCS	15-AUG-97		EDXRF
			CD	190	PPM	LCS	15-AUG-97		EDXRF
			CR	88	PPM	LCS	15-AUG-97		EDXRF
			CU	2000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.0	%	LCS	15-AUG-97		EDXRF
			PB	850	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	19	PPM	LCS	15-AUG-97		EDXRF
			ZN	2100	PPM	LCS	15-AUG-97		EDXRF

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L971715-33	18-JUL-97	SS1A8-25A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	170	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	5.9	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			PH	8.4	pH	DC	09-SEP-97		9045
			SE	180	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-34	18-JUL-97	SS1A8-25B	AS	900	PPM	LCS	15-AUG-97		EDXRF
			CD	120	PPM	LCS	15-AUG-97		EDXRF
			CR	99	PPM	LCS	15-AUG-97		EDXRF
			CU	9800	PPM	LCS	15-AUG-97		EDXRF
			FE	14	%	LCS	15-AUG-97		EDXRF
			PB	3600	PPM	LCS	15-AUG-97		EDXRF
			PH	8.1	pH	DC	09-SEP-97		9045
			SE	31	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF
L971715-35	18-JUL-97	SS1A8-26A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	520	PPM	LCS	15-AUG-97		EDXRF
			CR	85	PPM	LCS	15-AUG-97		EDXRF
			CU	11	%	LCS	15-AUG-97		EDXRF
			FE	11	%	LCS	15-AUG-97		EDXRF
			PB	25000	PPM	LCS	15-AUG-97		EDXRF
			PH	5.7	pH	DC	09-SEP-97		9045
			SE	94	PPM	LCS	15-AUG-97		EDXRF
			ZN	12000	PPM	LCS	15-AUG-97		EDXRF
L971715-36	18-JUL-97	SS1A8-26B	AS	290	PPM	LCS	15-AUG-97		EDXRF
			CD	410	PPM	LCS	15-AUG-97		EDXRF
			CR	120	PPM	LCS	15-AUG-97		EDXRF
			CU	9500	PPM	LCS	15-AUG-97		EDXRF
			FE	16	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	6.7	pH	DC	09-SEP-97		9045
			SE	10	PPM	LCS	15-AUG-97		EDXRF
			ZN	33000	PPM	LCS	15-AUG-97		EDXRF

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L971715-37	18-JUL-97	SS1A8-27A	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	380	PPM	LCS	15-AUG-97		EDXRF
			CR	290	PPM	LCS	15-AUG-97		EDXRF
			CU	96000	PPM	LCS	15-AUG-97		EDXRF
			FE	7.0	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	8.2	pH	DC	09-SEP-97		9045
			SE	98	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF
L971715-38	18-JUL-97	SS1A8-27B	AS	240	PPM	LCS	15-AUG-97		EDXRF
			CD	33	PPM	LCS	15-AUG-97		EDXRF
			CR	31	PPM	LCS	15-AUG-97		EDXRF
			CU	8800	PPM	LCS	15-AUG-97		EDXRF
			FE	2.0	%	LCS	15-AUG-97		EDXRF
			PB	790	PPM	LCS	15-AUG-97		EDXRF
			PH	8.7	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	1200	PPM	LCS	15-AUG-97		EDXRF
L971715-39	18-JUL-97	SS1A8-28A	AS	4400	PPM	LCS	15-AUG-97		EDXRF
			CD	1800	PPM	LCS	15-AUG-97		EDXRF
			CR	210	PPM	LCS	15-AUG-97		EDXRF
			CU	22000	PPM	LCS	15-AUG-97		EDXRF
			FE	3.3	%	LCS	15-AUG-97		EDXRF
			PB	7300	PPM	LCS	15-AUG-97		EDXRF
			PH	8.0	pH	DC	09-SEP-97		9045
			SE	39	PPM	LCS	15-AUG-97		EDXRF
			ZN	6100	PPM	LCS	15-AUG-97		EDXRF
L971715-40	18-JUL-97	SS1A8-28B	AS	3300	PPM	LCS	15-AUG-97		EDXRF
			CD	1300	PPM	LCS	15-AUG-97		EDXRF
			CR	100	PPM	LCS	15-AUG-97		EDXRF
			CU	12000	PPM	LCS	15-AUG-97		EDXRF
			FE	4.9	%	LCS	15-AUG-97		EDXRF
			PB	19000	PPM	LCS	15-AUG-97		EDXRF
			PH	7.5	pH	DC	09-SEP-97		9045
			SE	53	PPM	LCS	15-AUG-97		EDXRF
			ZN	19000	PPM	LCS	15-AUG-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L971715-41	18-JUL-97	SS1A8-29A	AS	2900	PPM	LCS	15-AUG-97		EDXRF
			CD	470	PPM	LCS	15-AUG-97		EDXRF
			CR	520	PPM	LCS	15-AUG-97		EDXRF
			CU	65000	PPM	LCS	15-AUG-97		EDXRF
			FE	13	%	LCS	15-AUG-97		EDXRF
			PB	9700	PPM	LCS	15-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	160	PPM	LCS	15-AUG-97		EDXRF
			ZN	16000	PPM	LCS	15-AUG-97		EDXRF
L971715-42	18-JUL-97	SS1A8-29B	AS	1100	PPM	LCS	15-AUG-97		EDXRF
			CD	350	PPM	LCS	15-AUG-97		EDXRF
			CR	230	PPM	LCS	15-AUG-97		EDXRF
			CU	31000	PPM	LCS	15-AUG-97		EDXRF
			FE	12	%	LCS	15-AUG-97		EDXRF
			PB	22000	PPM	LCS	15-AUG-97		EDXRF
			PH	7.5	pH	DC	09-SEP-97		9045
			SE	60	PPM	LCS	15-AUG-97		EDXRF
			ZN	24000	PPM	LCS	15-AUG-97		EDXRF
L971715-43	18-JUL-97	SS1A8-30A	AS	2000	PPM	LCS	15-AUG-97		EDXRF
			CD	840	PPM	LCS	15-AUG-97		EDXRF
			CR	70	PPM	LCS	15-AUG-97		EDXRF
			CU	19	%	LCS	15-AUG-97		EDXRF
			FE	7.8	%	LCS	15-AUG-97		EDXRF
			PB	20000	PPM	LCS	15-AUG-97		EDXRF
			PH	5.6	pH	DC	09-SEP-97		9045
			SE	73	PPM	LCS	15-AUG-97		EDXRF
			ZN	9400	PPM	LCS	15-AUG-97		EDXRF
L971715-44	18-JUL-97	SS1A8-30A2	AS	2300	PPM	LCS	15-AUG-97		EDXRF
			CD	910	PPM	LCS	15-AUG-97		EDXRF
			CR	150	PPM	LCS	15-AUG-97		EDXRF
			CU	18	%	LCS	15-AUG-97		EDXRF
			FE	7.2	%	LCS	15-AUG-97		EDXRF
			PB	17000	PPM	LCS	15-AUG-97		EDXRF
			PH	5.4	pH	DC	09-SEP-97		9045
			SE	74	PPM	LCS	15-AUG-97		EDXRF
			ZN	11000	PPM	LCS	15-AUG-97		EDXRF

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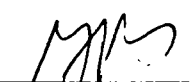
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L971715-45	18-JUL-97	SS1A8-30B	AS	220	PPM	LCS	15-AUG-97		EDXRF
			CD	36	PPM	LCS	15-AUG-97		EDXRF
			CR	250	PPM	LCS	15-AUG-97		EDXRF
			CU	21000	PPM	LCS	15-AUG-97		EDXRF
			FE	21	%	LCS	15-AUG-97		EDXRF
			PB	8100	PPM	LCS	15-AUG-97		EDXRF
			PH	5.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	10000	PPM	LCS	15-AUG-97		EDXRF
L971715-46	18-JUL-97	SS1A8-31A	AS	48	PPM	LCS	15-AUG-97		EDXRF
			CD	<10	PPM	LCS	15-AUG-97		EDXRF
			CR	<30	PPM	LCS	15-AUG-97		EDXRF
			CU	400	PPM	LCS	15-AUG-97		EDXRF
			FE	1.4	%	LCS	15-AUG-97		EDXRF
			PB	400	PPM	LCS	15-AUG-97		EDXRF
			PH	9.0	pH	DC	09-SEP-97		9045
			SE	<10	PPM	LCS	15-AUG-97		EDXRF
			ZN	400	PPM	LCS	15-AUG-97		EDXRF
L971715-47	18-JUL-97	SS1A8-31B	AS	94	PPM	LCS	15-AUG-97		EDXRF
			CD	280	PPM	LCS	15-AUG-97		EDXRF
			CR	80	PPM	LCS	15-AUG-97		EDXRF
			CU	6500	PPM	LCS	15-AUG-97		EDXRF
			FE	2.6	%	LCS	15-AUG-97		EDXRF
			PB	9900	PPM	LCS	15-AUG-97		EDXRF
			PH	7.8	pH	DC	09-SEP-97		9045
			SE	40	PPM	LCS	15-AUG-97		EDXRF
			ZN	7300	PPM	LCS	15-AUG-97		EDXRF


 Approved


 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971368

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971368-3		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97	9045	
WG971368-4		Duplicate	PH	<1	% RPD	DC	09-SEP-97	9045	
WG971368-8		Laboratory Control	PH	100	% RECOVERY	DC	09-SEP-97	9045	
WG971368-9		Duplicate	PH	1.5	% RPD	DC	09-SEP-97	9045	
WG971368-13		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97	9045	
WG971368-14		Duplicate	PH	<1	% RPD	DC	09-SEP-97	9045	
WG971368-18		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97	9045	
WG971368-19		Duplicate	PH	<1	% RPD	DC	09-SEP-97	9045	
WG971368-23		Laboratory Control	PH	98	% RECOVERY	DC	09-SEP-97	9045	
WG971368-24		Duplicate	PH	<1	% RPD	DC	09-SEP-97	9045	
WG971368-28		Laboratory Control	PH	100	% RECOVERY	DC	09-SEP-97	9045	
WG971368-29		Duplicate	PH	1.3	% RPD	DC	09-SEP-97	9045	
WG971368-33		Laboratory Control	PH	100	% RECOVERY	DC	09-SEP-97	9045	
WG971368-34		Duplicate	PH	<1	% RPD	DC	09-SEP-97	9045	

Approved

Reviewer

RECEIVED

OCT 27 1997

HYDROMETRICS, INC.

October 23, 1997

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

Please find attached the analytical results for five samples collected on May 28, through July 15, 1997 from the ASARCO EL Paso Plant Site.

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on October 3, 1997.

Sincerely,


Milan Mraz
Chemist

MM/jh
Attach.

cc: Jvanek (w/attach.)
GRStanga "



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972383

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972383-1	11-JUN-97	EP-71RA	HF Digestion(L971334-1 & L971526-1)						
			AS	1117.	ppm	JJT	21-OCT-97	6010	
			CD	99.	ppm	MM	21-OCT-97	6010	
			CR	93.	ppm	JJT	21-OCT-97	6010	
			CU	21590.	ppm	JJT	21-OCT-97	6010	
			FE	49800.	ppm	MM	21-OCT-97	6010	
			PB	6516.	ppm	MM	21-OCT-97	6010	
			SE	36.	ppm	JJT	21-OCT-97	6010	
L972383-2	28-MAY-97	EP-67B	HF Digestion(L971239-2 & L971526-3)						
			AS	229.	ppm	JJT	21-OCT-97	6010	
			CD	159.	ppm	MM	21-OCT-97	6010	
			CR	68.	ppm	JJT	21-OCT-97	6010	
			CU	1631.	ppm	JJT	21-OCT-97	6010	
			FE	20150.	ppm	MM	21-OCT-97	6010	
			PB	429.	ppm	MM	21-OCT-97	6010	
			SE	<10.	ppm	JJT	21-OCT-97	6010	
L972383-3	28-MAY-97	EP-67C	HF Digestion(L971239-3 & L971526-4)						
			AS	189.	ppm	JJT	21-OCT-97	6010	
			CD	48.	ppm	MM	21-OCT-97	6010	
			CR	65.	ppm	JJT	21-OCT-97	6010	
			CU	228.	ppm	JJT	21-OCT-97	6010	
			FE	19570.	ppm	MM	21-OCT-97	6010	
			PB	20.	ppm	MM	21-OCT-97	6010	
			SE	<10.	ppm	JJT	21-OCT-97	6010	
L972383-4	19-JUN-97	RIBH-1A	HF Digestion(L971545-1 & L971749-1)						
			AS	2625.	ppm	JJT	21-OCT-97	6010	
			CD	1940.	ppm	MM	21-OCT-97	6010	
			CR	201.	ppm	JJT	21-OCT-97	6010	
			CU	3660.	ppm	JJT	21-OCT-97	6010	
			FE	144500.	ppm	MM	21-OCT-97	6010	
			PB	10530.	ppm	MM	21-OCT-97	6010	
			SE	32.	ppm	JJT	21-OCT-97	6010	
L972383-5	15-JUL-97	SS1A3-98	HF Digestion(L971680-34 & L971910-2)						
			AS	532.	ppm	JJT	21-OCT-97	6010	
			CD	259.	ppm	MM	21-OCT-97	6010	
			CR	74.	ppm	JJT	21-OCT-97	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972383

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972383-5	15-JUL-97	SS1A3-9B	HF Digestion(L971680-34 & L971910-2)						
			CU	2253.	ppm	JJT	21-OCT-97	6010	
			FE	21800.	ppm	MM	21-OCT-97	6010	
			PB	2167.	ppm	MM	21-OCT-97	6010	
			SE	15.	ppm	JJT	21-OCT-97	6010	
			ZN	2333.	ppm	MM	21-OCT-97	6010	


ApprovedE. B. Huber
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971567

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971567-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	100.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	10.	ppm				6010


ApprovedE. B. Kuhn
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971567

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971567-1		Matrix Spike	AS	83.	% RECOVERY	JJT	21-OCT-97	6010	
			CD	92.	% RECOVERY	MM	21-OCT-97	6010	
			CR	93.	% RECOVERY	JJT	21-OCT-97	6010	
			CU	76.	% RECOVERY	JJT	21-OCT-97	6010	
			FE	SR>4XSA	% RECOVERY	MM	21-OCT-97	6010	
			PB	89.	% RECOVERY	MM	21-OCT-97	6010	
			SE	81.	% RECOVERY	JJT	21-OCT-97	6010	
			ZN	85.	% RECOVERY	MM	21-OCT-97	6010	
WG971567-2		Prep Blank	AS	<10.	ppm	JJT	21-OCT-97	6010	
			CD	<5.0	ppm	MM	21-OCT-97	6010	
			CR	<10.	ppm	JJT	21-OCT-97	6010	
			CU	<10.	ppm	JJT	21-OCT-97	6010	
			FE	<100.	ppm	MM	21-OCT-97	6010	
			PB	<10.	ppm	MM	21-OCT-97	6010	
			SE	<10.	ppm	JJT	21-OCT-97	6010	
			ZN	<10.	ppm	MM	21-OCT-97	6010	
WG971567-3		Laboratory Control	AS	87.	% RECOVERY	JJT	21-OCT-97	6010	
			CD	91.	% RECOVERY	MM	21-OCT-97	6010	
			CR	79.	% RECOVERY	JJT	21-OCT-97	6010	
			CU	102.	% RECOVERY	JJT	21-OCT-97	6010	
			FE	89.	% RECOVERY	MM	21-OCT-97	6010	
			PB	92.	% RECOVERY	MM	21-OCT-97	6010	
			SE	113.	% RECOVERY	JJT	21-OCT-97	6010	
			ZN	89.	% RECOVERY	MM	21-OCT-97	6010	
WG971567-4		Duplicate	AS	<1.0	% RPD	JJT	21-OCT-97	6010	
			CD	-2.0	% RPD	MM	21-OCT-97	6010	
			CR	5.9	% RPD	JJT	21-OCT-97	6010	
			CU	1.2	% RPD	JJT	21-OCT-97	6010	
			FE	-3.5	% RPD	MM	21-OCT-97	6010	
			PB	-3.5	% RPD	MM	21-OCT-97	6010	
			SE	1.6	% RPD	JJT	21-OCT-97	6010	
			ZN	-1.4	% RPD	MM	21-OCT-97	6010	
WG971567-5		Detection Limit	AS	10.	ppm			6010	
			CD	5.0	ppm			6010	
			CR	10.	ppm			6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

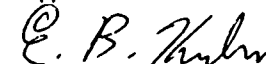
El Paso

Technical Services (Project 3201)

Batch No: WG971567

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971567-5		Detection Limit	CU	10.	ppm				6010
			FE	100.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	10.	ppm				6010

Approved



Reviewer

ASARCO

November 19, 1997

RECEIVED

NOV 24 1997

HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the analytical results for thirty five samples collected on May 28 through July 18, 1997 from the ASARCO EL Paso Plant Site.

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on October 29, 1997.

Sincerely,


Milan Mraz
Chemist

MM/mo
Attach.

cc: GRStanga (w/attach.)
JVanek "

0734.502.100

Re submit of Conf Sample



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-1	28-MAY-97	EP-67A	Resub (L971239-1/L971526-2)	AS	1210.	ppm	MM	10-NOV-97	6010
			CD	334.	ppm	MM	10-NOV-97	6010	
			CR	78.	ppm	JJT	14-NOV-97	6010	
			CU	17290.	ppm	MM	10-NOV-97	6010	
			FE	24040.	ppm	MM	10-NOV-97	6010	
			PB	8750.	ppm	MM	10-NOV-97	6010	
			SE	27.	ppm	JJT	14-NOV-97	6010	
			ZN	3689.	ppm	MM	10-NOV-97	6010	
L972604-2	03-JUN-97	EP-76B	Resub (L971325-5/L971526-5)	AS	608.	ppm	MM	10-NOV-97	6010
			CD	14.	ppm	JJT	12-NOV-97	6010	
			CR	539.	ppm	JJT	14-NOV-97	6010	
			CU	5242.	ppm	MM	10-NOV-97	6010	
			FE	229800.	ppm	MM	10-NOV-97	6010	
			PB	5189.	ppm	MM	10-NOV-97	6010	
			SE	103.	ppm	JJT	14-NOV-97	6010	
			ZN	128100.	ppm	MM	10-NOV-97	6010	
L972604-3	13-JUN-97	EP-86D	Resub (L971402-8/L971526-6)	AS	<10.	ppm	JJT	12-NOV-97	6010
			CD	<5.0	ppm	MM	10-NOV-97	6010	
			CR	39.	ppm	JJT	14-NOV-97	6010	
			CU	25.	ppm	MM	10-NOV-97	6010	
			FE	17540.	ppm	MM	10-NOV-97	6010	
			PB	50.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	145.	ppm	MM	10-NOV-97	6010	
L972604-4	04-JUN-97	EP-77A	Resub (L971325-10/L971526-7)	AS	340.	ppm	MM	10-NOV-97	6010
			CD	13.	ppm	MM	10-NOV-97	6010	
			CR	69	ppm	JJT	14-NOV-97	6010	
			CU	1685.	ppm	MM	10-NOV-97	6010	
			FE	101300.	ppm	MM	10-NOV-97	6010	
			PB	2119.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	1005.	ppm	MM	10-NOV-97	6010	
L972604-5	04-JUN-97	EP-77B	Resub (L971325-11/L971526-8)	AS	114.	ppm	JJT	14-NOV-97	6010
			CD	38.	ppm	MM	10-NOV-97	6010	
			CR	73.	ppm	JJT	14-NOV-97	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-5	04-JUN-97	EP-77B	Resub (L971325-11/L971526-8)						
			CU	254.	ppm	MM	10-NOV-97	6010	
			FE	32640.	ppm	MM	10-NOV-97	6010	
			PB	706.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	657.	ppm	MM	10-NOV-97	6010	
L972604-6	11-JUN-97	EP-84C	Resub (L971344-15/L971526-9)						
			AS	15.	ppm	JJT	12-NOV-97	6010	
			CD	<5.0	ppm	MM	10-NOV-97	6010	
			CR	52.	ppm	JJT	14-NOV-97	6010	
			CU	58.	ppm	MM	10-NOV-97	6010	
			FE	20860.	ppm	MM	10-NOV-97	6010	
			PB	47.	ppm	MM	10-NOV-97	6010	
			SE	21.	ppm	JJT	14-NOV-97	6010	
			ZN	138.	ppm	MM	10-NOV-97	6010	
L972604-7	11-JUN-97	EP-84D	Resub (L971344-16/L971526-10)						
			AS	<10.	ppm	JJT	12-NOV-97	6010	
			CD	<5.0	ppm	MM	10-NOV-97	6010	
			CR	54.	ppm	JJT	14-NOV-97	6010	
			CU	38.	ppm	MM	10-NOV-97	6010	
			FE	20170.	ppm	MM	10-NOV-97	6010	
			PB	26.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	92.	ppm	MM	10-NOV-97	6010	
L972604-8	04-JUN-97	EP-78A	Resub (L971325-18/L971526-11)						
			AS	663.	ppm	MM	10-NOV-97	6010	
			CD	37.	ppm	MM	10-NOV-97	6010	
			CR	53.	ppm	JJT	14-NOV-97	6010	
			CU	570.	ppm	MM	10-NOV-97	6010	
			FE	30960.	ppm	MM	10-NOV-97	6010	
			PB	420.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	2111.	ppm	MM	10-NOV-97	6010	
L972604-9	16-JUN-97	EP-88A	Resub (L971402-22/L971526-12)						
			AS	509.	ppm	MM	10-NOV-97	6010	
			CD	110.	ppm	MM	10-NOV-97	6010	
			CR	67.	ppm	JJT	14-NOV-97	6010	
			CU	4069.	ppm	MM	10-NOV-97	6010	
			FE	18280.	ppm	MM	10-NOV-97	6010	
			PB	2776.	ppm	MM	10-NOV-97	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-9	16-JUN-97	EP-88A	Resub (L971402-22/L971526-12)	SE	21.	ppm	JJT	14-NOV-97	6010
				ZN	2574.	ppm	MM	10-NOV-97	6010
L972604-10	18-JUN-97	EP-89A	Resub (L971402-31/L971526-13)	AS	337.	ppm	MM	10-NOV-97	6010
				CD	78.	ppm	MM	10-NOV-97	6010
				CR	57.	ppm	JJT	14-NOV-97	6010
				CU	3969.	ppm	MM	10-NOV-97	6010
				FE	26210.	ppm	MM	10-NOV-97	6010
				PB	8417.	ppm	MM	10-NOV-97	6010
				SE	11.	ppm	JJT	14-NOV-97	6010
				ZN	3429.	ppm	MM	10-NOV-97	6010
L972604-11	18-JUN-97	EP-89B	Resub (L971402-32/L971526-14)	AS	<10.	ppm	JJT	12-NOV-97	6010
				CD	<5.0	ppm	MM	10-NOV-97	6010
				CR	38.	ppm	JJT	14-NOV-97	6010
				CU	33.	ppm	MM	10-NOV-97	6010
				FE	19300.	ppm	MM	10-NOV-97	6010
				PB	38.	ppm	MM	10-NOV-97	6010
				SE	<10.	ppm	JJT	14-NOV-97	6010
				ZN	66.	ppm	MM	10-NOV-97	6010
L972604-12	31-MAY-97	EP-70E	Resub (L971239-32/L971526-15)	AS	286.	ppm	MM	10-NOV-97	6010
				CD	46.	ppm	MM	10-NOV-97	6010
				CR	46.	ppm	JJT	14-NOV-97	6010
				CU	23.	ppm	MM	10-NOV-97	6010
				FE	18870.	ppm	MM	10-NOV-97	6010
				PB	22.	ppm	MM	10-NOV-97	6010
				SE	<10.	ppm	JJT	14-NOV-97	6010
				ZN	651.	ppm	MM	10-NOV-97	6010
L972604-13	12-JUN-97	EP-70RJ	Resub (L971344-34/L971526-16)	AS	<10.	ppm	JJT	12-NOV-97	6010
				CD	<5.0	ppm	MM	10-NOV-97	6010
				CR	41.	ppm	JJT	14-NOV-97	6010
				CU	24.	ppm	MM	10-NOV-97	6010
				FE	13120.	ppm	MM	10-NOV-97	6010
				PB	15.	ppm	MM	10-NOV-97	6010
				SE	<10.	ppm	JJT	14-NOV-97	6010
				ZN	37.	ppm	MM	10-NOV-97	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-14	11-JUN-97	EP-71RE	Resub (L971344-47/L971526-17)						
			AS	<10.	ppm	JJT	12-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	37.	ppm	JJT	14-NOV-97		6010
			CU	25.	ppm	MM	10-NOV-97		6010
			FE	15160.	ppm	MM	10-NOV-97		6010
			PB	25.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
L972604-15	02-JUN-97	EP-74H	ZN	40.	ppm	MM	10-NOV-97		6010
			Resub (L971239-58/L971526-18)						
			AS	<10.	ppm	JJT	12-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	50.	ppm	JJT	14-NOV-97		6010
			CU	20.	ppm	MM	10-NOV-97		6010
			FE	17830.	ppm	MM	10-NOV-97		6010
			PB	24.	ppm	MM	10-NOV-97		6010
L972604-16	02-JUN-97	EP-74I	SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	45.	ppm	MM	10-NOV-97		6010
			Resub (L971239-59/L971526-19)						
			AS	<10.	ppm	JJT	12-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	73.	ppm	JJT	14-NOV-97		6010
			CU	16.	ppm	MM	10-NOV-97		6010
			FE	18190.	ppm	MM	10-NOV-97		6010
L972604-17	02-JUN-97	EP-74K	PB	19.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	44.	ppm	MM	10-NOV-97		6010
			Resub (L971239-61/L971526-20)						
			AS	31.	ppm	JJT	12-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	97.	ppm	JJT	14-NOV-97		6010
			CU	18.	ppm	MM	10-NOV-97		6010
L972604-18	30-JUN-97	RIBH-3A	FE	24150.	ppm	MM	10-NOV-97		6010
			PB	19.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	52.	ppm	MM	10-NOV-97		6010
			Resub (L971545-11/L971749-2)						
			AS	63.	ppm	JJT	12-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	57.	ppm	JJT	14-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-18	30-JUN-97	RIBH-3A	Resub (L971545-11/L971749-2)						
			CU	114.	ppm	MM	10-NOV-97		6010
			FE	28560.	ppm	MM	10-NOV-97		6010
			PB	776.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	1336.	ppm	MM	10-NOV-97		6010
L972604-19	30-JUN-97	RIBH-5A	Resub (L971545-18/L971749-3)						
			AS	27.	ppm	JJT	12-NOV-97		6010
			CD	5.0	ppm	MM	10-NOV-97		6010
			CR	37.	ppm	JJT	14-NOV-97		6010
			CU	311.	ppm	MM	10-NOV-97		6010
			FE	26810.	ppm	MM	10-NOV-97		6010
			PB	236.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	2104.	ppm	MM	10-NOV-97		6010
L972604-20	01-JUL-97	RIBH-10C	Resub (L971545-38/L971749-4)						
			AS	10.	ppm	JJT	12-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	25.	ppm	JJT	14-NOV-97		6010
			CU	16.	ppm	MM	10-NOV-97		6010
			FE	13550.	ppm	MM	10-NOV-97		6010
			PB	20.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	33.	ppm	MM	10-NOV-97		6010
L972604-21	08-JUL-97	SS1A5-9B	Resub (L971637-19/L971749-5)						
			AS	19.	ppm	JJT	12-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	45.	ppm	JJT	12-NOV-97		6010
			CU	168.	ppm	MM	10-NOV-97		6010
			FE	14220.	ppm	MM	10-NOV-97		6010
			PB	73.	ppm	MM	10-NOV-97		6010
			SE	15.	ppm	JJT	14-NOV-97		6010
			ZN	73.	ppm	MM	10-NOV-97		6010
L972604-22	08-JUL-97	SS1A5-3B	Resub (L971637-6/L971749-6)						
			AS	86.	ppm	JJT	12-NOV-97		6010
			CD	16.	ppm	MM	10-NOV-97		6010
			CR	46.	ppm	JJT	12-NOV-97		6010
			CU	963.	ppm	MM	10-NOV-97		6010
			FE	16520.	ppm	MM	10-NOV-97		6010
			PB	668.	ppm	MM	10-NOV-97		6010

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ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-22	08-JUL-97	SS1A5-38	Resub (L971637-6/L971749-6)	SE	<10.	JJT	14-NOV-97		6010
				ZN	479.	MM	10-NOV-97		6010
L972604-23	08-JUL-97	SS1A5-9A	Resub (L971637-18/L971749-7)	AS	120.	JJT	12-NOV-97		6010
				CD	26.	MM	10-NOV-97		6010
				CR	41.	JJT	12-NOV-97		6010
				CU	2125.	MM	10-NOV-97		6010
				FE	19350.	MM	10-NOV-97		6010
				PB	617.	MM	10-NOV-97		6010
				SE	<10.	JJT	14-NOV-97		6010
				ZN	677.	MM	10-NOV-97		6010
L972604-24	14-JUL-97	SS1A3-1A	Resub (L971680-16/L971910-1)	AS	1607.	JJT	12-NOV-97		6010
				CD	349.	MM	10-NOV-97		6010
				CR	141.	JJT	12-NOV-97		6010
				CU	16460.	MM	10-NOV-97		6010
				FE	53560.	MM	10-NOV-97		6010
				PB	4770.	MM	10-NOV-97		6010
				SE	59.	JJT	14-NOV-97		6010
				ZN	5146.	MM	10-NOV-97		6010
L972604-25	14-JUL-97	SS1A5-198	Resub (L971680-51/L971910-3)	AS	38.	JJT	12-NOV-97		6010
				CD	17.	MM	10-NOV-97		6010
				CR	41.	JJT	12-NOV-97		6010
				CU	290.	MM	10-NOV-97		6010
				FE	10690.	MM	10-NOV-97		6010
				PB	216.	MM	10-NOV-97		6010
				SE	<10.	JJT	14-NOV-97		6010
				ZN	281.	MM	10-NOV-97		6010
L972604-26	16-JUL-97	SS1A8-68	Resub (L971680-64/L971910-4)	AS	80.	JJT	12-NOV-97		6010
				CD	43.	MM	10-NOV-97		6010
				CR	61.	JJT	12-NOV-97		6010
				CU	381.	MM	10-NOV-97		6010
				FE	18150.	MM	10-NOV-97		6010
				PB	807.	MM	10-NOV-97		6010
				SE	<10.	JJT	14-NOV-97		6010
				ZN	337.	MM	10-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-27	16-JUL-97	SS1A8-7A	Resub (L971680-65/L971910-5)	AS	87.	ppm	JJT	12-NOV-97	6010
				CD	69.	ppm	MM	10-NOV-97	6010
				CR	30.	ppm	JJT	12-NOV-97	6010
				CU	734.	ppm	MM	10-NOV-97	6010
				FE	14090.	ppm	MM	10-NOV-97	6010
				PB	553.	ppm	MM	10-NOV-97	6010
				SE	<10.	ppm	JJT	14-NOV-97	6010
				ZN	757.	ppm	MM	10-NOV-97	6010
L972604-28	17-JUL-97	SSENT2-A	Resub (L971680-73/L971910-6)	AS	411.	ppm	JJT	12-NOV-97	6010
				CD	72.	ppm	MM	10-NOV-97	6010
				CR	74.	ppm	JJT	12-NOV-97	6010
				CU	5950.	ppm	MM	10-NOV-97	6010
				FE	31850.	ppm	MM	10-NOV-97	6010
				PB	2574.	ppm	MM	10-NOV-97	6010
				SE	15.	ppm	JJT	14-NOV-97	6010
				ZN	3141.	ppm	MM	10-NOV-97	6010
L972604-29	17-JUL-97	SSENT6-A	Resub (L971680-82/L971910-7)	AS	439.	ppm	JJT	12-NOV-97	6010
				CD	76.	ppm	MM	10-NOV-97	6010
				CR	31.	ppm	JJT	12-NOV-97	6010
				CU	3952.	ppm	MM	10-NOV-97	6010
				FE	21190.	ppm	MM	10-NOV-97	6010
				PB	2884.	ppm	MM	10-NOV-97	6010
				SE	<10.	ppm	JJT	14-NOV-97	6010
				ZN	1925.	ppm	MM	10-NOV-97	6010
L972604-30	17-JUL-97	SSENT7-A	Resub (L971680-84/L971910-8)	AS	370.	ppm	JJT	12-NOV-97	6010
				CD	68.	ppm	MM	10-NOV-97	6010
				CR	40.	ppm	JJT	12-NOV-97	6010
				CU	5781.	ppm	MM	10-NOV-97	6010
				FE	23110.	ppm	MM	10-NOV-97	6010
				PB	1973.	ppm	MM	10-NOV-97	6010
				SE	10.	ppm	JJT	14-NOV-97	6010
				ZN	1715.	ppm	MM	10-NOV-97	6010
L972604-31	17-JUL-97	SSENT7-B	Resub (L971680-85/L971910-9)	AS	14.	ppm	JJT	12-NOV-97	6010
				CD	<5.0	ppm	MM	10-NOV-97	6010
				CR	66.	ppm	JJT	12-NOV-97	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-31	17-JUL-97	SSENT7-B	Resub (L971680-85/L971910-9)						
			CU	54.	ppm	MM	10-NOV-97	6010	
			FE	18420.	ppm	MM	10-NOV-97	6010	
			PB	47.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	48.	ppm	MM	10-NOV-97	6010	
L972604-32	17-JUL-97	SS1A8-10A	Resub (L971715-1/L971910-10)						
			AS	12.	ppm	JJT	12-NOV-97	6010	
			CD	<5.0	ppm	MM	10-NOV-97	6010	
			CR	12.	ppm	JJT	12-NOV-97	6010	
			CU	138.	ppm	MM	10-NOV-97	6010	
			FE	6806.	ppm	MM	10-NOV-97	6010	
			PB	50.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	119.	ppm	MM	10-NOV-97	6010	
L972604-33	18-JUL-97	SS1A8-20B	Resub (L971715-24/L971910-11)						
			AS	395.	ppm	JJT	12-NOV-97	6010	
			CD	78.	ppm	MM	10-NOV-97	6010	
			CR	176.	ppm	JJT	12-NOV-97	6010	
			CU	8231.	ppm	MM	10-NOV-97	6010	
			FE	149800.	ppm	MM	10-NOV-97	6010	
			PB	3421.	ppm	MM	10-NOV-97	6010	
			SE	34.	ppm	JJT	14-NOV-97	6010	
			ZN	16950.	ppm	MM	10-NOV-97	6010	
L972604-34	18-JUL-97	SS1A8-28B	Resub (L971910-12)						
			AS	2579.	ppm	JJT	12-NOV-97	6010	
			CD	793.	ppm	MM	10-NOV-97	6010	
			CR	66.	ppm	JJT	12-NOV-97	6010	
			CU	7703.	ppm	MM	10-NOV-97	6010	
			FE	42330.	ppm	MM	10-NOV-97	6010	
			PB	11670.	ppm	MM	10-NOV-97	6010	
			SE	46.	ppm	JJT	14-NOV-97	6010	
			ZN	11810.	ppm	MM	10-NOV-97	6010	
L972604-35	18-JUL-97	SS1A8-30A	Resub (L971715-43/L971910-13)						
			AS	2440.	ppm	JJT	12-NOV-97	6010	
			CD	980.	ppm	MM	10-NOV-97	6010	
			CR	90.	ppm	JJT	12-NOV-97	6010	
			CU	208400.	ppm	MM	10-NOV-97	6010	
			FE	135200.	ppm	MM	10-NOV-97	6010	
			PB	22470.	ppm	MM	10-NOV-97	6010	

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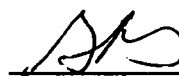
ANALYTICAL DATA REPORT

El Paso

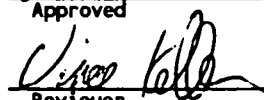
Technical Services (Project 3201)

Batch No: L972604

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972604-35	18-JUL-97	SS1A8-30A	Resub (L971715-43/L971910-13)	SE ZN	91. 13800.	ppm ppm	JJT MM	14-NOV-97 10-NOV-97	6010 6010



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ASARCO TECHNICAL SERVICES CENTER

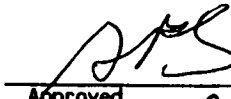
ANALYTICAL DATA REPORT

El Paso

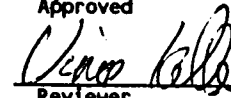
Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				6010



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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-1		Matrix Spike	AS	109.	% RECOVERY	MM	10-NOV-97	6010	
			CD	88.	% RECOVERY	JJT	12-NOV-97	6010	
			CR	42.*	% RECOVERY	JJT	14-NOV-97	6010	
			CU	92.	% RECOVERY	MM	10-NOV-97	6010	
			FE	SR>4XSA	% RECOVERY	MM	10-NOV-97	6010	
			PB	SR>4XSA	% RECOVERY	MM	10-NOV-97	6010	
			SE	100.	% RECOVERY	JJT	14-NOV-97	6010	
			ZN	SR>4XSA	% RECOVERY	MM	10-NOV-97	6010	
WG971670-2		Prep Blank	AS	<10.	ppm	MM	10-NOV-97	6010	
			CD	<5.0	ppm	MM	10-NOV-97	6010	
			CR	<10.	ppm	JJT	14-NOV-97	6010	
			CU	<10.	ppm	MM	10-NOV-97	6010	
			FE	<30.	ppm	MM	10-NOV-97	6010	
			PB	<10.	ppm	MM	10-NOV-97	6010	
			SE	<10.	ppm	JJT	14-NOV-97	6010	
			ZN	<5.0	ppm	MM	10-NOV-97	6010	
WG971670-3		Laboratory Control	AS	116.	% RECOVERY	MM	10-NOV-97	6010	
			CD	92.	% RECOVERY	MM	10-NOV-97	6010	
			CR	126.	% RECOVERY	JJT	14-NOV-97	6010	
			CU	94.	% RECOVERY	MM	10-NOV-97	6010	
			FE	89.	% RECOVERY	MM	10-NOV-97	6010	
			PB	93.	% RECOVERY	MM	10-NOV-97	6010	
			SE	<10.**	ppm	JJT	14-NOV-97	6010	
			ZN	89.	% RECOVERY	MM	10-NOV-97	6010	
WG971670-4		Duplicate	AS	<1.0	% RPD	MM	10-NOV-97	6010	
			CD	2.9	% RPD	MM	10-NOV-97	6010	
			CR	6.2	% RPD	JJT	14-NOV-97	6010	
			CU	1.8	% RPD	MM	10-NOV-97	6010	
			FE	<1.0	% RPD	MM	10-NOV-97	6010	
			PB	-11.	% RPD	MM	10-NOV-97	6010	
			SE	5.4	% RPD	JJT	14-NOV-97	6010	
			ZN	<1.0	% RPD	MM	10-NOV-97	6010	
WG971670-5		Detection Limit	AS	10.	ppm			6010	
			CD	5.0	ppm			6010	
			CR	10.	ppm			6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-5		Detection Limit	CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				6010
WG971670-6		Matrix Spike	AS	118.	% RECOVERY	MM	10-NOV-97		6010
			CD	98.	% RECOVERY	MM	10-NOV-97		6010
			CR	104.	% RECOVERY	JJT	12-NOV-97		6010
			CU	99.	% RECOVERY	MM	10-NOV-97		6010
			FE	SR>4XSA	% RECOVERY	MM	10-NOV-97		6010
			PB	96.	% RECOVERY	MM	10-NOV-97		6010
			SE	101.	% RECOVERY	JJT	14-NOV-97		6010
			ZN	94.	% RECOVERY	MM	10-NOV-97		6010
WG971670-7		Prep Blank	AS	<10.	ppm	MM	10-NOV-97		6010
			CD	<5.0	ppm	MM	10-NOV-97		6010
			CR	<10.	ppm	JJT	12-NOV-97		6010
			CU	<10.	ppm	MM	10-NOV-97		6010
			FE	<30.	ppm	MM	10-NOV-97		6010
			PB	<10.	ppm	MM	10-NOV-97		6010
			SE	<10.	ppm	JJT	14-NOV-97		6010
			ZN	<5.0	ppm	MM	10-NOV-97		6010
WG971670-8		Laboratory Control	AS	105.	% RECOVERY	MM	10-NOV-97		6010
			CD	90.	% RECOVERY	MM	10-NOV-97		6010
			CR	85.	% RECOVERY	JJT	12-NOV-97		6010
			CU	91.	% RECOVERY	MM	10-NOV-97		6010
			FE	86.	% RECOVERY	MM	10-NOV-97		6010
			PB	90.	% RECOVERY	MM	10-NOV-97		6010
			SE	<10.**	ppm	JJT	14-NOV-97		6010
			ZN	87.	% RECOVERY	MM	10-NOV-97		6010
WG971670-9		Duplicate	AS	-5.2	% RPD	MM	10-NOV-97		6010
			CD	<1.0	% RPD	MM	10-NOV-97		6010
			CR	<1.0	% RPD	JJT	12-NOV-97		6010
			CU	5.8	% RPD	MM	10-NOV-97		6010
			FE	4.5	% RPD	MM	10-NOV-97		6010
			PB	8.4	% RPD	MM	10-NOV-97		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso


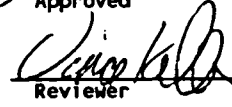
Technical Services (Project 3201)

Batch No: WG971670

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971670-9		Duplicate	SE	+/-CRDL	% RPD	JJT	14-NOV-97	6010	
			ZN	5.4	% RPD	MM	10-NOV-97	6010	
WG971670-10		Detection Limit	AS	10.	ppm			6010	
			CD	5.0	ppm			6010	
			CR	10.	ppm			6010	
			CU	10.	ppm			6010	
			FE	30.	ppm			6010	
			PB	10.	ppm			6010	
			SE	10.	ppm			6010	
			ZN	5.0	ppm			6010	

* One Chromium acceptable, one Chromium out. This may be a function of sample non-homogeneity.

** Level of LCS (NIST#2711) for Selenium is 1.5ppm. This is below the practical quantitation limit for this method of analysis.


Approved

Reviewer

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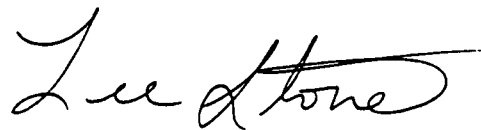
November 20, 1997

Mr. Lairy Johnson
Hydrometrics Inc.
El Paso

RECEIVED
NOV 24 1997
HYDROMETRICS, INC.

Please find attached the X-ray results for your El Paso soil samples received November 3rd 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)
JVaneK "

0734.502.100 (3)



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-1	27-OCT-97	SSIA4-1A	AS	3100	PPM	LCS	18-NOV-97		EDXRF
			CD	540	PPM	LCS	18-NOV-97		EDXRF
			CR	200	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	7.2	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	56	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-2	27-OCT-97	SSIA4-1B	AS	97	PPM	LCS	18-NOV-97		EDXRF
			CD	66	PPM	LCS	18-NOV-97		EDXRF
			CR	81	PPM	LCS	18-NOV-97		EDXRF
			CU	280	PPM	LCS	18-NOV-97		EDXRF
			FE	1.3	%	LCS	18-NOV-97		EDXRF
			PB	200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	790	PPM	LCS	18-NOV-97		EDXRF
L972642-3	27-OCT-97	SSIA4-2A	AS	4900	PPM	LCS	18-NOV-97		EDXRF
			CD	1000	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	18000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	74	PPM	LCS	18-NOV-97		EDXRF
			ZN	7300	PPM	LCS	18-NOV-97		EDXRF
L972642-4	27-OCT-97	SSIA4-2A2	AS	6200	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.7	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	9800	PPM	LCS	18-NOV-97		EDXRF
L972642-5	27-OCT-97	SSIA4-2B	AS	7000	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF

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L972642-5	27-OCT-97	SS1A4-2B	CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.5	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			SE	120	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF
L972642-6	27-OCT-97	SS1A4-3A	AS	4100	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	76	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9300	PPM	LCS	18-NOV-97		EDXRF
			SE	58	PPM	LCS	18-NOV-97		EDXRF
			ZN	7100	PPM	LCS	18-NOV-97		EDXRF
L972642-7	27-OCT-97	SS1A4-3B	AS	2900	PPM	LCS	18-NOV-97		EDXRF
			CD	1500	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	9300	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	8400	PPM	LCS	18-NOV-97		EDXRF
			SE	60	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF
L972642-8	28-OCT-97	SS1A4-4A	AS	1200	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	16000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.8	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF
L972642-9	28-OCT-97	SS1A4-4B	AS	1100	PPM	LCS	18-NOV-97		EDXRF
			CD	280	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	13000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.6	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF

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L972642-9	28-OCT-97	SSIA4-4B	SE	41	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-10	28-OCT-97	SSIA4-5A	AS	3500	PPM	LCS	18-NOV-97		EDXRF
			CD	840	PPM	LCS	18-NOV-97		EDXRF
			CR	68	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	21000	PPM	LCS	18-NOV-97		EDXRF
			SE	90	PPM	LCS	18-NOV-97		EDXRF
			ZN	12000	PPM	LCS	18-NOV-97		EDXRF
L972642-11	28-OCT-97	SSIA4-5A2	AS	3400	PPM	LCS	18-NOV-97		EDXRF
			CD	870	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	32000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	23000	PPM	LCS	18-NOV-97		EDXRF
			SE	87	PPM	LCS	18-NOV-97		EDXRF
			ZN	13000	PPM	LCS	18-NOV-97		EDXRF
L972642-12	28-OCT-97	SSIA4-5B	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	54	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	2400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2600	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	980	PPM	LCS	18-NOV-97		EDXRF
L972642-13	28-OCT-97	SSIA4-6A	AS	5900	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	40000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF

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L972642-14	28-OCT-97	SSIA4-6B	AS	610	PPM	LCS	18-NOV-97		EDXRF
			CD	520	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	6900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4000	PPM	LCS	18-NOV-97		EDXRF
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2900	PPM	LCS	18-NOV-97		EDXRF
L972642-15	28-OCT-97	SSIA4-7A	AS	17000	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	82000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.7	%	LCS	18-NOV-97		EDXRF
			PB	49000	PPM	LCS	18-NOV-97		EDXRF
			SE	1600	PPM	LCS	18-NOV-97		EDXRF
			ZN	7900	PPM	LCS	18-NOV-97		EDXRF
L972642-16	28-OCT-97	SSIA4-7A2	AS	18000	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	81000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.4	%	LCS	18-NOV-97		EDXRF
			PB	51000	PPM	LCS	18-NOV-97		EDXRF
			SE	1800	PPM	LCS	18-NOV-97		EDXRF
			ZN	8100	PPM	LCS	18-NOV-97		EDXRF
L972642-17	28-OCT-97	SSIA4-7B	AS	2200	PPM	LCS	18-NOV-97		EDXRF
			CD	310	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	68000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	3600	PPM	LCS	18-NOV-97		EDXRF
L972642-18	28-OCT-97	SSIA4-8A	AS	3300	PPM	LCS	18-NOV-97		EDXRF
			CD	980	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF

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L972642-18	28-OCT-97	SSIA4-8A	CU	25000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	25000	PPM	LCS	18-NOV-97		EDXRF
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-19	28-OCT-97	SSIA4-8B	AS	990	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4100	PPM	LCS	18-NOV-97		EDXRF
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	2100	PPM	LCS	18-NOV-97		EDXRF
L972642-20	28-OCT-97	SSIA4-9A	AS	3000	PPM	LCS	18-NOV-97		EDXRF
			CD	970	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.3	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	30	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF
L972642-21	28-OCT-97	SSIA4-9B	AS	1300	PPM	LCS	18-NOV-97		EDXRF
			CD	600	PPM	LCS	18-NOV-97		EDXRF
			CR	220	PPM	LCS	18-NOV-97		EDXRF
			CU	3900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-22	28-OCT-97	SSIA4-10A	AS	840	PPM	LCS	18-NOV-97		EDXRF
			CD	290	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	5800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5100	PPM	LCS	18-NOV-97		EDXRF

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L972642-22	28-OCT-97	SSIA4-10A	SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-23	28-OCT-97	SSIA4-10A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	380	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	8800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	4300	PPM	LCS	18-NOV-97		EDXRF
L972642-24	28-OCT-97	SSIA4-10B	AS	880	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	3400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2800	PPM	LCS	18-NOV-97		EDXRF
			SE	18	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF
L972642-25	28-OCT-97	SSIA4-11A	AS	1800	PPM	LCS	18-NOV-97		EDXRF
			CD	500	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	9700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	8900	PPM	LCS	18-NOV-97		EDXRF
			SE	53	PPM	LCS	18-NOV-97		EDXRF
			ZN	4600	PPM	LCS	18-NOV-97		EDXRF
L972642-26	28-OCT-97	SSIA4-11B	AS	680	PPM	LCS	18-NOV-97		EDXRF
			CD	55	PPM	LCS	18-NOV-97		EDXRF
			CR	61	PPM	LCS	18-NOV-97		EDXRF
			CU	1000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			SE	13	PPM	LCS	18-NOV-97		EDXRF
			ZN	640	PPM	LCS	18-NOV-97		EDXRF

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L972642-27	28-OCT-97	SSIA4-12A	AS	4800	PPM	LCS	18-NOV-97		EDXRF
			CD	930	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	11000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.1	%	LCS	18-NOV-97		EDXRF
			PB	13000	PPM	LCS	18-NOV-97		EDXRF
			SE	63	PPM	LCS	18-NOV-97		EDXRF
			ZN	6600	PPM	LCS	18-NOV-97		EDXRF
L972642-28	28-OCT-97	SSIA4-12B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	18	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	1800	PPM	LCS	18-NOV-97		EDXRF
			FE	19	%	LCS	18-NOV-97		EDXRF
			PB	10000	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	20000	PPM	LCS	18-NOV-97		EDXRF
L972642-29	28-OCT-97	SSIA4-13A	AS	860	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			SE	52	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF
L972642-30	28-OCT-97	SSIA4-13B	AS	790	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			SE	70	PPM	LCS	18-NOV-97		EDXRF
			ZN	7400	PPM	LCS	18-NOV-97		EDXRF
L972642-31	28-OCT-97	SSIA4-14A	AS	1600	PPM	LCS	18-NOV-97		EDXRF
			CD	640	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF

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L972642-31	28-OCT-97	SSIA4-14A	CU	10000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	14000	PPM	LCS	18-NOV-97		EDXRF
			SE	50	PPM	LCS	18-NOV-97		EDXRF
			ZN	6300	PPM	LCS	18-NOV-97		EDXRF
L972642-32	28-OCT-97	SSIA4-14A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	670	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	9800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			SE	62	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-33	28-OCT-97	SSIA4-14B	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	82	PPM	LCS	18-NOV-97		EDXRF
			CU	3700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.3	%	LCS	18-NOV-97		EDXRF
			PB	4500	PPM	LCS	18-NOV-97		EDXRF
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-34	28-OCT-97	SSIA4-15A	AS	480	PPM	LCS	18-NOV-97		EDXRF
			CD	300	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	4400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-35	28-OCT-97	SSIA4-15B	AS	440	PPM	LCS	18-NOV-97		EDXRF
			CD	240	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	3800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF

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L972642-35	28-OCT-97	SSIA4-15B	SE	21	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF
L972642-36	27-OCT-97	SSIA4-16A	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	5000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	5900	PPM	LCS	18-NOV-97		EDXRF
			SE	32	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF
L972642-37	30-OCT-97	SSIA4-16B	AS	66	PPM	LCS	18-NOV-97		EDXRF
			CD	30	PPM	LCS	18-NOV-97		EDXRF
			CR	78	PPM	LCS	18-NOV-97		EDXRF
			CU	640	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	710	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	380	PPM	LCS	18-NOV-97		EDXRF
L972642-38	30-OCT-97	SSIA4-17A	AS	220	PPM	LCS	18-NOV-97		EDXRF
			CD	76	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	4600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-39	30-OCT-97	SSIA4-17A2	AS	240	PPM	LCS	18-NOV-97		EDXRF
			CD	75	PPM	LCS	18-NOV-97		EDXRF
			CR	84	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2100	PPM	LCS	18-NOV-97		EDXRF
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1300	PPM	LCS	18-NOV-97		EDXRF

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L972642-40	30-OCT-97	SSIA4-17B	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	57	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	1900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	1900	PPM	LCS	18-NOV-97		EDXRF
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-41	30-OCT-97	SSIA4-18A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	59	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	2500	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-42	30-OCT-97	SSIA4-18B	AS	150	PPM	LCS	18-NOV-97		EDXRF
			CD	85	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	1700	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1100	PPM	LCS	18-NOV-97		EDXRF
L972642-43	30-OCT-97	SSIA4-19A	AS	52	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.5	%	LCS	18-NOV-97		EDXRF
			PB	560	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	350	PPM	LCS	18-NOV-97		EDXRF
L972642-44	30-OCT-97	SSIA4-19B	AS	24	PPM	LCS	18-NOV-97		EDXRF
			CD	10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF

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L972642-44	30-OCT-97	SSIA4-19B	CU	590	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	440	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF
L972642-45	30-OCT-97	SSIA4-20A	AS	75	PPM	LCS	18-NOV-97		EDXRF
			CD	32	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	2600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.0	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	840	PPM	LCS	18-NOV-97		EDXRF
L972642-46	30-OCT-97	SSIA4-20A2	AS	100	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	33	PPM	LCS	18-NOV-97		EDXRF
			CU	2800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	900	PPM	LCS	18-NOV-97		EDXRF
L972642-47	30-OCT-97	SSIA4-20B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	45	PPM	LCS	18-NOV-97		EDXRF
			CU	840	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	550	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF
L972642-48	30-OCT-97	SSIA4-21A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	63	PPM	LCS	18-NOV-97		EDXRF
			CR	40	PPM	LCS	18-NOV-97		EDXRF
			CU	3600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF

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L972642-48	30-OCT-97	SS1A4-21A	SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1600	PPM	LCS	18-NOV-97		EDXRF
L972642-49	30-OCT-97	SS1A4-21B	AS	210	PPM	LCS	18-NOV-97		EDXRF
			CD	73	PPM	LCS	18-NOV-97		EDXRF
			CR	86	PPM	LCS	18-NOV-97		EDXRF
			CU	3200	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			SE	14	PPM	LCS	18-NOV-97		EDXRF
			ZN	2700	PPM	LCS	18-NOV-97		EDXRF
L972642-50	30-OCT-97	SS1A4-22A	AS	140	PPM	LCS	18-NOV-97		EDXRF
			CD	62	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	3100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-51	30-OCT-97	SS1A4-22B	AS	45	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	53	PPM	LCS	18-NOV-97		EDXRF
			CU	1100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-52	30-OCT-97	SS1A4-23A2	AS	270	PPM	LCS	18-NOV-97		EDXRF
			CD	97	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	5300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	5000	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF

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L972642-53	30-OCT-97	SS1A4-23B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	13	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	410	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	250	PPM	LCS	18-NOV-97		EDXRF
L972642-54	30-OCT-97	SS1A4-24A	AS	120	PPM	LCS	18-NOV-97		EDXRF
			CD	38	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	3000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1800	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-55	30-OCT-97	SS1A4-24B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	220	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	260	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	230	PPM	LCS	18-NOV-97		EDXRF
L972642-56	30-OCT-97	SS1A4-25A	AS	380	PPM	LCS	18-NOV-97		EDXRF
			CD	200	PPM	LCS	18-NOV-97		EDXRF
			CR	83	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9400	PPM	LCS	18-NOV-97		EDXRF
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-57	30-OCT-97	SS1A4-25B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	92	PPM	LCS	18-NOV-97		EDXRF

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L972642-57	30-OCT-97	SSIA4-25B	CU	530	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	280	PPM	LCS	18-NOV-97		EDXRF
L972642-58	30-OCT-97	SSIA4-26A	AS	320	PPM	LCS	18-NOV-97		EDXRF
			CD	82	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	3800	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF
L972642-59	30-OCT-97	SSIA4-26A2	AS	300	PPM	LCS	18-NOV-97		EDXRF
			CD	89	PPM	LCS	18-NOV-97		EDXRF
			CR	50	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.1	%	LCS	18-NOV-97		EDXRF
			PB	3600	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2600	PPM	LCS	18-NOV-97		EDXRF
L972642-60	30-OCT-97	SSIA4-26B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	140	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	180	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	150	PPM	LCS	18-NOV-97		EDXRF
L972642-61	30-OCT-97	SSIA4-27A	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	7600	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF

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L972642-61	30-OCT-97	SSIA4-27A	SE	22	PPM	LCS	18-NOV-97		EDXRF
			ZN	3900	PPM	LCS	18-NOV-97		EDXRF
L972642-62	30-OCT-97	SSIA4-27B	AS	25	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	95	PPM	LCS	18-NOV-97		EDXRF
			FE	1.2	%	LCS	18-NOV-97		EDXRF
			PB	82	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	87	PPM	LCS	18-NOV-97		EDXRF
L972642-63	30-OCT-97	SSIA4-28A	AS	190	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	4100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	1600	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-64	30-OCT-97	SSIA4-28B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	67	PPM	LCS	18-NOV-97		EDXRF
			CU	120	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	63	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	72	PPM	LCS	18-NOV-97		EDXRF
L972642-65	30-OCT-97	SSIA4-29A	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	110	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	6000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	3900	PPM	LCS	18-NOV-97		EDXRF
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF

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L972642-66	30-OCT-97	SSIA4-29A2	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	100	PPM	LCS	18-NOV-97		EDXRF
			CR	160	PPM	LCS	18-NOV-97		EDXRF
			CU	4900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	3000	PPM	LCS	18-NOV-97		EDXRF
			SE	12	PPM	LCS	18-NOV-97		EDXRF
			ZN	1900	PPM	LCS	18-NOV-97		EDXRF
L972642-67	30-OCT-97	SSIA4-29B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	190	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	330	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	270	PPM	LCS	18-NOV-97		EDXRF
L972642-68	30-OCT-97	SSIA4-30A	AS	200	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.7	%	LCS	18-NOV-97		EDXRF
			PB	980	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	360	PPM	LCS	18-NOV-97		EDXRF
L972642-69	30-OCT-97	SSIA4-30B	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	83	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	2300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2700	PPM	LCS	18-NOV-97		EDXRF
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF
L972642-70	30-OCT-97	SSIA4-23A	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	91	PPM	LCS	18-NOV-97		EDXRF
			CR	73	PPM	LCS	18-NOV-97		EDXRF

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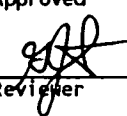
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-70	30-OCT-97	SS1A4-23A	CU	4800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	4600	PPM	LCS	18-NOV-97		EDXRF
			SE	17	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF


Approved
Reviewer

Q C FOR ELPASO SOILS L972642

CCV 30651-58

GIVEN

PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
	12	420		18	8062		27400
431	18	366	942	15	7541	21	28823
453	18	471	1041	15	7527	7	28508
437	22	377	914	15	7409	17	28140
570	16	217	1013	15	7361	18	28697
550	22	369	968	15	7456	10	28477
539	7	461	958	15	7483	19	28570
543	12	272	1034	15	7428	16	28507

FOUND

LCS BRS2704

GIVEN

23.4	3.45	135	98.6	4.4	161		438
<20	<10	106	110	4.4	196	<10	494
<20	<10	124	109	4.4	206	<10	521

FOUND

LCS SO-1

GIVEN

		160	61	6	21		146
<20	<10	154	95	6.2	15	<10	140
<20	<10	176	76	6.1	14	<10	165

FOUND

DUPLICATES

	As	Cd	Cr	Cu	Fe	[Pb	Se	Zn
L972642-20	3006	972	74	11910	4.3	10674	30	5358
DUP642-20	3014	964	147	11736	4.3	10599	31	5508
%DIFF	0	1	66	1	0	1	3	3

L972642-40	163	57	120	1890	2.9	1906	11	1450
DUP642-40	166	58	82	1929	2.8	1863	<10	1396
%DIFF	2	2	38	2	4	2		4

L972642-60	<20	<10	50	139	2.8	182	<10	149
DUP642-60	<20	<10	97	117	2.7	150	<10	148
%DIFF			64	17	4	19		1

L972642-70	245	75	73	4770	2.4	4595	17	2769
DUP642-70	201	91	46	4869	2.4	4605	<10	2758
%DIFF	20	19	45	2	0	0		0

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		150	87		83	94		105
		150	112		83	93		104
		183	90		83	92		103
		133	52		83	91		105
		183	88		83	92		104
		58	110		83	93		104
		100	65		83	92		104

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			79	112	100	122		113
			92	111	100	128		119

LCS SO-1

GIVEN			160PPM	61PPM	6%	21PPM		146PPM
% RECOV			96	156	103	71		96
			110	125	102	67		113

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Split Samples:
☐ Accepted ☐ Declined _____ Signature

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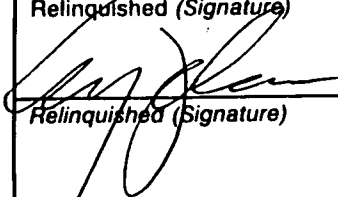

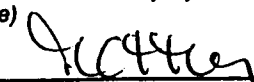
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CHAIN OF CUSTODY RECORD

HYDROMETRICS, INC.

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS											REMARKS		
0734		ASARCO - R1															
SAMPLERS: (Signature) Lairy Johnson																	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Totals Metals - See Attachment Sheet				
10-28-97	0905		X	SS1A4-6A	1								X				
10-28-97	0909			SS1A4-6B													
	0915			SS1A4-6C													
	0919			SS1A4-6D													
	0938			SS1A4-7A													
	0938			SS1A4-7A ₂													
	0945			SS1A4-7B													
	0948			SS1A4-7C													
	0952			SS1A4-7D													
				SS1A4-8A													
	1007			SS1A4-8B													
	1011			SS1A4-8C													
	1015			SS1A4-8D													
	1224			SS1A4-9A													
	1228			SS1A4-9B													

Relinquished (Signature) 	Date/Time 1500 10/31/97	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
Relinquished (Signature) 	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) 	Date/Time 11:30 11/1/97	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
			Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature _____		

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

[illegible]

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS											REMARKS					
SAMPLERS: (Signature) Lairy Johnson																				
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Totals Metals - See App Sheet						
10-28-97	1312		X	SS1A4-11A	1									X						
	1322			SS1A4-11B																
	1327			SS1A4-11C																
	1332			SS1A4-11D																
	1344			SS1A4-12A																
	1349			SS1A4-12B																
	1355			SS1A4-12C																
	1357			SS1A4-12D																
	1413			SS1A4-13A																
	1418			SS1A4-13B																
	1423			SS1A4-13C																
	1456			SS1A4-14A																
	1456			SS1A4-14A ₂																
	1502			SS1A4-14B																
	1507			SS1A4-14C																

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
[Signature]	10-31-97 1500				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		Air Bill # _____
[Signature]					
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:	Parameter sheet w/detection limits
[Signature]		[Signature]	11-3-97 9:00	<input type="checkbox"/> QA/QC standard mixing instructions	<input type="checkbox"/> Cover letter
				<input type="checkbox"/> Other _____	
Split Samples:				Signature	
<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined					

HEORM-1-4/95

Return results & electronic copy to:

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

HFORM 95

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

Split Samples:
☐ Accepted ☐ Declined

CHAIN OF CUSTODY RECORD

Hydrometals, Inc.

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

PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS	ANALYSIS										REMARKS
SAMPLERS: (Signature) Lairy Johnson						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Totals Metals - See Attachment sheet		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER												
6/30/97	0800		X	SS1A4-16B	1											
	0808			SS1A4-16C												
	0815			SS1A4-16P												
	0840			SS1A4-17A												
	0840			SS1A4-17A ₂												
	0844			SS1A4-17B												
	0848			SS1A4-17C												
	0855			SS1A4-17D												
	0907			SS1A4-18A												
	0913			SS1A4-18B												
	0922			SS1A4-18C												
	0927			SS1A4-18D												
	0937			SS1A4-19A												
	0944			SS1A4-19B												
	0950			SS1A4-19C												

Relinquished (Signature) 	Date/Time 6-30-97 1500	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other Air Bill #
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) 	Date/Time 6.3.97 9:00	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other	
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined				Signature	

HFORM-1-4/95

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

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[illegible]

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Commons UF/RAW Nutrients UF/H₂SO₄ Diss. Metal F/HNO₃ CN UF/NaOH Total Metals UF/HNO₃ Total Recoverable Metals UF/HNO₃ BTEX TPH Totals Metals - See Attachment Sheet </div>										REMARKS							
0734		ASARCO-R1																				
SAMPLERS: (Signature)				DATE	TIME	COMP.	GRAB	SAMPLE NUMBER														
Lairy Johnson																						
10-30-97	1031		X	SS1A4-21A	1																	
	1035			SS1A4-21B																		
	1039			SS1A4-21C																		
	1042			SS1A4-21D																		
	1048			SS1A4-22A																		
	1054			SS1A4-22B																		
	1054			SS1A4-22C																		
	1106			SS1A4-22D																		
	1122			SS1A4-23A ₂																		
	1128			SS1A4-23B																		
	1134			SS1A4-23C																		
	1136			SS1A4-23D																		
	1145			SS1A4-24A																		
	1151			SS1A4-24B																		
✓	1213		✓	SS1A4-24C	✓																	

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
	10-31-97 1500				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
			11-3-97 9:00		
Split Samples:			Signature		
<input type="checkbox"/> Accepted <input type="checkbox"/> Declined					

HFORM-1-4/95

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

Split Samples:
☐ Accepted ☐ Declined

Signature

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

[illegible]

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.

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

PROJ. NO. 0734		PROJECT NAME ASARCO-R1		NO. OF CON- TAINERS	<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Commons UF/RAW Nutrients UF/H₂SO₄ Diss. Metal F/HNO₃ CN UF/NaOH Total Metals UF/HNO₃ Total Recoverable Metals UF/HNO₃ BTEX TPH Total Metals - See Attachment sheet </div>										REMARKS			
SAMPLERS: (Signature) Lairy Johnson																		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER														
10-31-97	1248		X	SS1A4-26A	1													
	1248			SS1A4-26A ₂														
	1255			SS1A4-26B														
	1308			SS1A4-26C														
	1312			SS1A4-26D														
	1323			SS1A4-27A														
	1330			SS1A4-27B														
	1343			SS1A4-28A														
	1347			SS1A4-28B														
	1403			SS1A4-29A														
	1403			SS1A4-29A ₂														
	1412			SS1A4-29B														
	1421			SS1A4-30A														
	1426			SS1A4-30B														

Relinquished (Signature) 	Date/Time 10-31-97 1500	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
Relinquished (Signature) 	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) 	Date/Time 11-3-97 9:20	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined				Signature _____	

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

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/SW 7741	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 Larry @ 532-3489

Thanks
Larry

-Draft-

P.S. On XRF Confirmation please use HF Method

ASARCO

0734.502.100
Soil samples

December 17, 1997

RECEIVED

DEC 29 1997

HYDROMETRICS, INC.

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

Please find attached the analytical results for seven samples collected on October 28 and 30, 1997 from the ASARCO EL Paso Plant Site.

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on November 11, 1997.

Sincerely,


Milan Mraz
Chemist

MM/jh
Attach.

cc: Jvanek (w/attach.)
GRStanga "



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972788

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972788-1	28-OCT-97	SS1A4-7A2	Resub (L972642-16)						
			AS	13120.	ppm	MM	15-DEC-97		6010
			CD	356.	ppm	MM	15-DEC-97		6010
			CR	68.	ppm	JJT	16-DEC-97		6010
			CU	73460.	ppm	MM	15-DEC-97		6010
			FE	89430.	ppm	MM	15-DEC-97		6010
			PB	46060.	ppm	MM	15-DEC-97		6010
			SE	1644.	ppm	JJT	16-DEC-97		6010
L972788-2	28-OCT-97	SS1A4-7B	Resub (L972642-17)						
			AS	1425.	ppm	MM	15-DEC-97		6010
			CD	212.	ppm	MM	15-DEC-97		6010
			CR	184.	ppm	JJT	16-DEC-97		6010
			CU	40210.	ppm	MM	15-DEC-97		6010
			FE	31050.	ppm	MM	15-DEC-97		6010
			PB	7546.	ppm	MM	15-DEC-97		6010
			SE	59.	ppm	JJT	16-DEC-97		6010
L972788-3	28-OCT-97	SS1A4-11A	Resub (L972642-25)						
			AS	1271.	ppm	MM	15-DEC-97		6010
			CD	368.	ppm	MM	15-DEC-97		6010
			CR	69.	ppm	JJT	16-DEC-97		6010
			CU	6483.	ppm	JJT	16-DEC-97		6010
			FE	29660.	ppm	MM	15-DEC-97		6010
			PB	6339.	ppm	MM	15-DEC-97		6010
			SE	34.	ppm	JJT	16-DEC-97		6010
L972788-4	28-OCT-97	SS1A4-14A2	Resub (L972642-32)						
			AS	1236.	ppm	MM	15-DEC-97		6010
			CD	498.	ppm	MM	15-DEC-97		6010
			CR	47.	ppm	JJT	16-DEC-97		6010
			CU	6875.	ppm	JJT	16-DEC-97		6010
			FE	34690.	ppm	MM	15-DEC-97		6010
			PB	10720.	ppm	MM	15-DEC-97		6010
			SE	38.	ppm	JJT	16-DEC-97		6010
L972788-5	30-OCT-97	SS1A4-22B	Resub (L972642-51)						
			AS	88.	ppm	MM	15-DEC-97		6010
			CD	24.	ppm	MM	15-DEC-97		6010
			CR	67.	ppm	JJT	16-DEC-97		6010

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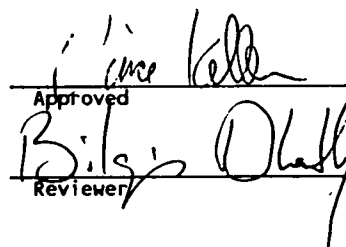
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972788

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972788-5	30-OCT-97	SSIA4-22B	Resub (L972642-51)						
			CU	891.	ppm	JJT	16-DEC-97	6010	
			FE	18240.	ppm	MM	15-DEC-97	6010	
			PB	863.	ppm	MM	15-DEC-97	6010	
			SE	<10.	ppm	JJT	16-DEC-97	6010	
			ZN	615.	ppm	MM	15-DEC-97	6010	
L972788-6	30-OCT-97	SSIA4-27B	Resub (L972642-62)						
			AS	18.	ppm	MM	15-DEC-97	6010	
			CD	<5.0	ppm	MM	15-DEC-97	6010	
			CR	36.	ppm	JJT	16-DEC-97	6010	
			CU	200.	ppm	JJT	16-DEC-97	6010	
			FE	9873.	ppm	MM	15-DEC-97	6010	
			PB	83.	ppm	MM	15-DEC-97	6010	
			SE	<10.	ppm	JJT	16-DEC-97	6010	
			ZN	87.	ppm	MM	15-DEC-97	6010	
L972788-7	30-OCT-97	SSIA4-27A	Resub (L972642-61)						
			AS	356.	ppm	MM	15-DEC-97	6010	
			CD	111.	ppm	MM	15-DEC-97	6010	
			CR	72.	ppm	JJT	16-DEC-97	6010	
			CU	5080.	ppm	JJT	16-DEC-97	6010	
			FE	27940.	ppm	MM	15-DEC-97	6010	
			PB	3883.	ppm	MM	15-DEC-97	6010	
			SE	12.	ppm	JJT	16-DEC-97	6010	
			ZN	2991.	ppm	MM	15-DEC-97	6010	

Approved 
Reviewer

ASARCO TECHNICAL SERVICES CENTER

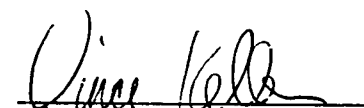
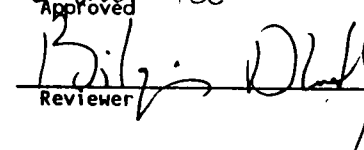
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971809

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971809-5		Detection Limit	AS	10.	ppm				6010
			CD	5.0	ppm				6010
			CR	10.	ppm				6010
			CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	20.	ppm				6010


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971809

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971809-1		Matrix Spike	AS	98.	% RECOVERY	MM	15-DEC-97	6010	
			CD	96.	% RECOVERY	MM	15-DEC-97	6010	
			CR	86.	% RECOVERY	JJT	16-DEC-97	6010	
			CU	SR>4XSA	% RECOVERY	MM	15-DEC-97	6010	
			FE	SR>4XSA	% RECOVERY	MM	15-DEC-97	6010	
			PB	SR>4XSA	% RECOVERY	MM	15-DEC-97	6010	
			SE	83.	% RECOVERY	JJT	16-DEC-97	6010	
			ZN	107.	% RECOVERY	MM	15-DEC-97	6010	
WG971809-2		Prep Blank	AS	<10.	ppm	MM	15-DEC-97	6010	
			CD	<5.0	ppm	MM	15-DEC-97	6010	
			CR	<10.	ppm	JJT	16-DEC-97	6010	
			CU	<10.	ppm	MM	15-DEC-97	6010	
			FE	<30.	ppm	MM	15-DEC-97	6010	
			PB	<10.	ppm	MM	15-DEC-97	6010	
			SE	<10.	ppm	JJT	16-DEC-97	6010	
			ZN	<20.	ppm	MM	15-DEC-97	6010	
WG971809-3		Laboratory Control	AS	83.	% RECOVERY	MM	15-DEC-97	6010	
			CD	91.	% RECOVERY	MM	15-DEC-97	6010	
			CR	74.	% RECOVERY	JJT	16-DEC-97	6010	
			CU	103.	% RECOVERY	JJT	16-DEC-97	6010	
			FE	87.	% RECOVERY	MM	15-DEC-97	6010	
			PB	93.	% RECOVERY	MM	15-DEC-97	6010	
			SE	77.	% RECOVERY	JJT	16-DEC-97	6010	
			ZN	94.	% RECOVERY	MM	15-DEC-97	6010	
WG971809-4		Duplicate	AS	4.3	% RPD	MM	15-DEC-97	6010	
			CD	<1.0	% RPD	MM	15-DEC-97	6010	
			CR	-1.9	% RPD	JJT	16-DEC-97	6010	
			CU	7.0	% RPD	MM	15-DEC-97	6010	
			FE	4.4	% RPD	MM	15-DEC-97	6010	
			PB	3.1	% RPD	MM	15-DEC-97	6010	
			SE	-1.4	% RPD	JJT	16-DEC-97	6010	
			ZN	3.4	% RPD	MM	15-DEC-97	6010	
WG971809-5		Detection Limit	AS	10.	ppm			6010	
			CD	5.0	ppm			6010	
			CR	10.	ppm			6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG971809

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG971809-5		Detection Limit	CU	10.	ppm				6010
			FE	30.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	20.	ppm				6010

Vince Bell
Approved
Bilgish Duddy
Reviewer

ASARCO

January 7, 1998

RECEIVED

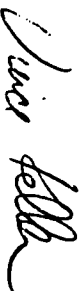
JAN 12 1998

HYDROMETRICS, INC.

Mr. Lairy Johnson
Hydrometrics
El Paso

Please find attached the pH results for the El Paso soil samples received November 03, 1997. This is an addendum to the report sent by Lee Stone for X-ray results on November 20, 1997.

Sincerely,



Vince Keller
Environmental Laboratory
Coordinator

VK/mo
Attach.

cc: JVanek (w/attach.)
GRStanga "

0734.502.100

SOIL ANALYTICAL

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: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-1	27-OCT-97	SSIA4-1A	AS	3100	PPM	LCS	18-NOV-97		EDXRF
			CD	540	PPM	LCS	18-NOV-97		EDXRF
			CR	200	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	7.2	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.0	pH	LV	06-JAN-98		9045
			SE	56	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-2	27-OCT-97	SSIA4-1B	AS	97	PPM	LCS	18-NOV-97		EDXRF
			CD	66	PPM	LCS	18-NOV-97		EDXRF
			CR	81	PPM	LCS	18-NOV-97		EDXRF
			CU	280	PPM	LCS	18-NOV-97		EDXRF
			FE	1.3	%	LCS	18-NOV-97		EDXRF
			PB	200	PPM	LCS	18-NOV-97		EDXRF
			PH	7.6	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	790	PPM	LCS	18-NOV-97		EDXRF
L972642-3	27-OCT-97	SSIA4-2A	AS	4900	PPM	LCS	18-NOV-97		EDXRF
			CD	1000	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	18000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98		9045
			SE	74	PPM	LCS	18-NOV-97		EDXRF
			ZN	7300	PPM	LCS	18-NOV-97		EDXRF
L972642-4	27-OCT-97	SSIA4-2A2	AS	6200	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.7	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.4	pH	LV	06-JAN-98		9045
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	9800	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-5	27-OCT-97	SSIA4-2B	AS	7000	PPM	LCS	18-NOV-97		EDXRF
			CD	1200	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	17000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.5	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.4	pH	LV	06-JAN-98		9045
			SE	120	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF
L972642-6	27-OCT-97	SSIA4-3A	AS	4100	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	76	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.2	pH	LV	06-JAN-98		9045
			SE	58	PPM	LCS	18-NOV-97		EDXRF
			ZN	7100	PPM	LCS	18-NOV-97		EDXRF
L972642-7	27-OCT-97	SSIA4-3B	AS	2900	PPM	LCS	18-NOV-97		EDXRF
			CD	1500	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	9300	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	8400	PPM	LCS	18-NOV-97		EDXRF
			PH	7.3	pH	LV	06-JAN-98		9045
			SE	60	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF
L972642-8	28-OCT-97	SSIA4-4A	AS	1200	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	16000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.8	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	5600	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-9	28-OCT-97	SSIA4-4B	AS	1100	PPM	LCS	18-NOV-97		EDXRF
			CD	280	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	13000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.6	%	LCS	18-NOV-97		EDXRF
			PB	7500	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	41	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF
L972642-10	28-OCT-97	SSIA4-5A	AS	3500	PPM	LCS	18-NOV-97		EDXRF
			CD	840	PPM	LCS	18-NOV-97		EDXRF
			CR	68	PPM	LCS	18-NOV-97		EDXRF
			CU	31000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	21000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.1	pH	LV	06-JAN-98		9045
			SE	90	PPM	LCS	18-NOV-97		EDXRF
			ZN	12000	PPM	LCS	18-NOV-97		EDXRF
L972642-11	28-OCT-97	SSIA4-5A2	AS	3400	PPM	LCS	18-NOV-97		EDXRF
			CD	870	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	32000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	23000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.0	pH	LV	06-JAN-98		9045
			SE	87	PPM	LCS	18-NOV-97		EDXRF
			ZN	13000	PPM	LCS	18-NOV-97		EDXRF
L972642-12	28-OCT-97	SSIA4-5B	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	54	PPM	LCS	18-NOV-97		EDXRF
			CR	36	PPM	LCS	18-NOV-97		EDXRF
			CU	2400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	980	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-13	28-OCT-97	SSIA4-6A	AS	5900	PPM	LCS	18-NOV-97		EDXRF
			CD	1300	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	40000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98		9045
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	8700	PPM	LCS	18-NOV-97		EDXRF
L972642-14	28-OCT-97	SSIA4-6B	AS	610	PPM	LCS	18-NOV-97		EDXRF
			CD	520	PPM	LCS	18-NOV-97		EDXRF
			CR	100	PPM	LCS	18-NOV-97		EDXRF
			CU	6900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2900	PPM	LCS	18-NOV-97		EDXRF
L972642-15	28-OCT-97	SSIA4-7A	AS	17000	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	82000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.7	%	LCS	18-NOV-97		EDXRF
			PB	49000	PPM	LCS	18-NOV-97		EDXRF
			PH	4.6	pH	LV	06-JAN-98		9045
			SE	1600	PPM	LCS	18-NOV-97		EDXRF
			ZN	7900	PPM	LCS	18-NOV-97		EDXRF
L972642-16	28-OCT-97	SSIA4-7A2	AS	18000	PPM	LCS	18-NOV-97		EDXRF
			CD	360	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	81000	PPM	LCS	18-NOV-97		EDXRF
			FE	8.4	%	LCS	18-NOV-97		EDXRF
			PB	51000	PPM	LCS	18-NOV-97		EDXRF
			PH	4.4	pH	LV	06-JAN-98		9045
			SE	1800	PPM	LCS	18-NOV-97		EDXRF
			ZN	8100	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-17	28-OCT-97	SS1A4-7B	AS	2200	PPM	LCS	18-NOV-97		EDXRF
			CD	310	PPM	LCS	18-NOV-97		EDXRF
			CR	210	PPM	LCS	18-NOV-97		EDXRF
			CU	68000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			PH	5.0	pH	LV	06-JAN-98	9045	
			SE	110	PPM	LCS	18-NOV-97		EDXRF
			ZN	3600	PPM	LCS	18-NOV-97		EDXRF
L972642-18	28-OCT-97	SS1A4-8A	AS	3300	PPM	LCS	18-NOV-97		EDXRF
			CD	980	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	25000	PPM	LCS	18-NOV-97		EDXRF
			FE	5.0	%	LCS	18-NOV-97		EDXRF
			PB	25000	PPM	LCS	18-NOV-97		EDXRF
			PH	6.4	pH	LV	06-JAN-98	9045	
			SE	100	PPM	LCS	18-NOV-97		EDXRF
			ZN	11000	PPM	LCS	18-NOV-97		EDXRF
L972642-19	28-OCT-97	SS1A4-8B	AS	990	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	4100	PPM	LCS	18-NOV-97		EDXRF
			PH	6.9	pH	LV	06-JAN-98	9045	
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	2100	PPM	LCS	18-NOV-97		EDXRF
L972642-20	28-OCT-97	SS1A4-9A	AS	3000	PPM	LCS	18-NOV-97		EDXRF
			CD	970	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.3	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.0	pH	LV	06-JAN-98	9045	
			SE	30	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-21	28-OCT-97	SSIA4-9B	AS	1300	PPM	LCS	18-NOV-97		EDXRF
			CD	600	PPM	LCS	18-NOV-97		EDXRF
			CR	220	PPM	LCS	18-NOV-97		EDXRF
			CU	3900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			PH	6.5	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-22	28-OCT-97	SSIA4-10A	AS	840	PPM	LCS	18-NOV-97		EDXRF
			CD	290	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	5800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5100	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98	9045	
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-23	28-OCT-97	SSIA4-10A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	380	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	8800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98	9045	
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	4300	PPM	LCS	18-NOV-97		EDXRF
L972642-24	28-OCT-97	SSIA4-10B	AS	880	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	3400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98	9045	
			SE	18	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF

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Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-25	28-OCT-97	SSIA4-11A	AS	1800	PPM	LCS	18-NOV-97		EDXRF
			CD	500	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	9700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	8900	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98		9045
			SE	53	PPM	LCS	18-NOV-97		EDXRF
			ZN	4600	PPM	LCS	18-NOV-97		EDXRF
L972642-26	28-OCT-97	SSIA4-11B	AS	680	PPM	LCS	18-NOV-97		EDXRF
			CD	55	PPM	LCS	18-NOV-97		EDXRF
			CR	61	PPM	LCS	18-NOV-97		EDXRF
			CU	1000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	13	PPM	LCS	18-NOV-97		EDXRF
			ZN	640	PPM	LCS	18-NOV-97		EDXRF
L972642-27	28-OCT-97	SSIA4-12A	AS	4800	PPM	LCS	18-NOV-97		EDXRF
			CD	930	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	11000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.1	%	LCS	18-NOV-97		EDXRF
			PB	13000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.2	pH	LV	06-JAN-98		9045
			SE	63	PPM	LCS	18-NOV-97		EDXRF
			ZN	6600	PPM	LCS	18-NOV-97		EDXRF
L972642-28	28-OCT-97	SSIA4-12B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	18	PPM	LCS	18-NOV-97		EDXRF
			CR	140	PPM	LCS	18-NOV-97		EDXRF
			CU	1800	PPM	LCS	18-NOV-97		EDXRF
			FE	19	%	LCS	18-NOV-97		EDXRF
			PB	10000	PPM	LCS	18-NOV-97		EDXRF
			PH	15					
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	20000	PPM	LCS	18-NOV-97		EDXRF

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Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-29	28-OCT-97	SSIA4-13A	AS	860	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	74	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.4	%	LCS	18-NOV-97		EDXRF
			PB	11000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98		9045
			SE	52	PPM	LCS	18-NOV-97		EDXRF
			ZN	5400	PPM	LCS	18-NOV-97		EDXRF
L972642-30	28-OCT-97	SSIA4-13B	AS	790	PPM	LCS	18-NOV-97		EDXRF
			CD	320	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	14000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	12000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.4	pH	LV	06-JAN-98		9045
			SE	70	PPM	LCS	18-NOV-97		EDXRF
			ZN	7400	PPM	LCS	18-NOV-97		EDXRF
L972642-31	28-OCT-97	SSIA4-14A	AS	1600	PPM	LCS	18-NOV-97		EDXRF
			CD	640	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	10000	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	14000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.6	pH	LV	06-JAN-98		9045
			SE	50	PPM	LCS	18-NOV-97		EDXRF
			ZN	6300	PPM	LCS	18-NOV-97		EDXRF
L972642-32	28-OCT-97	SSIA4-14A2	AS	1500	PPM	LCS	18-NOV-97		EDXRF
			CD	670	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	9800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	15000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	62	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-33	28-OCT-97	SSIA4-14B	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	190	PPM	LCS	18-NOV-97		EDXRF
			CR	82	PPM	LCS	18-NOV-97		EDXRF
			CU	3700	PPM	LCS	18-NOV-97		EDXRF
			FE	3.3	%	LCS	18-NOV-97		EDXRF
			PB	4500	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98		9045
			SE	16	PPM	LCS	18-NOV-97		EDXRF
			ZN	2400	PPM	LCS	18-NOV-97		EDXRF
L972642-34	28-OCT-97	SSIA4-15A	AS	480	PPM	LCS	18-NOV-97		EDXRF
			CD	300	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	4400	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	6800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	33	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF
L972642-35	28-OCT-97	SSIA4-15B	AS	440	PPM	LCS	18-NOV-97		EDXRF
			CD	240	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	3800	PPM	LCS	18-NOV-97		EDXRF
			FE	3.0	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	21	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF
L972642-36	27-OCT-97	SSIA4-16A	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	350	PPM	LCS	18-NOV-97		EDXRF
			CR	71	PPM	LCS	18-NOV-97		EDXRF
			CU	5000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	5900	PPM	LCS	18-NOV-97		EDXRF
			PH	8.1	pH	LV	06-JAN-98		9045
			SE	32	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-37	30-OCT-97	SSIA4-16B	AS	66	PPM	LCS	18-NOV-97		EDXRF
			CD	30	PPM	LCS	18-NOV-97		EDXRF
			CR	78	PPM	LCS	18-NOV-97		EDXRF
			CU	640	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	710	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	380	PPM	LCS	18-NOV-97		EDXRF
L972642-38	30-OCT-97	SSIA4-17A	AS	220	PPM	LCS	18-NOV-97		EDXRF
			CD	76	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	4600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF
			PH	8.1	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-39	30-OCT-97	SSIA4-17A2	AS	240	PPM	LCS	18-NOV-97		EDXRF
			CD	75	PPM	LCS	18-NOV-97		EDXRF
			CR	84	PPM	LCS	18-NOV-97		EDXRF
			CU	4200	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	2100	PPM	LCS	18-NOV-97		EDXRF
			PH	8.1	pH	LV	06-JAN-98		9045
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1300	PPM	LCS	18-NOV-97		EDXRF
L972642-40	30-OCT-97	SSIA4-17B	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	57	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	1900	PPM	LCS	18-NOV-97		EDXRF
			FE	2.9	%	LCS	18-NOV-97		EDXRF
			PB	1900	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	11	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-41	30-OCT-97	SSIA4-18A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	59	PPM	LCS	18-NOV-97		EDXRF
			CR	120	PPM	LCS	18-NOV-97		EDXRF
			CU	2500	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-42	30-OCT-97	SSIA4-18B	AS	150	PPM	LCS	18-NOV-97		EDXRF
			CD	85	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	1700	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1100	PPM	LCS	18-NOV-97		EDXRF
L972642-43	30-OCT-97	SSIA4-19A	AS	52	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.5	%	LCS	18-NOV-97		EDXRF
			PB	560	PPM	LCS	18-NOV-97		EDXRF
			PH	8.3	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	350	PPM	LCS	18-NOV-97		EDXRF
L972642-44	30-OCT-97	SSIA4-19B	AS	24	PPM	LCS	18-NOV-97		EDXRF
			CD	10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	590	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	440	PPM	LCS	18-NOV-97		EDXRF
			PH	8.5	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-45	30-OCT-97	SSIA4-20A	AS	75	PPM	LCS	18-NOV-97		EDXRF
			CD	32	PPM	LCS	18-NOV-97		EDXRF
			CR	57	PPM	LCS	18-NOV-97		EDXRF
			CU	2600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.0	%	LCS	18-NOV-97		EDXRF
			PB	1300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	840	PPM	LCS	18-NOV-97		EDXRF
L972642-46	30-OCT-97	SSIA4-20A2	AS	100	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	33	PPM	LCS	18-NOV-97		EDXRF
			CU	2800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.1	%	LCS	18-NOV-97		EDXRF
			PB	1400	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	900	PPM	LCS	18-NOV-97		EDXRF
L972642-47	30-OCT-97	SSIA4-20B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	45	PPM	LCS	18-NOV-97		EDXRF
			CU	840	PPM	LCS	18-NOV-97		EDXRF
			FE	2.7	%	LCS	18-NOV-97		EDXRF
			PB	550	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	400	PPM	LCS	18-NOV-97		EDXRF
L972642-48	30-OCT-97	SSIA4-21A	AS	160	PPM	LCS	18-NOV-97		EDXRF
			CD	63	PPM	LCS	18-NOV-97		EDXRF
			CR	40	PPM	LCS	18-NOV-97		EDXRF
			CU	3600	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	2500	PPM	LCS	18-NOV-97		EDXRF
			PH	8.3	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1600	PPM	LCS	18-NOV-97		EDXRF

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L972642-49	30-OCT-97	SSIA4-21B	AS	210	PPM	LCS	18-NOV-97		EDXRF
			CD	73	PPM	LCS	18-NOV-97		EDXRF
			CR	86	PPM	LCS	18-NOV-97		EDXRF
			CU	3200	PPM	LCS	18-NOV-97		EDXRF
			FE	3.6	%	LCS	18-NOV-97		EDXRF
			PB	3200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98		9045
			SE	14	PPM	LCS	18-NOV-97		EDXRF
			ZN	2700	PPM	LCS	18-NOV-97		EDXRF
L972642-50	30-OCT-97	SSIA4-22A	AS	140	PPM	LCS	18-NOV-97		EDXRF
			CD	62	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	3100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	2200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1400	PPM	LCS	18-NOV-97		EDXRF
L972642-51	30-OCT-97	SSIA4-22B	AS	45	PPM	LCS	18-NOV-97		EDXRF
			CD	22	PPM	LCS	18-NOV-97		EDXRF
			CR	53	PPM	LCS	18-NOV-97		EDXRF
			CU	1100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1200	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	780	PPM	LCS	18-NOV-97		EDXRF
L972642-52	30-OCT-97	SSIA4-23A2	AS	270	PPM	LCS	18-NOV-97		EDXRF
			CD	97	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	5300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.6	%	LCS	18-NOV-97		EDXRF
			PB	5000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	3200	PPM	LCS	18-NOV-97		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-53	30-OCT-97	SSIA4-23B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	13	PPM	LCS	18-NOV-97		EDXRF
			CR	39	PPM	LCS	18-NOV-97		EDXRF
			CU	410	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			PH	8.5	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	250	PPM	LCS	18-NOV-97		EDXRF
L972642-54	30-OCT-97	SSIA4-24A	AS	120	PPM	LCS	18-NOV-97		EDXRF
			CD	38	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	3000	PPM	LCS	18-NOV-97		EDXRF
			FE	2.3	%	LCS	18-NOV-97		EDXRF
			PB	1800	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-55	30-OCT-97	SSIA4-24B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	220	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	260	PPM	LCS	18-NOV-97		EDXRF
			PH	8.8	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	230	PPM	LCS	18-NOV-97		EDXRF
L972642-56	30-OCT-97	SSIA4-25A	AS	380	PPM	LCS	18-NOV-97		EDXRF
			CD	200	PPM	LCS	18-NOV-97		EDXRF
			CR	83	PPM	LCS	18-NOV-97		EDXRF
			CU	12000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	9400	PPM	LCS	18-NOV-97		EDXRF
			PH	7.5	pH	LV	06-JAN-98	9045	
			SE	24	PPM	LCS	18-NOV-97		EDXRF
			ZN	6700	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-57	30-OCT-97	SS1A4-25B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	92	PPM	LCS	18-NOV-97		EDXRF
			CU	530	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	370	PPM	LCS	18-NOV-97		EDXRF
			PH	8.2	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	280	PPM	LCS	18-NOV-97		EDXRF
L972642-58	30-OCT-97	SS1A4-26A	AS	320	PPM	LCS	18-NOV-97		EDXRF
			CD	82	PPM	LCS	18-NOV-97		EDXRF
			CR	65	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.0	%	LCS	18-NOV-97		EDXRF
			PB	3800	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF
L972642-59	30-OCT-97	SS1A4-26A2	AS	300	PPM	LCS	18-NOV-97		EDXRF
			CD	89	PPM	LCS	18-NOV-97		EDXRF
			CR	50	PPM	LCS	18-NOV-97		EDXRF
			CU	7500	PPM	LCS	18-NOV-97		EDXRF
			FE	4.1	%	LCS	18-NOV-97		EDXRF
			PB	3600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2600	PPM	LCS	18-NOV-97		EDXRF
L972642-60	30-OCT-97	SS1A4-26B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	140	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	180	PPM	LCS	18-NOV-97		EDXRF
			PH	8.4	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	150	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-61	30-OCT-97	SSIA4-27A	AS	370	PPM	LCS	18-NOV-97		EDXRF
			CD	140	PPM	LCS	18-NOV-97		EDXRF
			CR	180	PPM	LCS	18-NOV-97		EDXRF
			CU	7600	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	5300	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	22	PPM	LCS	18-NOV-97		EDXRF
			ZN	3900	PPM	LCS	18-NOV-97		EDXRF
L972642-62	30-OCT-97	SSIA4-27B	AS	25	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	95	PPM	LCS	18-NOV-97		EDXRF
			FE	1.2	%	LCS	18-NOV-97		EDXRF
			PB	82	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	87	PPM	LCS	18-NOV-97		EDXRF
L972642-63	30-OCT-97	SSIA4-28A	AS	190	PPM	LCS	18-NOV-97		EDXRF
			CD	42	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	4100	PPM	LCS	18-NOV-97		EDXRF
			FE	2.8	%	LCS	18-NOV-97		EDXRF
			PB	1600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	1500	PPM	LCS	18-NOV-97		EDXRF
L972642-64	30-OCT-97	SSIA4-28B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	67	PPM	LCS	18-NOV-97		EDXRF
			CU	120	PPM	LCS	18-NOV-97		EDXRF
			FE	2.5	%	LCS	18-NOV-97		EDXRF
			PB	63	PPM	LCS	18-NOV-97		EDXRF
			PH	8.5	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	72	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-65	30-OCT-97	SS1A4-29A	AS	490	PPM	LCS	18-NOV-97		EDXRF
			CD	110	PPM	LCS	18-NOV-97		EDXRF
			CR	110	PPM	LCS	18-NOV-97		EDXRF
			CU	6000	PPM	LCS	18-NOV-97		EDXRF
			FE	3.9	%	LCS	18-NOV-97		EDXRF
			PB	3900	PPM	LCS	18-NOV-97		EDXRF
			PH	7.6	pH	LV	06-JAN-98		9045
			SE	15	PPM	LCS	18-NOV-97		EDXRF
			ZN	3000	PPM	LCS	18-NOV-97		EDXRF
L972642-66	30-OCT-97	SS1A4-29A2	AS	520	PPM	LCS	18-NOV-97		EDXRF
			CD	100	PPM	LCS	18-NOV-97		EDXRF
			CR	160	PPM	LCS	18-NOV-97		EDXRF
			CU	4900	PPM	LCS	18-NOV-97		EDXRF
			FE	3.2	%	LCS	18-NOV-97		EDXRF
			PB	3000	PPM	LCS	18-NOV-97		EDXRF
			PH	7.7	pH	LV	06-JAN-98		9045
			SE	12	PPM	LCS	18-NOV-97		EDXRF
			ZN	1900	PPM	LCS	18-NOV-97		EDXRF
L972642-67	30-OCT-97	SS1A4-29B	AS	<20	PPM	LCS	18-NOV-97		EDXRF
			CD	<10	PPM	LCS	18-NOV-97		EDXRF
			CR	75	PPM	LCS	18-NOV-97		EDXRF
			CU	190	PPM	LCS	18-NOV-97		EDXRF
			FE	2.2	%	LCS	18-NOV-97		EDXRF
			PB	330	PPM	LCS	18-NOV-97		EDXRF
			PH	8.6	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	270	PPM	LCS	18-NOV-97		EDXRF
L972642-68	30-OCT-97	SS1A4-30A	AS	200	PPM	LCS	18-NOV-97		EDXRF
			CD	16	PPM	LCS	18-NOV-97		EDXRF
			CR	<30	PPM	LCS	18-NOV-97		EDXRF
			CU	1200	PPM	LCS	18-NOV-97		EDXRF
			FE	1.7	%	LCS	18-NOV-97		EDXRF
			PB	980	PPM	LCS	18-NOV-97		EDXRF
			PH	7.9	pH	LV	06-JAN-98		9045
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	360	PPM	LCS	18-NOV-97		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L972642

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L972642-69	30-OCT-97	SSIA4-30B	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	83	PPM	LCS	18-NOV-97		EDXRF
			CR	130	PPM	LCS	18-NOV-97		EDXRF
			CU	2300	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	2700	PPM	LCS	18-NOV-97		EDXRF
			PH	8.0	pH	LV	06-JAN-98	9045	
			SE	<10	PPM	LCS	18-NOV-97		EDXRF
			ZN	2000	PPM	LCS	18-NOV-97		EDXRF
L972642-70	30-OCT-97	SSIA4-23A	AS	250	PPM	LCS	18-NOV-97		EDXRF
			CD	91	PPM	LCS	18-NOV-97		EDXRF
			CR	73	PPM	LCS	18-NOV-97		EDXRF
			CU	4800	PPM	LCS	18-NOV-97		EDXRF
			FE	2.4	%	LCS	18-NOV-97		EDXRF
			PB	4600	PPM	LCS	18-NOV-97		EDXRF
			PH	7.8	pH	LV	06-JAN-98	9045	
			SE	17	PPM	LCS	18-NOV-97		EDXRF
			ZN	2800	PPM	LCS	18-NOV-97		EDXRF

IS=INSUFFICIENT SAMPLE FOR PH. THE RAW PORTION OF THIS
SAMPLE WAS CONSUMED DURING THE METALS ANALYSES.


ApprovedVince Keller
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980006

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980006-3		Laboratory Control	PH	100	% RECOVERY	LV	06-JAN-98	9045	
WG980006-4		Duplicate	PH	8.0	% RPD	LV	06-JAN-98	9045	
WG980006-8		Laboratory Control	PH	100	% RECOVERY	LV	06-JAN-98	9045	
WG980006-9		Duplicate	PH	<1.0	% RPD	LV	06-JAN-98	9045	
WG980006-13		Laboratory Control	PH	101	% RECOVERY	LV	06-JAN-98	9045	
WG980006-14		Duplicate	PH	<1.0	% RPD	LV	06-JAN-98	9045	
WG980006-18		Laboratory Control	PH	100	% RECOVERY	LV	06-JAN-98	9045	
WG980006-19		Duplicate	PH	<1.0	% RPD	LV	06-JAN-98	9045	


Approved
Reviewer

ASARCO

March 2, 1998

Mr. Lairy Johnson
Hydrometrics Inc.
El Paso

Please find attached the X-ray results for your El Paso soil samples (C and D) collected from July 15th of 97 to Oct. 30th of 97. Also attached are the QC results for this set.

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

RECEIVED

MAR 09 1998

HYDROMETRICS, INC.



Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w/attach)
JVaneK “



ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-1	15-JUL-97	SSIA1-1C	AS	4700	PPM	LCS	26-FEB-98		EDXRF
			CD	1700	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	12000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.8	%	LCS	26-FEB-98		EDXRF
			PB	12000	PPM	LCS	26-FEB-98		EDXRF
			PH	7.1	pH	EBK	23-FEB-98		9040
			SE	110	PPM	LCS	26-FEB-98		EDXRF
			ZN	11000	PPM	LCS	26-FEB-98		EDXRF
L980356-2	15-JUL-97	SSIA1-1D	AS	2600	PPM	LCS	26-FEB-98		EDXRF
			CD	900	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	24000	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	20000	PPM	LCS	26-FEB-98		EDXRF
			PH	6.9	pH	EBK	23-FEB-98		9040
			SE	220	PPM	LCS	26-FEB-98		EDXRF
			ZN	7900	PPM	LCS	26-FEB-98		EDXRF
L980356-3	15-JUL-97	SSIA1-2C	AS	15000	PPM	LCS	26-FEB-98		EDXRF
			CD	1200	PPM	LCS	26-FEB-98		EDXRF
			CR	53	PPM	LCS	26-FEB-98		EDXRF
			CU	25000	PPM	LCS	26-FEB-98		EDXRF
			FE	4.4	%	LCS	26-FEB-98		EDXRF
			PB	8900	PPM	LCS	26-FEB-98		EDXRF
			PH	6.7	pH	EBK	23-FEB-98		9040
			SE	230	PPM	LCS	26-FEB-98		EDXRF
			ZN	4500	PPM	LCS	26-FEB-98		EDXRF
L980356-4	15-JUL-97	SSIA1-2D	AS	22000	PPM	LCS	26-FEB-98		EDXRF
			CD	1300	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	24000	PPM	LCS	26-FEB-98		EDXRF
			FE	4.7	%	LCS	26-FEB-98		EDXRF
			PB	4000	PPM	LCS	26-FEB-98		EDXRF
			PH	7.4	pH	EBK	23-FEB-98		9040
			SE	120	PPM	LCS	26-FEB-98		EDXRF
			ZN	4400	PPM	LCS	26-FEB-98		EDXRF

ASARCO MINERAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-5	15-JUL-97	SSIA1-3C	AS	3400	PPM	LCS	26-FEB-98		EDXRF
			CD	110	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	21000	PPM	LCS	26-FEB-98		EDXRF
			FE	8.3	%	LCS	26-FEB-98		EDXRF
			PB	7300	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	20	PPM	LCS	26-FEB-98		EDXRF
			ZN	8700	PPM	LCS	26-FEB-98		EDXRF
L980356-6	15-JUL-97	SSIA1-3D	AS	1900	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	160	PPM	LCS	26-FEB-98		EDXRF
			CU	13000	PPM	LCS	26-FEB-98		EDXRF
			FE	6.4	%	LCS	26-FEB-98		EDXRF
			PB	5800	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	22	PPM	LCS	26-FEB-98		EDXRF
			ZN	5900	PPM	LCS	26-FEB-98		EDXRF
L980356-7	15-JUL-97	SSIA1-4C	AS	370	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	31	PPM	LCS	26-FEB-98		EDXRF
			CU	7200	PPM	LCS	26-FEB-98		EDXRF
			FE	3.6	%	LCS	26-FEB-98		EDXRF
			PB	3600	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	12	PPM	LCS	26-FEB-98		EDXRF
			ZN	4700	PPM	LCS	26-FEB-98		EDXRF
L980356-8	15-JUL-97	SSIA1-4D	AS	130	PPM	LCS	26-FEB-98		EDXRF
			CD	41	PPM	LCS	26-FEB-98		EDXRF
			CR	63	PPM	LCS	26-FEB-98		EDXRF
			CU	3100	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	1400	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	740	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-9	15-JUL-97	SSIA1-5C	AS	90	PPM	LCS	26-FEB-98		EDXRF
			CD	16	PPM	LCS	26-FEB-98		EDXRF
			CR	64	PPM	LCS	26-FEB-98		EDXRF
			CU	2900	PPM	LCS	26-FEB-98		EDXRF
			FE	1.9	%	LCS	26-FEB-98		EDXRF
			PB	670	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	430	PPM	LCS	26-FEB-98		EDXRF
L980356-10	15-JUL-97	SSIA1-5D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	98	PPM	LCS	26-FEB-98		EDXRF
			CU	310	PPM	LCS	26-FEB-98		EDXRF
			FE	1.5	%	LCS	26-FEB-98		EDXRF
			PB	140	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	95	PPM	LCS	26-FEB-98		EDXRF
L980356-11	14-JUL-97	SSIA2-2C	AS	1600	PPM	LCS	26-FEB-98		EDXRF
			CD	450	PPM	LCS	26-FEB-98		EDXRF
			CR	330	PPM	LCS	26-FEB-98		EDXRF
			CU	6300	PPM	LCS	26-FEB-98		EDXRF
			FE	12	%	LCS	26-FEB-98		EDXRF
			PB	10000	PPM	LCS	26-FEB-98		EDXRF
			PH	10.	pH	EBK	23-FEB-98	9040	EDXRF
			SE	70	PPM	LCS	26-FEB-98		EDXRF
			ZN	77000	PPM	LCS	26-FEB-98		EDXRF
L980356-12	14-JUL-97	SSIA3-3C	AS	28	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	110	PPM	LCS	26-FEB-98		EDXRF
			FE	0.7	%	LCS	26-FEB-98		EDXRF
			PB	95	PPM	LCS	26-FEB-98		EDXRF
			PH	8.3	pH	EBK	23-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	210	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD
							ANALYZED	DAYS METHOD
L980356-13	14-JUL-97	SSIA3-3D	AS	<20	PPM	LCS	26-FEB-98	EDXRF
			CD	<10	PPM	LCS	26-FEB-98	EDXRF
			CR	<30	PPM	LCS	26-FEB-98	EDXRF
			CU	17	PPM	LCS	26-FEB-98	EDXRF
			FE	0.7	%	LCS	26-FEB-98	EDXRF
			PB	45	PPM	LCS	26-FEB-98	EDXRF
			PH	8.7	pH	EBK	23-FEB-98	9040
			SE	<10	PPM	LCS	26-FEB-98	EDXRF
			ZN	120	PPM	LCS	26-FEB-98	EDXRF
L980356-14	15-JUL-97	SSIA3-6C	AS	1200	PPM	LCS	26-FEB-98	EDXRF
			CD	240	PPM	LCS	26-FEB-98	EDXRF
			CR	130	PPM	LCS	26-FEB-98	EDXRF
			CU	4400	PPM	LCS	26-FEB-98	EDXRF
			FE	4.8	%	LCS	26-FEB-98	EDXRF
			PB	4200	PPM	LCS	26-FEB-98	EDXRF
			PH	8.5	pH	EBK	23-FEB-98	9040
			SE	15	PPM	LCS	26-FEB-98	EDXRF
			ZN	5800	PPM	LCS	26-FEB-98	EDXRF
L980356-15	15-JUL-97	SSIA3-6D	AS	580	PPM	LCS	26-FEB-98	EDXRF
			CD	130	PPM	LCS	26-FEB-98	EDXRF
			CR	160	PPM	LCS	26-FEB-98	EDXRF
			CU	3400	PPM	LCS	26-FEB-98	EDXRF
			FE	8.4	%	LCS	26-FEB-98	EDXRF
			PB	2900	PPM	LCS	26-FEB-98	EDXRF
			PH	8.4	pH	EBK	23-FEB-98	9040
			SE	<10	PPM	LCS	26-FEB-98	EDXRF
			ZN	4600	PPM	LCS	26-FEB-98	EDXRF
L980356-16	15-JUL-97	SSIA3-7C	AS	2000	PPM	LCS	26-FEB-98	EDXRF
			CD	270	PPM	LCS	26-FEB-98	EDXRF
			CR	1500	PPM	LCS	26-FEB-98	EDXRF
			CU	3600	PPM	LCS	26-FEB-98	EDXRF
			FE	7.1	%	LCS	26-FEB-98	EDXRF
			PB	3300	PPM	LCS	26-FEB-98	EDXRF
			PH	8.4	pH	EBK	23-FEB-98	9040
			SE	46	PPM	LCS	26-FEB-98	EDXRF
			ZN	13000	PPM	LCS	26-FEB-98	EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-17	15-JUL-97	SSIA3-7D	AS	1400	PPM	LCS	26-FEB-98		EDXRF
			CD	180	PPM	LCS	26-FEB-98		EDXRF
			CR	1400	PPM	LCS	26-FEB-98		EDXRF
			CU	3600	PPM	LCS	26-FEB-98		EDXRF
			FE	12	%	LCS	26-FEB-98		EDXRF
			PB	3300	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	44	PPM	LCS	26-FEB-98		EDXRF
			ZN	12000	PPM	LCS	26-FEB-98		EDXRF
L980356-18	15-JUL-97	SSIA3-8C	AS	64	PPM	LCS	26-FEB-98		EDXRF
			CD	17	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	380	PPM	LCS	26-FEB-98		EDXRF
			FE	1.1	%	LCS	26-FEB-98		EDXRF
			PB	230	PPM	LCS	26-FEB-98		EDXRF
			PH	8.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	290	PPM	LCS	26-FEB-98		EDXRF
L980356-19	15-JUL-97	SSIA3-8D	AS	680	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	3000	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	1800	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	2200	PPM	LCS	26-FEB-98		EDXRF
L980356-20	15-JUL-97	SSIA3-9C	AS	99	PPM	LCS	26-FEB-98		EDXRF
			CD	49	PPM	LCS	26-FEB-98		EDXRF
			CR	40	PPM	LCS	26-FEB-98		EDXRF
			CU	540	PPM	LCS	26-FEB-98		EDXRF
			FE	1.8	%	LCS	26-FEB-98		EDXRF
			PB	550	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	900	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-21	15-JUL-97	SSIA3-9D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	68	PPM	LCS	26-FEB-98		EDXRF
			CU	130	PPM	LCS	26-FEB-98		EDXRF
			FE	1.2	%	LCS	26-FEB-98		EDXRF
			PB	140	PPM	LCS	26-FEB-98		EDXRF
			PH	9.0	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	160	PPM	LCS	26-FEB-98		EDXRF
L980356-22	15-JUL-97	SSIA3-10C	AS	1400	PPM	LCS	26-FEB-98		EDXRF
			CD	370	PPM	LCS	26-FEB-98		EDXRF
			CR	100	PPM	LCS	26-FEB-98		EDXRF
			CU	4800	PPM	LCS	26-FEB-98		EDXRF
			FE	13	%	LCS	26-FEB-98		EDXRF
			PB	14000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	30	PPM	LCS	26-FEB-98		EDXRF
			ZN	13000	PPM	LCS	26-FEB-98		EDXRF
L980356-23	15-JUL-97	SSIA3-10D	AS	3500	PPM	LCS	26-FEB-98		EDXRF
			CD	550	PPM	LCS	26-FEB-98		EDXRF
			CR	90	PPM	LCS	26-FEB-98		EDXRF
			CU	6700	PPM	LCS	26-FEB-98		EDXRF
			FE	13	%	LCS	26-FEB-98		EDXRF
			PB	20000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.0	pH	EBK	23-FEB-98		9040
			SE	31	PPM	LCS	26-FEB-98		EDXRF
			ZN	14000	PPM	LCS	26-FEB-98		EDXRF
L980356-24	27-OCT-97	SSIA4-1C	AS	40	PPM	LCS	26-FEB-98		EDXRF
			CD	42	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	240	PPM	LCS	26-FEB-98		EDXRF
			FE	2.0	%	LCS	26-FEB-98		EDXRF
			PB	390	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	1300	PPM	LCS	26-FEB-98		EDXRF

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L980356-25	27-OCT-97	SSIA4-1D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	38	PPM	LCS	26-FEB-98		EDXRF
			CR	40	PPM	LCS	26-FEB-98		EDXRF
			CU	110	PPM	LCS	26-FEB-98		EDXRF
			FE	1.0	%	LCS	26-FEB-98		EDXRF
			PB	120	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	770	PPM	LCS	26-FEB-98		EDXRF
L980356-26	27-OCT-97	SSIA4-2C	AS	100	PPM	LCS	26-FEB-98		EDXRF
			CD	22	PPM	LCS	26-FEB-98		EDXRF
			CR	110	PPM	LCS	26-FEB-98		EDXRF
			CU	110	PPM	LCS	26-FEB-98		EDXRF
			FE	0.9	%	LCS	26-FEB-98		EDXRF
			PB	58	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	130	PPM	LCS	26-FEB-98		EDXRF
L980356-27	27-OCT-97	SSIA4-2D	AS	59	PPM	LCS	26-FEB-98		EDXRF
			CD	15	PPM	LCS	26-FEB-98		EDXRF
			CR	170	PPM	LCS	26-FEB-98		EDXRF
			CU	27	PPM	LCS	26-FEB-98		EDXRF
			FE	0.7	%	LCS	26-FEB-98		EDXRF
			PB	27	PPM	LCS	26-FEB-98		EDXRF
			PH	9.6	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	30	PPM	LCS	26-FEB-98		EDXRF
L980356-28	27-OCT-97	SSIA4-3C	AS	2000	PPM	LCS	26-FEB-98		EDXRF
			CD	1300	PPM	LCS	26-FEB-98		EDXRF
			CR	140	PPM	LCS	26-FEB-98		EDXRF
			CU	3300	PPM	LCS	26-FEB-98		EDXRF
			FE	2.9	%	LCS	26-FEB-98		EDXRF
			PB	2900	PPM	LCS	26-FEB-98		EDXRF
			PH	7.2	pH	EBK	23-FEB-98		9040
			SE	33	PPM	LCS	26-FEB-98		EDXRF
			ZN	2800	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-29	27-OCT-97	SSIA4-3D	AS	1200	PPM	LCS	26-FEB-98		EDXRF
			CD	37	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	230	PPM	LCS	26-FEB-98		EDXRF
			FE	3.1	%	LCS	26-FEB-98		EDXRF
			PB	1800	PPM	LCS	26-FEB-98		EDXRF
			PH	7.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	400	PPM	LCS	26-FEB-98		EDXRF
L980356-30	28-OCT-97	SSIA4-4C	AS	320	PPM	LCS	26-FEB-98		EDXRF
			CD	69	PPM	LCS	26-FEB-98		EDXRF
			CR	96	PPM	LCS	26-FEB-98		EDXRF
			CU	3100	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	2900	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	1700	PPM	LCS	26-FEB-98		EDXRF
L980356-31	28-OCT-97	SSIA4-4D	AS	600	PPM	LCS	26-FEB-98		EDXRF
			CD	170	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	9200	PPM	LCS	26-FEB-98		EDXRF
			FE	4.1	%	LCS	26-FEB-98		EDXRF
			PB	5800	PPM	LCS	26-FEB-98		EDXRF
			PH	7.8	pH	EBK	23-FEB-98		9040
			SE	19	PPM	LCS	26-FEB-98		EDXRF
			ZN	5100	PPM	LCS	26-FEB-98		EDXRF
L980356-32	28-OCT-97	SSIA4-5C	AS	650	PPM	LCS	26-FEB-98		EDXRF
			CD	210	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	10000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.6	%	LCS	26-FEB-98		EDXRF
			PB	7100	PPM	LCS	26-FEB-98		EDXRF
			PH	7.8	pH	EBK	23-FEB-98		9040
			SE	37	PPM	LCS	26-FEB-98		EDXRF
			ZN	4400	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-33	28-OCT-97	SS1A4-5D	AS	45	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	540	PPM	LCS	26-FEB-98		EDXRF
			FE	1.9	%	LCS	26-FEB-98		EDXRF
			PB	430	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	240	PPM	LCS	26-FEB-98		EDXRF
L980356-34	28-OCT-97	SS1A4-6C	AS	37	PPM	LCS	26-FEB-98		EDXRF
			CD	13	PPM	LCS	26-FEB-98		EDXRF
			CR	83	PPM	LCS	26-FEB-98		EDXRF
			CU	200	PPM	LCS	26-FEB-98		EDXRF
			FE	2.0	%	LCS	26-FEB-98		EDXRF
			PB	110	PPM	LCS	26-FEB-98		EDXRF
			PH	8.5	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	110	PPM	LCS	26-FEB-98		EDXRF
L980356-35	28-OCT-97	SS1A4-6D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	86	PPM	LCS	26-FEB-98		EDXRF
			FE	1.8	%	LCS	26-FEB-98		EDXRF
			PB	38	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	42	PPM	LCS	26-FEB-98		EDXRF
L980356-36	28-OCT-97	SS1A4-7C	AS	1900	PPM	LCS	26-FEB-98		EDXRF
			CD	100	PPM	LCS	26-FEB-98		EDXRF
			CR	200	PPM	LCS	26-FEB-98		EDXRF
			CU	21000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.1	%	LCS	26-FEB-98		EDXRF
			PB	7500	PPM	LCS	26-FEB-98		EDXRF
			PH	5.4	pH	EBK	23-FEB-98		9040
			SE	130	PPM	LCS	26-FEB-98		EDXRF
			ZN	2100	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-37	28-OCT-97	SS1A4-7D	AS	1500	PPM	LCS	26-FEB-98		EDXRF
			CD	430	PPM	LCS	26-FEB-98		EDXRF
			CR	230	PPM	LCS	26-FEB-98		EDXRF
			CU	28000	PPM	LCS	26-FEB-98		EDXRF
			FE	3.1	%	LCS	26-FEB-98		EDXRF
			PB	6800	PPM	LCS	26-FEB-98		EDXRF
			PH	6.5	pH	EBK	23-FEB-98		9040
			SE	88	PPM	LCS	26-FEB-98		EDXRF
			ZN	3400	PPM	LCS	26-FEB-98		EDXRF
L980356-38	28-OCT-97	SS1A4-8C	AS	220	PPM	LCS	26-FEB-98		EDXRF
			CD	44	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	950	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	960	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	12	PPM	LCS	26-FEB-98		EDXRF
			ZN	570	PPM	LCS	26-FEB-98		EDXRF
L980356-39	28-OCT-97	SS1A4-8D	AS	200	PPM	LCS	26-FEB-98		EDXRF
			CD	30	PPM	LCS	26-FEB-98		EDXRF
			CR	180	PPM	LCS	26-FEB-98		EDXRF
			CU	810	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	730	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	340	PPM	LCS	26-FEB-98		EDXRF
L980356-40	28-OCT-97	SS1A4-9C	AS	920	PPM	LCS	26-FEB-98		EDXRF
			CD	300	PPM	LCS	26-FEB-98		EDXRF
			CR	230	PPM	LCS	26-FEB-98		EDXRF
			CU	1000	PPM	LCS	26-FEB-98		EDXRF
			FE	2.3	%	LCS	26-FEB-98		EDXRF
			PB	1100	PPM	LCS	26-FEB-98		EDXRF
			PH	7.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	670	PPM	LCS	26-FEB-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-41	28-OCT-97	SSIA4-9D	AS	330	PPM	LCS	26-FEB-98		EDXRF
			CD	48	PPM	LCS	26-FEB-98		EDXRF
			CR	170	PPM	LCS	26-FEB-98		EDXRF
			CU	460	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	430	PPM	LCS	26-FEB-98		EDXRF
			PH	7.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	270	PPM	LCS	26-FEB-98		EDXRF
L980356-42	28-OCT-97	SSIA4-10C	AS	380	PPM	LCS	26-FEB-98		EDXRF
			CD	68	PPM	LCS	26-FEB-98		EDXRF
			CR	82	PPM	LCS	26-FEB-98		EDXRF
			CU	1300	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	1200	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	790	PPM	LCS	26-FEB-98		EDXRF
L980356-43	28-OCT-97	SSIA4-10D	AS	400	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	180	PPM	LCS	26-FEB-98		EDXRF
			CU	230	PPM	LCS	26-FEB-98		EDXRF
			FE	1.9	%	LCS	26-FEB-98		EDXRF
			PB	190	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	130	PPM	LCS	26-FEB-98		EDXRF
L980356-44	28-OCT-97	SSIA4-11C	AS	95	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	230	PPM	LCS	26-FEB-98		EDXRF
			CU	130	PPM	LCS	26-FEB-98		EDXRF
			FE	1.6	%	LCS	26-FEB-98		EDXRF
			PB	130	PPM	LCS	26-FEB-98		EDXRF
			PH	8.6	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	70	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-45	28-OCT-97	SS1A4-11D	AS	35	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	170	PPM	LCS	26-FEB-98		EDXRF
			CU	65	PPM	LCS	26-FEB-98		EDXRF
			FE	1.6	%	LCS	26-FEB-98		EDXRF
			PB	72	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	51	PPM	LCS	26-FEB-98		EDXRF
L980356-46	28-OCT-97	SS1A4-12C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	40	PPM	LCS	26-FEB-98		EDXRF
			CU	3500	PPM	LCS	26-FEB-98		EDXRF
			FE	26	%	LCS	26-FEB-98		EDXRF
			PB	2300	PPM	LCS	26-FEB-98		EDXRF
			PH	9.7	pH	EBK	23-FEB-98		9040
			SE	15	PPM	LCS	26-FEB-98		EDXRF
			ZN	13000	PPM	LCS	26-FEB-98		EDXRF
L980356-47	28-OCT-97	SS1A4-12D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	100	PPM	LCS	26-FEB-98		EDXRF
			CU	1100	PPM	LCS	26-FEB-98		EDXRF
			FE	13	%	LCS	26-FEB-98		EDXRF
			PB	3200	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	8400	PPM	LCS	26-FEB-98		EDXRF
L980356-48	28-OCT-97	SS1A4-13C	AS	78	PPM	LCS	26-FEB-98		EDXRF
			CD	170	PPM	LCS	26-FEB-98		EDXRF
			CR	220	PPM	LCS	26-FEB-98		EDXRF
			CU	1200	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	1000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.1	pH	EBK	23-FEB-98		9040
			SE	11	PPM	LCS	26-FEB-98		EDXRF
			ZN	2500	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD
							ANALYZED	DAYS METHOD
L980356-49	28-OCT-97	SS1A4-14C	AS	<20	PPM	LCS	26-FEB-98	EDXRF
			CD	16	PPM	LCS	26-FEB-98	EDXRF
			CR	140	PPM	LCS	26-FEB-98	EDXRF
			CU	200	PPM	LCS	26-FEB-98	EDXRF
			FE	2.7	%	LCS	26-FEB-98	EDXRF
			PB	280	PPM	LCS	26-FEB-98	EDXRF
			PH	8.9	pH	EBK	23-FEB-98	9040
			SE	<10	PPM	LCS	26-FEB-98	EDXRF
			ZN	190	PPM	LCS	26-FEB-98	EDXRF
L980356-50	28-OCT-97	SS1A4-14D	AS	110	PPM	LCS	26-FEB-98	EDXRF
			CD	82	PPM	LCS	26-FEB-98	EDXRF
			CR	170	PPM	LCS	26-FEB-98	EDXRF
			CU	1300	PPM	LCS	26-FEB-98	EDXRF
			FE	2.7	%	LCS	26-FEB-98	EDXRF
			PB	1900	PPM	LCS	26-FEB-98	EDXRF
			PH	8.4	pH	EBK	23-FEB-98	9040
			SE	<10	PPM	LCS	26-FEB-98	EDXRF
			ZN	850	PPM	LCS	26-FEB-98	EDXRF
L980356-51	28-OCT-97	SS1A4-15C	AS	<20	PPM	LCS	26-FEB-98	EDXRF
			CD	13	PPM	LCS	26-FEB-98	EDXRF
			CR	130	PPM	LCS	26-FEB-98	EDXRF
			CU	630	PPM	LCS	26-FEB-98	EDXRF
			FE	2.7	%	LCS	26-FEB-98	EDXRF
			PB	540	PPM	LCS	26-FEB-98	EDXRF
			PH	8.8	pH	EBK	23-FEB-98	9040
			SE	<10	PPM	LCS	26-FEB-98	EDXRF
			ZN	680	PPM	LCS	26-FEB-98	EDXRF
L980356-52	28-OCT-97	SS1A4-15D	AS	74	PPM	LCS	26-FEB-98	EDXRF
			CD	23	PPM	LCS	26-FEB-98	EDXRF
			CR	200	PPM	LCS	26-FEB-98	EDXRF
			CU	1300	PPM	LCS	26-FEB-98	EDXRF
			FE	2.4	%	LCS	26-FEB-98	EDXRF
			PB	930	PPM	LCS	26-FEB-98	EDXRF
			PH	8.2	pH	EBK	23-FEB-98	9040
			SE	<10	PPM	LCS	26-FEB-98	EDXRF
			ZN	470	PPM	LCS	26-FEB-98	EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-53	30-OCT-97	SS1A4-16C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	10	PPM	LCS	26-FEB-98		EDXRF
			CR	91	PPM	LCS	26-FEB-98		EDXRF
			CU	190	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	210	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	160	PPM	LCS	26-FEB-98		EDXRF
L980356-54	30-OCT-97	SS1A4-16D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	34	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	18	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	59	PPM	LCS	26-FEB-98		EDXRF
L980356-55	30-OCT-97	SS1A4-17C	AS	36	PPM	LCS	26-FEB-98		EDXRF
			CD	12	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	<20	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	27	PPM	LCS	26-FEB-98		EDXRF
			PH	8.0	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	53	PPM	LCS	26-FEB-98		EDXRF
L980356-56	30-OCT-97	SS1A4-17D	AS	97	PPM	LCS	26-FEB-98		EDXRF
			CD	23	PPM	LCS	26-FEB-98		EDXRF
			CR	172	PPM	LCS	26-FEB-98		EDXRF
			CU	1100	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	1000	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	710	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD	METHOD
							ANALYZED	DAYS	
L980356-57	30-OCT-97	SSIA4-18C	AS	41	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	140	PPM	LCS	26-FEB-98		EDXRF
			CU	48	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	31	PPM	LCS	26-FEB-98		EDXRF
			PH	9.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	56	PPM	LCS	26-FEB-98		EDXRF
L980356-58	30-OCT-97	SSIA4-18D	AS	38	PPM	LCS	26-FEB-98		EDXRF
			CD	11	PPM	LCS	26-FEB-98		EDXRF
			CR	120	PPM	LCS	26-FEB-98		EDXRF
			CU	140	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	100	PPM	LCS	26-FEB-98		EDXRF
			PH	9.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	96	PPM	LCS	26-FEB-98		EDXRF
L980356-59	30-OCT-97	SSIA4-19C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	110	PPM	LCS	26-FEB-98		EDXRF
			CU	49	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	23	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	69	PPM	LCS	26-FEB-98		EDXRF
L980356-60	30-OCT-97	SSIA4-19D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	130	PPM	LCS	26-FEB-98		EDXRF
			CU	320	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	230	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	220	PPM	LCS	26-FEB-98		EDXRF

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-61	30-OCT-97	SSIA4-20C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	43	PPM	LCS	26-FEB-98		EDXRF
			CU	<20	PPM	LCS	26-FEB-98		EDXRF
			FE	2.8	%	LCS	26-FEB-98		EDXRF
			PB	22	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	78	PPM	LCS	26-FEB-98		EDXRF
L980356-62	30-OCT-97	SSIA4-20D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	590	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	460	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	320	PPM	LCS	26-FEB-98		EDXRF
L980356-63	30-OCT-97	SSIA4-21C	AS	48	PPM	LCS	26-FEB-98		EDXRF
			CD	15	PPM	LCS	26-FEB-98		EDXRF
			CR	110	PPM	LCS	26-FEB-98		EDXRF
			CU	1200	PPM	LCS	26-FEB-98		EDXRF
			FE	2.7	%	LCS	26-FEB-98		EDXRF
			PB	1100	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	940	PPM	LCS	26-FEB-98		EDXRF
L980356-64	30-OCT-97	SSIA4-21D	AS	24	PPM	LCS	26-FEB-98		EDXRF
			CD	11	PPM	LCS	26-FEB-98		EDXRF
			CR	140	PPM	LCS	26-FEB-98		EDXRF
			CU	580	PPM	LCS	26-FEB-98		EDXRF
			FE	2.6	%	LCS	26-FEB-98		EDXRF
			PB	560	PPM	LCS	26-FEB-98		EDXRF
			PH	8.8	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	450	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT
El Paso
Water and Solid Waste (Project 3220)
Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-65	30-OCT-97	SSIA4-22C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	74	PPM	LCS	26-FEB-98		EDXRF
			CU	38	PPM	LCS	26-FEB-98		EDXRF
			FE	2.2	%	LCS	26-FEB-98		EDXRF
			PB	21	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	52	PPM	LCS	26-FEB-98		EDXRF
L980356-66	30-OCT-97	SSIA4-22D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	87	PPM	LCS	26-FEB-98		EDXRF
			CU	220	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	210	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	120	PPM	LCS	26-FEB-98		EDXRF
L980356-67	30-OCT-97	SSIA4-23C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	65	PPM	LCS	26-FEB-98		EDXRF
			CU	65	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	75	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	110	PPM	LCS	26-FEB-98		EDXRF
L980356-68	30-OCT-97	SSIA4-23D	AS	29	PPM	LCS	26-FEB-98		EDXRF
			CD	15	PPM	LCS	26-FEB-98		EDXRF
			CR	<30	PPM	LCS	26-FEB-98		EDXRF
			CU	650	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	520	PPM	LCS	26-FEB-98		EDXRF
			PH	8.4	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	440	PPM	LCS	26-FEB-98		EDXRF

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		117	87		83	95		104
		33	88		83	94		106
		158	67		83	93		103
		117	78		83	92		103
		242	100		83	94		103
		142	66		83	92		105
		125	95		83	94		105

LCS BRS2704

	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
GIVEN								
% RECOV			56	117	100	117		109
			31	132	100	124		109
			71	141	100	119		112

LCS SO-1

		160PPM	61PPM	6%	21PPM		146PPM
GIVEN							
% RECOV		33	125	103	81		92

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Totals Metals	REMARKS
SAMPLERS: (Signature)		SAMPLE NUMBER												
0734	ASARCO - R1			1										
10-27-97	10:40	X	SS1A4-1A	1										
	1445		SS1A4-1B	2										
	1505		SS1A4-1C											
	1530		SS1A4-1D											
	1545		SS1A4-2A	3										
	1545		SS1A4-2A ₂	4										
	1552		SS1A4-2B	5										
	1600		SS1A4-2C											
	1605		SS1A4-2D											
	1615		SS1A4-3A	6										
	1620		SS1A4-3B	7										
	1625		SS1A4-3C											
✓	1630		SS1A4-3D											
10-28-97	10:08		SS1A4-4A	8										
10-28-97	10:16	✓	SS1A4-4B	9										
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____				
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks								
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____						
Split Samples:		Signature												

HFORM 1-4/95

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

BEST POSSIBLE IMAGE

CCV 30651-58

	As	Cd	Cr	CU	Fe	Pb	Se	Zn
Given		12PPM	420PPM		18%	8062PPM		27400PPM
% Recov.		175	108		83	92		105
		108	72		83	91		104
		208	110		83	94		103
		175	54		83	94		105
		142	101		83	92		103
		108	73		83	92		103
		125	83		83	92		103
		158	111		83	93		104
		133	90		83	94		105

LCS BRS2704

GIVEN	23.4PPM	3.45PPM	135PPM	98.6PPM	4.40%	161PPM		438PPM
% RECOV			16	105	100	130		111
			41	106	100	135		120

LCS SO-1

GIVEN		160PPM	61PPM	6%	21PPM		146PPM
% RECOV		32	182	103	90		99
		138	121	103	81		104
		86	108	105	76		114



Hydrometrics, Inc.

Date 2-18-98	By LAS	Checked By	Project No. 0734.502.100	Page 2
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INVESTIGATION AREA #5 (38)

SSIAS-1	C+D	SSIAS-11	C+D
SSIAS-2	C+D	SSIAS-12	C+D
SSIAS-3	C+D	SSIAS-13	C+D
SSIAS-4	C+D	SSIAS-14	C+D
SSIAS-5	C+D	SSIAS-15	C+D
SSIAS-6	C+D	SSIAS-16	C+D
SSIAS-7	C+D	SSIAS-17	C+D
SSIAS-8	C+D	SSIAS-18	C+D
SSIAS-9	C+D	SSIAS-19	C+D
SSIAS-10	C+D		

INVESTIGATION AREA #8 (47)

SSIAS-1	C	SSIAS-11	C+D only
-2	C+D	-12	C+D only
-3	C+D	-13	C+D only
-4	C+D	-14	C+D "
-5	C+D	-15	C+D "
-6	C+D	-16	C+D "
-7	C+D	-17	C "
-8	C+D	-18	C+D - 10.5 C+D
-9	C+D	-19	C+D only
-10	C+D only	-20	

SSIAS-21	C+D only
-22	C+D "
-23	C+D "
-24	
-25	C+D - 40
-26	
-27	C
-28	C+D only
-29	
-30	
-31	C (not list)

BEST POSSIBLE IMAGE

TOTAL C+D SAMPLES = 174.167
actual 164

[illegible]

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Total Metals - See Attachment sheet						REMARKS
SAMPLERS: (Signature)																			
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER															
10-30-97	12:48		X	SS1A4-26A	1								X						
	12:48			SS1A4-26A ₂															
	12:55			SS1A4-26B															
	13:08			SS1A4-26C															
	13:12			SS1A4-26D															
	13:23			SS1A4-27A	61														
	13:36			SS1A4-27B	62														
	13:43			SS1A4-28A	63														
	13:47			SS1A4-28B	64														
	14:03			SS1A4-29A	65														
	14:03			SS1A4-29A ₂	66														
	14:12			SS1A4-29B	67														
	14:21			SS1A4-30A	68														
	14:26			SS1A4-30B	69														

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
	10-31-97 1500				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
			11-3-97 9:00		

HF02M-1-4/95

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

Split Samples:

☐ Accepted ☐ Declined

Signature

BEST POSSIBLE IMAGE

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Totals Metals-See Attached sheet					REMARKS
0734		ASARCO-R1																
SAMPLERS: (Signature)																		
Lairy Johnson																		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER														
10/31/97	0821		X	SS1A4-4C	1													
	0827			SS1A4-4D														
	0839			SS1A4-5A														
	0839			SS1A4-5A ₂														
	0843			SS1A4-5B														
	0847			SS1A4-5C														
	0850			SS1A4-5D														
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab				P.O. #		Shipped via: Bus, Fed Ex, UPS						
Lairy Johnson				10/31/97 1500								Other _____ Air Bill # _____						
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks												
Lairy Johnson																		
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____										
					Stacy	11-2-97 9:00		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> 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

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

PROJ. NO. 0734		PROJECT NAME ASARCO - R1		NO. OF CON- TAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Totals Metals - See Attach Sheet					REMARKS	
SAMPLERS: (Signature) Lairy Johnson																			
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER															
10-28-97	0905		X	SS1A4-bA 13	1								X						
10-28-97	0909			SS1A4-bB 14															
	0915			SS1A4-bC															
	0919			SS1A4-bD															
	0938			SS1A4-7A 15															
	0938			SS1A4-7A ₂ 16															
	0945			SS1A4-7B 17															
	0948			SS1A4-7C															
	0952			SS1A4-7D															
				SS1A4-8A 18															
	1007			SS1A4-8B 19															
	1011			SS1A4-8C															
	1015			SS1A4-8D															
	1224			SS1A4-9A 20															
	1228			SS1A4-9B 21															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UP									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks													
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits											
								<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Cover letter									
								<input type="checkbox"/> Other											
								Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined											

HFC 1-4/95

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

BEST POSSIBLE IMAGE

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

HFORM-1-4/95

BEST POSSIBLE IMAGE

CHAIN OF CUSTODY RECORD

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

PROJ. NO. 0734		PROJECT NAME ASARCO-B1		NO. OF CON- TAINERS	<div style="transform: rotate(-45deg); display: inline-block;"> Commons UF/RAW Nutrients UF/H₂SO₄ Diss. Metal F/HNO₃ CN UF/NaOH Total Metals UF/HNO₃ Total Recoverable Metals UF/HNO₃ BTEX TPH Totals Metals - See Attachment sheet </div>										REMARKS			
SAMPLERS: (Signature) Lairy Johnson																		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER														
10-30-97	1031		X	SS1A4-21A	1													
	1035			SS1A4-21B														
	1039			SS1A4-21C														
	1042			SS1A4-21D														
	1048			SS1A4-22A														
	1054			SS1A4-22B														
	1054			SS1A4-22C														
	1106			SS1A4-22D														
	1122			SS1A4-23A ₂														
	1128			SS1A4-23B														
	1134			SS1A4-23C														
	1136			SS1A4-23D														
	1145			SS1A4-24A														
	1151			SS1A4-24B														
	1213			SS1A4-24C														

Relinquished (Signature) 	Date/Time 10-31-97 1500	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
Relinquished (Signature) 	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) 	Date/Time 11-3-97 9:00	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	TPH	Totals Metals - See Attac Sheet						REMARKS
SAMPLERS: (Signature)																			
DATE	TIME	COMP.	GRAB																
10-28-97	1514		X	SS1A4-14D	1								X						
	1530			SS1A4-15A 34															
	1335			SS1A4-15B 35															
	1539			SS1A4-15C															
	1543			SS1A4-15D															
	1553			SS1A4-16A 36															
Relinquished (Signature)					Date/Time	Received by: (Signature)			Lab			P.O. #		Shipped via: Bus, Fed Ex, UPS					
Relinquished (Signature)					Date/Time	Received by: (Signature)			Remarks										
Relinquished (Signature)					Date/Time	Received for Laboratory by: (Signature)			Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits								
											<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter								
											<input type="checkbox"/> Other								
											Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined								
											Signature								

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

HFORM-1 4/95

BEST POSSIBLE IMAGE

Split Samples:

☐ Accepted ☐ Declined

Signature _____

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

HFORM-1-4/95

Split Samples:
☐ Accepted ☐ Declined _____ Signature _____

CHAIN OF CUSTODY RECORD

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

PROJ. NO. 0734 PROJECT NAME ASARCO-R1

SAMPLERS: (Signature) Lairy Johnson

NO. OF CONTAINERS

Comments: UF/RAW
Nutrients: UF/H₂SO₄
Diss. Metals: UF/HNO₃
CN UF/HNO₃
Total Metals: UF/HNO₃
Total Residue: UF/HNO₃
BTEX
TPH

Totals Metals - See Attachment Sheet

DATE	TIME	COM	GR	SAMPLE NUMBER	NO. OF CONTAINERS	Comments: UF/RAW	Nutrients: UF/H ₂ SO ₄	Diss. Metals: UF/HNO ₃	CN UF/HNO ₃	Total Metals: UF/HNO ₃	Total Residue: UF/HNO ₃	BTEX	TPH	Totals Metals - See Attachment Sheet	REMARKS
10-28-97	1312		X	SS1A4-11A 25	1									X	
	1322			SS1A4-11B 26											
	1327			SS1A4-11C											
	1332			SS1A4-11D											
	1344			SS1A4-11A 27											
	1349			SS1A4-12B 28											
	1355			SS1A4-12C											
	1357			SS1A4-12D											
	1413			SS1A4-13A 29											
	1418			SS1A4-13B 30											
	1423			SS1A4-13C											
	1456			SS1A4-14A											
	1456			SS1A4-14A ₂											
	1502			SS1A4-14B											
	1507			SS1A4-14C											

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
<i>[Signature]</i>	10-31-97 1500				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
		<i>[Signature]</i>	11-3-97 9:00		
			Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature _____		

~~BEST POSSIBLE IMAGE~~

[illegible]

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

Split Samples:
☐ Accepted ☐ Declined

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	TPH									REMARKS
0734-		ASARCO - EL PASO, TX																			
SAMPLERS: (Signature)																					
Douglas M. Solor																					
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																	
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													
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg); opacity: 0.5;"></div>																					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab TSC - SALT LAKE CITY		P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____											
Douglas M. Solor		11/18/97 0900																			
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		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____													
				6446		11/19/97 9:30															
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____																					

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
WG971767-5		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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS	ANALYSIS										REMARKS
C734		A-SAPCO - El Paso			Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH		
SAMPLERS: (Signature)															
DATE	TIME	COMP	GRAB	SAMPLE NUMBER											
7-16-97	1350		X	SS1A8-2A											
7-16-97	1354			SS1A8-8B											
7-16-97	1356			SS1A8-8C											
7-16-97	1358			SS1A8-8D											
7-16-97	1442			SS1A8-9A											
7-16-97	1450			SS1A8-7B											
7-16-97	1453			SS1A8-7C											
7-16-97	1456			SS1A8-1D											
7-17-97	0810			SSSENT1-A											
7-17-97	0845			SSSENT1-B											
7-17-97	0850			SSSENT1-C											
7-17-97	0855			SSSENT1-D											
7-17-97	0805			SSSENT2-A											
7-17-97	0810			SSSENT2-B											
7-17-97	0815			SSSENT2-C											

Relinquished (Signature)

Relinquished (Signature)

Relinquished (Signature)

Date/Time: 7/17/97 1700

Date/Time:

Date/Time:

Received by: (Signature)

Received by: (Signature)

Received for Laboratory by: (Signature)

Lab:

Remarks:

Date/Time: 7.21.97 1400

P.O. #:

Shipped via: Bus, Fed Ex, UPS
Other:
Air Bill #:

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

HF0RM-1-4

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

Split Samples:
☐ Accepted ☐ Declined

Signature

[illegible]

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS	ANALYSIS PARAMETERS												REMARKS
SAMPLERS: (Signature)					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Other Parameters				
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER												
7-17-97	1100		X	SENT 3-A													
7-17-97	1105			SENT 3-B													
7-17-97	1035			SENT 4-A													
7-17-97	1040			SENT 4-B													
7-17-97	0935			SENT 5-A													
7-17-97	0940			SENT 5-B													
7-17-97	0940			SENT 5-B ₂													
7-17-97	0905			SENT 6-A													
7-17-97	0910			SENT 6-B													
7-17-97	0915			SENT 6-C													
7-17-97	0920			SENT 6-D													
7-17-97	1005			SENT 7-A													
7-17-97	1015			SENT 7-B													
7-17-97	1017			SENT 7-C													
7-17-97	1023			SENT 8-A													

Relinquished (Signature) _____

Relinquished (Signature) _____

Relinquished (Signature) _____

Date/Time: 7-17-97 1700

Date/Time: _____

Date/Time: _____

Received by: (Signature) _____

Received by: (Signature) _____

Received for Laboratory by: (Signature) _____

Lab: _____

Remarks: _____

Date/Time: 7-21-97 10:00

P.O. #: _____

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

Shipped via: Bus, Fed Ex, UPS
 Other _____
 Air Bill # _____

HF0RM-1-1195

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

Split Samples:
☐ Accepted ☐ Declined

[illegible]



Hydrometrics, Inc.

Date 2-18-98	By LAJ	Checked By	Project No. 0734.502.100	Page 7
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PLANT ENTRANCE (7)

~~SS~~ENT 6 - C + D
~~SS~~ENT 7 C
~~SS~~ENT 2 C + D
~~SS~~ENT 1 C + D

wetland 164

in water
 SSIP 5-15C
 13D

INVESTIGATION AREA #1 (1C)

~~SS~~IA1-1A C + D
~~SS~~IA1-2 C + D
~~SS~~IA1-3 C + D
~~SS~~IA1-4 C + D
~~SS~~IA1-5 C + D

To: VINCE
 From: LAJAY

801-261-1126
 264-9838

INVESTIGATION AREA #2 (1)

~~SS~~IA2-2 C

INVESTIGATION AREA #3 (13)

SS IA3-2 C	SS IA3-8 C + D
SS IA3-3 C + D	SS IA3-9 C + D
SS IA3-6 C + D	SS IA3-10 C + D
SS IA3-7 C + D	

INVESTIGATION AREA #4 (51)

SS IA4-1 C + D	SS IA4-14 C + D
SS IA4-2 C + D	SS IA4-15 C + D
SS IA4-3 C + D	SS IA4-16 C + D
SS IA4-4 C + D	SS IA4-17 C + D
SS IA4-5 C + D	SS IA4-18 C + D
SS IA4-6 C + D	SS IA4-19 C + D
SS IA4-7 C + D	SS IA4-20 C + D
SS IA4-8 C + D	SS IA4-21 C + D
SS IA4-9 C + D	SS IA4-22 C + D
SS IA4-10 C + D	SS IA4-23 C + D
SS IA4-11 C + D	SS IA4-24 C + D
SS IA4-12 C + D	SS IA4-25 C + D
SS IA4-13 C	SS IA4-26 C + D

~~SS~~IA4-28

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HFORM-1-4/95

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HFORM 4/95

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

BEST POSSIBLE IMAGE

Split Samples:
☐ Accepted ☐ Declined

Signature _____

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		NO. OF CONTAINERS											REMARKS
0734		ASARCO - EL PASO													
SAMPLERS: (Signature)															
DATE	TIME	COMP	GRAB		SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, Mn, PH	
7-17-97	1:45			551A1-1A -	1									X	
7-17-97	1:45			551A1-1B -											
7-17-97	1:50			551A1-1C -											
7-17-97	1:52			551A1-1D -											
7-17-97	1:12			551A1-2A -											
7-17-97	1:15			551A1-2B -											
7-17-97	1:41			551A1-2C -											
7-17-97	1:21			551A1-2D -											
7-17-97	1:54			551A1-3A -											
7-17-97	1:56			551A1-3B -											
7-17-97	1:46			551A1-3C -											
7-17-97	1:10			551A1-3D -											
7-17-97	1:24			551A1-4A											
7-17-97	1:28			551A1-4B											
7-17-97	1:33			551A1-4C											

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	

HFORM-1-4/95

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

Split Samples:

☒ Accepted ☐ Declined

Signature

BEST POSSIBLE IMAGE

☐ 3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85705 • (520) 544-3150
☐ P.O. Box 220182 • El Paso, TX 79913 • (915) 822-3489

HFORM-1-4/95

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

(7.18.17)

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

Split Samples	
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Signature _____

BEST POSSIBLE IMAGE

CHAIN OF CUSTODY RECORD

City of Helena, Montana

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Dis. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, PH	REMARKS
SAMPLERS: (Signature)														
DATE	TIME	COMP	GRAB	SAMPLE NUMBER										
7-15-97	1135		X	SSIA1-5A ₁ -										
7-15-97	1135			SSIA1-5A ₂ -										
7-15-97	1135			SSIA1-5B -										
7-15-97	1135			SSIA1-5C -										
7-15-97	1135			SSIA1-5D -										
7-14-97	1137			SSIA2-1A -										
7-14-97	1140			SSIA2-1B -										
7-14-97	1125			SSIA2-2A -										
7-14-97	1125			SSIA2-2A2 -										
7-14-97	1140			SSIA2-2C -										
7-14-97	1150			SSIA3-1A -										
7-14-97	1155			SSIA3-1B -										
7-14-97	1150			SSIA3-2A -										
7-14-97	1155			SSIA3-2B -										
7-14-97	1140		V	SSIA3-2C -										

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	7-17-97 1700				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
<i>[Signature]</i>					
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits	
<i>[Signature]</i>		<i>[Signature]</i>	7-21-97 10:00	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
				<input type="checkbox"/> Other _____	
Split Samples:			<input type="checkbox"/> Accepted <input type="checkbox"/> Declined		

HFORM-195

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

BEST POSSIBLE IMAGE

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

BEST POSSIBLE IMAGE

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-69	30-OCT-97	SSIA4-24C	AS	22	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	31	PPM	LCS	26-FEB-98		EDXRF
			CU	280	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	190	PPM	LCS	26-FEB-98		EDXRF
			PH	8.9	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	200	PPM	LCS	26-FEB-98		EDXRF
L980356-70	30-OCT-97	SSIA4-24D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	52	PPM	LCS	26-FEB-98		EDXRF
			CU	85	PPM	LCS	26-FEB-98		EDXRF
			FE	2.5	%	LCS	26-FEB-98		EDXRF
			PB	75	PPM	LCS	26-FEB-98		EDXRF
			PH	9.0	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	99	PPM	LCS	26-FEB-98		EDXRF
L980356-71	30-OCT-97	SSIA4-25C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	78	PPM	LCS	26-FEB-98		EDXRF
			CU	330	PPM	LCS	26-FEB-98		EDXRF
			FE	3.0	%	LCS	26-FEB-98		EDXRF
			PB	200	PPM	LCS	26-FEB-98		EDXRF
			PH	9.1	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	220	PPM	LCS	26-FEB-98		EDXRF
L980356-72	30-OCT-97	SSIA4-25D	AS	120	PPM	LCS	26-FEB-98		EDXRF
			CD	13	PPM	LCS	26-FEB-98		EDXRF
			CR	38	PPM	LCS	26-FEB-98		EDXRF
			CU	540	PPM	LCS	26-FEB-98		EDXRF
			FE	2.4	%	LCS	26-FEB-98		EDXRF
			PB	620	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	230	PPM	LCS	26-FEB-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER



ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980356

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980356-73	30-OCT-97	SS1A4-26C	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	<10	PPM	LCS	26-FEB-98		EDXRF
			CR	44	PPM	LCS	26-FEB-98		EDXRF
			CU	320	PPM	LCS	26-FEB-98		EDXRF
			FE	2.1	%	LCS	26-FEB-98		EDXRF
			PB	270	PPM	LCS	26-FEB-98		EDXRF
			PH	8.3	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	250	PPM	LCS	26-FEB-98		EDXRF
L980356-74	30-OCT-97	SS1A4-26D	AS	<20	PPM	LCS	26-FEB-98		EDXRF
			CD	11	PPM	LCS	26-FEB-98		EDXRF
			CR	100	PPM	LCS	26-FEB-98		EDXRF
			CU	660	PPM	LCS	26-FEB-98		EDXRF
			FE	2.3	%	LCS	26-FEB-98		EDXRF
			PB	550	PPM	LCS	26-FEB-98		EDXRF
			PH	8.7	pH	EBK	23-FEB-98		9040
			SE	<10	PPM	LCS	26-FEB-98		EDXRF
			ZN	490	PPM	LCS	26-FEB-98		EDXRF
L980356-75	14-JUL-97	SS1A3-2C	AS	270	PPM	LCS	26-FEB-98		EDXRF
			CD	52	PPM	LCS	26-FEB-98		EDXRF
			CR	150	PPM	LCS	26-FEB-98		EDXRF
			CU	1400	PPM	LCS	26-FEB-98		EDXRF
			FE	4.7	%	LCS	26-FEB-98		EDXRF
			PB	1700	PPM	LCS	26-FEB-98		EDXRF
			PH	8.2	pH	EBK	23-FEB-98		9040
			SE	12	PPM	LCS	26-FEB-98		EDXRF
			ZN	7500	PPM	LCS	26-FEB-98		EDXRF


 Approved

 Reviewer

Q C FOR ELPASO SOILS L980356

CCV 30651-58

GIVEN

FOUND

PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
	12	420		18	8062		27400
351	14	367	1027	15	7639	11	28540
480	4	370	1041	15	7586	12	28956
464	19	283	1167	15	7465	22	28295
462	14	328	1044	15	7406	9	28308
462	29	418	1139	15	7543	19	28348
527	17	278	996	15	7446	11	28689
444	15	399	963	15	7567	39	28817

LCS BRS2704

GIVEN

FOUND

23.4	3.45	135	98.6	4.4	161		438
<20	<10	76	115	4.4	188	<10	477
<20	<10	42	130	4.4	200	<10	476
<20	<10	96	139	4.4	192	<10	492

LCS SO-1

GIVEN

FOUND

		160	61	6	21		146
<20	<10	52	76	6.2	17	<10	134

DUPLICATES

	As	Cd	*Cr	Cu	Fe	[Pb	Se	Zn
L980356-20	99	49	<30	535	1.8	547	<10	902
DUP356-20	65	50	138	576	1.8	562	<10	890
%DIFF	41	2		7	0	3		1

L980356-40	925	303	235	996	2.3	1059	<10	666
DUP356-40	885	313	137	1026	2.4	1110	13	687
%DIFF	4	3	53	3	4	5		3

L980356-60	<20	<10	132	327	2.4	229	<10	217
DUP356-60	<20	<10	86	312	2.4	228	<10	188
%DIFF			42	5	0	0		14

L980356-75	271	51	146	1374	4.7	1738	12	7469
DUP356-75	266	54	105	967	4.4	1638	<10	7013
%DIFF	2	6	33	35	7	6		6

* The instrument excitation conditions are optimized for Pb and As resulting in decreased sensitivity for Cr. Because of this a high % relative difference is expected for Cr values less than 300ppm.

ASARCO

March 3, 1998

Mr. Lairy Johnson
Hydrometrics Inc.
El Paso

Please find attached the X-ray results for you El Paso soil samples (C and D) collected from July 8th of 97 to July 18th of 97. Also attached are the QC results for this set.

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

RECEIVED
MAR 09 1998
HYDROMETRICS, INC.



Lee Stone
Senior Analytical
Chemist

cc: GRStanga (w\attach)
JVanek “



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-1	14-JUL-97	SSIH5-15C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	13	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	48	PPM	LCS	02-MAR-98		EDXRF
L980374-2	14-JUL-97	SSIH5-15D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	22	PPM	LCS	02-MAR-98		EDXRF
			PH	9.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	47	PPM	LCS	02-MAR-98		EDXRF
L980374-3	14-JUL-97	SSIA5-16C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	21	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	11	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	48	PPM	LCS	02-MAR-98		EDXRF
L980374-4	14-JUL-97	SSIA5-16D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	46	PPM	LCS	02-MAR-98		EDXRF
			CU	23	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	18	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	81	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-5	14-JUL-97	SSIA5-17C	AS	24	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	80	PPM	LCS	02-MAR-98		EDXRF
			CU	57	PPM	LCS	02-MAR-98		EDXRF
			FE	1.7	%	LCS	02-MAR-98		EDXRF
			PB	63	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	90	PPM	LCS	02-MAR-98		EDXRF
L980374-6	14-JUL-97	SSIA5-17D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	140	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	24	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	50	PPM	LCS	02-MAR-98		EDXRF
L980374-7	14-JUL-97	SSIA5-18C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	21	PPM	LCS	02-MAR-98		EDXRF
			FE	1.7	%	LCS	02-MAR-98		EDXRF
			PB	32	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	41	PPM	LCS	02-MAR-98		EDXRF
L980374-8	14-JUL-97	SSIA5-18D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	26	PPM	LCS	02-MAR-98		EDXRF
			PH	9.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	44	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-9	14-JUL-97	SSIA8-4C	AS	6600	PPM	LCS	02-MAR-98		EDXRF
			CD	1000	PPM	LCS	02-MAR-98		EDXRF
			CR	79	PPM	LCS	02-MAR-98		EDXRF
			CU	39000	PPM	LCS	02-MAR-98		EDXRF
			FE	5.6	%	LCS	02-MAR-98		EDXRF
			PB	71000	PPM	LCS	02-MAR-98		EDXRF
			PH	6.9	pH	EBK	25-FEB-98		9040
			SE	68	PPM	LCS	02-MAR-98		EDXRF
			ZN	26000	PPM	LCS	02-MAR-98		EDXRF
L980374-10	14-JUL-97	SSIA8-4D	AS	3100	PPM	LCS	02-MAR-98		EDXRF
			CD	530	PPM	LCS	02-MAR-98		EDXRF
			CR	140	PPM	LCS	02-MAR-98		EDXRF
			CU	13000	PPM	LCS	02-MAR-98		EDXRF
			FE	4.4	%	LCS	02-MAR-98		EDXRF
			PB	22000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.3	pH	EBK	25-FEB-98		9040
			SE	23	PPM	LCS	02-MAR-98		EDXRF
			ZN	11000	PPM	LCS	02-MAR-98		EDXRF
L980374-11	16-JUL-97	SSIA8-5C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	28	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	1100	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	440	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	770	PPM	LCS	02-MAR-98		EDXRF
L980374-12	16-JUL-97	SSIA8-5D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	170	PPM	LCS	02-MAR-98		EDXRF
			FE	1.6	%	LCS	02-MAR-98		EDXRF
			PB	50	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	250	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-13	16-JUL-97	SS1A8-6C	AS	58	PPM	LCS	02-MAR-98		EDXRF
			CD	130	PPM	LCS	02-MAR-98		EDXRF
			CR	97	PPM	LCS	02-MAR-98		EDXRF
			CU	530	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	1700	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1100	PPM	LCS	02-MAR-98		EDXRF
L980374-14	16-JUL-97	SS1A8-6D	AS	120	PPM	LCS	02-MAR-98		EDXRF
			CD	110	PPM	LCS	02-MAR-98		EDXRF
			CR	100	PPM	LCS	02-MAR-98		EDXRF
			CU	2600	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	2400	PPM	LCS	02-MAR-98		EDXRF
			PH	9.3	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1300	PPM	LCS	02-MAR-98		EDXRF
L980374-15	16-JUL-97	SS1A8-7C	AS	31	PPM	LCS	02-MAR-98		EDXRF
			CD	41	PPM	LCS	02-MAR-98		EDXRF
			CR	200	PPM	LCS	02-MAR-98		EDXRF
			CU	380	PPM	LCS	02-MAR-98		EDXRF
			FE	1.5	%	LCS	02-MAR-98		EDXRF
			PB	500	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	330	PPM	LCS	02-MAR-98		EDXRF
L980374-16	16-JUL-97	SS1A8-7D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	250	PPM	LCS	02-MAR-98		EDXRF
			CU	23	PPM	LCS	02-MAR-98		EDXRF
			FE	2.5	%	LCS	02-MAR-98		EDXRF
			PB	42	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	54	PPM	LCS	02-MAR-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-17	16-JUL-97	SSIA8-8C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	140	PPM	LCS	02-MAR-98		EDXRF
			CU	340	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	330	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	260	PPM	LCS	02-MAR-98		EDXRF
L980374-18	16-JUL-97	SSIA8-8D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	92	PPM	LCS	02-MAR-98		EDXRF
			CU	240	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	920	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	210	PPM	LCS	02-MAR-98		EDXRF
L980374-19	16-JUL-97	SSIA8-9C	AS	180	PPM	LCS	02-MAR-98		EDXRF
			CD	76	PPM	LCS	02-MAR-98		EDXRF
			CR	75	PPM	LCS	02-MAR-98		EDXRF
			CU	3800	PPM	LCS	02-MAR-98		EDXRF
			FE	2.9	%	LCS	02-MAR-98		EDXRF
			PB	4600	PPM	LCS	02-MAR-98		EDXRF
			PH	7.8	pH	EBK	25-FEB-98		9040
			SE	12	PPM	LCS	02-MAR-98		EDXRF
			ZN	1600	PPM	LCS	02-MAR-98		EDXRF
L980374-20	16-JUL-97	SSIA8-9D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	19	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	840	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	1300	PPM	LCS	02-MAR-98		EDXRF
			PH	8.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	470	PPM	LCS	02-MAR-98		EDXRF

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L980374-21	17-JUL-97	SSENT1-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	69	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	160	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		EDXRF
			SE	<10	PPM	LCS	02-MAR-98		9040
			ZN	70	PPM	LCS	02-MAR-98		EDXRF
L980374-22	17-JUL-97	SSENT1-D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	96	PPM	LCS	02-MAR-98		EDXRF
			CU	65	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	94	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		EDXRF
			SE	<10	PPM	LCS	02-MAR-98		9040
			ZN	88	PPM	LCS	02-MAR-98		EDXRF
L980374-23	17-JUL-97	SSENT2-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	430	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	430	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		EDXRF
			SE	<10	PPM	LCS	02-MAR-98		9040
			ZN	250	PPM	LCS	02-MAR-98		EDXRF
L980374-24	17-JUL-97	SSENT2-D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	31	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.3	%	LCS	02-MAR-98		EDXRF
			PB	26	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		EDXRF
			SE	<10	PPM	LCS	02-MAR-98		9040
			ZN	47	PPM	LCS	02-MAR-98		EDXRF

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L980374-25	17-JUL-97	SSENT6-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	95	PPM	LCS	02-MAR-98		EDXRF
			CU	340	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	610	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	380	PPM	LCS	02-MAR-98		EDXRF
L980374-26	17-JUL-97	SSENT6-D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	60	PPM	LCS	02-MAR-98		EDXRF
			CU	49	PPM	LCS	02-MAR-98		EDXRF
			FE	2.4	%	LCS	02-MAR-98		EDXRF
			PB	38	PPM	LCS	02-MAR-98		EDXRF
			PH	7.5	pH	EBK	25-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	66	PPM	LCS	02-MAR-98		EDXRF
L980374-27	14-JUL-97	SSENT7-C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.4	%	LCS	02-MAR-98		EDXRF
			PB	25	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	51	PPM	LCS	02-MAR-98		EDXRF
L980374-28	08-JUL-97	SSIA5-1C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	21	PPM	LCS	02-MAR-98		EDXRF
			PH	9.1	pH	EBK	25-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	43	PPM	LCS	02-MAR-98		EDXRF

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L980374-29	08-JUL-97	SSIA5-1D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	99	PPM	LCS	02-MAR-98		EDXRF
			CU	34	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	58	PPM	LCS	02-MAR-98		EDXRF
			PH	9.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	63	PPM	LCS	02-MAR-98		EDXRF
L980374-30	08-JUL-97	SSIA5-2C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	85	PPM	LCS	02-MAR-98		EDXRF
			CU	81	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	95	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	77	PPM	LCS	02-MAR-98		EDXRF
L980374-31	08-JUL-97	SSIA5-2D	AS	27	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	71	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	82	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	55	PPM	LCS	02-MAR-98		EDXRF
L980374-32	08-JUL-97	SSIA5-3C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	52	PPM	LCS	02-MAR-98		EDXRF
			CU	570	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	410	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	300	PPM	LCS	02-MAR-98		EDXRF

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L980374-33	08-JUL-97	SSIA5-3D	AS	60	PPM	LCS	02-MAR-98		EDXRF
			CD	17	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	920	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	590	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	400	PPM	LCS	02-MAR-98		EDXRF
L980374-34	08-JUL-97	SSIA5-4C	AS	100	PPM	LCS	02-MAR-98		EDXRF
			CD	46	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	1900	PPM	LCS	02-MAR-98		EDXRF
			FE	2.4	%	LCS	02-MAR-98		EDXRF
			PB	2200	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98	9040	EDXRF
			SE	12	PPM	LCS	02-MAR-98		EDXRF
			ZN	1300	PPM	LCS	02-MAR-98		EDXRF
L980374-35	08-JUL-97	SSIA5-4D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	88	PPM	LCS	02-MAR-98		EDXRF
			CU	76	PPM	LCS	02-MAR-98		EDXRF
			FE	2.8	%	LCS	02-MAR-98		EDXRF
			PB	81	PPM	LCS	02-MAR-98		EDXRF
			PH	7.7	pH	EBK	25-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	130	PPM	LCS	02-MAR-98		EDXRF
L980374-36	08-JUL-97	SSIA5-5C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	63	PPM	LCS	02-MAR-98		EDXRF
			CU	130	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	160	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98	9040	EDXRF
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	160	PPM	LCS	02-MAR-98		EDXRF

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L980374-37	08-JUL-97	SS1A5-5D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	66	PPM	LCS	02-MAR-98		EDXRF
			CU	56	PPM	LCS	02-MAR-98		EDXRF
			FE	2.9	%	LCS	02-MAR-98		EDXRF
			PB	63	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	110	PPM	LCS	02-MAR-98		EDXRF
L980374-38	08-JUL-97	SS1A5-6C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	13	PPM	LCS	02-MAR-98		EDXRF
			CR	74	PPM	LCS	02-MAR-98		EDXRF
			CU	370	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	430	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	290	PPM	LCS	02-MAR-98		EDXRF
L980374-39	08-JUL-97	SS1A5-6D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	15	PPM	LCS	02-MAR-98		EDXRF
			CR	71	PPM	LCS	02-MAR-98		EDXRF
			CU	460	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	500	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	290	PPM	LCS	02-MAR-98		EDXRF
L980374-40	08-JUL-97	SS1A5-7C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	27	PPM	LCS	02-MAR-98		EDXRF
			PH	7.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	29	PPM	LCS	02-MAR-98		EDXRF

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L980374-41	08-JUL-97	SSIA5-7D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	37	PPM	LCS	02-MAR-98		EDXRF
			CU	30	PPM	LCS	02-MAR-98		EDXRF
			FE	2.1	%	LCS	02-MAR-98		EDXRF
			PB	27	PPM	LCS	02-MAR-98		EDXRF
			PH	7.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	49	PPM	LCS	02-MAR-98		EDXRF
L980374-42	08-JUL-97	SSIA5-8C	AS	20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	3.1	%	LCS	02-MAR-98		EDXRF
			PB	32	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	86	PPM	LCS	02-MAR-98		EDXRF
L980374-43	08-JUL-97	SSIA5-8D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	42	PPM	LCS	02-MAR-98		EDXRF
			FE	3.0	%	LCS	02-MAR-98		EDXRF
			PB	25	PPM	LCS	02-MAR-98		EDXRF
			PH	9.0	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	92	PPM	LCS	02-MAR-98		EDXRF
L980374-44	08-JUL-97	SSIA5-9C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	58	PPM	LCS	02-MAR-98		EDXRF
			CU	80	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	46	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	29	PPM	LCS	02-MAR-98		EDXRF

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L980374-45	08-JUL-97	SSIA5-9D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	52	PPM	LCS	02-MAR-98		EDXRF
			CU	57	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	30	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	33	PPM	LCS	02-MAR-98		EDXRF
L980374-46	08-JUL-97	SSIA5-10C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	360	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	300	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	270	PPM	LCS	02-MAR-98		EDXRF
L980374-47	08-JUL-97	SSIA5-10D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	33	PPM	LCS	02-MAR-98		EDXRF
			CU	230	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	200	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	180	PPM	LCS	02-MAR-98		EDXRF
L980374-48	08-JUL-97	SSIA5-11C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	130	PPM	LCS	02-MAR-98		EDXRF
			CU	330	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	230	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	200	PPM	LCS	02-MAR-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-49	08-JUL-97	SSIA5-11D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	68	PPM	LCS	02-MAR-98		EDXRF
			CU	33	PPM	LCS	02-MAR-98		EDXRF
			FE	3.1	%	LCS	02-MAR-98		EDXRF
			PB	31	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	74	PPM	LCS	02-MAR-98		EDXRF
L980374-50	08-JUL-97	SSIA5-12C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	52	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	2.7	%	LCS	02-MAR-98		EDXRF
			PB	38	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	72	PPM	LCS	02-MAR-98		EDXRF
L980374-51	08-JUL-97	SSIA5-12D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	41	PPM	LCS	02-MAR-98		EDXRF
			CU	130	PPM	LCS	02-MAR-98		EDXRF
			FE	3.0	%	LCS	02-MAR-98		EDXRF
			PB	110	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	120	PPM	LCS	02-MAR-98		EDXRF
L980374-52	08-JUL-97	SSIA5-13C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	87	PPM	LCS	02-MAR-98		EDXRF
			CU	190	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	160	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	130	PPM	LCS	02-MAR-98		EDXRF

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							ANALYZED	DAYS METHOD
L980374-53	08-JUL-97	SS1A5-13D	AS	<20	PPM	LCS	02-MAR-98	EDXRF
			CD	<10	PPM	LCS	02-MAR-98	EDXRF
			CR	<30	PPM	LCS	02-MAR-98	EDXRF
			CU	42	PPM	LCS	02-MAR-98	EDXRF
			FE	2.1	%	LCS	02-MAR-98	EDXRF
			PB	35	PPM	LCS	02-MAR-98	EDXRF
			PH	8.4	pH	EBK	25-FEB-98	9040
			SE	<10	PPM	LCS	02-MAR-98	EDXRF
			ZN	61	PPM	LCS	02-MAR-98	EDXRF
L980374-54	08-JUL-97	SS1A5-14C	AS	<20	PPM	LCS	02-MAR-98	EDXRF
			CD	<10	PPM	LCS	02-MAR-98	EDXRF
			CR	56	PPM	LCS	02-MAR-98	EDXRF
			CU	<20	PPM	LCS	02-MAR-98	EDXRF
			FE	1.7	%	LCS	02-MAR-98	EDXRF
			PB	12	PPM	LCS	02-MAR-98	EDXRF
			PH	8.7	pH	EBK	25-FEB-98	9040
			SE	<10	PPM	LCS	02-MAR-98	EDXRF
			ZN	28	PPM	LCS	02-MAR-98	EDXRF
L980374-55	08-JUL-97	SS1A5-14D	AS	<20	PPM	LCS	02-MAR-98	EDXRF
			CD	<10	PPM	LCS	02-MAR-98	EDXRF
			CR	190	PPM	LCS	02-MAR-98	EDXRF
			CU	<20	PPM	LCS	02-MAR-98	EDXRF
			FE	1.8	%	LCS	02-MAR-98	EDXRF
			PB	11	PPM	LCS	02-MAR-98	EDXRF
			PH	8.7	pH	EBK	25-FEB-98	9040
			SE	<10	PPM	LCS	02-MAR-98	EDXRF
			ZN	38	PPM	LCS	02-MAR-98	EDXRF
L980374-56	17-JUL-97	SS1A8-10C	AS	<20	PPM	LCS	02-MAR-98	EDXRF
			CD	25	PPM	LCS	02-MAR-98	EDXRF
			CR	79	PPM	LCS	02-MAR-98	EDXRF
			CU	520	PPM	LCS	02-MAR-98	EDXRF
			FE	1.6	%	LCS	02-MAR-98	EDXRF
			PB	810	PPM	LCS	02-MAR-98	EDXRF
			PH	8.5	pH	EBK	25-FEB-98	9040
			SE	<10	PPM	LCS	02-MAR-98	EDXRF
			ZN	620	PPM	LCS	02-MAR-98	EDXRF

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L980374-57	17-JUL-97	SS1A8-11C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	62	PPM	LCS	02-MAR-98		EDXRF
			FE	0.7	%	LCS	02-MAR-98		EDXRF
			PB	36	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	25	PPM	LCS	02-MAR-98		EDXRF
L980374-58	17-JUL-97	SS1A8-12C	AS	32	PPM	LCS	02-MAR-98		EDXRF
			CD	23	PPM	LCS	02-MAR-98		EDXRF
			CR	230	PPM	LCS	02-MAR-98		EDXRF
			CU	1500	PPM	LCS	02-MAR-98		EDXRF
			FE	1.6	%	LCS	02-MAR-98		EDXRF
			PB	1100	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	760	PPM	LCS	02-MAR-98		EDXRF
L980374-59	17-JUL-97	SS1A8-13C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	170	PPM	LCS	02-MAR-98		EDXRF
			CU	480	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	190	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	230	PPM	LCS	02-MAR-98		EDXRF
L980374-60	17-JUL-97	SS1A8-14C	AS	120	PPM	LCS	02-MAR-98		EDXRF
			CD	20	PPM	LCS	02-MAR-98		EDXRF
			CR	370	PPM	LCS	02-MAR-98		EDXRF
			CU	5800	PPM	LCS	02-MAR-98		EDXRF
			FE	18	%	LCS	02-MAR-98		EDXRF
			PB	2900	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98	9040	
			SE	14	PPM	LCS	02-MAR-98		EDXRF
			ZN	25000	PPM	LCS	02-MAR-98		EDXRF

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L980374-61	18-JUL-97	SS1A8-15C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	92	PPM	LCS	02-MAR-98		EDXRF
			CU	210	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	100	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	200	PPM	LCS	02-MAR-98		EDXRF
L980374-62	18-JUL-97	SS1A8-16C	AS	1100	PPM	LCS	02-MAR-98		EDXRF
			CD	120	PPM	LCS	02-MAR-98		EDXRF
			CR	50	PPM	LCS	02-MAR-98		EDXRF
			CU	4400	PPM	LCS	02-MAR-98		EDXRF
			FE	4.0	%	LCS	02-MAR-98		EDXRF
			PB	3500	PPM	LCS	02-MAR-98		EDXRF
			PH	8.0	pH	EBK	25-FEB-98		9040
			SE	17	PPM	LCS	02-MAR-98		EDXRF
			ZN	3600	PPM	LCS	02-MAR-98		EDXRF
L980374-63	18-JUL-97	SS1A8-17C	AS	27	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	150	PPM	LCS	02-MAR-98		EDXRF
			CU	2100	PPM	LCS	02-MAR-98		EDXRF
			FE	2.0	%	LCS	02-MAR-98		EDXRF
			PB	520	PPM	LCS	02-MAR-98		EDXRF
			PH	8.6	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	730	PPM	LCS	02-MAR-98		EDXRF
L980374-64	18-JUL-97	SS1A8-19C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	430	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	290	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	410	PPM	LCS	02-MAR-98		EDXRF

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L980374-65	18-JUL-97	SSIA8-21C	AS	23	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	500	PPM	LCS	02-MAR-98		EDXRF
			FE	0.9	%	LCS	02-MAR-98		EDXRF
			PB	150	PPM	LCS	02-MAR-98		EDXRF
			PH	8.6	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	170	PPM	LCS	02-MAR-98		EDXRF
L980374-66	18-JUL-97	SSIA8-22C	AS	1800	PPM	LCS	02-MAR-98		EDXRF
			CD	260	PPM	LCS	02-MAR-98		EDXRF
			CR	89	PPM	LCS	02-MAR-98		EDXRF
			CU	610	PPM	LCS	02-MAR-98		EDXRF
			FE	2.2	%	LCS	02-MAR-98		EDXRF
			PB	350	PPM	LCS	02-MAR-98		EDXRF
			PH	7.2	pH	EBK	25-FEB-98		9040
			SE	15	PPM	LCS	02-MAR-98		EDXRF
			ZN	1600	PPM	LCS	02-MAR-98		EDXRF
L980374-67	18-JUL-97	SSIA8-23C	AS	29	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	30	PPM	LCS	02-MAR-98		EDXRF
			CU	410	PPM	LCS	02-MAR-98		EDXRF
			FE	1.4	%	LCS	02-MAR-98		EDXRF
			PB	370	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	370	PPM	LCS	02-MAR-98		EDXRF
L980374-68	18-JUL-97	SSIA8-27C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	130	PPM	LCS	02-MAR-98		EDXRF
			CU	540	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	170	PPM	LCS	02-MAR-98		EDXRF
			PH	8.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	95	PPM	LCS	02-MAR-98		EDXRF

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L980374-69	18-JUL-97	SSIA8-28C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	170	PPM	LCS	02-MAR-98		EDXRF
			CU	38	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	60	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	55	PPM	LCS	02-MAR-98		EDXRF
L980374-70	18-JUL-97	SSIA8-31C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	44	PPM	LCS	02-MAR-98		EDXRF
			CR	340	PPM	LCS	02-MAR-98		EDXRF
			CU	4400	PPM	LCS	02-MAR-98		EDXRF
			FE	26	%	LCS	02-MAR-98		EDXRF
			PB	7100	PPM	LCS	02-MAR-98		EDXRF
			PH	8.3	pH	EBK	25-FEB-98	9040	
			SE	42	PPM	LCS	02-MAR-98		EDXRF
			ZN	12000	PPM	LCS	02-MAR-98		EDXRF
L980374-71	17-JUL-97	SSIA8-10D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	28	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	220	PPM	LCS	02-MAR-98		EDXRF
			FE	1.4	%	LCS	02-MAR-98		EDXRF
			PB	660	PPM	LCS	02-MAR-98		EDXRF
			PH	9.1	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	380	PPM	LCS	02-MAR-98		EDXRF
L980374-72	17-JUL-97	SSIA8-11D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	76	PPM	LCS	02-MAR-98		EDXRF
			CU	400	PPM	LCS	02-MAR-98		EDXRF
			FE	0.7	%	LCS	02-MAR-98		EDXRF
			PB	230	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	98	PPM	LCS	02-MAR-98		EDXRF

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L980374-73	17-JUL-97	SSIA8-12D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	200	PPM	LCS	02-MAR-98		EDXRF
			CU	31	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	38	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	12	PPM	LCS	02-MAR-98		EDXRF
L980374-74	17-JUL-97	SSIA8-13D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	45	PPM	LCS	02-MAR-98		EDXRF
			CR	120	PPM	LCS	02-MAR-98		EDXRF
			CU	130	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	98	PPM	LCS	02-MAR-98		EDXRF
			PH	8.6	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	180	PPM	LCS	02-MAR-98		EDXRF
L980374-75	18-JUL-97	SSIA8-15D	AS	83	PPM	LCS	02-MAR-98		EDXRF
			CD	92	PPM	LCS	02-MAR-98		EDXRF
			CR	160	PPM	LCS	02-MAR-98		EDXRF
			CU	14000	PPM	LCS	02-MAR-98		EDXRF
			FE	1.9	%	LCS	02-MAR-98		EDXRF
			PB	8900	PPM	LCS	02-MAR-98		EDXRF
			PH	7.9	pH	EBK	25-FEB-98		9040
			SE	72	PPM	LCS	02-MAR-98		EDXRF
			ZN	2200	PPM	LCS	02-MAR-98		EDXRF
L980374-76	18-JUL-97	SSIA8-16D	AS	1200	PPM	LCS	02-MAR-98		EDXRF
			CD	520	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	3100	PPM	LCS	02-MAR-98		EDXRF
			FE	5.2	%	LCS	02-MAR-98		EDXRF
			PB	5000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.5	pH	EBK	25-FEB-98		9040
			SE	50	PPM	LCS	02-MAR-98		EDXRF
			ZN	3900	PPM	LCS	02-MAR-98		EDXRF

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-77	18-JUL-97	SS1A8-17D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	11	PPM	LCS	02-MAR-98		EDXRF
			CR	74	PPM	LCS	02-MAR-98		EDXRF
			CU	260	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	240	PPM	LCS	02-MAR-98		EDXRF
			PH	8.7	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	170	PPM	LCS	02-MAR-98		EDXRF
L980374-78	18-JUL-97	SS1A8-19D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	220	PPM	LCS	02-MAR-98		EDXRF
			CR	41	PPM	LCS	02-MAR-98		EDXRF
			CU	11000	PPM	LCS	02-MAR-98		EDXRF
			FE	3.1	%	LCS	02-MAR-98		EDXRF
			PB	14000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.6	pH	EBK	25-FEB-98	9040	
			SE	14	PPM	LCS	02-MAR-98		EDXRF
			ZN	7200	PPM	LCS	02-MAR-98		EDXRF
L980374-79	18-JUL-97	SS1A8-21D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	14	PPM	LCS	02-MAR-98		EDXRF
			CR	45	PPM	LCS	02-MAR-98		EDXRF
			CU	310	PPM	LCS	02-MAR-98		EDXRF
			FE	1.1	%	LCS	02-MAR-98		EDXRF
			PB	480	PPM	LCS	02-MAR-98		EDXRF
			PH	8.5	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	220	PPM	LCS	02-MAR-98		EDXRF
L980374-80	18-JUL-97	SS1A8-22D	AS	160	PPM	LCS	02-MAR-98		EDXRF
			CD	42	PPM	LCS	02-MAR-98		EDXRF
			CR	<30	PPM	LCS	02-MAR-98		EDXRF
			CU	<20	PPM	LCS	02-MAR-98		EDXRF
			FE	1.4	%	LCS	02-MAR-98		EDXRF
			PB	13	PPM	LCS	02-MAR-98		EDXRF
			PH	7.8	pH	EBK	25-FEB-98	9040	
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	160	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-81	18-JUL-97	SS1A8-23D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	78	PPM	LCS	02-MAR-98		EDXRF
			CU	68	PPM	LCS	02-MAR-98		EDXRF
			FE	1.6	%	LCS	02-MAR-98		EDXRF
			PB	50	PPM	LCS	02-MAR-98		EDXRF
			PH	9.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	64	PPM	LCS	02-MAR-98		EDXRF
L980374-82	18-JUL-97	SS1A8-28D	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	<10	PPM	LCS	02-MAR-98		EDXRF
			CR	89	PPM	LCS	02-MAR-98		EDXRF
			CU	31	PPM	LCS	02-MAR-98		EDXRF
			FE	1.3	%	LCS	02-MAR-98		EDXRF
			PB	27	PPM	LCS	02-MAR-98		EDXRF
			PH	8.4	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	20	PPM	LCS	02-MAR-98		EDXRF
L980374-83	16-JUL-97	SS1A8-1C	AS	800	PPM	LCS	02-MAR-98		EDXRF
			CD	99	PPM	LCS	02-MAR-98		EDXRF
			CR	200	PPM	LCS	02-MAR-98		EDXRF
			CU	3000	PPM	LCS	02-MAR-98		EDXRF
			FE	14	%	LCS	02-MAR-98		EDXRF
			PB	10000	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	40	PPM	LCS	02-MAR-98		EDXRF
			ZN	17000	PPM	LCS	02-MAR-98		EDXRF
L980374-84	16-JUL-97	SS1A8-2C	AS	880	PPM	LCS	02-MAR-98		EDXRF
			CD	38	PPM	LCS	02-MAR-98		EDXRF
			CR	290	PPM	LCS	02-MAR-98		EDXRF
			CU	1600	PPM	LCS	02-MAR-98		EDXRF
			FE	16	%	LCS	02-MAR-98		EDXRF
			PB	8900	PPM	LCS	02-MAR-98		EDXRF
			PH	8.8	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	24000	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	HOLD	METHOD
							ANALYZED	DAYS	
L980374-85	16-JUL-97	SS1A8-2D	AS	770	PPM	LCS	02-MAR-98		EDXRF
			CD	37	PPM	LCS	02-MAR-98		EDXRF
			CR	72	PPM	LCS	02-MAR-98		EDXRF
			CU	1500	PPM	LCS	02-MAR-98		EDXRF
			FE	17	%	LCS	02-MAR-98		EDXRF
			PB	10000	PPM	LCS	02-MAR-98		EDXRF
			PH	7.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	28000	PPM	LCS	02-MAR-98		EDXRF
L980374-86	16-JUL-97	SS1A8-3C	AS	1100	PPM	LCS	02-MAR-98		EDXRF
			CD	400	PPM	LCS	02-MAR-98		EDXRF
			CR	110	PPM	LCS	02-MAR-98		EDXRF
			CU	7000	PPM	LCS	02-MAR-98		EDXRF
			FE	2.9	%	LCS	02-MAR-98		EDXRF
			PB	6800	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	40	PPM	LCS	02-MAR-98		EDXRF
			ZN	4800	PPM	LCS	02-MAR-98		EDXRF
L980374-87	16-JUL-97	SS1A8-3D	AS	290	PPM	LCS	02-MAR-98		EDXRF
			CD	79	PPM	LCS	02-MAR-98		EDXRF
			CR	190	PPM	LCS	02-MAR-98		EDXRF
			CU	3700	PPM	LCS	02-MAR-98		EDXRF
			FE	1.8	%	LCS	02-MAR-98		EDXRF
			PB	4700	PPM	LCS	02-MAR-98		EDXRF
			PH	7.9	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	2200	PPM	LCS	02-MAR-98		EDXRF
L980374-88	14-JUL-97	SS1A5-19C	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	13	PPM	LCS	02-MAR-98		EDXRF
			CR	68	PPM	LCS	02-MAR-98		EDXRF
			CU	230	PPM	LCS	02-MAR-98		EDXRF
			FE	2.6	%	LCS	02-MAR-98		EDXRF
			PB	860	PPM	LCS	02-MAR-98		EDXRF
			PH	8.1	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1800	PPM	LCS	02-MAR-98		EDXRF

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980374

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980374-89	14-JUL-97	SSIA5-190	AS	<20	PPM	LCS	02-MAR-98		EDXRF
			CD	15	PPM	LCS	02-MAR-98		EDXRF
			CR	59	PPM	LCS	02-MAR-98		EDXRF
			CU	270	PPM	LCS	02-MAR-98		EDXRF
			FE	2.5	%	LCS	02-MAR-98		EDXRF
			PB	810	PPM	LCS	02-MAR-98		EDXRF
			PH	8.2	pH	EBK	25-FEB-98		9040
			SE	<10	PPM	LCS	02-MAR-98		EDXRF
			ZN	1500	PPM	LCS	02-MAR-98		EDXRF


Approved
Reviewer

Q C FOR ELPASO SOILS L980374

CCV 30651-58

GIVEN

FOUND

PPM As	PPM Cd	PPM Cr	PPM Cu	% Fe	PPM Pb	PPM Se	PPM Zn
	12	420		18	8062		27400
514	21	454	1057	15	7425	3	28718
475	13	303	1016	15	7349	17	28434
365	25	464	964	15	7552	38	28296
491	21	227	894	15	7545	3	28653
383	17	423	1018	15	7443	6	28208
459	13	306	1056	15	7419	14	28295
488	15	347	998	15	7400	5	28343
409	19	467	1071	15	7487	4	28543
414	16	377	955	15	7594	3	28812

LCS BRS2704

GIVEN

FOUND

23.4	3.45	135	98.6	4.4	161		438
<20	<10	21	104	4.4	209	<10	488
<20	<10	56	105	4.4	217	<10	525

LCS SO-1

GIVEN

FOUND

		160	61	6	21		146
<20	<10	51	111	6.2	19	<10	144
<20	<10	221	74	6.2	17	<10	152
<20	<10	138	66	6.3	16	<10	167

DUPLICATES

	As	Cd	*Cr	Cu	Fe	Pb	Se	Zn
L980374-20	17	19	<30	835	2.1	1331	<10	474
DUP374-20	11	16	100	782	2.0	1297	<10	451
%DIFF	43	17		7	5	3		5

L980374-40	<10	<10	<30	<20	1.9	27	<10	29
DUP374-40	<10	<10	31	<20	1.9	14	<10	45
%DIFF					0	63		43

L980374-60	121	20	370	5816	18	2862	15	24858
DUP374-60	126	27	349	5700	18	2790	18	24804
%DIFF	4	30	6	2	0	3	18	0

L980374-80	162	42	<30	16	1.4	13	<10	162
DUP374-80	147	46	82	23	1.3	16	<10	186
%DIFF	10	9		36	7	21		14

L980374-89	<10	15	59	266	2.5	809	<10	1507
DUP374-89	<10	8	<30	233	2.5	802	<10	1498
%DIFF		61		13	0	1		1

* The instrument conditions are optimized for Pb and As resulting in decreased sensitivity for Cr. Because of this a high % relative difference is expected for Cr values less than 300 ppm.

Hydrometrics, Inc.

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS	ANALYSIS										REMARKS					
SAMPLERS: (Signature)					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	As	Cd		Cu	Fe	Pb	Se	Zn
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER															
7-16-97	1150		X	SS1A8-4A																
7-16-97	1154			SS1A8-4B																
7-16-97	1158			SS1A8-4C																
7-16-97	1202			SS1A8-4D																
7-16-97	1124			SS1A8-5A																
7-16-97	1133			SS1A8-5B																
7-16-97	1136			SS1A8-5C																
7-16-97	1139			SS1A8-5D																
7-16-97	1235			SS1A8-6A																
7-16-97	1235			SS1A8-6A ₂																
7-16-97	1239			SS1A8-6B																
7-16-97	1241			SS1A8-6C																
7-16-97				SS1A8-6D																
7-16-97	1314			SS1A8-7A																
7-16-97	1318			SS1A8-7B																

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	7-17-97 1700				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
				Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined	
				Signature _____	

HFORM-1-4/95

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

CHAIN OF CUSTODY RECORD

HYDROMETRICS, INC.

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEx	TPH	XRF-As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH							REMARKS
SAMPLERS: (Signature)																				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																
7-14-97	1100			SS1H5-15A																
7-14-97	1010			SS1H5-15A ₂																
7-14-97	1010			SS1H5-15B																
7-14-97	1010			SS1H5-15B ₂																
7-14-97	1012			SS1H5-15C																
7-14-97	1016			SS1H5-15D																
7-14-97	1025			SS1A5-16A																
7-14-97	1025			SS1A5-16A ₂																
7-14-97	1030			SS1A5-16B																
7-14-97	1030			SS1A5-16B ₂																
7-14-97	1033			SS1A5-16C																
7-14-97	1036			SS1A5-16D																
7-14-97	1140			SS1A5-17A																
7-14-97	1145			SS1A5-17B																
7-14-97	1047			SS1A5-17C																
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____										
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks														
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____												
Split Samples:		<input type="checkbox"/> Accepted <input type="checkbox"/> Declined																		

HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address at top of pageSplit Samples:
☐ Accepted ☐ Declined

ASARCO

RECEIVED

March 25, 1998

APR 08 1998

HYDROMETRICS, INC.

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

Please find attached the analytical results for seventeen samples collected on 7/14/97 through 7/16/97 from the ASARCO EL Paso Plant Site.

The samples were digested using hydrofluoric acid digestion and results are reported on a dry weight basis.

The samples were received by the laboratory on 3/2/98.

Sincerely,


Milan Mraz
Chemist

MM/jh
Attach.

cc: Jvanek (w/attach.)
GRStanga "



ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-1	15-JUL-98	SSIA1-1C	(L980356-1)	AS	3970.	ppm	JJT	23-MAR-98	6010	
				CD	1560.	ppm	JJT	23-MAR-98	6010	
				CR	65.	ppm	JJT	23-MAR-98	6010	
				CU	8283.	ppm	JJT	23-MAR-98	6010	
				FE	47990.	ppm	JJT	23-MAR-98	6010	
				PB	10650.	ppm	JJT	23-MAR-98	6010	
				SE	253.	ppm	JJT	23-MAR-98	6010	
				ZN	9554.	ppm	JJT	23-MAR-98	6010	
L980457-2	15-JUL-98	SSIA1-1D	(L980356-2)	AS	3020.	ppm	JJT	23-MAR-98	6010	
				CD	946.	ppm	JJT	23-MAR-98	6010	
				CR	47.	ppm	JJT	23-MAR-98	6010	
				CU	17350.	ppm	JJT	23-MAR-98	6010	
				FE	23030.	ppm	JJT	23-MAR-98	6010	
				PB	21530.	ppm	JJT	23-MAR-98	6010	
				SE	453.	ppm	JJT	23-MAR-98	6010	
				ZN	6861.	ppm	JJT	23-MAR-98	6010	
L980457-3	15-JUL-98	SSIA1-2C	(L980356-3)	AS	10440.	ppm	JJT	23-MAR-98	6010	
				CD	965.	ppm	JJT	23-MAR-98	6010	
				CR	66.	ppm	JJT	23-MAR-98	6010	
				CU	16730.	ppm	JJT	23-MAR-98	6010	
				FE	43760.	ppm	JJT	23-MAR-98	6010	
				PB	6784.	ppm	JJT	23-MAR-98	6010	
				SE	197.	ppm	JJT	23-MAR-98	6010	
				ZN	4626.	ppm	JJT	23-MAR-98	6010	
L980457-4	15-JUL-98	SSIA1-2D	(L980356-4)	AS	11960.	ppm	JJT	23-MAR-98	6010	
				CD	868.	ppm	JJT	23-MAR-98	6010	
				CR	63.	ppm	JJT	23-MAR-98	6010	
				CU	13710.	ppm	JJT	23-MAR-98	6010	
				FE	36320.	ppm	JJT	23-MAR-98	6010	
				PB	2807.	ppm	JJT	23-MAR-98	6010	
				SE	82.	ppm	JJT	23-MAR-98	6010	
				ZN	3496.	ppm	JJT	23-MAR-98	6010	
L980457-5	15-JUL-98	SSIA1-3C	(L980356-5)	AS	2429.	ppm	JJT	23-MAR-98	6010	
				CD	88.	ppm	JJT	23-MAR-98	6010	
				CR	65.	ppm	JJT	23-MAR-98	6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-5	15-JUL-98	SSIA1-3C	(L980356-5)	CU	13440.	ppm	JJT	23-MAR-98	6010
				FE	85380.	ppm	JJT	23-MAR-98	6010
				PB	5769.	ppm	JJT	23-MAR-98	6010
				SE	31.	ppm	JJT	23-MAR-98	6010
				ZN	8526.	ppm	JJT	23-MAR-98	6010
L980457-6	15-JUL-98	SSIA1-3D	(L980356-6)	AS	1476.	ppm	JJT	23-MAR-98	6010
				CD	81.	ppm	JJT	23-MAR-98	6010
				CR	79.	ppm	JJT	23-MAR-98	6010
				CU	8475.	ppm	JJT	23-MAR-98	6010
				FE	64050.	ppm	JJT	23-MAR-98	6010
				PB	4857.	ppm	JJT	23-MAR-98	6010
				SE	38.	ppm	JJT	23-MAR-98	6010
				ZN	5799.	ppm	JJT	23-MAR-98	6010
L980457-7	15-JUL-98	SSIA1-4C	(L980356-7)	AS	422.	ppm	JJT	23-MAR-98	6010
				CD	79.	ppm	JJT	23-MAR-98	6010
				CR	59.	ppm	JJT	23-MAR-98	6010
				CU	4708.	ppm	JJT	23-MAR-98	6010
				FE	33300.	ppm	JJT	23-MAR-98	6010
				PB	3011.	ppm	JJT	23-MAR-98	6010
				SE	11.	ppm	JJT	23-MAR-98	6010
				ZN	4381.	ppm	JJT	23-MAR-98	6010
L980457-8	15-JUL-98	SSIA1-4D	(L980356-8)	AS	148.	ppm	JJT	16-MAR-98	6010
				CD	27.	ppm	JJT	16-MAR-98	6010
				CR	57.	ppm	JJT	16-MAR-98	6010
				CU	2209.	ppm	JJT	16-MAR-98	6010
				FE	16860.	ppm	JJT	16-MAR-98	6010
				PB	1040.	ppm	JJT	16-MAR-98	6010
				SE	<10.	ppm	JJT	16-MAR-98	6010
				ZN	655.	ppm	JJT	16-MAR-98	6010
L980457-9	14-JUL-98	SSIA5-18D	(L980374-8)	AS	<10.	ppm	JJT	16-MAR-98	6010
				CD	<5.0	ppm	JJT	16-MAR-98	6010
				CR	76.	ppm	JJT	16-MAR-98	6010
				CU	27.	ppm	JJT	16-MAR-98	6010
				FE	14290.	ppm	JJT	16-MAR-98	6010
				PB	20.	ppm	JJT	16-MAR-98	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION		PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-9	14-JUL-98	SSIA5-18D	(L980374-8)	SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	45.	ppm	JJT	16-MAR-98		6010
L980457-10	14-JUL-98	SSIA8-4C	(L980374-9)	AS	4479.	ppm	JJT	23-MAR-98		6010
				CD	778.	ppm	JJT	23-MAR-98		6010
				CR	108.	ppm	JJT	23-MAR-98		6010
				CU	26120.	ppm	JJT	23-MAR-98		6010
				FE	53290.	ppm	JJT	23-MAR-98		6010
				PB	47440.	ppm	JJT	23-MAR-98		6010
				SE	73.	ppm	JJT	23-MAR-98		6010
				ZN	18830.	ppm	JJT	23-MAR-98		6010
L980457-11	14-JUL-98	SSIA8-4D	(L980374-10)	AS	2333.	ppm	JJT	23-MAR-98		6010
				CD	370.	ppm	JJT	23-MAR-98		6010
				CR	207.	ppm	JJT	23-MAR-98		6010
				CU	8759.	ppm	JJT	23-MAR-98		6010
				FE	37240.	ppm	JJT	23-MAR-98		6010
				PB	15790.	ppm	JJT	23-MAR-98		6010
				SE	17.	ppm	JJT	23-MAR-98		6010
				ZN	8094.	ppm	JJT	23-MAR-98		6010
L980457-12	16-JUL-98	SSIA8-5C	(L980374-11)	AS	40.	ppm	JJT	16-MAR-98		6010
				CD	19.	ppm	JJT	16-MAR-98		6010
				CR	126.	ppm	JJT	16-MAR-98		6010
				CU	813.	ppm	JJT	16-MAR-98		6010
				FE	14090.	ppm	JJT	16-MAR-98		6010
				PB	309.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	620.	ppm	JJT	16-MAR-98		6010
L980457-13	16-JUL-98	SSIA8-5D	(L980374-12)	AS	<10.	ppm	JJT	16-MAR-98		6010
				CD	7.7	ppm	JJT	16-MAR-98		6010
				CR	89.	ppm	JJT	16-MAR-98		6010
				CU	118.	ppm	JJT	16-MAR-98		6010
				FE	12140.	ppm	JJT	16-MAR-98		6010
				PB	44.	ppm	JJT	16-MAR-98		6010
				SE	<10.	ppm	JJT	16-MAR-98		6010
				ZN	192.	ppm	JJT	16-MAR-98		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L980457-14	16-JUL-98	SSIA8-6C	(L980374-13)	AS	69.	ppm	JJT	16-MAR-98	6010
				CD	99.	ppm	JJT	16-MAR-98	6010
				CR	111.	ppm	JJT	16-MAR-98	6010
				CU	490.	ppm	JJT	16-MAR-98	6010
				FE	18030.	ppm	JJT	16-MAR-98	6010
				PB	1493.	ppm	JJT	16-MAR-98	6010
				SE	<10.	ppm	JJT	16-MAR-98	6010
				ZN	896.	ppm	JJT	16-MAR-98	6010
L980457-15	16-JUL-98	SSIA8-6D	(L980374-14)	AS	112.	ppm	JJT	16-MAR-98	6010
				CD	86.	ppm	JJT	16-MAR-98	6010
				CR	125.	ppm	JJT	16-MAR-98	6010
				CU	2195.	ppm	JJT	16-MAR-98	6010
				FE	19220.	ppm	JJT	16-MAR-98	6010
				PB	1934.	ppm	JJT	16-MAR-98	6010
				SE	<10.	ppm	JJT	16-MAR-98	6010
				ZN	1028.	ppm	JJT	16-MAR-98	6010
L980457-16	16-JUL-98	SSIA8-7C	(L980374-15)	AS	35.	ppm	JJT	16-MAR-98	6010
				CD	37.	ppm	JJT	16-MAR-98	6010
				CR	120.	ppm	JJT	16-MAR-98	6010
				CU	294.	ppm	JJT	16-MAR-98	6010
				FE	13530.	ppm	JJT	16-MAR-98	6010
				PB	395.	ppm	JJT	16-MAR-98	6010
				SE	<10.	ppm	JJT	16-MAR-98	6010
				ZN	284.	ppm	JJT	16-MAR-98	6010
L980457-17	16-JUL-98	SSIA8-8C	(L980374-17)	AS	20.	ppm	JJT	16-MAR-98	6010
				CD	5.3	ppm	JJT	16-MAR-98	6010
				CR	77.	ppm	JJT	16-MAR-98	6010
				CU	279.	ppm	JJT	16-MAR-98	6010
				FE	14770.	ppm	JJT	16-MAR-98	6010
				PB	275.	ppm	JJT	16-MAR-98	6010
				SE	<10.	ppm	JJT	16-MAR-98	6010
				ZN	254.	ppm	JJT	16-MAR-98	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L980457

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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12/15
Approved
Chris Blair
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980377

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980377-1		Matrix Spike	AS	111.	% RECOVERY	JJT	20-MAR-98	6010	
			CD	89.	% RECOVERY	JJT	20-MAR-98	6010	
			CR	100.	% RECOVERY	JJT	20-MAR-98	6010	
			CU	75.	% RECOVERY	JJT	20-MAR-98	6010	
			FE	SR>4XSA	% RECOVERY	JJT	20-MAR-98	6010	
			PB	SR>4XSA	% RECOVERY	JJT	20-MAR-98	6010	
			SE	102.	% RECOVERY	JJT	20-MAR-98	6010	
			ZN	81.	% RECOVERY	JJT	20-MAR-98	6010	
WG980377-2		Prep Blank	AS	<10.	ppm	JJT	16-MAR-98	6010	
			CD	<5.0	ppm	JJT	16-MAR-98	6010	
			CR	<10.	ppm	JJT	16-MAR-98	6010	
			CU	<10.	ppm	JJT	16-MAR-98	6010	
			FE	<10.	ppm	JJT	16-MAR-98	6010	
			PB	<10.	ppm	JJT	16-MAR-98	6010	
			SE	<10.	ppm	JJT	16-MAR-98	6010	
			ZN	<5.0	ppm	JJT	16-MAR-98	6010	
WG980377-3		Laboratory Control	AS	87.	% RECOVERY	JJT	16-MAR-98	6010	
			CD	87.	% RECOVERY	JJT	16-MAR-98	6010	
			CR	88.	% RECOVERY	JJT	16-MAR-98	6010	
			CU	110.	% RECOVERY	JJT	16-MAR-98	6010	
			FE	83.	% RECOVERY	JJT	16-MAR-98	6010	
			PB	88.	% RECOVERY	JJT	16-MAR-98	6010	
			SE	<PQL	% RECOVERY	JJT	16-MAR-98	6010	
			ZN	104.	% RECOVERY	JJT	16-MAR-98	6010	
WG980377-4		Duplicate	AS	3.2	% RPD	JJT	16-MAR-98	6010	
			CD	1.8	% RPD	JJT	16-MAR-98	6010	
			CR	<1.0	% RPD	JJT	16-MAR-98	6010	
			CU	2.1	% RPD	JJT	16-MAR-98	6010	
			FE	2.1	% RPD	JJT	16-MAR-98	6010	
			PB	<1.0	% RPD	JJT	16-MAR-98	6010	
			SE	5.6	% RPD	JJT	16-MAR-98	6010	
			ZN	2.7	% RPD	JJT	16-MAR-98	6010	
WG980377-5		Detection Limit	AS	10.	ppm			6010	
			CD	5.0	ppm			6010	
			CR	10.	ppm			6010	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


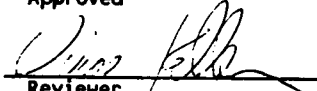
El Paso

Water and Solid Waste (Project 3220)

Batch No: WG980377

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG980377-5		Detection Limit	CU	10.	ppm				6010
			FE	10.	ppm				6010
			PB	10.	ppm				6010
			SE	10.	ppm				6010
			ZN	5.0	ppm				6010

PQL= Practical quantitation limit.


 Approved

 Reviewer

CHAIN OF CUSTODY RECORD

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

PROJ. NO. 0734		PROJECT NAME ASARCO-El Paso			NO. OF CON- TAINERS	ANALYSIS PARAMETERS												REMARKS
SAMPLERS: (Signature) <i>[Signature]</i>						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, P, Hg				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER														
7-18-97	1137		X	SS1A8-27A	1													
7-18-97	1139			SS1A8-27B														
7-18-97	1144			SS1A8-27C														
7-18-97	1500			SS1A8-28A														
7-18-97	1509			SS1A8-28B														
7-18-97	1515			SS1A8-28C														
7-18-97	1520			SS1A8-28D														
7-18-97	1049			SS1A8-29A														
7-18-97	1054			SS1A8-29B														
7-18-97	1410			SS1A8-30A														
7-18-97	1410			SS1A8-30A2														
7-18-97	1415			SS1A8-30B														
7-18-97	1410			SS1A8-31A														
7-18-97	145			SS1A8-31B														
7-18-97	1350		✓	SS1A8-31C														

Relinquished (Signature) <i>[Signature]</i>	Date/Time 7/23/97 1700	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
Relinquished (Signature) <i>[Signature]</i>	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time 7-25-97 10:30	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined				Signature _____	

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

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Split Samples:
☐ Accepted ☐ Declined

nature

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS																		
0734		ASARCO-EI Paso																				
SAMPLERS: (Signature)																						
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER																	REMARKS	
7-18-97	0808		X	SS1A8-19A	1																	
7-18-97	0811			SS1A8-19B																		
7-18-97	0816			SS1A8-19C																		
7-18-97	0821			SS1A8-19D																		
7-18-97	0833			SS1A8-20A																		
7-18-97	0915b			SS1A8-20B																		
7-18-97	0917			SS1A8-21A																		
7-18-97	0919			SS1A8-21B																		
7-18-97	0915			SS1A8-21C																		
7-18-97	0918		V	SS1A8-21D		V																
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab				P.O. #	Shipped via: Bus, Fed Ex, UPS											
7/23/97				1700							Other:											
Air Bill #																						
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks																
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time				Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other												
						7-25-97 10:30				Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined												
																				Signature		

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

HFORM-1-4/95

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

Split Samples:
☐ Accepted ☐ Declined

CHAIN OF CUSTODY RECORD

HYGIENICS, INC.

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

PROJ. NO. 0734		PROJECT NAME ASARCO-EI Paso			NO. OF CON- TAINERS	ANALYSIS PARAMETERS										REMARKS
SAMPLERS: (Signature)						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Other		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER												
7-17-97	1557		X	SS1A8-13D	1											
7-17-97	1623			SS1A8-14A												
7-17-97	1623			SS1A8-14A2												
7-17-97	1627			SS1A8-14B												
7-17-97				SS1A8-14C												
7-17-97				SS1A8-14D												
				SS1A8-15A	7/18											
				15B	7/18											
				16A	7/18											
				16B	7/18											
				17A	7/18											
				17B	7/18											
				18A	7/18											
				18A2	7/18											
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS						
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks										
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other								
						7.25.97 10:30		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined								

HFORM-1-4/95

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

Signature

CHAIN OF CUSTODY RECORD

HYGIENICS, INC.

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

PROJ. NO. 0734		PROJECT NAME ASARCO-EI P450			NO. OF CON- TAINERS	ANALYSIS PARAMETERS												REMARKS
SAMPLERS: (Signature)						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	Other Parameters				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER														
2-17-97	1408		X	SS1A8-10A	1													
2-17-97	1412			SS1A8-10B														
2-17-97	1416			SS1A8-10C														
2-17-97	1421			SS1A8-10D														
2-17-97	1438			SS1A8-11A														
2-17-97	1500			SS1A8-11B														
2-17-97	1502			SS1A8-11C														
2-17-97	1506			SS1A8-11C														
2-17-97	1518			SS1A8-12A														
2-17-97	1520			SS1A8-12B														
2-17-97	1524			SS1A8-12C														
2-17-97	1527			SS1A8-12D														
2-17-97	1542			SS1A8-13A														
2-17-97	1545			SS1A8-13B														
2-17-97	1545			SS1A8-13C														

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	2/23/97 1700				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks	Air Bill #	
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits	
			2-25-97 10:30	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
				<input type="checkbox"/> Other	
Return results & electronic copy to: Computer Dept. at address at top of page			Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		

CHAIN OF STUDY RECORD

HYGIENICS, INC.

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85705 • (520) 544-3150
 P.O. Box 220182 • El Paso, TX 79913 • (915) 532-3489

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS												REMARKS
SAMPLERS: (Signature)					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	As (A, C, Cu, Fe)	Pb	Se	Zn, PH	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER													
7-15-97	1240			SS1A1-1A	1												
7-15-97	1245			SS1A1-1B													
7-15-97	1250			SS1A1-1C													
7-15-97	1253			SS1A1-1D													
7-15-97	1312			SS1A1-2A													
7-15-97	1315			SS1A1-2B													
7-15-97	1321			SS1A1-2C													
7-15-97	1329			SS1A1-2D													
7-15-97	1354			SS1A1-3A													
7-15-97	1356			SS1A1-3B													
7-15-97	1406			SS1A1-3C													
7-15-97	1410			SS1A1-3D													
7-15-97	1424			SS1A1-4A													
7-15-97	1428			SS1A1-4B													
7-15-97	1433			SS1A1-4C													

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
<i>[Signature]</i>					
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits	
<i>[Signature]</i>		<i>[Signature]</i>	7-21-97 10:00	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
			(7-18-97)	<input type="checkbox"/> Other	
Return results & electronic copy to: Computer Dept. at address at top of page			Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		
HFORM-1-4/95			Signature		

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

[illegible]

CHAIN OF CUSTODY RECORD

HYGIENICS, INC.

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

PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS	ANALYSIS METHODS												REMARKS
0734		ASARCO - El Paso				Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, Mn, Hg				
DATE	TIME	COMP	GRAB	SAMPLE NUMBER														
7-15-97	1455		X	SS1A1-5A	1													
7-15-97	1455			SS1A1-5A ₂														
7-15-97	1501			SS1A1-5B														
7-15-97	1506			SS1A1-5C														
7-15-97	1511			SS1A1-5D														
7-14-97	1137			SS1A2-1A														
7-14-97	1140			SS1A2-1B														
7-14-97	1325			SS1A2-2A														
7-14-97	1325			SS1A2-2A2														
7-14-97	1340			SS1A2-2C														
7-14-97	1350			SS1A3-1A														
7-14-97	1355			SS1A3-1B														
7-14-97	1430			SS1A3-2A														
7-14-97	1435			SS1A3-2B														
7-14-97	1440			SS1A3-2C														

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits	
			7-21-97 10:00	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
				<input type="checkbox"/> Other	
Split Samples:			Signature		
<input type="checkbox"/> Accepted <input type="checkbox"/> Declined					

HFORM-1-4/95

Return results & electronic copy to:
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(7-18-97)

Split Samples:
☐ Accepted ☐ Declined

Signature

CHAIN OF CUSTODY RECORD

HFORM-1-5

CHAIN OF CUSTODY RECORD

HYDROMETRICS, INC.

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS													REMARKS		
SAMPLERS: (Signature)					Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH							
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER														
0734	ASARCO - El Paso																		
7-15-97	0852		X	SS1A3-7A	1														
7-15-97	0853			SS1A3-7B															
7-15-97	0900			SS1A3-7C															
7-15-97	0903			SS1A3-7D															
7-15-97	0956			SS1A3-8A															
7-15-97	1002			SS1A3-8B															
7-15-97	1005			SS1A3-8C															
7-15-97	1012			SS1A3-8D															
7-15-97	0917			SS1A3-9A															
7-15-97	0922			SS1A3-9B															
7-15-97	0926			SS1A3-9C															
7-15-97	0935			SS1A3-9D															
7-15-97	1035			SS1A3-10A															
7-15-97	1035			SS1A3-10A ₂															
7-15-97	1039			SS1A3-10B ₂															
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks													
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other											
						7/21/97 10:00		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature											

HFORM-1-4/95

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

(1.18)

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

[illegible]

CHAIN OF CUSTODY RECORD

HYGIENICS, INC.

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

PROJ. NO.		PROJECT NAME			NO. OF CONTAINERS											REMARKS
0734		ASARCO - EL PASO														
SAMPLERS: (Signature)																
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER		Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	TPH	XRF - As, Cd, Cu, Fe, Pb, Se, Zn, pH		
7-14-97	1000			SS1H5-15A	1										X	
7-14-97	1000			SS1H5-15B ₁											X	
7-14-97	1010			SS1H5-15B												
7-14-97	1010			SS1H5-15B ₂												
7-14-97	1012			SS1H5-15C												
7-14-97	1016			SS1H5-15D												
7-14-97	1025			SS1A5-16A												
7-14-97	1025			SS1A5-16A ₂												
7-14-97	1030			SS1A5-16B												
7-14-97	1030			SS1A5-16B ₂												
7-14-97	1033			SS1A5-16C												
7-14-97	1036			SS1A5-16D												
7-14-97	1040			SS1A5-17A												
7-14-97	1045			SS1A5-17B												
7-14-97	1047			SS1A5-17C												

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	7-17-97 1700				Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks	Air Bill #	
<i>[Signature]</i>					
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits	
<i>[Signature]</i>		<i>[Signature]</i>	7-21-97 1000	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
				<input type="checkbox"/> Other	
				Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined	
				Signature	

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Return results & electronic copy to:
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(7.18)

Split Samples:
☐ Accepted ☐ Declined

Signature

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[illegible]

CHAIN OF CUSTODY RECORD

HYDROMETRICS, INC.

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

PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS	ANALYSIS PARAMETERS										REMARKS
SAMPLERS: (Signature)						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, Hg		
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER												
7-16-97	1150		X	SS1A8-4A	1											
7-16-97	1154			SS1A8-4B												
7-16-97	1158			SS1A8-4C												
7-16-97	1202			SS1A8-4D												
7-16-97	1129			SS1A8-5A												
7-16-97	1133			SS1A8-5B												
7-16-97	1136			SS1A8-5C												
7-16-97	1139			SS1A8-5D												
7-16-97	1235			SS1A8-6A												
7-16-97	1235			SS1A8-6A ₂												
7-16-97	1239			SS1A8-6B												
7-16-97	1241			SS1A8-6C												
7-16-97				SS1A8-6D												
7-16-97	1314			SS1A8-7A												
7-16-97	1318			SS1A8-7B												

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	7-17-97 1700				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter sheet w/detection limits	
		<i>[Signature]</i>	7-21-97 10:00	<input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter	
			<input type="checkbox"/> Other _____		
			Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____		
			Signature _____		

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Return results & electronic copy to:
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Split Samples:
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Signature

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CHAIN OF CUSTODY RECORD

HYDROMETRICS, INC.

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

PROJ. NO.		PROJECT NAME		NO. OF CON- TAINERS											REMARKS
SAMPLERS: (Signature)															
DATE	TIME	COMP	GRAB		SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	XRF As, Cd, Cr, Cu, Fe, Pb, Se, Zn, pH	
7-16-97	1350		X	SS1A8-8A	1										
7-16-97	1354			SS1A8-8B											
7-16-97	1356			SS1A8-8C											
7-16-97	1358			SS1A8-8D											
7-16-97	1442			SS1A8-9A											
7-16-97	1450			SS1A8-9B											
7-16-97	1453			SS1A8-9C											
7-16-97	1456			SS1A8-1D											
7-17-97	0840			SSENT1A											
7-17-97	0845			SSENT1-B											
7-17-97	0850			SSENT1-C											
7-17-97	0855			SSENT1-D											
7-17-97	0805			SSENT2-A											
7-17-97	0810			SSENT2-B											
7-17-97	0815			SSENT2-C											

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
	7/17/97 1700				Other _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	
			7.21.97 1000		
Return results & electronic copy to: Computer Dept. at address at top of page			Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ Signature _____		

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[illegible]

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

[illegible]

CHAIN OF CUSTODY RECORD

HYGROTECHNICS, INC.

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

PROJ. NO.		PROJECT NAME			NO. OF CON- TAINERS	ANALYSIS												REMARKS
SAMPLERS: (Signature)						Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTEX	TPH	As, Cd, Cr, Cu, Fe, Pb, Se, Zn, PH				
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER														
7-17-97	1100		X	SS ENT 3-A	1													
7-17-97	1105			SS ENT 3-B														
7-17-97	1035			SS ENT 4-A														
7-17-97	1040			SS ENT 4-B														
7-17-97	0935			SS ENT 5-A														
7-17-97	0940			SS ENT 5-B														
7-17-97	0940			SS ENT 5-B ₂														
7-17-97	0905			SS ENT 6-A														
7-17-97	0910			SS ENT 6-B														
7-17-97	0915			SS ENT 6-C														
7-17-97	0920			SS ENT 6-D														
7-17-97	1005			SS ENT 7-A														
7-17-97	1015			SS ENT 7-B														
7-17-97	1017			SS ENT 7-C														
7-17-97	1023			SS ENT 8-A														

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS Other _____ Air Bill # _____
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks		
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other _____	Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined

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