

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000344

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	TEST METHOD
WG000344-1		Matrix Spike	AS	88	%Recovery	KB	09-MAY-00		6020M
			CD	90	%Recovery	KB	09-MAY-00		6020M
			CL-	101	%Recovery	JN	08-MAY-00		325.2
			CR	93	%Recovery	MK	05-MAY-00		6010
			CU	104	%Recovery	MK	05-MAY-00		6010
			F-	97	%Recovery	BD	05-MAY-00		340.2
			FE	98	%Recovery	MK	05-MAY-00		6010
			NO2/NO3	102	%Recovery	JN	12-MAY-00		353.2
			PB	78	%Recovery	KB	09-MAY-00		6020M
			SE	78	%Recovery	KB	09-MAY-00		6020M
			SO4=	118	%Recovery	MK	03-MAY-00		9036
			ZN	88	%Recovery	KB	09-MAY-00		6020M
			AS	<0.005	ppm	KB	09-MAY-00		6020M
			CA	<1.0	ppm	MK	05-MAY-00		6010
			CD	<0.005	ppm	KB	09-MAY-00		6020M
			CL-	<1.0	ppm	JN	08-MAY-00		325.2
			CO3	<1.0	ppm CaCO3	DC	01-MAY-00		310.1
			COND.	<5.0	umhos/cm2	BD	28-APR-00		120.1
			CR	<0.010	ppm	MK	05-MAY-00		6010
			CU	<0.025	ppm	MK	05-MAY-00		340.2
WG000344-2		Prep Blank	F-	<0.050	ppm	BD	05-MAY-00		6010
			FE	<0.10	ppm	MK	05-MAY-00		310.1
			HCO3	<1.0	ppm CaCO3	DC	01-MAY-00		6010
			K	<2.0	ppm	MK	05-MAY-00		6010
			MG	<1.0	ppm	MK	05-MAY-00		6010
			NA	<2.0	ppm	MK	05-MAY-00		6010
			NO2/NO3	<0.050	ppm	JN	12-MAY-00		353.2
			PB	<0.003	ppm	KB	09-MAY-00		6020M
			SE	<0.005	ppm	KB	09-MAY-00		6020M
			SO4=	<2.0	ppm	MK	03-MAY-00		9036
			TDS	<10.	ppm	BD	28-APR-00		160.1
			TSS	<1.0	ppm	BD	28-APR-00		160.2
			ZN	<0.020	ppm	KB	09-MAY-00		6020M
			AS	106	%Recovery	KB	18-MAY-00		6020M
			CA	90	%Recovery	MK	05-MAY-00		6010
			CD	108	%Recovery	KB	09-MAY-00		6020M
			CL-	101	%Recovery	JN	08-MAY-00		325.2
WG000344-3		Lab Control Sample	AS	106	%Recovery	KB	18-MAY-00		6020M
			CA	90	%Recovery	MK	05-MAY-00		6010
			CD	108	%Recovery	KB	09-MAY-00		6020M
			CL-	101	%Recovery	JN	08-MAY-00		325.2

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WG000344-3		Lab Control Sample	COND.	106		%Recovery	BD	28-APR-00	120.1
			CR	87		%Recovery	MK	05-MAY-00	6010
			CU	87		%Recovery	MK	05-MAY-00	6010
			F-	92		%Recovery	BD	05-MAY-00	340.2
			FE	93		%Recovery	MK	05-MAY-00	6010
			HCO3	93		%Recovery	DC	01-MAY-00	310.1
			K	85		%Recovery	MK	05-MAY-00	6010
			MG	93		%Recovery	MK	05-MAY-00	6010
			NA	85		%Recovery	MK	05-MAY-00	6010
			NO2/NO3	98		%Recovery	JN	12-MAY-00	353.2
			PB	105		%Recovery	KB	09-MAY-00	6020M
			SE	115		%Recovery	KB	18-MAY-00	6020M
			SO4=	96		%Recovery	MK	03-MAY-00	9036
			TDS	97		%Recovery	BD	28-APR-00	160.1
			TSS	95		%Recovery	BD	28-APR-00	160.2
			ZN	110		%Recovery	KB	09-MAY-00	6020M
			AS	+/-prdl		% RPD	KB	09-MAY-00	6020M
			CA	2.9		% RPD	MK	05-MAY-00	6010
			CD	<1		% RPD	KB	09-MAY-00	6020M
			CL-	6.3		% RPD	JN	08-MAY-00	325.2
WG000344-4		Duplicate	CO3	<1		% RPD	DC	01-MAY-00	310.1
			COND.	<1		% RPD	BD	28-APR-00	120.1
			CR	<1		% RPD	MK	05-MAY-00	6010
			CU	<1		% RPD	MK	05-MAY-00	6010
			F-	<1		% RPD	BD	05-MAY-00	340.2
			FE	<1		% RPD	MK	05-MAY-00	6010
			HCO3	2.5		% RPD	DC	01-MAY-00	310.1
			K	<1		% RPD	MK	05-MAY-00	6010
			MG	3.6		% RPD	MK	05-MAY-00	6010
			NA	<1		% RPD	MK	05-MAY-00	6010
			NO2/NO3	<1		% RPD	JN	12-MAY-00	353.2
			PB	+/-prdl		% RPD	KB	09-MAY-00	6020M
			SE	<1		% RPD	KB	09-MAY-00	6020M
			SO4=	1.7		% RPD	MK	03-MAY-00	9036
			TDS	1.7		% RPD	BD	28-APR-00	160.1
			TSS	<1		% RPD	BD	28-APR-00	160.2
			ZN	+/-prdl		% RPD	KB	09-MAY-00	6020M

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000344-5		Reporting Limit	AS	0.005	ppm				6020M
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6010
			CU	0.025	ppm				6010
			F-	0.050	ppm				340.2
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020M
			SE	0.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020M
WG000344-6		Matrix Spike	AS	93	% Recovery	MK	05-MAY-00		6010
WG000344-7		Prep Blank	AS	<0.020	ppm	MK	05-MAY-00		6010
WG000344-8		Lab Control Sample	AS	86	% Recovery	MK	05-MAY-00		6010
WG000344-9		Duplicate	AS	<1	% RPD	MK	05-MAY-00		6010

Approved

Signature

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ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L000648-001	28-APR-00	EPRI-0005-114	AS	0.31	ppm	KB	30-MAY-00	180
			CA	170.	ppm	VK	16-MAY-00	180
			CD	0.29	ppm	KB	30-MAY-00	180
			CL-	436.	ppm	JN	09-MAY-00	28
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1
			COND.	4540.	umhos/cm2	BD	04-MAY-00	28
			CR	<0.010	ppm	KB	30-MAY-00	180
			CU	<0.025	ppm	KB	30-MAY-00	6020M
			F-	2.0	ppm	BD	05-MAY-00	28
			FE	1.6	ppm	BD	16-MAY-00	180
			HCO3	268.	ppm	VK	04-MAY-00	14
			K	50.	ppm CaCO3	VK	16-MAY-00	180
			MG	54.	ppm	VK	16-MAY-00	6010
			NA	749.	ppm	VK	02-JUN-00	180
			NO2/NO3	20.	ppm	JN	15-MAY-00	28
			PB	0.014	ppm	KB	30-MAY-00	180
			PH	7.3	ppm	VK	04-MAY-00	150.1
			SE	1.1	ppm	KB	30-MAY-00	180
			SO4=	1638.	ppm	JN	22-MAY-00	28
			TDS	3393.	ppm	BD	05-MAY-00	7
			TSS	44.	ppm	BD	04-MAY-00	160.2
			ZN	0.87	ppm	KB	30-MAY-00	180
L000648-002	28-APR-00	EPRI-0005-143	AS	6.5	ppm	KB	30-MAY-00	180
			CA	136.	ppm	VK	16-MAY-00	180
			CD	0.009	ppm	KB	30-MAY-00	180
			CL-	469.	ppm	JN	09-MAY-00	28
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1
			COND.	4140.	umhos/cm2	BD	04-MAY-00	28
			CR	<0.010	ppm	KB	30-MAY-00	180
			CU	0.027	ppm	KB	30-MAY-00	6020M
			F-	3.2	ppm	BD	05-MAY-00	28
			FE	4.5	ppm	VK	16-MAY-00	180
			HCO3	294.	ppm CaCO3	VK	04-MAY-00	14
			K	22.	ppm	VK	16-MAY-00	180
			MG	39.	ppm	VK	16-MAY-00	6010
			NA	727.	ppm	VK	02-JUN-00	180
			NO2/NO3	0.63	ppm	JN	15-MAY-00	28
			PB	0.010	ppm	KB	30-MAY-00	180

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L000648-002	28-APR-00	EPRI-0005-143	PH	7.8		VK	04-MAY-00	150.1	
			SE	0.031	ppm	KB	30-MAY-00	180	6020M
			SO4=	1302.	ppm	JN	22-MAY-00	28	9036
			TDS	2936.	ppm	BD	05-MAY-00	7	160.1
			TSS	157.	ppm	BD	04-MAY-00		160.2
			ZN	0.11	ppm	KB	30-MAY-00	180	6020M
			AS	6.6	ppm	KB	30-MAY-00	180	6020M
			CA	119.	ppm	VK	16-MAY-00	180	6010
			CD	0.009	ppm	KB	30-MAY-00	180	6020M
			CL-	441.	ppm	JN	09-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	4140.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
L000648-003	28-APR-00	EPRI-0005-225	F-	3.0	ppm	BD	05-MAY-00	28	340.2
			FE	3.4	ppm	VK	16-MAY-00	180	6010
			HCO3	294.	ppm CaCO3	VK	04-MAY-00	14	310.1
			K	19.	ppm	VK	16-MAY-00	180	6010
			MG	35.	ppm	VK	16-MAY-00	180	6010
			NA	718.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	0.71	ppm	JN	15-MAY-00	28	353.2
			PB	0.008	ppm	KB	30-MAY-00	180	6020M
			PH	7.9	ppm	VK	04-MAY-00		150.1
			SE	0.028	ppm	KB	30-MAY-00	180	6020M
			SO4=	1299.	ppm	JN	22-MAY-00	28	9036
			TDS	3040.	ppm	BD	05-MAY-00	7	160.1
			TSS	137.	ppm	BD	04-MAY-00		160.2
			ZN	0.081	ppm	KB	30-MAY-00	180	6020M
L000648-004	28-APR-00	EPRI-0005-154	AS	0.053	ppm	KB	30-MAY-00	180	6020M
			CA	61.	ppm	VK	16-MAY-00	180	6010
			CD	0.004	ppm	KB	30-MAY-00	180	6020M
			CL-	452.	ppm	JN	09-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	5180.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	2.0	ppm	BD	05-MAY-00	28	340.2

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L000648-004	28-APR-00	EPRI-0005-154	FE	1.8	ppm	VK	16-MAY-00	180	6010
			HCO3	466.	ppm	VK	04-MAY-00	14	310.1
			K	6.2	ppm	VK	16-MAY-00	180	6010
			MG	37.	ppm	VK	16-MAY-00	180	6010
			NA	1090.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	1.8	ppm	JN	15-MAY-00	28	353.2
			PB	0.012	ppm	KB	30-MAY-00	180	6020M
			PH	7.9	ppm	VK	04-MAY-00		150.1
			SE	0.046	ppm	KB	30-MAY-00	180	6020M
			SO4=	1813.	ppm	JN	22-MAY-00	28	9036
			TDS	3772.	ppm	BD	05-MAY-00	7	160.1
			TSS	50.	ppm	BD	04-MAY-00		160.2
			ZN	0.066	ppm	KB	30-MAY-00	180	6020M
			AS	1.2	ppm	KB	30-MAY-00	180	6020M
			CA	361.	ppm	VK	16-MAY-00	180	6010
			CD	0.009	ppm	KB	30-MAY-00	180	6020M
			CL-	649.	ppm	JN	09-MAY-00	28	325.2
			CO3	<1.0	ppm	VK	05-MAY-00		310.1
			COND.	8290.	unhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
L000648-005	28-APR-00	EPRI-0005-110	CU	0.046	ppm	KB	30-MAY-00		6020M
			F-	2.4	ppm	KB	05-MAY-00	28	340.2
			FE	3.7	ppm	BD	05-MAY-00	28	340.2
			HCO3	440.	ppm	VK	16-MAY-00	180	6010
			K	95.	ppm	VK	04-MAY-00	14	310.1
			MG	157.	ppm	VK	16-MAY-00	180	6010
			NA	1398.	ppm	VK	16-MAY-00	180	6010
			NO2/NO3	3.5	ppm	JN	02-JUN-00	180	6010
			PB	0.075	ppm	KB	15-MAY-00	28	353.2
			PH	8.0	ppm	KB	30-MAY-00	180	6020M
			SE	0.21	ppm	VK	04-MAY-00		150.1
			SO4=	3799.	ppm	KB	30-MAY-00	180	6020M
			TDS	7001.	ppm	JN	22-MAY-00	28	9036
			TSS	144.	ppm	BD	05-MAY-00	7	160.1
			TSS	144.	ppm	BD	04-MAY-00		160.2
			ZN	0.36	ppm	KB	30-MAY-00	180	6020M
			AS	16.	ppm	KB	30-MAY-00	180	6020M
			CA	332.	ppm	VK	16-MAY-00	180	6010
L000648-006	28-APR-00	EPRI-0005-141	AS	16.	ppm	KB	30-MAY-00	180	6020M
			CA	332.	ppm	VK	16-MAY-00	180	6010

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L000648-006	28-APR-00	EPRI-0005-141	CD	0.007	ppm	KB	30-MAY-00	180	6020M
			CL-	257.	ppm	JN	09-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	19000.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	0.069	ppm	KB	30-MAY-00		6020M
			F-	1.6	ppm	BD	05-MAY-00	28	340.2
			PE	0.87	ppm	VK	16-MAY-00	180	6010
			HCO3	586.	ppm CaCO3	VK	04-MAY-00	14	310.1
			K	556.	ppm	VK	16-MAY-00	180	6010
			MG	337.	ppm	VK	16-MAY-00	180	6010
			NA	4204.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	210.	ppm	JN	15-MAY-00	28	353.2
			PB	0.006	ppm	KB	30-MAY-00	180	6020M
			PH	7.5	ppm	VK	04-MAY-00		150.1
			SE	4.8	ppm	KB	30-MAY-00	180	6020M
			SO4=	11533.	ppm	JN	22-MAY-00	28	9036
			TDS	17965.	ppm	BD	05-MAY-00	7	160.1
			TSS	32.	ppm	BD	04-MAY-00		160.2
			ZN	0.15	ppm	KB	30-MAY-00	180	6020M
L000648-007	28-APR-00	EPRI-0005-142	AS	0.92	ppm	KB	30-MAY-00	180	6020M
			CA	152.	ppm	VK	16-MAY-00	180	6010
			CD	<0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	510.	ppm	JN	09-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	5120.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	1.9	ppm	BD	05-MAY-00	28	340.2
			FE	<0.10	ppm	VK	16-MAY-00	180	6010
			HCO3	422.	ppm CaCO3	VK	04-MAY-00	14	310.1
			K	75.	ppm	VK	16-MAY-00	180	6010
			MG	88.	ppm	VK	16-MAY-00	180	6010
			NA	827.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	5.7	ppm	JN	15-MAY-00	28	353.2
			PB	0.010	ppm	KB	30-MAY-00	180	6020M
			PH	8.0	ppm	VK	04-MAY-00		150.1
			SE	0.16	ppm	KB	30-MAY-00	180	6020M

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L000648-007	28-APR-00	EPRI-0005-142	SO4=	1802.	ppm	JN	22-MAY-00	28 9036
			TDS	3827.	ppm	BD	05-MAY-00	7 160.1
			TSS	5.3	ppm	BD	04-MAY-00	160.2
			ZN	0.077	ppm	KB	30-MAY-00	180 6020M
			AS	1.5	ppm	KB	30-MAY-00	180 6020M
			CA	485.	ppm	VK	16-MAY-00	180 6010
			CD	0.51	ppm	KB	30-MAY-00	180 6020M
			CL-	1425.	ppm	JN	26-MAY-00	28 325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1
			COND.	11860.	unhos/cm2	BD	04-MAY-00	28 120.1
L000648-008	28-APR-00	EPRI-0005-120	CR	0.12	ppm	KB	30-MAY-00	180 6020M
			CU	0.64	ppm	KB	30-MAY-00	6020M
			F-	6.3	ppm	BD	05-MAY-00	28 340.2
			FE	2.8	ppm	VK	16-MAY-00	180 6010
			HCO3	670.	ppm CaCO3	VK	04-MAY-00	14 310.1
			K	19.	ppm	VK	16-MAY-00	180 6010
			MG	282.	ppm	VK	16-MAY-00	180 6010
			NA	2166.	ppm	VK	02-JUN-00	180 6010
			NO2/NO3	101.	ppm	JN	15-MAY-00	28 353.2
			PB	0.96	ppm	KB	30-MAY-00	180 6020M
			PH	7.8	ppm	VK	04-MAY-00	150.1
			SE	0.24	ppm	KB	30-MAY-00	180 6020M
			SO4=	4361.	ppm	JN	22-MAY-00	28 9036
			TDS	10140.	ppm	BD	05-MAY-00	7 160.1
			TSS	23.	ppm	BD	04-MAY-00	160.2
			ZN	2.5	ppm	KB	30-MAY-00	180 6020M
			AS	0.56	ppm	KB	30-MAY-00	180 6020M
			CA	483.	ppm	VK	16-MAY-00	180 6010
			CD	0.031	ppm	KB	30-MAY-00	180 6020M
			CL-	1820.	ppm	JN	26-MAY-00	28 325.2
L000648-009	28-APR-00	EPRI-0005-119	CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1
			COND.	9660.	unhos/cm2	BD	04-MAY-00	28 120.1
			CR	1.5	ppm	KB	30-MAY-00	180 6020M
			CU	0.20	ppm	KB	30-MAY-00	6020M
			F-	0.97	ppm	BD	05-MAY-00	28 340.2
			FE	2.3	ppm	VK	16-MAY-00	180 6010
			HCO3	195.	ppm CaCO3	VK	04-MAY-00	14 310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000648-009	28-APR-00	EPRI-0005-119	K	32.	ppm	VK	16-MAY-00	180	6010
			MG	324.	ppm	VK	16-MAY-00	180	6010
			NA	1106.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	190.	ppm	JN	15-MAY-00	28	353.2
			PH	0.020	ppm	KB	30-MAY-00	180	6020M
			SE	7.6	ppm	VK	04-MAY-00	150.1	
			SO4=	0.27	ppm	KB	30-MAY-00	180	6020M
			TDS	2356.	ppm	JN	22-MAY-00	28	9036
			TSS	7123.	ppm	BD	05-MAY-00	7	160.1
			ZN	26.	ppm	BD	04-MAY-00	160.2	
				0.46	ppm	KB	30-MAY-00	180	6020M
			AS	0.019	ppm	KB	30-MAY-00	180	6020M
			CA	590.	ppm	VK	16-MAY-00	180	6010
			CD	0.031	ppm	KB	30-MAY-00	180	6020M
			CL-	1742.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1	
			COND.	10340.	unites/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	0.039	ppm	KB	30-MAY-00	6020M	
			F-	1.0	ppm	BD	05-MAY-00	28	340.2
L000648-010	28-APR-00	EPRI-0005-164	FE	2.1	ppm	VK	16-MAY-00	180	6010
			HCO3	282.	ppm	VK	04-MAY-00	14	310.1
			K	33.	ppm	VK	16-MAY-00	180	6010
			MG	317.	ppm	VK	16-MAY-00	180	6010
			NA	1345.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	247.	ppm	JN	15-MAY-00	28	353.2
			PH	0.009	ppm	KB	30-MAY-00	180	6020M
			SE	7.3	ppm	VK	04-MAY-00	150.1	
			SO4=	0.54	ppm	KB	30-MAY-00	180	6020M
			TDS	3084.	ppm	JN	22-MAY-00	28	9036
			TSS	8285.	ppm	BD	05-MAY-00	7	160.1
			ZN	87.	ppm	BD	04-MAY-00	160.2	
				0.22	ppm	KB	30-MAY-00	180	6020M
			AS	42.	ppm	KB	30-MAY-00	180	6020M
			CA	448.	ppm	VK	16-MAY-00	180	6010
			CD	0.053	ppm	KB	30-MAY-00	180	6020M
			CL-	648.	ppm	JN	26-MAY-00	28	325.2
L000648-011	28-APR-00	EPRI-0005-118							

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Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000648-011	28-APR-00	EPRI-0005-118	CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1	
			COND.	9860.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	7.3	ppm	BD	05-MAY-00	28	340.2
			FE	29.	ppm	VK	16-MAY-00	180	6010
			HCO3	802.	ppm CaCO3	VK	04-MAY-00	14	310.1
			K	226.	ppm	VK	16-MAY-00	180	6010
			MG	128.	ppm	VK	16-MAY-00	180	6010
			NA	1467.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	8.8	ppm	JN	15-MAY-00	28	353.2
			PB	0.007	ppm	KB	30-MAY-00	180	6020M
			PH	7.2	ppm	VK	04-MAY-00		150.1
			SE	0.10	ppm	KB	30-MAY-00	180	6020M
			SO4=	3921.	ppm	JN	22-MAY-00	28	9036
			TDS	7808.	ppm	BD	05-MAY-00	7	160.1
			TSS	189.	ppm	BD	04-MAY-00		160.2
			ZN	35.	ppm	KB	30-MAY-00	180	6020M
L000648-012	28-APR-00	EPRI-0005-122	AS	42.	ppm	KB	30-MAY-00	180	6020M
			CA	404.	ppm	VK	16-MAY-00	180	6010
			CD	0.60	ppm	KB	30-MAY-00	180	6020M
			CL-	723.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	10100.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	0.36	ppm	KB	30-MAY-00		6020M
			F-	8.6	ppm	BD	05-MAY-00	28	340.2
			FE	6.9	ppm	VK	16-MAY-00	180	6010
			HCO3	792.	ppm CaCO3	VK	04-MAY-00	14	310.1
			K	249.	ppm	VK	16-MAY-00	180	6010
			MG	213.	ppm	VK	16-MAY-00	180	6010
			NA	1769.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	11.	ppm	JN	15-MAY-00	28	353.2
			PB	0.011	ppm	KB	30-MAY-00	180	6020M
			PH	7.4	ppm	VK	04-MAY-00		150.1
			SE	0.16	ppm	KB	30-MAY-00	180	6020M
			SO4=	4045.	ppm	JN	22-MAY-00	28	9036
			TDS	7984.	ppm	BD	05-MAY-00	7	160.1

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DATA METHOD
L000648-012	28-APR-00	EPRI-0005-122	TSS	61.	ppm	BD	04-MAY-00	180	160.2
			ZN	10.	ppm	KB	30-MAY-00	180	6020M
L000648-013	28-APR-00	EPRI-0005-140	AS	0.10	ppm	KB	30-MAY-00	180	6020M
			CA	239.	ppm	VK	16-MAY-00	180	6010
			CD	0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	394.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm	VK	05-MAY-00	310.1	
			COND.	6380.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00	28	340.2
			F-	2.6	ppm	BD	05-MAY-00	180	6010
			FE	0.10	ppm	VK	16-MAY-00	14	310.1
			HCO3	1026.	ppm	VK	04-MAY-00	180	6010
			K	315.	ppm	VK	16-MAY-00	180	6010
			MG	111.	ppm	VK	16-MAY-00	180	6010
			NA	925.	ppm	VK	02-JUN-00	28	353.2
			NO2/NO3	17.	ppm	JN	15-MAY-00	180	6020M
			PB	<0.003	ppm	KB	30-MAY-00	180	150.1
			PH	7.6	ppm	VK	04-MAY-00	180	6020M
			SE	0.95	ppm	KB	30-MAY-00	28	9036
			SO4=	2735.	ppm	JN	22-MAY-00	7	160.1
			TDS	5088.	ppm	BD	05-MAY-00	180	160.2
			TSS	7.4	ppm	BD	04-MAY-00	180	6020M
			ZN	0.14	ppm	KB	30-MAY-00	180	6020M
L000648-014	28-APR-00	EPRI-0005-226	AS	<0.005	ppm	KB	30-MAY-00	180	6020M
			CA	<1.0	ppm	VK	16-MAY-00	180	6010
			CD	<0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	<1.0	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm	VK	05-MAY-00	310.1	
			COND.	1780.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00	28	340.2
			F-	0.75	ppm	BD	05-MAY-00	180	6010
			FE	<0.10	ppm	VK	16-MAY-00	14	310.1
			HCO3	4.0	ppm	VK	04-MAY-00	180	6010
			K	<2.0	ppm	VK	16-MAY-00	180	6010
			MG	<1.0	ppm	VK	16-MAY-00	180	6010

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000648-014	28-APR-00	EPRI-0005-226	NA	3.6	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	<0.050	ppm	JN	15-MAY-00	28	353.2
			PB	<0.003	ppm	KB	30-MAY-00	180	6020M
			PH	7.2	ppm	VK	04-MAY-00		150.1
			SE	<0.005	ppm	KB	30-MAY-00	180	6020M
			SO4=	<2.0	ppm	JN	22-MAY-00	28	9036
			TDS	56.	ppm	BD	05-MAY-00	7	160.1
			TSS	1.4	ppm	BD	04-MAY-00		160.2
			ZN	<0.020	ppm	KB	30-MAY-00	180	6020M
			AS	0.040	ppm	KB	30-MAY-00	180	6020M
			CA	180.	ppm	VK	16-MAY-00	180	6010
			CD	0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	202.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
L000648-015	01-MAY-00	EPRI-0005-150	COND.	3080.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	0.66	ppm	BD	05-MAY-00	28	340.2
			FE	<0.10	ppm	VK	16-MAY-00	180	6010
			HCO3	257.	ppm CaCO3	VK	04-MAY-00	14	310.1
			K	6.6	ppm	VK	16-MAY-00	180	6010
			MG	91.	ppm	VK	16-MAY-00	180	6010
			NA	345.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	8.2	ppm	JN	15-MAY-00	28	353.2
			PB	0.017	ppm	KB	30-MAY-00	180	6020M
			PH	7.6	ppm	VK	04-MAY-00		150.1
			SE	0.029	ppm	KB	30-MAY-00	180	6020M
			SO4=	970.	ppm	JN	22-MAY-00	28	9036
L000648-016	01-MAY-00	EPRI-0005-227	TDS	2317.	ppm	BD	05-MAY-00	7	160.1
			TSS	3.0	ppm	BD	04-MAY-00		160.2
			ZN	0.066	ppm	KB	30-MAY-00	180	6020M
			AS	0.041	ppm	KB	30-MAY-00	180	6020M
			CA	184.	ppm	VK	16-MAY-00	180	6010
			CD	0.006	ppm	KB	30-MAY-00	180	6020M
			CL-	378.	ppm	JN	26-MAY-00	28	325.2
			CO3	20.	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	3070.	umhos/cm2	BD	04-MAY-00	28	120.1

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Batch No: L000648

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000648-016	01-MAY-00	EPRI-0005-227	CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	0.66	ppm	BD	05-MAY-00	28	340.2
			FE	<0.10	ppm	VK	16-MAY-00	180	6010
			HCO3	250.	ppm	CaCO3	04-MAY-00	14	310.1
			K	7.2	ppm		16-MAY-00	180	6010
			MG	91.	ppm	VK	16-MAY-00	180	6010
			NA	317.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	8.1	ppm	JN	15-MAY-00	28	353.2
			PB	0.020	ppm	KB	30-MAY-00	180	6020M
			PH	8.4	ppm	VK	04-MAY-00		150.1
			SE	0.029	ppm	KB	30-MAY-00	180	6020M
			SO4=	892.	ppm	JN	22-MAY-00	28	9036
			TDS	2279.	ppm	BD	05-MAY-00	7	160.1
			TSS	2.2	ppm	BD	04-MAY-00		160.2
			ZN	0.070	ppm	KB	30-MAY-00	180	6020M
L000648-017	01-MAY-00	EPRI-0005-159	AS	0.014	ppm	KB	30-MAY-00	180	6020M
			CA	37.	ppm	VK	16-MAY-00	180	6010
			CD	<0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	380.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm	VK	05-MAY-00		310.1
			COND.	3300.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	3.5	ppm	BD	05-MAY-00	28	340.2
			FE	<0.10	ppm	VK	16-MAY-00	180	6010
			HCO3	318.	ppm	VK	04-MAY-00	14	310.1
			K	2.8	ppm	VK	16-MAY-00	180	6010
			MG	60.	ppm	VK	16-MAY-00	180	6010
			NA	575.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	7.7	ppm	JN	15-MAY-00	28	353.2
			PB	<0.003	ppm	KB	30-MAY-00	180	6020M
			PH	8.3	ppm	VK	04-MAY-00		150.1
			SE	0.035	ppm	KB	30-MAY-00	180	6020M
			SO4=	806.	ppm	JN	22-MAY-00	28	9036
			TDS	2229.	ppm	BD	05-MAY-00	7	160.1
			TSS	2.5	ppm	BD	04-MAY-00		160.2
			ZN	0.030	ppm	KB	30-MAY-00	180	6020M

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El Paso

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Batch No: L000648

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L000648-018	01-MAY-00	EPRI-0005-158	AS	0.014	ppm	KB	30-MAY-00	180
			CA	99.	ppm	VK	16-MAY-00	180
			CD	<0.005	ppm	KB	30-MAY-00	180
			CL-	560.	ppm	JN	26-MAY-00	28
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1
			COND.	4900.	umhos/cm2	BD	04-MAY-00	28
			CR	<0.010	ppm	KB	30-MAY-00	180
			CU	<0.025	ppm	KB	30-MAY-00	6020M
			F-	1.2	ppm	BD	05-MAY-00	28
			FE	0.21	ppm	VK	16-MAY-00	180
			HCO3	333.	ppm CaCO3	VK	05-MAY-00	14
			K	12.	ppm	VK	16-MAY-00	180
			MG	97.	ppm	VK	16-MAY-00	180
			NA	839.	ppm	VK	02-JUN-00	180
			NO2/NO3	10.	ppm	JN	15-MAY-00	28
			PB	0.026	ppm	KB	30-MAY-00	180
			PH	7.7	ppm	VK	05-MAY-00	150.1
			SE	0.035	ppm	KB	30-MAY-00	180
			SO4=	1380.	ppm	JN	22-MAY-00	28
			TDS	3468.	ppm	BD	05-MAY-00	7
			TSS	13.	ppm	BD	04-MAY-00	160.1
			ZN	0.034	ppm	KB	30-MAY-00	180
								6020M
L000648-019	01-MAY-00	EPRI-0005-160	AS	0.012	ppm	KB	30-MAY-00	180
			CA	162.	ppm	VK	16-MAY-00	180
			CD	<0.005	ppm	KB	30-MAY-00	180
			CL-	465.	ppm	JN	26-MAY-00	28
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1
			COND.	4780.	umhos/cm2	BD	04-MAY-00	28
			CR	0.011	ppm	KB	30-MAY-00	180
			CU	<0.025	ppm	KB	30-MAY-00	6020M
			F-	1.1	ppm	BD	05-MAY-00	28
			FE	7.4	ppm	VK	16-MAY-00	180
			HCO3	432.	ppm CaCO3	VK	05-MAY-00	14
			K	13.	ppm	VK	16-MAY-00	180
			MG	93.	ppm	VK	16-MAY-00	180
			NA	791.	ppm	VK	02-JUN-00	180
			NO2/NO3	11.	ppm	JN	15-MAY-00	28
			PB	0.014	ppm	KB	30-MAY-00	180
								6020M
								6010
								6020M
								325.2
								310.1

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Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000648-019	01-MAY-00	EPRI-0005-160	PH	7.8	ppm	VK	05-MAY-00	150.1	
			SE	0.019	ppm	KB	30-MAY-00	180	6020M
			SO4=	1361.	ppm	JN	22-MAY-00	28	9036
			TDS	3514.	ppm	BD	05-MAY-00	7	160.1
			TSS	438.	ppm	BD	04-MAY-00		160.2
			ZN	0.056	ppm	KB	30-MAY-00	180	6020M
			AS	0.017	ppm	KB	30-MAY-00	180	6020M
			CA	85.	ppm	VK	16-MAY-00	180	6010
			CD	<0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	399.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm	VK	05-MAY-00		310.1
			COND.	3740.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	0.013	ppm	KB	30-MAY-00	180	6020M
L000648-020	01-MAY-00	EPRI-0005-157	CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	1.4	ppm	BD	05-MAY-00	28	340.2
			FE	3.1	ppm	VK	16-MAY-00	180	6010
			HCO3	446.	ppm	VK	05-MAY-00	14	310.1
			K	9.2	ppm	VK	16-MAY-00	180	6010
			MG	58.	ppm	VK	16-MAY-00	180	6010
			NA	718.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	4.9	ppm	JN	15-MAY-00	28	353.2
			PB	0.006	ppm	KB	30-MAY-00	180	6020M
			PH	7.7	ppm	VK	05-MAY-00		150.1
			SE	0.037	ppm	KB	30-MAY-00	180	6020M
			SO4=	936.	ppm	JN	22-MAY-00	28	9036
			TDS	2680.	ppm	BD	05-MAY-00	7	160.1
L000648-021	01-MAY-00	EPRI-0005-161	TSS	367.	ppm	BD	04-MAY-00		160.2
			ZN	0.048	ppm	KB	30-MAY-00	180	6020M
			AS	0.11	ppm	KB	30-MAY-00	180	6020M
			CA	142.	ppm	VK	16-MAY-00	180	6010
			CD	0.008	ppm	KB	30-MAY-00	180	6020M
			CL-	530.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm	VK	05-MAY-00		310.1
			COND.	5350.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	0.11	ppm	KB	30-MAY-00		6020M
			F-	1.3	ppm	BD	05-MAY-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD ANALYZED	METHOD
L000648-021	01-MAY-00	EPRI-0005-161	FE	1.4	ppm	VK	16-MAY-00	180
			HCO3	528.	ppm CaCO3	VK	05-MAY-00	14
			K	8.2	ppm	VK	16-MAY-00	180
			MG	109.	ppm	VK	16-MAY-00	180
			NA	941.	ppm	VK	02-JUN-00	180
			NO2/NO3	0.28	ppm	JN	15-MAY-00	28
			PB	0.054	ppm	KB	30-MAY-00	180
			PH	7.8	ppm	VK	05-MAY-00	150.1
			SE	0.015	ppm	KB	30-MAY-00	180
			SO4=	1345.	ppm	JN	22-MAY-00	28
			TDS	3928.	ppm	BD	05-MAY-00	7
			TSS	50.	ppm	BD	04-MAY-00	160.2
			ZN	0.11	ppm	KB	30-MAY-00	180
								6020M
			AS	0.037	ppm	KB	30-MAY-00	180
			CA	79.	ppm	VK	16-MAY-00	180
			CD	<0.005	ppm	KB	30-MAY-00	180
			CL-	550.	ppm	JN	26-MAY-00	28
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1
			COND.	7880.	umhos/cm2	BD	04-MAY-00	28
			CR	<0.010	ppm	KB	30-MAY-00	180
			CU	0.029	ppm	KB	30-MAY-00	6020M
			F-	4.8	ppm	BD	05-MAY-00	28
			FE	0.43	ppm	VK	16-MAY-00	180
			HCO3	386.	ppm CaCO3	VK	05-MAY-00	14
L000648-022	01-MAY-00	EPRI-0005-162	K	148.	ppm	VK	16-MAY-00	180
			MG	69.	ppm	VK	16-MAY-00	180
			NA	1802.	ppm	VK	02-JUN-00	180
			NO2/NO3	11.	ppm	JN	15-MAY-00	28
			PB	0.003	ppm	KB	30-MAY-00	180
			PH	8.0	ppm	VK	05-MAY-00	150.1
			SE	0.97	ppm	KB	30-MAY-00	180
			SO4=	3432.	ppm	JN	22-MAY-00	28
			TDS	6035.	ppm	BD	05-MAY-00	7
			TSS	22.	ppm	BD	04-MAY-00	160.2
			ZN	0.041	ppm	KB	30-MAY-00	180
								6020M
			AS	0.008	ppm	KB	30-MAY-00	180
			CA	66.	ppm	VK	16-MAY-00	180
								6010
L000648-023	01-MAY-00	EPRI-0005-149						

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000648-023	01-MAY-00	EPRI-0005-149	CD	<0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	356.	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	3810.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	3.1	ppm	BD	05-MAY-00	28	340.2
			FE	0.37	ppm	VK	16-MAY-00	180	6010
			HCO3	310.	ppm CaCO3	VK	05-MAY-00	14	310.1
			K	10.	ppm	VK	16-MAY-00	180	6010
			MG	58.	ppm	VK	16-MAY-00	180	6010
			NA	779.	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	7.3	ppm	JN	15-MAY-00	28	353.2
			PB	0.003	ppm	KB	30-MAY-00	180	6020M
			PH	7.9	ppm	VK	05-MAY-00		150.1
			SE	0.048	ppm	KB	30-MAY-00	180	6020M
			SO4=	1182.	ppm	JN	22-MAY-00	28	9036
			TDS	2708.	ppm	BD	05-MAY-00	7	160.1
			TSS	22.	ppm	BD	04-MAY-00		160.2
			ZN	0.020	ppm	KB	30-MAY-00	180	6020M
L000648-024	01-MAY-00	EPRI-0005-228	AS	<0.005	ppm	KB	30-MAY-00	180	6020M
			CA	<1.0	ppm	VK	16-MAY-00	180	6010
			CD	<0.005	ppm	KB	30-MAY-00	180	6020M
			CL-	<1.0	ppm	JN	26-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00		310.1
			COND.	17810.	umhos/cm2	BD	04-MAY-00	28	120.1
			CR	<0.010	ppm	KB	30-MAY-00	180	6020M
			CU	<0.025	ppm	KB	30-MAY-00		6020M
			F-	0.76	ppm	BD	05-MAY-00	28	340.2
			FE	<0.10	ppm	VK	16-MAY-00	180	6010
			HCO3	5.0	ppm CaCO3	VK	05-MAY-00	14	310.1
			K	<2.0	ppm	VK	16-MAY-00	180	6010
			MG	<1.0	ppm	VK	16-MAY-00	180	6010
			NA	3.6	ppm	VK	02-JUN-00	180	6010
			NO2/NO3	0.11	ppm	JN	15-MAY-00	28	353.2
			PB	0.005	ppm	KB	30-MAY-00	180	6020M
			PH	7.1	ppm	VK	05-MAY-00		150.1
			SE	<0.005	ppm	KB	30-MAY-00	180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT



El Paso

Water and Solid Waste (Project 3220)

Batch No: L000648

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000648-024	01-MAY-00	EPRI-0005-228	SO4=	<2.0	ppm	JN	22-MAY-00	28	9036
			TDS	59.	ppm	BD	05-MAY-00	7	160.1
			TSS	1.3	ppm	BD	04-MAY-00		160.2
			ZN	0.025	ppm	KB	30-MAY-00	180	6020M

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020M.


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000401

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	DATE	HOLD
WG000401-1		Matrix Spike	AS	103	%Recovery	KB	30-MAY-00	6020M	
			CD	101	%Recovery	KB	30-MAY-00	6020M	
			CL-	94	%Recovery	JN	26-MAY-00	325.2	
			CR	99	%Recovery	KB	30-MAY-00	6020M	
			CU	93	%Recovery	KB	30-MAY-00	6020M	
			F-	97	%Recovery	BD	05-MAY-00	340.2	
			FE	84	%Recovery	VK	16-MAY-00	6010	
			NO2/NO3	98	%Recovery	JN	15-MAY-00	353.2	
			PB	106	%Recovery	KB	30-MAY-00	6020M	
			SE	100	%Recovery	KB	30-MAY-00	6020M	
			SO4=	120	%Recovery	JN	22-MAY-00	9036	
			ZN	79	%Recovery	KB	30-MAY-00	6020M	
			AS	<0.005	ppm	KB	30-MAY-00	6020M	
			CA	<1.0	ppm	VK	16-MAY-00	6010	
			CD	<0.005	ppm	KB	30-MAY-00	6020M	
			CL-	<1.0	ppm	JN	26-MAY-00	325.2	
			CO3	<1.0	ppm CaCO3	VK	05-MAY-00	310.1	
			COND.	<5.0	umhos/cm2	BD	04-MAY-00	120.1	
			CR	<0.010	ppm	KB	30-MAY-00	6020M	
			CU	<0.025	ppm	KB	30-MAY-00	6020M	
WG000401-2		Prep Blank	F-	<0.050	ppm	BD	05-MAY-00	340.2	
			FE	<0.10	ppm	VK	16-MAY-00	6010	
			HCO3	<1.0	ppm CaCO3	VK	04-MAY-00	310.1	
			K	<2.0	ppm	VK	16-MAY-00	6010	
			MG	<1.0	ppm	VK	16-MAY-00	6010	
			NA	<2.0	ppm	VK	02-JUN-00	6010	
			NO2/NO3	<0.050	ppm	JN	15-MAY-00	353.2	
			PB	<0.003	ppm	KB	30-MAY-00	6020M	
			SE	<0.005	ppm	KB	30-MAY-00	6020M	
			SO4=	<2.0	ppm	JN	22-MAY-00	9036	
			TDS	<10.	ppm	BD	05-MAY-00	160.1	
			TSS	<1.0	ppm	BD	04-MAY-00	160.2	
			ZN	<0.020	ppm	KB	30-MAY-00	6020M	
			AS	110	%Recovery	KB	30-MAY-00	6020M	
			CA	101	%Recovery	VK	16-MAY-00	6010	
			CD	107	%Recovery	KB	30-MAY-00	6020M	
			CL-	98	%Recovery	JN	26-MAY-00	325.2	
WG000401-3		Lab Control Sample	AS	110	%Recovery	KB	30-MAY-00	6020M	
			CA	101	%Recovery	VK	16-MAY-00	6010	
			CD	107	%Recovery	KB	30-MAY-00	6020M	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000401

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000401-3		Lab Control Sample	COND.	107	% Recovery	BD	04-MAY-00	120.1	
			CR	94	% Recovery	KB	30-MAY-00	6020M	
			CU	108	% Recovery	KB	30-MAY-00	6020M	
			F-	92	% Recovery	BD	05-MAY-00	340.2	
			FE	100	% Recovery	VK	16-MAY-00	6010	
			HCO3	100	% Recovery	VK	04-MAY-00	310.1	
			K	88	% Recovery	VK	16-MAY-00	6010	
			MG	101	% Recovery	VK	16-MAY-00	6010	
			NA	93	% Recovery	VK	02-JUN-00	6010	
			NO2/NO3	95	% Recovery	JN	15-MAY-00	353.2	
			PB	111	% Recovery	KB	30-MAY-00	6020M	
			SE	110	% Recovery	KB	30-MAY-00	6020M	
			SO4=	96	% Recovery	JN	22-MAY-00	9036	
			TDS	101	% Recovery	BD	05-MAY-00	160.1	
			TSS	102	% Recovery	BD	04-MAY-00	160.2	
			ZN	130*	% Recovery	KB	30-MAY-00	6020M	
			AS	<1	% RPD	KB	30-MAY-00	6020M	
			CA	6.7	% RPD	VK	16-MAY-00	6010	
			CD	<1	% RPD	KB	30-MAY-00	6020M	
			CL-	2.3	% RPD	JN	26-MAY-00	325.2	
WG000401-4		Duplicate	CO3	<1	% RPD	VK	05-MAY-00	310.1	
			COND.	<1	% RPD	BD	04-MAY-00	120.1	
			CR	<1	% RPD	KB	30-MAY-00	6020M	
			CU	<1	% RPD	KB	30-MAY-00	6020M	
			F-	<1	% RPD	BD	05-MAY-00	340.2	
			FE	18	% RPD	VK	16-MAY-00	6010	
			HCO3	<1	% RPD	VK	04-MAY-00	310.1	
			K	2.0	% RPD	VK	16-MAY-00	6010	
			MG	7.7	% RPD	VK	16-MAY-00	6010	
			NA	2.2	% RPD	VK	02-JUN-00	6010	
			NO2/NO3	2.8	% RPD	JN	15-MAY-00	353.2	
			PB	<1	% RPD	KB	30-MAY-00	6020M	
			SE	<1	% RPD	KB	30-MAY-00	6020M	
			SO4=	1.0	% RPD	JN	22-MAY-00	9036	
			TDS	1.0	% RPD	BD	05-MAY-00	160.1	
			TSS	3.4	% RPD	BD	04-MAY-00	160.2	
			ZN	<1	% RPD	KB	30-MAY-00	6020M	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000401

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000401-5		Reporting Limit	AS	0.005	ppm				6020M
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm	CaCO3			310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020M
			CU	0.025	ppm				6020M
			F-	0.050	ppm				340.2
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020M
			SE	0.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
WG000401-6		Matrix Spike	ZN	0.020	ppm				6020M
			AS	97	%Recovery	KB	30-MAY-00		6020M
			CD	93	%Recovery	KB	30-MAY-00		6020M
			CL-	97	%Recovery	JN	26-MAY-00		325.2
			CR	101	%Recovery	KB	30-MAY-00		6020M
			CU	91	%Recovery	KB	30-MAY-00		6020M
			F-	97	%Recovery	BD	05-MAY-00		340.2
			FE	93	%Recovery	VK	16-MAY-00		6010
			NO2/NO3	87	%Recovery	JN	15-MAY-00		353.2
			PB	94	%Recovery	KB	30-MAY-00		6020M
			SE	99	%Recovery	KB	30-MAY-00		6020M
			SO4=	118	%Recovery	JN	22-MAY-00		9036
			ZN	90	%Recovery	KB	30-MAY-00		6020M
			AS	<0.005	ppm	KB	30-MAY-00		6020M
			CA	<1.0	ppm	VK	16-MAY-00		6010
			CD	<0.005	ppm	KB	30-MAY-00		6020M
			CL-	<1.0	ppm	JN	26-MAY-00		325.2
WG000401-7		Prep Blank							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000401

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000401-7		Prep Blank	COND.	<5.0	umhos/cm2	BD	04-MAY-00	120.1	
			CR	<0.010	ppm	KB	30-MAY-00	6020M	
			CU	<0.025	ppm	KB	30-MAY-00	6020M	
			F-	<0.050	ppm	BD	05-MAY-00	340.2	
			FE	<0.10	ppm	VK	16-MAY-00	6010	
			HCO3	<1.0	ppm CaCO3	VK	04-MAY-00	310.1	
			K	<2.0	ppm	VK	16-MAY-00	6010	
			MG	<1.0	ppm	VK	16-MAY-00	6010	
			NA	<2.0	ppm	VK	02-JUN-00	6010	
			NO2/NO3	<0.050	ppm	JN	15-MAY-00	353.2	
			PB	<0.003	ppm	KB	30-MAY-00	6020M	
			SE	<0.005	ppm	KB	30-MAY-00	6020M	
			SO4=	<2.0	ppm	JN	22-MAY-00	9036	
			TDS	<10.	ppm	BD	05-MAY-00	160.1	
			TSS	<1.0	ppm	BD	04-MAY-00	160.2	
			ZN	<0.020	ppm	KB	30-MAY-00	6020M	
			AS	104	%Recovery	KB	30-MAY-00	6020M	
			CA	87	%Recovery	VK	16-MAY-00	6010	
			CD	106	%Recovery	KB	30-MAY-00	6020M	
			CL-	105	%Recovery	JN	26-MAY-00	325.2	
			COND.	107	%Recovery	BD	04-MAY-00	120.1	
			CR	110	%Recovery	KB	30-MAY-00	6020M	
			CU	98	%Recovery	KB	30-MAY-00	6020M	
			P-	100	%Recovery	BD	05-MAY-00	340.2	
			FE	86	%Recovery	VK	16-MAY-00	6010	
			HCO3	100	%Recovery	VK	04-MAY-00	310.1	
			K	85	%Recovery	VK	16-MAY-00	6010	
			MG	84	%Recovery	VK	16-MAY-00	6010	
			NA	103	%Recovery	VK	02-JUN-00	6010	
			NO2/NO3	93	%Recovery	JN	15-MAY-00	353.2	
			PB	109	%Recovery	KB	30-MAY-00	6020M	
			SE	106	%Recovery	KB	30-MAY-00	6020M	
			SO4=	100	%Recovery	JN	22-MAY-00	9036	
			TDS	104	%Recovery	BD	05-MAY-00	160.1	
			TSS	101	%Recovery	BD	04-MAY-00	160.2	
			ZN	119	%Recovery	KB	30-MAY-00	6020M	
WG000401-8		Lab Control Sample	AS	104	%Recovery	KB	30-MAY-00	6020M	
			CA	87	%Recovery	VK	16-MAY-00	6010	
			CD	106	%Recovery	KB	30-MAY-00	6020M	
			CL-	105	%Recovery	JN	26-MAY-00	325.2	
			COND.	107	%Recovery	BD	04-MAY-00	120.1	
			CR	110	%Recovery	KB	30-MAY-00	6020M	
			CU	98	%Recovery	KB	30-MAY-00	6020M	
			P-	100	%Recovery	BD	05-MAY-00	340.2	
			FE	86	%Recovery	VK	16-MAY-00	6010	
			HCO3	100	%Recovery	VK	04-MAY-00	310.1	
			K	85	%Recovery	VK	16-MAY-00	6010	
			MG	84	%Recovery	VK	16-MAY-00	6010	
			NA	103	%Recovery	VK	02-JUN-00	6010	
			NO2/NO3	93	%Recovery	JN	15-MAY-00	353.2	
			PB	109	%Recovery	KB	30-MAY-00	6020M	
			SE	106	%Recovery	KB	30-MAY-00	6020M	
			SO4=	100	%Recovery	JN	22-MAY-00	9036	
			TDS	104	%Recovery	BD	05-MAY-00	160.1	
			TSS	101	%Recovery	BD	04-MAY-00	160.2	
			ZN	119	%Recovery	KB	30-MAY-00	6020M	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000401

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000401-9		Duplicate	AS	<1	% RPD	KB	30-MAY-00		6020M
			CA	3.5	% RPD	VK	16-MAY-00		6010
			CD	<1	% RPD	KB	30-MAY-00		6020M
			CL-	7.0	% RPD	JN	26-MAY-00		325.2
			COND.	<1	% RPD	BD	04-MAY-00		120.1
			CR	<1	% RPD	KB	30-MAY-00		6020M
			CU	1.7	% RPD	KB	30-MAY-00		6020M
			F-	<1	% RPD	BD	05-MAY-00		340.2
			FE	<1	% RPD	VK	16-MAY-00		6010
			HCO3	<1	% RPD	VK	04-MAY-00		310.1
			K	15	% RPD	VK	16-MAY-00		6010
			MG	2.7	% RPD	VK	16-MAY-00		6010
			NA	1.6	% RPD	VK	02-JUN-00		6010
			NO2/NO3	<1	% RPD	JN	15-MAY-00		353.2
			PB	<1	% RPD	KB	30-MAY-00		6020M
			SE	<1	% RPD	KB	30-MAY-00		6020M
			SO4=	1.4	% RPD	JN	22-MAY-00		9036
			TDS	15	% RPD	BD	05-MAY-00		160.1
			TSS	8.0	% RPD	BD	04-MAY-00		160.2
			ZN	<1	% RPD	KB	30-MAY-00		6020M

[Signature]
Approved

[Signature]
Reviewer

Hydrometallurgy Inc.

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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		ANALYSIS								REMARKS	
DATE	TIME	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTX	TPH					
4/28/00	820		EPR1-0005-114	X			X								
	850		EPR1-0005-143	X			X								
	900		EPR1-0005-225	X			X								
	930		EPR1-0005-154	X			X								
	1000		EPR1-0005-110	X			X								
	1025		EPR1-0005-141	X			X								
	1100		EPR1-0005-142	X			X								
	1245		EPR1-0005-120	X			X								
	1315		EPR1-0005-119	X			X								
	1345		EPR1-0005-164	X			X								
	1420		EPR1-0005-118	X			X								
	1445		EPR1-0005-122	X			X								
	1515		EPR1-0005-140	X			X								
	1615		EPR1-0005-226	X			X								
Relinquished (Signature)				Received by: (Signature)	Lab	P.O. #		Shipped via: Bus, (Ead Ex) UPS							
Date/Time				Date/Time	TSC - SLC, UT		Other								
Relinquished (Signature)				Received by: (Signature)	Remarks		Air Bill #								
Date/Time				Date/Time											
Relinquished (Signature)				Received for Laboratory by: (Signature)	Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits								
Date/Time				Date/Time	5.2.00 1040		<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter								
							<input type="checkbox"/> Other								

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000665-001	02-MAY-00	EPRI-0005-147	AS	0.58	ppm	KB	01-JUN-00	180	6020M
			CA	170.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	204.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	CaCO3	05-MAY-00	310.1	
			COND.	3200.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00	6020M	
			F-	2.2	ppm	EH	01-JUN-00	28	340.2
			FE	2.3	ppm	VK	22-MAY-00	180	6010
			HCO3	368.	ppm	CaCO3	05-MAY-00	14	310.1
			K	25.	ppm	VK	22-MAY-00	180	6010
			MG	82.	ppm	VK	22-MAY-00	180	6010
			NA	425.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	7.8	ppm	JN	17-MAY-00	28	353.2
			PB	0.010	ppm	KB	01-JUN-00	180	6020M
			PH	7.5	pH	DC	05-MAY-00	150.1	
			SE	0.27	ppm	KB	01-JUN-00	180	6020M
			SO4=	1127.	ppm	JN	22-MAY-00	28	9036
			TDS	2413.	ppm	BD	09-MAY-00	7	160.1
			TSS	79.	ppm	MC	05-MAY-00	160.2	
			ZN	0.067	ppm	KB	01-JUN-00	180	6020M
L000665-002	02-MAY-00	EPRI-0005-151	AS	2.2	ppm	KB	01-JUN-00	180	6020M
			CA	94.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	282.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	CaCO3	05-MAY-00	310.1	
			COND.	3220.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00	6020M	
			F-	3.1	ppm	EH	01-JUN-00	28	340.2
			FE	<0.10	ppm	VK	22-MAY-00	180	6010
			HCO3	285.	ppm	CaCO3	05-MAY-00	14	310.1
			K	25.	ppm	VK	22-MAY-00	180	6010
			MG	48.	ppm	VK	22-MAY-00	180	6010
			NA	504.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	6.6	ppm	JN	17-MAY-00	28	353.2
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	TEST METHOD
L000665-002	02-MAY-00	EPRI-0005-151	PH	7.2	PH	DC	05-MAY-00	150.1	
			SE	0.14	ppm	KB	01-JUN-00	180	6020M
			SO4=	968.	ppm	JN	22-MAY-00	28	9036
			TDS	2276.	ppm	BD	09-MAY-00	7	160.1
			TSS	<1.0	ppm	MC	05-MAY-00		160.2
			ZN	0.021	ppm	KB	01-JUN-00	180	6020M
			AS	2.2	ppm	KB	01-JUN-00	180	6020M
			CA	96.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	259.	ppm	JN	30-MAY-00	28	325.2
L000665-003	02-MAY-00	EPRI-0005-229	CO3	<1.0	ppm	DC	05-MAY-00		310.1
			COND.	3220.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	3.2	ppm	EH	01-JUN-00	28	340.2
			FE	<0.10	ppm	VK	22-MAY-00	180	6010
			HCO3	316.	ppm	DC	05-MAY-00	14	310.1
			K	25.	ppm	VK	22-MAY-00	180	6010
			MG	50.	ppm	VK	22-MAY-00	180	6010
			NA	515.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	7.4	ppm	JN	17-MAY-00	28	353.2
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M
			PH	7.7	PH	DC	05-MAY-00		150.1
			SE	0.14	ppm	KB	01-JUN-00	180	6020M
			SO4=	984.	ppm	JN	22-MAY-00	28	9036
			TDS	2249.	ppm	BD	09-MAY-00	7	160.1
			TSS	<1.0	ppm	MC	05-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M
L000665-004	02-MAY-00	EPRI-0005-152	AS	0.008	ppm	KB	01-JUN-00	180	6020M
			CA	38.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	248.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	DC	05-MAY-00		310.1
			COND.	2630.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	2.8	ppm	EH	01-JUN-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	RECEIVED	
L000665-004	02-MAY-00	EPRI-0005-152	FE	0.22	ppm	VK	22-MAY-00	180	6010
			HCO3	300.	ppm	DC	05-MAY-00	14	310.1
			K	7.6	ppm	VK	22-MAY-00	180	6010
			MG	28.	ppm	VK	22-MAY-00	180	6010
			NA	436.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	6.2	ppm	JN	17-MAY-00	28	353.2
			PB	0.005	ppm	KB	01-JUN-00	180	6020M
			PH	8.0	PH	DC	05-MAY-00	150.1	150.1
			SE	0.030	ppm	KB	01-JUN-00	180	6020M
			SO4=	625.	ppm	JN	22-MAY-00	28	9036
			TDS	1739.	ppm	BD	09-MAY-00	7	160.1
			TSS	10.	ppm	MC	05-MAY-00	160.2	160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M
			AS	0.008	ppm	KB	01-JUN-00	180	6020M
			CA	49.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	514.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	DC	05-MAY-00	310.1	310.1
			COND.	4880.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	0.011	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00	6020M	6020M
			F-	4.7	ppm	EH	01-JUN-00	28	340.2
			FE	0.13	ppm	VK	22-MAY-00	180	6010
			HCO3	373.	ppm	DC	05-MAY-00	14	310.1
			K	7.1	ppm	VK	22-MAY-00	180	6010
L000665-005	02-MAY-00	EPRI-0005-145	MG	58.	ppm	VK	22-MAY-00	180	6010
			NA	864.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	10.	ppm	JN	17-MAY-00	28	353.2
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M
			PH	7.9	PH	DC	05-MAY-00	150.1	150.1
			SE	0.12	ppm	KB	01-JUN-00	180	6020M
			SO4=	1546.	ppm	JN	22-MAY-00	28	9036
			TDS	3406.	ppm	BD	09-MAY-00	7	160.1
			TSS	8.3	ppm	MC	05-MAY-00	160.2	160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M
			AS	4.0	ppm	KB	01-JUN-00	180	6020M
			CA	69.	ppm	VK	22-MAY-00	180	6010
L000665-006	02-MAY-00	EPRI-0005-144							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD ANALYZED	PAYS METHOD
L000665-006	02-MAY-00	EPRI-0005-144	CD	<0.005	ppm	KB	01-JUN-00 180	6020M
			CL-	258.	ppm	JN	30-MAY-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00	310.1
			COND.	3800.	umhos/cm2	BD	09-MAY-00 28	120.1
			CR	<0.010	ppm	KB	01-JUN-00 180	6020M
			CU	<0.025	ppm	KB	01-JUN-00	6020M
			F-	3.4	ppm	EH	01-JUN-00 28	340.2
			FE	0.21	ppm	VK	22-MAY-00 180	6010
			HCO3	320.	ppm CaCO3	DC	05-MAY-00 14	310.1
			K	48.	ppm	VK	22-MAY-00 180	6010
			MG	35.	ppm	VK	22-MAY-00 180	6010
			NA	587.	ppm	VK	22-MAY-00 180	6010
			NO2/NO3	11.	ppm	JN	17-MAY-00 28	353.2
			PB	0.004	ppm	KB	01-JUN-00 180	6020M
			PH	8.0	pH	DC	05-MAY-00	150.1
			SE	0.20	ppm	KB	01-JUN-00 180	6020M
			SO4=	1106.	ppm	JN	22-MAY-00 28	9036
			TDS	2577.	ppm	BD	09-MAY-00 7	160.1
			TSS	8.0	ppm	MC	05-MAY-00	160.2
			ZN	0.022	ppm	KB	01-JUN-00 180	6020M
L000665-007	02-MAY-00	EPRI-0005-173	AS	0.016	ppm	KB	01-JUN-00 180	6020M
			CA	95.	ppm	VK	22-MAY-00 180	6010
			CD	<0.005	ppm	KB	01-JUN-00 180	6020M
			CL-	385.	ppm	JN	30-MAY-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00	310.1
			COND.	3930.	umhos/cm2	BD	09-MAY-00 28	120.1
			CR	<0.010	ppm	KB	01-JUN-00 180	6020M
			CU	<0.025	ppm	KB	01-JUN-00	6020M
			F-	2.4	ppm	EH	01-JUN-00 28	340.2
			FE	0.76	ppm	VK	22-MAY-00 180	6010
			HCO3	315.	ppm CaCO3	DC	05-MAY-00 14	310.1
			K	15.	ppm	VK	22-MAY-00 180	6010
			MG	67.	ppm	VK	22-MAY-00 180	6010
			NA	624.	ppm	VK	22-MAY-00 180	6010
			NO2/NO3	6.5	ppm	JN	17-MAY-00 28	353.2
			PB	0.006	ppm	KB	01-JUN-00 180	6020M
			PH	7.7	pH	DC	05-MAY-00	150.1
			SE	0.063	ppm	KB	01-JUN-00 180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000665-007	02-MAY-00	EPRI-0005-173	SO4=	1219.	ppm	JN	22-MAY-00	28	9036
			TDS	2782.	ppm	BD	09-MAY-00	7	160.1
			TSS	32.	ppm	MC	05-MAY-00		160.2
			ZN	0.026	ppm	KB	01-JUN-00	180	6020M
			AS	0.009	ppm	KB	01-JUN-00	180	6020M
			CA	139.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	531.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	CaCO3	05-MAY-00		310.1
			COND.	4680.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
L000665-008	02-MAY-00	EPRI-0005-148	F-	2.7	ppm	EH	01-JUN-00	28	340.2
			FE	<0.10	ppm	VK	22-MAY-00	180	6010
			HCO3	336.	ppm	CaCO3	05-MAY-00	14	310.1
			K	22.	ppm	VK	22-MAY-00	180	6010
			MG	83.	ppm	VK	22-MAY-00	180	6010
			NA	756.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	9.9	ppm	JN	17-MAY-00	28	353.2
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M
			PH	7.5	PH	DC	05-MAY-00		150.1
			SE	0.13	ppm	KB	01-JUN-00	180	6020M
			SO4=	1428.	ppm	JN	22-MAY-00	28	9036
			TDS	3426.	ppm	BD	09-MAY-00	7	160.1
L000665-009	02-MAY-00	EPRI-0005-172	TSS	7.0	ppm	MC	05-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M
			AS	1.2	ppm	KB	01-JUN-00	180	6020M
			CA	44.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	345.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	CaCO3	05-MAY-00		310.1
			COND.	3500.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	2.4	ppm	EH	01-JUN-00	28	340.2
			FE	0.49	ppm	VK	22-MAY-00	180	6010
			HCO3	348.	ppm	CaCO3	05-MAY-00	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	DATE METHOD
L000665-009	02-MAY-00	EPRI-0005-172	K	4.8	ppm	VK	22-MAY-00	180	6010
			MG	43.	ppm	VK	22-MAY-00	180	6010
			NA	595.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	6.8	ppm	JN	17-MAY-00	28	353.2
			PB	0.006	ppm	KB	01-JUN-00	180	6020M
			PH	7.9	pH	DC	05-MAY-00	150.1	
			SE	0.043	ppm	KB	01-JUN-00	180	6020M
			SO4=	999.	ppm	JN	22-MAY-00	28	9036
			TDS	1950.	ppm	BD	09-MAY-00	7	160.1
			TSS	8.7	ppm	MC	05-MAY-00	160.2	
			ZN	0.027	ppm	KB	01-JUN-00	180	6020M
			AS	0.017	ppm	KB	01-JUN-00	180	6020M
			CA	177.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	385.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	DC	05-MAY-00	310.1	
			COND.	5150.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00	180	6020M
			F-	1.3	ppm	EH	01-JUN-00	28	340.2
L000665-010	02-MAY-00	EPRI-0005-146	FE	0.67	ppm	VK	22-MAY-00	180	6010
			HCO3	437.	ppm	DC	05-MAY-00	14	310.1
			K	13.	ppm	VK	22-MAY-00	180	6010
			MG	79.	ppm	VK	22-MAY-00	180	6010
			NA	821.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	1.7	ppm	JN	17-MAY-00	28	353.2
			PB	0.006	ppm	KB	01-JUN-00	180	6020M
			PH	7.8	pH	DC	05-MAY-00	150.1	
			SE	0.017	ppm	KB	01-JUN-00	180	6020M
			SO4=	1794.	ppm	JN	22-MAY-00	28	9036
			TDS	3920.	ppm	BD	09-MAY-00	7	160.1
			TSS	21.	ppm	MC	05-MAY-00	150.2	
			ZN	0.023	ppm	KB	01-JUN-00	180	6020M
			AS	0.83	ppm	KB	01-JUN-00	180	6020M
			CA	197.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	543.	ppm	JN	30-MAY-00	28	325.2
L000665-011	02-MAY-00	EPRI-0005-175	AS	0.83	ppm	KB	01-JUN-00	180	6020M
			CA	197.	ppm	VK	22-MAY-00	180	6010

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000665-011	02-MAY-00	EPRI-0005-175	CO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			COND.	5100.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	2.6	ppm	EH	01-JUN-00	28	340.2
			FE	1.4	ppm	VK	22-MAY-00	180	6010
			HCO3	296.	ppm CaCO3	DC	05-MAY-00	14	310.1
			K	51.	ppm	VK	22-MAY-00	180	6010
			MG	61.	ppm	VK	22-MAY-00	180	6010
			NA	749.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	0.066	ppm	JN	18-MAY-00	28	353.2
			PB	0.004	ppm	KB	01-JUN-00	180	6020M
			PH	7.6	pH	DC	05-MAY-00		150.1
			SE	0.010	ppm	KB	01-JUN-00	180	6020M
			SO4=	1749.	ppm	JN	22-MAY-00	28	9036
			TDS	3767.	ppm	BD	09-MAY-00	7	160.1
			TSS	5.4	ppm	MC	05-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M
L000665-012	02-MAY-00	EPRI-0005-176	AS	0.013	ppm	KB	01-JUN-00	180	6020M
			CA	253.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	684.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			COND.	7280.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	1.5	ppm	EH	01-JUN-00	28	340.2
			FE	0.32	ppm	VK	22-MAY-00	180	6010
			HCO3	568.	ppm CaCO3	DC	05-MAY-00	14	310.1
			K	87.	ppm	VK	22-MAY-00	180	6010
			MG	141.	ppm	VK	22-MAY-00	180	6010
			NA	948.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	<0.050	ppm	JN	18-MAY-00	28	353.2
			PB	0.003	ppm	KB	01-JUN-00	180	6020M
			PH	7.5	pH	DC	05-MAY-00		150.1
			SE	0.016	ppm	KB	01-JUN-00	180	6020M
			SO4=	2732.	ppm	JN	22-MAY-00	28	9036
			TDS	5043.	ppm	BD	09-MAY-00	7	160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	
							ANALYZED	DNYS METHOD
L000665-012	02-MAY-00	EPRI-0005-176	TSS	1.1	ppm	MC	05-MAY-00	160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180 6020M
L000665-013	02-MAY-00	EPRI-0005-177	AS	0.006	ppm	KB	01-JUN-00	180 6020M
			CA	121.	ppm	VK	22-MAY-00	180 6010
			CD	<0.005	ppm	KB	01-JUN-00	180 6020M
			CL-	372.	ppm	JN	30-MAY-00	28 325.2
			CO3	<1.0	ppm	DC	05-MAY-00	310.1
			COND.	3890.	umhos/cm2	BD	09-MAY-00	28 120.1
			CR	<0.010	ppm	KB	01-JUN-00	180 6020M
			CU	<0.025	ppm	KB	01-JUN-00	6020M
			F-	3.0	ppm	BH	01-JUN-00	28 340.2
			FE	0.77	ppm	VK	22-MAY-00	180 6010
			HCO3	332.	ppm	DC	05-MAY-00	14 310.1
			K	36.	ppm	VK	22-MAY-00	180 6010
			MG	56.	ppm	VK	22-MAY-00	180 6010
			NA	594.	ppm	VK	22-MAY-00	180 6010
			NO2/NO3	<0.050	ppm	JN	18-MAY-00	28 353.2
			PB	<0.003	ppm	KB	01-JUN-00	180 6020M
			PH	7.7	pH	DC	05-MAY-00	150.1
			SE	0.006	ppm	KB	01-JUN-00	180 6020M
			SO4=	1271.	ppm	JN	23-MAY-00	28 9036
			TDS	2680.	ppm	BD	09-MAY-00	7 160.1
			TSS	6.4	ppm	MC	05-MAY-00	160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180 6020M
L000665-014	02-MAY-00	EPRI-0005-230	AS	0.007	ppm	KB	01-JUN-00	180 6020M
			CA	<1.0	ppm	VK	22-MAY-00	180 6010
			CD	<0.005	ppm	KB	01-JUN-00	180 6020M
			CL-	<1.0	ppm	JN	30-MAY-00	28 325.2
			CO3	<1.0	ppm	DC	05-MAY-00	310.1
			COND.	18.	umhos/cm2	BD	09-MAY-00	28 120.1
			CR	<0.010	ppm	KB	01-JUN-00	180 6020M
			CU	<0.025	ppm	KB	01-JUN-00	6020M
			F-	0.77	ppm	BH	01-JUN-00	28 340.2
			FE	<0.10	ppm	VK	22-MAY-00	180 6010
			HCO3	9.8	ppm	DC	05-MAY-00	14 310.1
			K	<2.0	ppm	VK	22-MAY-00	180 6010
			MG	<1.0	ppm	VK	22-MAY-00	180 6010

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L000665-014	02-MAY-00	EPRI-0005-230	NA	<2.0	ppm	VK	22-MAY-00	180
			NO2/NO3	0.082	ppm	JN	17-MAY-00	28
			PH	<0.003	ppm	KB	01-JUN-00	180
			SE	7.1	PH	DC	05-MAY-00	150.1
			SO4=	<0.005	ppm	KB	01-JUN-00	180
			TDS	<2.0	ppm	JN	22-MAY-00	28
			TSS	31.	ppm	ED	09-MAY-00	7
			ZN	<1.0	ppm	MC	05-MAY-00	160.1
				<0.020	ppm	KB	01-JUN-00	180
			AS	2.4	ppm	KB	01-JUN-00	180
			CA	178.	ppm	VK	22-MAY-00	180
			CD	<0.005	ppm	KB	01-JUN-00	180
			CL-	492.	ppm	JN	30-MAY-00	28
			CO3	<1.0	ppm	DC	05-MAY-00	310.1
			COND.	5050.	umhos/cm2	BD	09-MAY-00	28
			CR	0.023	ppm	KB	01-JUN-00	180
			CU	<0.025	ppm	KB	01-JUN-00	6020M
L000665-015	03-MAY-00	EPRI-0005-127	F-	5.3	ppm	EH	01-JUN-00	28
			FE	0.28	ppm	VK	22-MAY-00	180
			HCO3	384.	ppm	DC	05-MAY-00	14
			K	77.	ppm	VK	22-MAY-00	180
			MG	89.	ppm	VK	22-MAY-00	180
			NA	733.	ppm	VK	22-MAY-00	180
			NO2/NO3	5.8	ppm	JN	17-MAY-00	28
			PB	0.003	ppm	KB	01-JUN-00	180
			PH	7.5	PH	DC	05-MAY-00	150.1
			SE	0.25	ppm	KB	01-JUN-00	180
			SO4=	1742.	ppm	JN	22-MAY-00	28
			TDS	3775.	ppm	ED	09-MAY-00	7
			TSS	7.7	ppm	MC	05-MAY-00	160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180
			AS	0.052	ppm	KB	01-JUN-00	180
			CA	329.	ppm	VK	22-MAY-00	180
L000665-016	03-MAY-00	EPRI-0005-132	CD	<0.005	ppm	KB	01-JUN-00	180
			CL-	737.	ppm	JN	30-MAY-00	28
			CO3	<1.0	ppm	DC	05-MAY-00	310.1
			COND.	9320.	umhos/cm2	BD	09-MAY-00	28
								120.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000665-016	03-MAY-00	EPRI-0005-132	CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	1.8	ppm	EH	01-JUN-00	28	340.2
			FE	0.14	ppm	VK	22-MAY-00	180	6010
			HCO3	160.	ppm	DC	05-MAY-00	14	310.1
			K	16.	ppm	VK	22-MAY-00	180	6010
			MG	116.	ppm	VK	22-MAY-00	180	6010
			NA	1635.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	104.	ppm	JN	17-MAY-00	28	353.2
			PB	0.005	ppm	KB	01-JUN-00	180	6020M
			PH	8.2	pH	DC	05-MAY-00		150.1
			SE	0.50	ppm	KB	01-JUN-00	180	6020M
			SO4=	3787.	ppm	JN	22-MAY-00	28	9036
			TDS	7740.	ppm	BD	09-MAY-00	7	160.1
			TSS	2.8	ppm	MC	05-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M
L000665-017	03-MAY-00	EPRI-0005-130	AS	0.87	ppm	KB	01-JUN-00	180	6020M
			CA	157.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	408.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	DC	05-MAY-00		310.1
			COND.	4400.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	2.9	ppm	EH	01-JUN-00	28	340.2
			FE	<0.10	ppm	VK	22-MAY-00	180	6010
			HCO3	359.	ppm	DC	05-MAY-00	14	310.1
			K	38.	ppm	VK	22-MAY-00	180	6010
			MG	66.	ppm	VK	22-MAY-00	180	6010
			NA	647.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	4.6	ppm	JN	17-MAY-00	28	353.2
			PB	0.004	ppm	KB	01-JUN-00	180	6020M
			PH	7.6	pH	DC	05-MAY-00		150.1
			SE	0.28	ppm	KB	01-JUN-00	180	6020M
			SO4=	1407.	ppm	JN	22-MAY-00	28	9036
			TDS	3201.	ppm	BD	09-MAY-00	7	160.1
			TSS	2.2	ppm	MC	05-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L000665-018	03-MAY-00	EPRI-0005-131	AS	0.025	ppm	KB	01-JUN-00	180
			CA	220.	ppm	VK	22-MAY-00	180
			CD	<0.005	ppm	KB	01-JUN-00	180
			CL-	726.	ppm	JN	30-MAY-00	28
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00	310.1
			COND.	7340.	umhos/cm2	BD	09-MAY-00	28
			CR	0.021	ppm	KB	01-JUN-00	180
			CU	<0.025	ppm	KB	01-JUN-00	6020M
			F-	2.0	ppm	EH	01-JUN-00	340.2
			FE	0.32	ppm	VK	22-MAY-00	180
			HCO3	484.	ppm CaCO3	DC	05-MAY-00	14
			K	27.	ppm	VK	22-MAY-00	180
			MG	140.	ppm	VK	22-MAY-00	180
			NA	1228.	ppm	VK	22-MAY-00	180
			NO2/NO3	1.4	ppm	JN	17-MAY-00	28
			PB	0.007	ppm	KB	01-JUN-00	180
			PH	7.5	pH	DC	05-MAY-00	150.1
			SE	0.14	ppm	KB	01-JUN-00	180
			SO4=	2428.	ppm	JN	22-MAY-00	28
			TDS	5508.	ppm	BD	09-MAY-00	7
			TSS	7.6	ppm	MC	05-MAY-00	160.1
			ZN	0.027	ppm	KB	01-JUN-00	180
L000665-019	03-MAY-00	EPRI-0005-231	AS	0.026	ppm	KB	01-JUN-00	180
			CA	201.	ppm	VK	22-MAY-00	180
			CD	<0.005	ppm	KB	01-JUN-00	180
			CL-	906.	ppm	JN	30-MAY-00	28
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00	310.1
			COND.	7360.	umhos/cm2	BD	09-MAY-00	28
			CR	0.020	ppm	KB	01-JUN-00	180
			CU	<0.025	ppm	KB	01-JUN-00	6020M
			F-	1.9	ppm	EH	01-JUN-00	340.2
			FE	0.33	ppm	VK	22-MAY-00	180
			HCO3	512.	ppm CaCO3	DC	05-MAY-00	14
			K	24.	ppm	VK	22-MAY-00	180
			MG	127.	ppm	VK	22-MAY-00	180
			NA	1086.	ppm	VK	22-MAY-00	180
			NO2/NO3	1.4	ppm	JN	17-MAY-00	28
			PB	0.004	ppm	KB	01-JUN-00	180

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD			
L000665-019	03-MAY-00	EPRI-0005-231	PH	7.5	PH	DC	05-MAY-00	150.1				
			SE	0.14	ppm	KB	01-JUN-00	180	6020M			
			SO4=	2627.	ppm	JN	22-MAY-00	28	9036			
			TDS	5516.	ppm	BD	09-MAY-00	7	160.1			
			TSS	5.7	ppm	MC	05-MAY-00		160.2			
			ZN	0.024	ppm	KB	01-JUN-00	180	6020M			
			AS	0.009	ppm	KB	01-JUN-00	180	6020M			
			CA	493.	ppm	VK	22-MAY-00	180	6010			
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M			
			CL-	1127.	ppm	JN	30-MAY-00	28	325.2			
L000665-020	03-MAY-00	EPRI-0005-128	CO3	<1.0	ppm	CaCO3	DC	05-MAY-00	310.1			
			COND.	8440.	umhos/cm2	BD	09-MAY-00	28	120.1			
			CR	0.43	ppm	KB	01-JUN-00	180	6020M			
			CU	<0.025	ppm	KB	01-JUN-00		6020M			
			F-	1.6	ppm	EH	01-JUN-00	28	340.2			
			FE	1.9	ppm	VK	22-MAY-00	180	6010			
			HCO3	263.	ppm	CaCO3	DC	05-MAY-00	14	310.1		
			K	11.	ppm	VK	22-MAY-00	180	6010			
			MG	214.	ppm	VK	22-MAY-00	180	6010			
			NA	1175.	ppm	VK	22-MAY-00	180	6010			
			NO2/NO3	52.	ppm	JN	17-MAY-00	28	353.2			
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M			
			PH	7.5	PH	DC	05-MAY-00		150.1			
			SE	0.21	ppm	KB	01-JUN-00	180	6020M			
			SO4=	3085.	ppm	JN	22-MAY-00	28	9036			
			TDS	7037.	ppm	BD	09-MAY-00	7	160.1			
			TSS	6.1	ppm	MC	05-MAY-00		160.2			
			ZN	0.021	ppm	KB	01-JUN-00	180	6020M			
			L000665-021	03-MAY-00	EPRI-0005-134	AS	8.8	ppm	VK	22-MAY-00	180	6010
						CA	493.	ppm	VK	22-MAY-00	180	6010
CD	<0.005	ppm				KB	01-JUN-00	180	6020M			
CL-	595.	ppm				JN	30-MAY-00	28	325.2			
CO3	<1.0	ppm				CaCO3	DC	05-MAY-00	310.1			
COND.	7510.	umhos/cm2				BD	09-MAY-00	28	120.1			
CR	<0.010	ppm				KB	01-JUN-00	180	6020M			
CU	<0.025	ppm				KB	01-JUN-00		6020M			
F-	3.0	ppm				EH	01-JUN-00	28	340.2			
AS	8.8	ppm				VK	22-MAY-00	180	6010			

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L000665-021	03-MAY-00	EPRI-0005-134	FE	0.30	ppm	VK	22-MAY-00	180
			HCO3	404.	ppm	DC	05-MAY-00	14
			K	38.	ppm	VK	22-MAY-00	180
			MG	130.	ppm	VK	22-MAY-00	180
			NA	1156.	ppm	VK	22-MAY-00	180
			NO2/NO3	30.	ppm	JN	17-MAY-00	28
			PB	<0.003	ppm	KB	01-JUN-00	180
			PH	7.6	pH	DC	05-MAY-00	150.1
			SE	0.28	ppm	KB	01-JUN-00	180
			SO4=	3225.	ppm	JN	22-MAY-00	28
			TDS	6405.	ppm	BD	09-MAY-00	7
			TSS	7.6	ppm	MC	05-MAY-00	160.2
			ZN	0.022	ppm	KB	01-JUN-00	180
			AS	32.	ppm	VK	22-MAY-00	180
			CA	278.	ppm	VK	22-MAY-00	180
			CD	0.38	ppm	KB	01-JUN-00	180
			CL-	483.	ppm	JN	30-MAY-00	28
			CO3	<1.0	ppm	DC	05-MAY-00	310.1
			COND.	7530.	umhos/cm2	BD	09-MAY-00	28
L000665-022	03-MAY-00	EPRI-0005-121	CR	<0.010	ppm	KB	01-JUN-00	180
			CU	<0.025	ppm	KB	01-JUN-00	180
			F-	6.1	ppm	EH	01-JUN-00	28
			FE	8.8	ppm	VK	22-MAY-00	180
			HCO3	408.	ppm	DC	05-MAY-00	14
			K	61.	ppm	VK	22-MAY-00	180
			MG	98.	ppm	VK	22-MAY-00	180
			NA	1110.	ppm	VK	22-MAY-00	180
			NO2/NO3	15.	ppm	JN	17-MAY-00	28
			PB	0.007	ppm	KB	01-JUN-00	180
			PH	7.4	pH	DC	05-MAY-00	150.1
			SE	0.53	ppm	KB	01-JUN-00	180
			SO4=	2972.	ppm	JN	22-MAY-00	28
			TDS	5557.	ppm	BD	09-MAY-00	7
			TSS	649.	ppm	MC	05-MAY-00	160.2
			ZN	1.1	ppm	KB	01-JUN-00	180
			AS	2.6	ppm	KB	01-JUN-00	180
			CA	117.	ppm	VK	22-MAY-00	180
L000665-023	03-MAY-00	EPRI-0005-111						

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000665-023	03-MAY-00	EPRI-0005-111	CD	0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	488.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			COND.	5230.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	KB	01-JUN-00	180	6020M
			CU	0.14	ppm	KB	01-JUN-00		6020M
			F-	2.9	ppm	EH	01-JUN-00	28	340.2
			FE	0.80	ppm	VK	22-MAY-00	180	6010
			HCO3	391.	ppm CaCO3	DC	05-MAY-00	14	310.1
			K	50.	ppm	VK	22-MAY-00	180	6010
			MG	63.	ppm	VK	22-MAY-00	180	6010
			NA	586.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	0.18	ppm	JN	17-MAY-00	28	353.2
			PB	0.060	ppm	KB	01-JUN-00	180	6020M
			PH	7.6	pH	DC	05-MAY-00		150.1
			SE	0.015	ppm	KB	01-JUN-00	180	6020M
			SO4=	1629.	ppm	JN	22-MAY-00	28	9036
			TDS	3198.	ppm	BD	09-MAY-00	7	160.1
			TSS	24.	ppm	MC	05-MAY-00		160.2
			ZN	0.075	ppm	KB	01-JUN-00	180	6020M
L000665-024	03-MAY-00	EPRI-0005-124	AS	1.2	ppm	KB	01-JUN-00	180	6020M
			CA	266.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	506.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			COND.	4800.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	0.014	ppm	KB	01-JUN-00	180	6020M
			CU	0.034	ppm	KB	01-JUN-00		6020M
			F-	2.5	ppm	EH	01-JUN-00	28	340.2
			FE	32.	ppm	VK	22-MAY-00	180	6010
			HCO3	382.	ppm CaCO3	DC	05-MAY-00	14	310.1
			K	27.	ppm	VK	22-MAY-00	180	6010
			MG	60.	ppm	VK	22-MAY-00	180	6010
			NA	855.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	0.86	ppm	JN	17-MAY-00	28	353.2
			PB	0.026	ppm	KB	01-JUN-00	180	6020M
			PH	8.0	pH	DC	05-MAY-00		150.1
			SE	0.015	ppm	KB	01-JUN-00	180	6020M

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Water and Solid Waste (Project 3220)

Batch No: L000665

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020M.


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000402-1		Matrix Spike	AS	SR>4xSA	%Recovery	KB	01-JUN-00		6020M
			CD	94	%Recovery	KB	01-JUN-00		6020M
			CL-	96	%Recovery	JN	30-MAY-00		325.2
			CR	99	%Recovery	KB	01-JUN-00		6020M
			CU	86	%Recovery	KB	01-JUN-00		6020M
			F-	104	%Recovery	EH	01-JUN-00		340.2
			FE	83	%Recovery	VK	22-MAY-00		6010
			NO2/NO3	106	%Recovery	JN	17-MAY-00		353.2
			PB	106	%Recovery	KB	01-JUN-00		6020M
			SE	96	%Recovery	KB	01-JUN-00		6020M
			SO4=	106	%Recovery	JN	22-MAY-00		9036
			ZN	87	%Recovery	KB	01-JUN-00		6020M
WG000402-2		Prep Blank	AS	<0.005	ppm	KB	01-JUN-00		6020M
			CA	<1.0	ppm	VK	22-MAY-00		6010
			CD	<0.005	ppm	KB	01-JUN-00		6020M
			CL-	<1.0	ppm	JN	30-MAY-00		325.2
			CO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			COND.	<5.0	umhos/cm2	BD	09-MAY-00		120.1
			CR	<0.010	ppm	KB	01-JUN-00		6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	<0.050	ppm	EH	01-JUN-00		340.2
			FE	<0.10	ppm	VK	22-MAY-00		6010
			HCO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			K	<2.0	ppm	VK	22-MAY-00		6010
			MG	<1.0	ppm	VK	22-MAY-00		6010
			NA	<2.0	ppm	VK	22-MAY-00		6010
			NO2/NO3	<0.050	ppm	JN	17-MAY-00		353.2
			PB	<0.003	ppm	KB	01-JUN-00		6020M
			SE	<0.005	ppm	KB	01-JUN-00		6020M
			SO4=	<2.0	ppm	JN	22-MAY-00		9036
			TDS	<10.	ppm	BD	09-MAY-00		160.1
			TSS	<1.0	ppm	MC	05-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00		6020M
WG000402-3		Lab Control Sample	AS	100	%Recovery	KB	01-JUN-00		6020M
			CA	94	%Recovery	VK	22-MAY-00		6010
			CD	104	%Recovery	KB	01-JUN-00		6020M
			CL-	97	%Recovery	JN	30-MAY-00		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: WG000402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000402-3		Lab Control Sample	COND.	107	% Recovery	BD	09-MAY-00	120.1	
			CR	105	% Recovery	KB	01-JUN-00	6020M	
			CU	109	% Recovery	KB	01-JUN-00	6020M	
			F-	85	% Recovery	EH	01-JUN-00	340.2	
			FE	89	% Recovery	VK	22-MAY-00	6010	
			HCO3	96	% Recovery	DC	05-MAY-00	310.1	
			K	88	% Recovery	VK	22-MAY-00	6010	
			MG	97	% Recovery	VK	22-MAY-00	6010	
			NA	90	% Recovery	VK	22-MAY-00	6010	
			NO2/NO3	99	% Recovery	JN	17-MAY-00	353.2	
			PB	110	% Recovery	KB	01-JUN-00	6020M	
			SE	106	% Recovery	KB	01-JUN-00	6020M	
			SO4=	102	% Recovery	JN	22-MAY-00	9036	
			TDS	100	% Recovery	BD	09-MAY-00	160.1	
			TSS	92	% Recovery	MC	05-MAY-00	160.2	
			ZN	110	% Recovery	KB	01-JUN-00	6020M	
WG000402-4		Duplicate	AS	3.5	% RPD	KB	01-JUN-00	6020M	
			CA	6.1	% RPD	VK	22-MAY-00	6010	
			CD	<1	% RPD	KB	01-JUN-00	6020M	
			CL-	2.0	% RPD	JN	30-MAY-00	325.2	
			CO3	<1	% RPD	DC	05-MAY-00	310.1	
			COND.	<1	% RPD	BD	09-MAY-00	120.1	
			CR	<1	% RPD	KB	01-JUN-00	6020M	
			CU	<1	% RPD	KB	01-JUN-00	6020M	
			F-	1.9	% RPD	EH	01-JUN-00	340.2	
			FE	4.3	% RPD	VK	22-MAY-00	6010	
			HCO3	<1	% RPD	DC	05-MAY-00	310.1	
			K	4.1	% RPD	VK	22-MAY-00	6010	
			MG	6.3	% RPD	VK	22-MAY-00	6010	
			NA	8.3	% RPD	VK	22-MAY-00	6010	
			NO2/NO3	1.7	% RPD	JN	17-MAY-00	353.2	
			PB	+/-prdl	% RPD	KB	01-JUN-00	6020M	
			SE	7.7	% RPD	KB	01-JUN-00	6020M	
			SO4=	2.0	% RPD	JN	22-MAY-00	9036	
			TDS	19	% RPD	BD	09-MAY-00	160.1	
			TSS	10	% RPD	MC	05-MAY-00	160.2	
			ZN	<1	% RPD	KB	01-JUN-00	6020M	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000402-5		Reporting Limit	AS	0.005	ppm				6020M
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm	CaCO3			310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020M
			CU	0.025	ppm				6020M
			F-	0.050	ppm				340.2
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020M
			SE	0.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	1.0	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020M
WG000402-6		Matrix Spike	AS	88	%Recovery	VK	22-MAY-00		6010
			CD	SR>4xSA	%Recovery	KB	01-JUN-00		6020M
			CL-	100	%Recovery	JN	30-MAY-00		325.2
			CR	98	%Recovery	KB	01-JUN-00		6020M
			CU	101	%Recovery	KB	01-JUN-00		6020M
			F-	96	%Recovery	EH	01-JUN-00		340.2
			FE	100	%Recovery	VK	22-MAY-00		6010
			NO2/NO3	98	%Recovery	JN	17-MAY-00		353.2
			PB	91	%Recovery	KB	01-JUN-00		6020M
			SE	SR>4xSA	%Recovery	KB	01-JUN-00		6020M
			SO4=	107	%Recovery	JN	22-MAY-00		9036
			ZN	SR>4xSA	%Recovery	KB	01-JUN-00		6020M
WG000402-7		Prep Blank	AS	<0.010	ppm	VK	22-MAY-00		6010
			CA	<1.0	ppm	VK	22-MAY-00		6010
			CD	<0.005	ppm	KB	01-JUN-00		6020M
			CL-	<1.0	ppm	JN	30-MAY-00		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000402-7		Prep Blank	CO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			COND.	<5.0	umhos/cm2	BD	09-MAY-00		120.1
			CR	<0.010	ppm	KB	01-JUN-00		6020M
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	<0.050	ppm	EH	01-JUN-00		340.2
			FE	<0.10	ppm	VK	22-MAY-00		6010
			HCO3	<1.0	ppm CaCO3	DC	05-MAY-00		310.1
			K	<2.0	ppm	VK	22-MAY-00		6010
			MG	<1.0	ppm	VK	22-MAY-00		6010
			NA	<2.0	ppm	VK	22-MAY-00		6010
			NO2/NO3	<0.050	ppm	JN	17-MAY-00		353.2
			PB	<0.003	ppm	KB	01-JUN-00		6020M
			SE	<0.005	ppm	KB	01-JUN-00		6020M
			SO4=	<2.0	ppm	JN	22-MAY-00		9036
			TDS	<1.0	ppm	BD	09-MAY-00		160.1
			TSS	<1.0	ppm	MC	05-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00		6020M
WG000402-8		Lab Control Sample	AS	88	%Recovery	VK	22-MAY-00		6010
			CA	88	%Recovery	VK	22-MAY-00		6010
			CD	102	%Recovery	KB	01-JUN-00		6020M
			CL-	103	%Recovery	JN	30-MAY-00		325.2
			COND.	107	%Recovery	BD	09-MAY-00		120.1
			CR	104	%Recovery	KB	01-JUN-00		6020M
			CU	93	%Recovery	KB	01-JUN-00		6020M
			F-	100	%Recovery	EH	01-JUN-00		340.2
			FE	87	%Recovery	VK	22-MAY-00		6010
			HCO3	97	%Recovery	DC	05-MAY-00		310.1
			K	82	%Recovery	VK	22-MAY-00		6010
			MG	89	%Recovery	VK	22-MAY-00		6010
			NA	95	%Recovery	VK	22-MAY-00		6010
			NO2/NO3	95	%Recovery	JN	17-MAY-00		353.2
			PB	100	%Recovery	KB	01-JUN-00		6020M
			SE	107	%Recovery	KB	01-JUN-00		6020M
			SO4=	99	%Recovery	JN	22-MAY-00		9036
			TDS	100	%Recovery	BD	09-MAY-00		160.1
			TSS	93	%Recovery	MC	05-MAY-00		160.2
			ZN	107	%Recovery	KB	01-JUN-00		6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

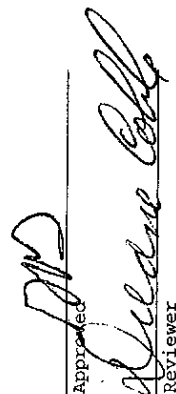
El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000402

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000402-9		Duplicate	AS	5.8	% RPD	VK	22-MAY-00	6010	
			CA	<1	% RPD	VK	22-MAY-00	6010	
			CD	<1	% RPD	KB	01-JUN-00	6020M	
			CL-	1.0	% RPD	JN	30-MAY-00	325.2	
			CO3	<1	% RPD	DC	05-MAY-00	310.1	
			COND.	<1	% RPD	BD	09-MAY-00	120.1	
			CR	<1	% RPD	KB	01-JUN-00	6020M	
			CU	<1	% RPD	KB	01-JUN-00	6020M	
			F-	<1	% RPD	EH	01-JUN-00	340.2	
			FE	9.5	% RPD	VK	22-MAY-00	6010	
			HCO3	<1	% RPD	DC	05-MAY-00	310.1	
			K	10.1	% RPD	VK	22-MAY-00	6010	
			MG	7.2	% RPD	VK	22-MAY-00	6010	
			NA	<1	% RPD	VK	22-MAY-00	6010	
			NO2/NO3	9.7	% RPD	JN	17-MAY-00	353.2	
			PB	<1	% RPD	KB	01-JUN-00	6020M	
			SE	<1	% RPD	KB	01-JUN-00	6020M	
			SO4=	2.0	% RPD	JN	22-MAY-00	9036	
			TDS	<1	% RPD	BD	09-MAY-00	160.1	
			TSS	<1	% RPD	MC	05-MAY-00	160.2	
			ZN	+/-prdl	% RPD	KB	01-JUN-00	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 CONTAINERS	COMMONS UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Recoverable Metals UF/HNO ₃	TPH	REMARKS
DATE	TIME	COMP	GRAB								
0931VZ		ASARCO-EL PASO									
SAMPLERS: (Signature) <i>Douglas M. Gloor</i>											
520	815			3		X			X		
	840			3		X			X		
	845			3		X			X		
	915			3		X			X		
	940			3		X			X		
	1010			3		X			X		
	1030			3		X			X		
	1100			3		X			X		
	1215			3		X			X		
	1345			3		X			X		
	1415			3		X			X		
	1445			3		X			X		
	1500			3		X			X		
	1600			3		X			X		
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS	
<i>[Signature]</i>		5/3/00 1600		<i>[Signature]</i>		TSC - SLC - ACT				Other	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks				Air Bill #	
<i>[Signature]</i>				<i>[Signature]</i>							
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits		<input checked="" type="checkbox"/> Cover letter	
<i>[Signature]</i>				<i>[Signature]</i>		5:40 12:00		<input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Other	
								Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		Signature	

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(520) 544-3150 • FAX (520) 544-3190
2-3489 • FAX (915) 532-4897

PROJ. NO.	PROJECT NAME													
0931VZ	ASARCO - EL PASO, TX													
SAMPLERS: (Signature) Douglas M. Solon														
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	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
5300	830			EPR1-0005-127	3	X	X			X				
	920			EPR1-0005-132	3	X	X			X				
	945			EPR1-0005-130	3	X	X			X				
	1010			EPR1-0005-131	3	X	X			X				
	1015			EPR1-0005-231	3	X	X			X				
	1040			EPR1-0005-128	3	X	X			X				
	1110			EPR1-0005-134	3	X	X			X				
	1345			EPR1-0005-121	3	X	X			X				
	1415			EPR1-0005-111	3	X	X			X				
	1445			EPR1-0005-124	3	X	X			X				
	1515			EPR1-0005-232	3	X	X			X				
						Shipped via: Bus, Red Ex, UPS Other _____ Air Bill # _____								
						P.O. #								
						Lab	TXC-SLC, UT							
						Remarks								
Relinquished (Signature)		Date/Time	Received by: (Signature)											
Relinquished (Signature)		Date/Time	Received by: (Signature)											
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____								
Return results & electronic copy to:					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: L000672

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L000672-001	04-MAY-00	EPRI-0005-123	AS	54.	ppm	KB	01-JUN-00	180	6020M
			CA	573.	ppm	VK	22-MAY-00	180	6010
			CD	1.3	ppm	KB	01-JUN-00	180	6020M
			CL-	831.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00	310.1	
			COND.	9600.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	0.026	ppm	VK	22-MAY-00	180	6010
			CU	0.28	ppm	KB	01-JUN-00	6020M	
			F-	14.	ppm	EH	08-MAY-00	28	340.2
			FE	67.	ppm	VK	22-MAY-00	180	6010
			HCO3	1150.	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	126.	ppm	VK	22-MAY-00	180	6010
			MG	324.	ppm	VK	22-MAY-00	180	6010
			NA	1185.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	0.054	ppm	JN	19-MAY-00	28	353.2
			PB	0.60	ppm	KB	01-JUN-00	180	6020M
			PH	6.5	pH	DC	08-MAY-00	150.1	
			SE	0.27	ppm	KB	01-JUN-00	180	6020M
			SO4=	4301.	ppm	JN	22-MAY-00	28	9036
			TDS	7937.	ppm	BD	09-MAY-00	7	160.1
			TSS	5379.	ppm	MC	08-MAY-00	160.2	
			ZN	102.	ppm	KB	01-JUN-00	180	6020M
L000672-002	04-MAY-00	EPRI-0005-108	AS	0.76	ppm	KB	01-JUN-00	180	6020M
			CA	457.	ppm	VK	22-MAY-00	180	6010
			CD	0.068	ppm	KB	01-JUN-00	180	6020M
			CL-	626.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00	310.1	
			COND.	9260.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	VK	22-MAY-00	180	6010
			CU	<0.025	ppm	KB	01-JUN-00	6020M	
			F-	1.8	ppm	EH	08-MAY-00	28	340.2
			FE	0.46	ppm	VK	22-MAY-00	180	6010
			HCO3	290.	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	44.	ppm	VK	22-MAY-00	180	6010
			MG	262.	ppm	VK	22-MAY-00	180	6010
			NA	1351.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	89.	ppm	JN	17-MAY-00	28	353.2
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000672

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L000672-002	04-MAY-00	EPRI-0005-108	PH	7.8	pH	DC	08-MAY-00		150.1
			SE	0.30	ppm	KB	01-JUN-00	180	6020M
			SO4=	4516.	ppm	JN	01-JUN-00	28	9036
			TDS	7998.	ppm	BD	09-MAY-00	7	160.1
			TSS	17.	ppm	MC	08-MAY-00		160.2
			ZN	0.042	ppm	KB	01-JUN-00	180	6020M
			AS	0.78	ppm	KB	01-JUN-00	180	6020M
			CA	454.	ppm	VK	22-MAY-00	180	6010
			CD	0.063	ppm	KB	01-JUN-00	180	6020M
			CL-	583.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00		310.1
			COND.	9360.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	VK	22-MAY-00	180	6010
			CU	<0.025	ppm	KB	01-JUN-00		6020M
L000672-003	04-MAY-00	EPRI-0005-233	F-	2.0	ppm	EH	08-MAY-00	28	340.2
			FE	0.96	ppm	VK	22-MAY-00	180	6010
			HCO3	289.	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	46.	ppm	VK	22-MAY-00	180	6010
			MG	264.	ppm	VK	22-MAY-00	180	6010
			NA	1352.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	98.	ppm	JN	17-MAY-00	28	353.2
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M
			PH	7.9	pH	DC	08-MAY-00		150.1
			SE	0.31	ppm	KB	01-JUN-00	180	6020M
			SO4=	4405.	ppm	JN	01-JUN-00	28	9036
			TDS	8012.	ppm	BD	09-MAY-00	7	160.1
			TSS	32.	ppm	MC	08-MAY-00		160.2
			ZN	0.037	ppm	KB	01-JUN-00	180	6020M
L000672-004	04-MAY-00	EPRI-0005-116	AS	0.51	ppm	KB	01-JUN-00	180	6020M
			CA	430.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	521.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00		310.1
			COND.	6710.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	0.016	ppm	VK	22-MAY-00	180	6010
			CU	<0.025	ppm	KB	01-JUN-00		6020M
			F-	0.99	ppm	EH	08-MAY-00	28	340.2

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El Paso

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Batch No: L000672

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000672-004	04-MAY-00	EPRI-0005-116	FE	1.5	ppm	VK	22-MAY-00	180	6010
			HCO3	487.	ppm	DC	08-MAY-00	14	310.1
			K	17.	ppm	VK	22-MAY-00	180	6010
			MG	158.	ppm	VK	22-MAY-00	180	6010
			NA	910.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	59.	ppm	JN	18-MAY-00	28	353.2
			PB	0.008	ppm	KB	01-JUN-00	180	6020M
			PH	7.4	pH	DC	08-MAY-00		150.1
			SE	1.2	ppm	KB	01-JUN-00	180	6020M
			SO4=	2715.	ppm	JN	01-JUN-00	28	9036
			TDS	5606.	ppm	BD	09-MAY-00	7	160.1
			TSS	75.	ppm	MC	08-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00	180	6020M
			AS	0.38	ppm	KB	01-JUN-00	180	6020M
			CA	169.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	292.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	DC	08-MAY-00		310.1
			COND.	3150.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	0.057	ppm	VK	22-MAY-00	180	6010
L000672-005	04-MAY-00	EPRI-0005-115	CU	0.037	ppm	KB	01-JUN-00		6020M
			F-	2.9	ppm	EH	08-MAY-00	28	340.2
			FE	52.	ppm	VK	22-MAY-00	180	6010
			HCO3	972.	ppm	DC	08-MAY-00	14	310.1
			K	30.	ppm	VK	22-MAY-00	180	6010
			MG	33.	ppm	VK	22-MAY-00	180	6010
			NA	550.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	5.7	ppm	JN	18-MAY-00	28	353.2
			PB	0.034	ppm	KB	01-JUN-00	180	6020M
			PH	7.9	pH	DC	08-MAY-00		150.1
			SE	0.21	ppm	KB	01-JUN-00	180	6020M
			SO4=	876.	ppm	JN	01-JUN-00	28	9036
			TDS	2095.	ppm	BD	09-MAY-00	7	160.1
			TSS	5093.	ppm	MC	08-MAY-00		160.2
			ZN	0.099	ppm	KB	01-JUN-00	180	6020M
			AS	0.21	ppm	KB	01-JUN-00	180	6020M
			CA	175.	ppm	VK	22-MAY-00	180	6010
L000672-006	04-MAY-00	EPRI-0005-182							

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El Paso

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Batch No: L000672

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000672-006	04-MAY-00	EPRI-0005-182	CD	0.019	ppm	KB	01-JUN-00	180	6020M
			CL-	284.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00	310.1	
			COND.	3200.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	0.058	ppm	VK	22-MAY-00	180	6010
			CU	0.38	ppm	KB	01-JUN-00	6020M	
			F-	1.5	ppm	EH	08-MAY-00	28	340.2
			FE	184.	ppm	VK	22-MAY-00	180	6010
			HCO3	490.	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	39.	ppm	VK	22-MAY-00	180	6010
			MG	103.	ppm	VK	22-MAY-00	180	6010
			NA	503.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	13.	ppm	JN	18-MAY-00	28	353.2
			PB	0.66	ppm	KB	01-JUN-00	180	6020M
			PH	8.1	pH	DC	08-MAY-00	150.1	
			SE	0.25	ppm	KB	01-JUN-00	180	6020M
			SO4=	891.	ppm	JN	01-JUN-00	28	9036
			TDS	2126.	ppm	BD	09-MAY-00	7	160.1
			TSS	6477.	ppm	MC	08-MAY-00	160.2	
			ZN	0.47	ppm	KB	01-JUN-00	180	6020M
L000672-007	04-MAY-00	EPRI-0005-234	AS	<0.005	ppm	KB	01-JUN-00	180	6020M
			CA	<1.0	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	<1.0	ppm	JN	30-MAY-00	28	325.2
			CO3	3.6	ppm CaCO3	DC	08-MAY-00	310.1	
			COND.	23.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	VK	22-MAY-00	180	6010
			CU	<0.025	ppm	KB	01-JUN-00	6020M	
			F-	0.88	ppm	EH	08-MAY-00	28	340.2
			FE	<0.10	ppm	VK	22-MAY-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	<2.0	ppm	VK	22-MAY-00	180	6010
			MG	<1.0	ppm	VK	22-MAY-00	180	6010
			NA	3.0	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	0.063	ppm	JN	18-MAY-00	28	353.2
			PB	<0.003	ppm	KB	01-JUN-00	180	6020M
			PH	9.0	pH	DC	08-MAY-00	150.1	
			SE	<0.005	ppm	KB	01-JUN-00	180	6020M

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El Paso

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Batch No: L000672

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000672-007	04-MAY-00	EPRI-0005-234	SO4=	<2.0	ppm	JN	01-JUN-00	28	9036
			TDS	22.	ppm	BD	09-MAY-00	7	160.1
			TSS	<1.0	ppm	MC	08-MAY-00		160.2
			ZN	0.029	ppm	KB	01-JUN-00	180	6020M
			AS	203.	ppm	KB	01-JUN-00	180	6020M
			CA	845.	ppm	VK	22-MAY-00	180	6010
			CD	2.6	ppm	KB	01-JUN-00	180	6020M
			CL-	1000.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00		310.1
			COND.	8000.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	0.11	ppm	VK	22-MAY-00	180	6010
			CU	2.3	ppm	KB	01-JUN-00		6020M
			F-	11.	ppm	EH	08-MAY-00	28	340.2
			FE	266.	ppm	VK	22-MAY-00	180	6010
L000672-008	04-MAY-00	EPRI-0005-178	HCO3	1230.	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	226.	ppm	VK	22-MAY-00	180	6010
			MG	322.	ppm	VK	22-MAY-00	180	6010
			NA	954.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	0.076	ppm	JN	18-MAY-00	28	353.2
			PB	2.1	ppm	KB	01-JUN-00	180	6020M
			PH	6.6	PH	DC	08-MAY-00		150.1
			SE	<0.050*	ppm	KB	01-JUN-00	180	6020M
			SO4=	4487.	ppm	JN	01-JUN-00	28	9036
			TDS	7066.	ppm	BD	09-MAY-00	7	160.1
			TSS	7664.	ppm	MC	08-MAY-00		160.2
			ZN	66.	ppm	KB	01-JUN-00	180	6020M
			AS	0.25	ppm	KB	01-JUN-00	180	6020M
			CA	559.	ppm	VK	22-MAY-00	180	6010
L000672-009	04-MAY-00	EPRI-0005-179	CD	0.15	ppm	KB	01-JUN-00	180	6020M
			CL-	1455.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00		310.1
			COND.	9850.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	VK	22-MAY-00	180	6010
			CU	0.18	ppm	KB	01-JUN-00		6020M
			F-	3.2	ppm	EH	08-MAY-00	28	340.2
			FE	1.5	ppm	VK	22-MAY-00	180	6010
			HCO3	650.	ppm CaCO3	DC	08-MAY-00	14	310.1

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L000672

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	RECEIVED		
L000672-009	04-MAY-00	EPRI-0005-179	K	92.	ppm	VK	22-MAY-00	180	6010	
			MG	270.	ppm	VK	22-MAY-00	180	6010	
			NA	1326.	ppm	VK	22-MAY-00	180	6010	
			NO2/NO3	22.	ppm	JN	18-MAY-00	28	353.2	
			PB	0.084	ppm	KB	01-JUN-00	180	6020M	
			PH	8.1	pH	DC	08-MAY-00		150.1	
			SE	0.11	ppm	KB	01-JUN-00	180	6020M	
			SO4=	4346.	ppm	JN	01-JUN-00	28	9036	
			TDS	8166.	ppm	BD	09-MAY-00	7	160.1	
			TSS	44.	ppm	MC	08-MAY-00		160.2	
			ZN	0.29	ppm	KB	01-JUN-00	180	6020M	
			AS	3.3	ppm	KB	01-JUN-00	180	6020M	
			CA	342.	ppm	BD	07-JUN-00	180	6010	
			CD	0.66	ppm	KB	01-JUN-00	180	6020M	
			CL-	563.	ppm	JN	30-MAY-00	28	325.2	
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00		310.1	
			COND.	6400.	umhos/cm2	BD	09-MAY-00	28	120.1	
			CR	0.022	ppm	BD	07-JUN-00	180	6010	
			CU	1.9	ppm	KB	01-JUN-00		6020M	
			F-	5.8	ppm	EH	08-MAY-00	28	340.2	
L000672-010	04-MAY-00	EPRI-0005-180	FE	32.	ppm	VK	07-JUN-00	180	6010	
			HCO3	652.	ppm	DC	08-MAY-00	14	310.1	
			K	60.	ppm	BD	07-JUN-00	180	6010	
			MG	90.	ppm	BD	07-JUN-00	180	6010	
			NA	980.	ppm	BD	07-JUN-00	180	6010	
			NO2/NO3	11.	ppm	JN	18-MAY-00	28	353.2	
			PB	1.4	ppm	KB	01-JUN-00	180	6020M	
			PH	7.4	pH	DC	08-MAY-00		150.1	
			SE	0.29	ppm	KB	01-JUN-00	180	6020M	
			SO4=	2350.	ppm	JN	01-JUN-00	28	9036	
			TDS	4550.	ppm	BD	09-MAY-00	7	160.1	
			TSS	1440.	ppm	MC	08-MAY-00		160.2	
			ZN	2.3	ppm	KB	01-JUN-00	180	6020M	
			AS	7.2	ppm	KB	01-JUN-00	180	6020M	
			CA	405.	ppm	VK	22-MAY-00	180	6010	
			CD	0.89	ppm	KB	01-JUN-00	180	6020M	
			CL-	359.	ppm	JN	30-MAY-00	28	325.2	
L000672-011	04-MAY-00	EPRI-0005-181	AS	7.2	ppm	KB	01-JUN-00	180	6020M	
			CA	405.	ppm	VK	22-MAY-00	180	6010	

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Batch No: L000672

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS	METHOD
L000672-011	04-MAY-00	EPRI-0005-181	CO3	<1.0	ppm CaCO3	DC	08-MAY-00	28	310.1
			COND.	3120.	umhos/cm2	BD	09-MAY-00	180	120.1
			CR	0.062	ppm	VK	22-MAY-00	180	6010
			CU	0.51	ppm	KB	01-JUN-00	6020M	
			F-	4.8	ppm	EH	08-MAY-00	28	340.2
			FE	73.	ppm	VK	22-MAY-00	180	6010
			HCO3	710.	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	92.	ppm	VK	22-MAY-00	180	6010
			MG	68.	ppm	VK	22-MAY-00	180	6010
			NA	351.	ppm	VK	22-MAY-00	180	6010
			NO2/NO3	10.	ppm	JN	18-MAY-00	28	353.2
			PB	3.5	ppm	KB	01-JUN-00	180	6020M
			PH	7.7	ppm	DC	08-MAY-00	150.1	
			SE	1.1	ppm	KB	01-JUN-00	180	6020M
			SO4=	1057.	ppm	JN	01-JUN-00	28	9036
			TDS	2256.	ppm	BD	09-MAY-00	7	160.1
			TSS	4608.	ppm	MC	08-MAY-00	160.2	
			ZN	1.1	ppm	KB	01-JUN-00	180	6020M
L000672-012	04-MAY-00	EPRI-0005-195	AS	<0.005	ppm	KB	01-JUN-00	180	6020M
			CA	213.	ppm	VK	22-MAY-00	180	6010
			CD	<0.005	ppm	KB	01-JUN-00	180	6020M
			CL-	774.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00	310.1	
			COND.	5540.	umhos/cm2	BD	09-MAY-00	28	120.1
			CR	<0.010	ppm	VK	22-MAY-00	180	6010
			CU	<0.025	ppm	KB	01-JUN-00	6020M	
			F-	0.82	ppm	EH	08-MAY-00	28	340.2
			FE	3.1	ppm	VK	22-MAY-00	180	6010
			HCO3	180.	ppm CaCO3	DC	08-MAY-00	14	310.1
			K	26.	ppm	VK	22-MAY-00	180	6010
			MG	125.	ppm	VK	22-MAY-00	180	6010
			NA	791.	ppm	JN	19-MAY-00	28	353.2
			NO2/NO3	0.12	ppm	KB	01-JUN-00	180	6020M
			PB	0.011	ppm	DC	08-MAY-00	150.1	
			PH	8.0	ppm	KB	01-JUN-00	180	6020M
			SE	<0.005	ppm	JN	01-JUN-00	28	9036
			SO4=	1928.	ppm	KB	01-JUN-00	28	9036
			TDS	4122.	ppm	BD	09-MAY-00	7	160.1

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Water and Solid Waste (Project 3220)

Batch No: L000672

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYSED	DAIS	
L000672-012	04-MAY-00	EPRI-0005-195	TSS	26.	ppm	MC	08-MAY-00	160.2	
			ZN	0.023	ppm	KB	01-JUN-00	180	6020M

PH is a field parameter therefore holding time cannot be met by the lab.
 Digestion Methods for Totals --- 3010 and 6020M.
 * =Detection limit for selenium has been raised due to matrix interference.

MB

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000403

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000403-1		Matrix Spike	AS	101	%Recovery	KB	01-JUN-00		6020M
			CD	95	%Recovery	KB	01-JUN-00		6020M
			CL-	99	%Recovery	JN	30-MAY-00		325.2
			CR	90	%Recovery	VK	22-MAY-00		6010
			CU	85	%Recovery	KB	01-JUN-00		6020M
			F-	95	%Recovery	EH	08-MAY-00		340.2
			FE	90	%Recovery	VK	22-MAY-00		6010
			NO2/NO3	103	%Recovery	JN	17-MAY-00		353.2
			PB	100	%Recovery	KB	01-JUN-00		6020M
			SE	101	%Recovery	KB	01-JUN-00		6020M
			SO4=	98	%Recovery	JN	01-JUN-00		9036
			ZN	88	%Recovery	KB	01-JUN-00		6020M
			AS	<0.005	ppm	KB	01-JUN-00		6020M
			CA	<1.0	ppm	VK	22-MAY-00		6010
			CD	<0.005	ppm	KB	01-JUN-00		6020M
			CL-	<1.0	ppm	JN	30-MAY-00		325.2
			CO3	<1.0	ppm CaCO3	DC	08-MAY-00		310.1
			COND.	<5.0	umhos/cm2	BD	09-MAY-00		120.1
			CR	<0.010	ppm	VK	22-MAY-00		6010
			CU	<0.025	ppm	KB	01-JUN-00		6020M
WG000403-2		Prep Blank	F-	<0.050	ppm	EH	08-MAY-00		340.2
			FE	<0.10	ppm	VK	22-MAY-00		6010
			HCO3	<1.0	ppm CaCO3	DC	08-MAY-00		310.1
			K	<2.0	ppm	VK	22-MAY-00		6010
			MG	<1.0	ppm	VK	22-MAY-00		6010
			NA	<2.0	ppm	VK	22-MAY-00		6010
			NO2/NO3	<0.050	ppm	JN	17-MAY-00		353.2
			PB	<0.003	ppm	KB	01-JUN-00		6020M
			SE	<0.005	ppm	KB	01-JUN-00		6020M
			SO4=	<2.0	ppm	JN	01-JUN-00		9036
			TDS	<10.	ppm	BD	09-MAY-00		160.1
			TSS	<1.0	ppm	MC	08-MAY-00		160.2
			ZN	<0.020	ppm	KB	01-JUN-00		6020M
			AS	101	%Recovery	KB	01-JUN-00		6020M
			CA	96	%Recovery	VK	22-MAY-00		6010
			CD	107	%Recovery	KB	01-JUN-00		6020M
			CL-	96	%Recovery	JN	30-MAY-00		325.2
WG000403-3		Lab Control Sample	AS	101	%Recovery	KB	01-JUN-00		6020M
			CA	96	%Recovery	VK	22-MAY-00		6010
			CD	107	%Recovery	KB	01-JUN-00		6020M
			CL-	96	%Recovery	JN	30-MAY-00		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000403

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000403-3		Lab Control Sample	COND.	107	% Recovery	BD	09-MAY-00	120.1	
			CR	97	% Recovery	VK	22-MAY-00	6010	
			CU	98	% Recovery	KB	01-JUN-00	6020M	
			F-	85	% Recovery	EH	08-MAY-00	340.2	
			FE	95	% Recovery	VK	22-MAY-00	6010	
			HCO3	96	% Recovery	DC	08-MAY-00	310.1	
			K	95	% Recovery	VK	22-MAY-00	6010	
			MG	95	% Recovery	VK	22-MAY-00	6010	
			NA	90	% Recovery	VK	22-MAY-00	6010	
			NO2/NO3	100	% Recovery	JN	17-MAY-00	353.2	
			PB	105	% Recovery	KB	01-JUN-00	6020M	
			SE	103	% Recovery	KB	01-JUN-00	6020M	
			SO4=	100	% Recovery	JN	01-JUN-00	9036	
			TDS	101	% Recovery	BD	09-MAY-00	160.1	
			TSS	94	% Recovery	MC	08-MAY-00	160.2	
			ZN	105	% Recovery	KB	01-JUN-00	6020M	
WG000403-4		Duplicate	AS	1.8	% RPD	KB	01-JUN-00	6020M	
			CA	1.9	% RPD	VK	22-MAY-00	6010	
			CD	<1	% RPD	KB	01-JUN-00	6020M	
			CL-	3.2	% RPD	JN	30-MAY-00	325.2	
			CO3	<1	% RPD	DC	08-MAY-00	310.1	
			COND.	<1	% RPD	BD	09-MAY-00	120.1	
			CR	<1	% RPD	VK	22-MAY-00	6010	
			CU	1.8	% RPD	KB	01-JUN-00	6020M	
			F-	<1	% RPD	EH	08-MAY-00	340.2	
			FE	<1	% RPD	VK	22-MAY-00	6010	
			HCO3	<1	% RPD	DC	08-MAY-00	310.1	
			K	7.6	% RPD	VK	22-MAY-00	6010	
			MG	<1	% RPD	VK	22-MAY-00	6010	
			NA	6.0	% RPD	VK	22-MAY-00	6010	
			NO2/NO3	<1	% RPD	JN	17-MAY-00	353.2	
			PB	5.1	% RPD	KB	01-JUN-00	6020M	
			SE	6.1	% RPD	KB	01-JUN-00	6020M	
			SO4=	4.8	% RPD	JN	01-JUN-00	9036	
			TDS	<1	% RPD	BD	09-MAY-00	160.1	
			TSS	3.8	% RPD	MC	08-MAY-00	160.2	
			ZN	<1	% RPD	KB	01-JUN-00	6020M	

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000403

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000403-5		Reporting Limit	AS	0.005	ppm				6020M
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6010
			CU	0.025	ppm				6020M
			F-	0.050	ppm				340.2
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020M
			SE	0.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020M

Approved

Reviewer

Hydro-S

HFORM-1-4/95

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-001	08-MAY-00	EPRI-0005-126	AS	3.6	ppm	CH	09-JUN-00	180	6010
			CA	517.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	950.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00	310.1	
			COND.	11460.	unthos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M	
			F-	5.6	ppm	BD	31-MAY-00	28	340.2
			FE	4.2	ppm	VK	09-JUN-00	180	6010
			HCO3	1084.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	217.	ppm	VK	09-JUN-00	180	6010
			MG	230.	ppm	VK	09-JUN-00	180	6010
			NA	1800.	ppm	BD	20-JUN-00	180	7770
			NO2/NO3	0.069	ppm	JN	19-MAY-00	28	353.2
			PB	0.013	ppm	CH	13-JUN-00	180	6020M
			PH	7.0	pH	DC	16-MAY-00	150.1	
			SE	0.069	ppm	CH	20-JUN-00	180	6020M
			SO4=	4587.	ppm	JN	01-JUN-00	28	9036
			TDS	8965.	ppm	BD	12-MAY-00	7	160.1
			TSS	244.	ppm	BD	12-MAY-00	160.2	
			ZN	0.033	ppm	CH	13-JUN-00	180	6020M
L000706-002	08-MAY-00	EPRI-0005-235	AS	3.7	ppm	CH	09-JUN-00	180	6010
			CA	531.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	803.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00	310.1	
			COND.	11420.	unthos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M	
			F-	5.5	ppm	BD	31-MAY-00	28	340.2
			FE	3.9	ppm	VK	09-JUN-00	180	6010
			HCO3	1070.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	222.	ppm	VK	09-JUN-00	180	6010
			MG	236.	ppm	VK	09-JUN-00	180	6010
			NA	1800.	ppm	BD	20-JUN-00	180	7770
			NO2/NO3	0.12	ppm	JN	19-MAY-00	28	353.2
			PB	0.010	ppm	CH	13-JUN-00	180	6020M

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-002	08-MAY-00	EPRI-0005-235	PH	7.0	pH	DC	16-MAY-00	150.1	
			SE	0.065	ppm	CH	20-JUN-00	180	6020M
			SO4=	4678.	ppm	JN	01-JUN-00	28	9036
			TDS	9096.	ppm	BD	12-MAY-00	7	160.1
			TSS	223.	ppm	BD	12-MAY-00		160.2
			ZN	0.034	ppm	CH	13-JUN-00	180	6020M
			AS	0.013	ppm	CH	13-JUN-00	180	6020M
			CA	465.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	811.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	8920.	unhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
L000706-003	08-MAY-00	EPRI-0005-129	CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	1.9	ppm	BD	31-MAY-00	28	340.2
			FE	0.51	ppm	VK	09-JUN-00	180	6010
			HCO3	420.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	20.	ppm	VK	09-JUN-00	180	6010
			MG	194.	ppm	VK	09-JUN-00	180	6010
			NA	1400.	ppm	BD	20-JUN-00	180	7770
			NO2/NO3	129.	ppm	JN	19-MAY-00	28	353.2
			PB	0.004	ppm	CH	13-JUN-00	180	6020M
			PH	7.4	pH	DC	16-MAY-00		150.1
			SE	0.32	ppm	CH	13-JUN-00	180	6020M
			SO4=	3060.	ppm	JN	01-JUN-00	28	9036
			TDS	7360.	ppm	BD	12-MAY-00	7	160.1
L000706-004	08-MAY-00	EPRI-0005-133	TSS	104.	ppm	BD	12-MAY-00		160.2
			ZN	0.021	ppm	CH	13-JUN-00	180	6020M
			AS	0.012	ppm	CH	13-JUN-00	180	6020M
			CA	320.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	471.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	6480.	unhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	2.2	ppm	BD	31-MAY-00	28	340.2

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Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-004	08-MAY-00	EPRI-0005-133	FE	0.12	ppm	VK	09-JUN-00	180	6010
			HCO3	573.	ppm	DC	16-MAY-00	14	310.1
			K	21.	ppm	VK	09-JUN-00	180	6010
			MG	133.	ppm	VK	09-JUN-00	180	6010
			NA	1100.	ppm	BD	20-JUN-00	180	7770
			NO2/NO3	25.	ppm	JN	19-MAY-00	28	353.2
			PE	<0.003	ppm	CH	13-JUN-00	180	6020M
			PH	7.6	pH	DC	16-MAY-00	150.1	
			SE	0.22	ppm	CH	13-JUN-00	180	6020M
			SO4=	2628.	ppm	JN	05-JUN-00	28	9036
			TDS	5124.	ppm	BD	12-MAY-00	7	160.1
			TSS	20.	ppm	BD	12-MAY-00	160.2	
			ZN	<0.020	ppm	CH	13-JUN-00	180	6020M
			AS	0.37	ppm	CH	13-JUN-00	180	6020M
			CA	108.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	198.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	DC	16-MAY-00	310.1	
			COND.	3000.	umhos/cm2	BD	15-MAY-00	28	120.1
L000706-005	08-MAY-00	EPRI-0005-125	CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M	
			F-	0.84	ppm	BD	31-MAY-00	28	340.2
			FE	1.2	ppm	VK	09-JUN-00	180	6010
			HCO3	1232.	ppm	DC	16-MAY-00	14	310.1
			K	19.	ppm	VK	09-JUN-00	180	6010
			MG	99.	ppm	VK	09-JUN-00	180	6010
			NA	518.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	0.068	ppm	JN	19-MAY-00	28	353.2
			PE	0.006	ppm	CH	13-JUN-00	180	6020M
			PH	7.6	pH	DC	16-MAY-00	150.1	
			SE	0.010	ppm	CH	20-JUN-00	180	6020M
			SO4=	228.	ppm	JN	01-JUN-00	28	9036
			TDS	1977.	ppm	BD	12-MAY-00	7	160.1
			TSS	31.	ppm	BD	12-MAY-00	160.2	
			ZN	<0.020	ppm	CH	13-JUN-00	180	6020M
			AS	0.062	ppm	CH	13-JUN-00	180	6020M
			CA	27.	ppm	VK	09-JUN-00	180	6010
L000706-006	08-MAY-00	EPRI-0005-109							

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Batch No: L000706

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-006	08-MAY-00	EPRI-0005-109	CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	685.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	4960.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	0.034	ppm	CH	13-JUN-00		6020M
			F-	7.2	ppm	BD	31-MAY-00	28	340.2
			FE	1.7	ppm	VK	09-JUN-00	180	6010
			HCO3	1570.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	301.	ppm	VK	09-JUN-00	180	6010
			MG	34.	ppm	VK	09-JUN-00	180	6010
			NA	942.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	0.060	ppm	JN	19-MAY-00	28	353.2
			PB	0.013	ppm	CH	13-JUN-00	180	6020M
			PH	8.1	pH	DC	16-MAY-00		150.1
			SE	0.025	ppm	CH	20-JUN-00	180	6020M
			SO4=	191.	ppm	JN	05-JUN-00	28	9036
			TDS	2873.	ppm	BD	12-MAY-00	7	160.1
			TSS	34.	ppm	BD	12-MAY-00		160.2
			ZN	0.28	ppm	CH	13-JUN-00	180	6020M
L000706-007	08-MAY-00	EPRI-0005-112	AS	0.028	ppm	CH	13-JUN-00	180	6020M
			CA	150.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	1086.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	5080.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	2.4	ppm	BD	31-MAY-00	28	340.2
			FE	0.14	ppm	VK	09-JUN-00	180	6010
			HCO3	1066.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	27.	ppm	VK	09-JUN-00	180	6010
			MG	45.	ppm	VK	09-JUN-00	180	6010
			NA	1062.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	0.11	ppm	JN	19-MAY-00	28	353.2
			PB	0.003	ppm	CH	13-JUN-00	180	6020M
			PH	7.6	pH	DC	16-MAY-00		150.1
			SE	0.013	ppm	CH	20-JUN-00	180	6020M

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L000706-007	08-MAY-00	EPRI-0005-112	SO4=	199.	ppm	JN	05-JUN-00	28	9036
			TDS	3025.	ppm	BD	12-MAY-00	7	160.1
			TSS	13.	ppm	BD	12-MAY-00		160.2
			ZN	<0.020	ppm	CH	13-JUN-00	180	6020M
L000706-008	08-MAY-00	EPRI-0005-113	AS	15.	ppm	CH	09-JUN-00	180	6010
			CA	137.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	969.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	6060.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	2.2	ppm	BD	31-MAY-00	28	340.2
			FE	2.2	ppm	VK	09-JUN-00	180	6010
			HCO3	1490.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	277.	ppm	VK	09-JUN-00	180	6010
			MG	30.	ppm	VK	09-JUN-00	180	6010
			NA	1079.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	0.17	ppm	JN	19-MAY-00	28	353.2
			PB	0.025	ppm	CH	13-JUN-00	180	6020M
			PH	7.6	pH	DC	16-MAY-00		150.1
			SE	0.44	ppm	CH	20-JUN-00	180	6020M
			SO4=	350.	ppm	JN	01-JUN-00	28	9036
L000706-009	08-MAY-00	EPRI-0005-236	TDS	3706.	ppm	BD	12-MAY-00	7	160.1
			TSS	855.	ppm	BD	12-MAY-00		160.2
			ZN	0.024	ppm	CH	13-JUN-00	180	6020M
			AS	<0.005	ppm	CH	13-JUN-00	180	6020M
			CA	<1.0	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	<1.0	ppm	JN	30-MAY-00	28	325.2
			CO3	4.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	22.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.92	ppm	BD	31-MAY-00	28	340.2
			FE	<0.10	ppm	VK	09-JUN-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	16-MAY-00	14	310.1

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Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-009	08-MAY-00	EPRI-0005-236	K	<5.0	ppm	VK	09-JUN-00	180	6010
			MG	<1.0	ppm	VK	09-JUN-00	180	6010
			NA	<5.0	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	<0.050	ppm	JN	19-MAY-00	28	353.2
			PB	<0.003	ppm	CH	13-JUN-00	180	6020M
			PH	8.8	pH	DC	16-MAY-00	150.1	
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	<2.0	ppm	JN	01-JUN-00	28	9036
			TDS	31.	ppm	BD	12-MAY-00	7	160.1
			TSS	<1.0	ppm	BD	12-MAY-00	7	160.2
			ZN	0.021	ppm	CH	13-JUN-00	180	6020M
			AS	2.0	ppm	CH	13-JUN-00	180	6020M
			CA	277.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	498.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00	310.1	
			COND.	5620.	umhos/cm2	BD	15-MAY-00	28	120.1
L000706-010	09-MAY-00	EPRI-0005-104	CR	0.017	ppm	CH	13-JUN-00	180	6020M
			CU	0.038	ppm	CH	13-JUN-00	180	6020M
			F-	0.87	ppm	BD	31-MAY-00	28	340.2
			FE	2.8	ppm	VK	09-JUN-00	180	6010
			HCO3	950.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	15.	ppm	VK	09-JUN-00	180	6010
			MG	112.	ppm	VK	09-JUN-00	180	6010
			NA	1158.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	5.9	ppm	JN	19-MAY-00	28	353.2
			PB	0.024	ppm	CH	13-JUN-00	180	6020M
			PH	7.5	pH	DC	16-MAY-00	150.1	
			SE	0.61	ppm	CH	13-JUN-00	180	6020M
			SO4=	1631.	ppm	JN	01-JUN-00	28	9036
			TDS	4147.	ppm	BD	12-MAY-00	7	160.1
			TSS	91.	ppm	BD	12-MAY-00	7	160.2
			ZN	0.032	ppm	CH	13-JUN-00	180	6020M
L000706-011	09-MAY-00	EPRI-0005-203	AS	0.75	ppm	CH	13-JUN-00	180	6020M
			CA	109.	ppm	VK	09-JUN-00	180	6010
			CD	0.11	ppm	CH	13-JUN-00	180	6020M
			CL-	298.	ppm	JN	30-MAY-00	28	325.2

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Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-011	09-MAY-00	EPRI-0005-203	CO3	69.	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1868.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	0.27	ppm	CH	13-JUN-00		6020M
			F-	2.4	ppm	BD	31-MAY-00	28	340.2
			FE	<0.10	ppm	VK	09-JUN-00	180	6010
			HCO3	41.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	12.	ppm	VK	09-JUN-00	180	6010
			MG	17.	ppm	VK	09-JUN-00	180	6010
			NA	307.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	0.060	ppm	JN	19-MAY-00	28	353.2
			PB	0.082	ppm	CH	13-JUN-00	180	6020M
			PH	9.3	pH	DC	16-MAY-00		150.1
			SE	0.035	ppm	CH	13-JUN-00	180	6020M
			SO4=	383.	ppm	JN	01-JUN-00	28	9036
			TDS	1227.	ppm	BD	12-MAY-00	7	160.1
			TSS	38.	ppm	BD	12-MAY-00		160.2
			ZN	0.15	ppm	CH	13-JUN-00	180	6020M
L000706-012	09-MAY-00	EPRI-0005-188	AS	0.007	ppm	CH	13-JUN-00	180	6020M
			CA	86.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	109.	ppm	JN	30-MAY-00	28	325.2
			CO3	12.	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1108.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.71	ppm	BD	31-MAY-00	28	340.2
			FE	2.0	ppm	VK	09-JUN-00	180	6010
			HCO3	176.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	9.6	ppm	VK	09-JUN-00	180	6010
			MG	19.	ppm	VK	09-JUN-00	180	6010
			NA	162.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	0.41	ppm	JN	19-MAY-00	28	353.2
			PB	0.006	ppm	CH	13-JUN-00	180	6020M
			PH	8.4	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	226.	ppm	JN	01-JUN-00	28	9036
			TDS	697.	ppm	BD	12-MAY-00	7	160.1

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El Paso

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Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L000706-012	09-MAY-00	EPRI-0005-188	TSS	106.	ppm	BD	12-MAY-00	160.2	160.2
			ZN	0.030	ppm	CH	13-JUN-00	180	6020M
			AS	0.007	ppm	CH	13-JUN-00	180	6020M
			CA	85.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	102.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00	310.1	310.1
			COND.	1120.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M	6020M
			F-	0.73	ppm	BD	31-MAY-00	28	340.2
			FE	1.7	ppm	VK	09-JUN-00	180	6010
			HCO3	184.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	10.	ppm	VK	09-JUN-00	180	6010
			MG	18.	ppm	VK	09-JUN-00	180	6010
			NA	171.	ppm	VK	09-JUN-00	180	6010
			NO2/NO3	0.47	ppm	JN	19-MAY-00	28	353.2
L000706-013	09-MAY-00	EPRI-0005-183	PB	0.007	ppm	CH	13-JUN-00	180	6020M
			PH	8.3	pH	DC	16-MAY-00	150.1	150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	227.	ppm	JN	01-JUN-00	28	9036
			TDS	723.	ppm	BD	12-MAY-00	7	160.1
			TSS	107.	ppm	BD	12-MAY-00	160.2	160.2
			ZN	0.030	ppm	CH	13-JUN-00	180	6020M
			AS	0.007	ppm	CH	13-JUN-00	180	6020M
			CA	85.	ppm	VK	09-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	115.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00	310.1	310.1
			COND.	1123.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M	6020M
			F-	0.73	ppm	BD	31-MAY-00	28	340.2
			FE	1.9	ppm	VK	09-JUN-00	180	6010
L000706-014	09-MAY-00	EPRI-0005-185	HCO3	185.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	9.5	ppm	VK	09-JUN-00	180	6010
			MG	18.	ppm	VK	09-JUN-00	180	6010

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Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
L000706-014	09-MAY-00	EPRI-0005-185	NA	168.	ppm	VK	09-JUN-00	180 6010
			NO2/NO3	0.67	ppm	JN	19-MAY-00	28 353.2
			PB	0.003	ppm	CH	13-JUN-00	180 6020M
			PH	8.3	pH	DC	16-MAY-00	150.1
			SE	<0.005	ppm	CH	13-JUN-00	180 6020M
			SO4=	225.	ppm	JN	01-JUN-00	28 9036
			TDS	722.	ppm	BD	12-MAY-00	7 160.1
			TSS	103.	ppm	BD	12-MAY-00	160.2
			ZN	0.029	ppm	CH	13-JUN-00	180 6020M
			AS	0.007	ppm	CH	13-JUN-00	180 6020M
			CA	80.	ppm	VK	10-JUN-00	180 6010
			CD	<0.005	ppm	CH	13-JUN-00	180 6020M
			CL-	98.	ppm	JN	30-MAY-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00	310.1
L000706-015	09-MAY-00	EPRI-0005-187	COND.	1122.	umhos/cm2	BD	15-MAY-00	28 120.1
			CR	<0.010	ppm	CH	13-JUN-00	180 6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M
			F-	0.72	ppm	BD	31-MAY-00	28 340.2
			FE	2.0	ppm	VK	10-JUN-00	180 6010
			HCO3	185.	ppm CaCO3	DC	16-MAY-00	14 310.1
			K	9.8	ppm	VK	10-JUN-00	180 6010
			MG	18.	ppm	VK	10-JUN-00	180 6010
			NA	146.	ppm	VK	10-JUN-00	180 6010
			NO2/NO3	0.59	ppm	JN	19-MAY-00	28 353.2
			PB	0.004	ppm	CH	13-JUN-00	180 6020M
			PH	8.3	pH	DC	16-MAY-00	150.1
			SE	<0.005	ppm	CH	13-JUN-00	180 6020M
			SO4=	210.	ppm	JN	01-JUN-00	28 9036
L000706-016	09-MAY-00	EPRI-0005-237	TDS	703.	ppm	BD	12-MAY-00	7 160.1
			TSS	108.	ppm	BD	12-MAY-00	160.2
			ZN	0.027	ppm	CH	13-JUN-00	180 6020M
			AS	0.007	ppm	CH	13-JUN-00	180 6020M
			CA	78.	ppm	VK	10-JUN-00	180 6010
			CD	<0.005	ppm	CH	13-JUN-00	180 6020M
			CL-	118.	ppm	JN	30-MAY-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00	310.1
			COND.	1124.	umhos/cm2	BD	15-MAY-00	28 120.1

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L000706-016	09-MAY-00	EPRI-0005-237	CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.72	ppm	BD	31-MAY-00	28	340.2
			PE	1.9	ppm	VK	10-JUN-00	180	6010
			HCO3	187.	ppm	DC	16-MAY-00	14	310.1
			K	9.1	ppm	VK	10-JUN-00	180	6010
			MG	18.	ppm	VK	10-JUN-00	180	6010
			NA	140.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	0.63	ppm	JN	19-MAY-00	28	353.2
			PB	<0.003	ppm	CH	13-JUN-00	180	6020M
			PH	8.3	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	218.	ppm	JN	01-JUN-00	28	9036
			TDS	700.	ppm	BD	12-MAY-00	7	160.1
			TSS	104.	ppm	BD	12-MAY-00		160.2
			ZN	0.022	ppm	CH	13-JUN-00	180	6020M
L000706-017	09-MAY-00	EPRI-0005-238	AS	<0.005	ppm	CH	13-JUN-00	180	6020M
			CA	<1.0	ppm	VK	10-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	<1.0	ppm	JN	30-MAY-00	28	325.2
			CO3	6.0	ppm	DC	16-MAY-00		310.1
			COND.	22.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			P-	0.94	ppm	BD	31-MAY-00	28	340.2
			WFE	<0.10	ppm	VK	10-JUN-00	180	6010
			HCO3	<1.0	ppm	DC	16-MAY-00	14	310.1
			K	<5.0	ppm	VK	10-JUN-00	180	6010
			MG	<1.0	ppm	VK	10-JUN-00	180	6010
			NA	<5.0	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	<0.050	ppm	JN	19-MAY-00	28	353.2
			PB	<0.003	ppm	CH	13-JUN-00	180	6020M
			PH	8.8	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	<2.0	ppm	JN	01-JUN-00	28	9036
			TDS	32.	ppm	BD	12-MAY-00	7	160.1
			TSS	<1.0	ppm	BD	12-MAY-00		160.2
			ZN	0.028	ppm	CH	13-JUN-00	180	6020M

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Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-018	10-MAY-00	EPRI-0005-189	AS	0.011	ppm	CH	13-JUN-00	180	6020M
			CA	74.	ppm	VK	10-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	190.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1446.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.79	ppm	BD	31-MAY-00	28	340.2
			FE	0.92	ppm	VK	10-JUN-00	180	6010
			HCO3	180.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	10.	ppm	VK	10-JUN-00	180	6010
			MG	16.	ppm	VK	10-JUN-00	180	6010
			NA	224.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	3.5	ppm	JN	19-MAY-00	28	353.2
			PB	0.026	ppm	CH	13-JUN-00	180	6020M
			PH	8.0	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	237.	ppm	JN	01-JUN-00	28	9036
			TDS	918.	ppm	BD	12-MAY-00	7	150.1
			TSS	58.	ppm	BD	12-MAY-00		160.2
			ZN	0.036	ppm	CH	13-JUN-00	180	6020M
L000706-019	10-MAY-00	EPRI-0005-186	AS	0.008	ppm	CH	13-JUN-00	180	6020M
			CA	78.	ppm	VK	10-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	113.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1122.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.72	ppm	BD	31-MAY-00	28	340.2
			FE	1.1	ppm	VK	10-JUN-00	180	6010
			HCO3	186.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	9.7	ppm	VK	10-JUN-00	180	6010
			MG	18.	ppm	VK	10-JUN-00	180	6010
			NA	146.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	0.24	ppm	JN	19-MAY-00	28	353.2
			PB	<0.003	ppm	CH	13-JUN-00	180	6020M

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Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	DA'S METHOD
L000706-019	10-MAY-00	EPRI-0005-186	PH	8.3	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	223.	ppm	JN	01-JUN-00	28	9036
			TDS	519.	ppm	BD	12-MAY-00	7	160.1
			TSS	58.	ppm	BD	12-MAY-00		160.2
			ZN	<0.020	ppm	CH	13-JUN-00	180	6020M
			AS	0.008	ppm	CH	13-JUN-00	180	6020M
			CA	78.	ppm	VK	10-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	103.	ppm	JN	30-MAY-00	28	325.2
			CO3	8.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1100.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
L000706-020	10-MAY-00	EPRI-0005-193	F-	0.72	ppm	BD	31-MAY-00	28	340.2
			FE	1.2	ppm	VK	10-JUN-00	180	6010
			HCO3	180.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	9.4	ppm	VK	10-JUN-00	180	6010
			MG	18.	ppm	VK	10-JUN-00	180	6010
			NA	142.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	0.23	ppm	JN	19-MAY-00	28	353.2
			PB	<0.003	ppm	CH	13-JUN-00	180	6020M
			PH	8.5	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	211.	ppm	JN	01-JUN-00	28	9036
			TDS	684.	ppm	BD	12-MAY-00	7	160.1
			TSS	62.	ppm	BD	12-MAY-00		160.2
			ZN	0.023	ppm	CH	13-JUN-00	180	6020M
L000706-021	10-MAY-00	EPRI-0005-192	AS	0.008	ppm	CH	13-JUN-00	180	6020M
			CA	76.	ppm	VK	10-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	108.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1092.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.71	ppm	BD	31-MAY-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	CHGS	
L000706-021	10-MAY-00	EPRI-0005-192	FE	1.2	ppm	VK	10-JUN-00	180	6010
			HCO3	180.	ppm	DC	16-MAY-00	14	310.1
			K	9.3	ppm	VK	10-JUN-00	180	6010
			MG	17.	ppm	VK	10-JUN-00	180	6010
			NA	133.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	0.27	ppm	JN	19-MAY-00	28	353.2
			PB	0.004	ppm	CH	13-JUN-00	180	6020M
			PH	8.2	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	223.	ppm	JN	01-JUN-00	28	9036
			TDS	688.	ppm	BD	12-MAY-00	7	160.1
			TSS	64.	ppm	BD	12-MAY-00		160.2
			ZN	0.027	ppm	CH	13-JUN-00	180	6020M
			AS	0.007	ppm	CH	13-JUN-00	180	6020M
			CA	77.	ppm	VK	10-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	103.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm	DC	16-MAY-00		310.1
			COND.	1086.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
L000706-022	10-MAY-00	EPRI-0005-184	CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.72	ppm	BD	31-MAY-00	28	340.2
			FE	1.2	ppm	VK	10-JUN-00	180	6010
			HCO3	180.	ppm	DC	16-MAY-00	14	310.1
			K	9.5	ppm	VK	10-JUN-00	180	6010
			MG	17.	ppm	VK	10-JUN-00	180	6010
			NA	131.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	0.33	ppm	JN	19-MAY-00	28	353.2
			PB	0.007	ppm	CH	13-JUN-00	180	6020M
			PH	8.3	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	211.	ppm	JN	01-JUN-00	28	9036
			TDS	694.	ppm	BD	12-MAY-00	7	160.1
			TSS	74.	ppm	BD	12-MAY-00		160.2
			ZN	0.028	ppm	CH	13-JUN-00	180	6020M
			AS	0.008	ppm	CH	13-JUN-00	180	6020M
			CA	79.	ppm	VK	10-JUN-00	180	6010
L000706-023	10-MAY-00	EPRI-0005-191	AS	0.008	ppm	CH	13-JUN-00	180	6020M
			CA	79.	ppm	VK	10-JUN-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L000706-023	10-MAY-00	EPRI-0005-191	CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	98.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1083.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.72	ppm	BD	31-MAY-00	28	340.2
			FE	1.4	ppm	VK	10-JUN-00	180	6010
			HCO3	179.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	10.	ppm	VK	10-JUN-00	180	6010
			MG	18.	ppm	VK	10-JUN-00	180	6010
			NA	137.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	0.32	ppm	JN	19-MAY-00	28	353.2
			PB	0.003	ppm	CH	13-JUN-00	180	6020M
			PH	8.3	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	217.	ppm	JN	01-JUN-00	28	9036
			TDS	687.	ppm	BD	12-MAY-00	7	160.1
			TSS	79.	ppm	BD	12-MAY-00		160.2
			ZN	0.024	ppm	CH	13-JUN-00	180	6020M
L000706-024	10-MAY-00	EPRI-0005-190	AS	0.009	ppm	CH	13-JUN-00	180	6020M
			CA	77.	ppm	VK	10-JUN-00	180	6010
			CD	<0.005	ppm	CH	13-JUN-00	180	6020M
			CL-	94.	ppm	JN	30-MAY-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	1076.	umhos/cm2	BD	15-MAY-00	28	120.1
			CR	<0.010	ppm	CH	13-JUN-00	180	6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	0.72	ppm	BD	31-MAY-00	28	340.2
			FE	1.4	ppm	VK	10-JUN-00	180	6010
			HCO3	180.	ppm CaCO3	DC	16-MAY-00	14	310.1
			K	9.7	ppm	VK	10-JUN-00	180	6010
			MG	17.	ppm	VK	10-JUN-00	180	6010
			NA	135.	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	6.1	ppm	JN	19-MAY-00	28	353.2
			PB	0.005	ppm	CH	13-JUN-00	180	6020M
			PH	8.3	pH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L000706-024	10-MAY-00	EPRI-0005-190	SO4=	215.	ppm	JN	01-JUN-00 28	9036
			TDS	685.	ppm	BD	12-MAY-00 7	160.1
			TSS	75.	ppm	BD	12-MAY-00	160.2
			ZN	0.026	ppm	CH	13-JUN-00 180	6020M
			AS	0.010	ppm	CH	13-JUN-00 180	6020M
			CA	78.	ppm	VK	10-JUN-00 180	6010
			CD	<0.005.	ppm	CH	13-JUN-00 180	6020M
			CL-	104.	ppm	JN	30-MAY-00 28	325.2
			CO3	12.	ppm CaCO3	DC	16-MAY-00	310.1
			COND.	1072.	umhos/cm2	BD	15-MAY-00 28	120.1
			CR	<0.010	ppm	CH	13-JUN-00 180	6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M
			F-	0.72	ppm	BD	31-MAY-00 28	340.2
			FE	1.2	ppm	VK	10-JUN-00 180	6010
L000706-025	10-MAY-00	EPRI-0005-239	HCO3	169.	ppm CaCO3	DC	16-MAY-00 14	310.1
			K	9.5	ppm	VK	10-JUN-00 180	6010
			MG	17.	ppm	VK	10-JUN-00 180	6010
			NA	138.	ppm	VK	10-JUN-00 180	6010
			NO2/NO3	0.18.	ppm	JN	19-MAY-00 28	353.2
			PE	0.006	ppm	CH	13-JUN-00 180	6020M
			PH	8.5	PH	DC	16-MAY-00	150.1
			SE	<0.005	ppm	CH	13-JUN-00 180	6020M
			SO4=	277.	ppm	JN	20-JUN-00 28	9036
			TDS	678.	ppm	BD	12-MAY-00 7	160.1
			TSS	78.	ppm	BD	12-MAY-00	160.2
			ZN	0.030	ppm	CH	13-JUN-00 180	6020M
			AS	<0.005	ppm	CH	13-JUN-00 180	6020M
			CA	<1.0	ppm	VK	10-JUN-00 180	6010
			CD	<0.005	ppm	CH	13-JUN-00 180	6020M
			CL-	<1.0	ppm	JN	30-MAY-00 28	325.2
			CO3	1.0	ppm CaCO3	DC	16-MAY-00	310.1
			COND.	22.	umhos/cm2	BD	15-MAY-00 28	120.1
			CR	<0.010	ppm	CH	13-JUN-00 180	6020M
			CU	<0.025	ppm	CH	13-JUN-00	6020M
L000706-026	10-MAY-00	EPRI-0005-240	F-	0.95	ppm	BD	31-MAY-00 28	340.2
			FE	<0.10	ppm	VK	10-JUN-00 180	6010
			HCO3	5.2	ppm CaCO3	DC	16-MAY-00 14	310.1
			AS	<0.005	ppm	CH	13-JUN-00 180	6020M
			CA	<1.0	ppm	VK	10-JUN-00 180	6010
			CD	<0.005	ppm	CH	13-JUN-00 180	6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L000706

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	CHG METHOD	
L000706-026	10-MAY-00	EPRI-0005-240	K	<5.0	ppm	VK	10-JUN-00	180	6010
			MG	<1.0	ppm	VK	10-JUN-00	180	6010
			NA	<5.0	ppm	VK	10-JUN-00	180	6010
			NO2/NO3	<0.050	ppm	JN	19-MAY-00	28	353.2
			PB	<0.003	ppm	CH	13-JUN-00	180	6020M
			PH	8.5	PH	DC	16-MAY-00		150.1
			SE	<0.005	ppm	CH	13-JUN-00	180	6020M
			SO4=	<2.0	ppm	JN	01-JUN-00	28	9036
			TDS	39.	ppm	RD	12-MAY-00	7	160.1
			TSS	<1.0	ppm	BD	12-MAY-00		160.2
			ZN	0.041	ppm	CH	13-JUN-00	180	6020M

PH is a field parameter therefore holding time cannot be met by the laboratory.
 Digestion Methods for totals --- 3010 and 6020M.
 For sample # L000706-025, holding time for sulfate exceeded.

Approved 
 Reviewed 

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000404

LAB NO	DATE COMPLETED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	HOLD DAYS	METHOD
WG000404-1		Matrix Spike	AS	109	%Recovery	CH	13-JUN-00		6020M
			CD	90	%Recovery	CH	13-JUN-00		6020M
			CL-	95	%Recovery	JN	30-MAY-00		325.2
			CR	100	%Recovery	CH	13-JUN-00		6020M
			CU	89	%Recovery	CH	13-JUN-00		6020M
			F-	103	%Recovery	BD	31-MAY-00		340.2
			FE	88	%Recovery	VK	10-JUN-00		6010
			NO2/NO3	105	%Recovery	JN	19-MAY-00		353.2
			PB	95	%Recovery	CH	13-JUN-00		6020M
			SE	105	%Recovery	CH	20-JUN-00		6020M
			SO4=	95	%Recovery	JN	01-JUN-00		9036
			ZN	84	%Recovery	CH	13-JUN-00		6020M
			AS	<0.005	ppm	CH	13-JUN-00		6020M
			CA	<1.0	ppm	VK	10-JUN-00		6010
			CD	<0.005	ppm	CH	13-JUN-00		6020M
			CL-	<1.0	ppm	JN	30-MAY-00		325.2
			CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	<5.0	umhos/cm2	BD	15-MAY-00		120.1
			CR	<0.010	ppm	CH	13-JUN-00		6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	<0.050	ppm	BD	31-MAY-00		340.2
WG000404-2		Prep Blank	FE	<0.10	ppm	VK	10-JUN-00		6010
			HCO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			K	<5.0	ppm	VK	10-JUN-00		6010
			MG	<1.0	ppm	VK	10-JUN-00		6010
			NA	<5.0	ppm	VK	10-JUN-00		6010
			NO2/NO3	<0.050	ppm	JN	19-MAY-00		353.2
			PB	<0.003	ppm	CH	13-JUN-00		6020M
			SE	<0.005	ppm	CH	20-JUN-00		6020M
			SO4=	<2.0	ppm	JN	01-JUN-00		9036
			TDS	<10	ppm	BD	12-MAY-00		160.1
			TSS	<1.0	ppm	BD	12-MAY-00		160.2
			ZN	<0.020	ppm	CH	13-JUN-00		6020M
			AS	118	%Recovery	CH	13-JUN-00		6020M
			CA	106	%Recovery	VK	10-JUN-00		6010
			CD	107	%Recovery	CH	13-JUN-00		6020M
			CL-	99	%Recovery	JN	30-MAY-00		325.2
WG000404-3		Lab Control Sample	AS	118	%Recovery	CH	13-JUN-00		6020M
			CA	106	%Recovery	VK	10-JUN-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000404

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000404-3		Lab Control Sample	COND.	106	\$Recovery	BD	15-MAY-00	120.1	
			CR	102	\$Recovery	CH	13-JUN-00	6020M	
			CU	105	\$Recovery	CH	13-JUN-00	6020M	
			F-	99	\$Recovery	BD	31-MAY-00	340.2	
			FE	98	\$Recovery	VK	10-JUN-00	6010	
			HCO3	95	\$Recovery	DC	16-MAY-00	310.1	
			K	100	\$Recovery	VK	10-JUN-00	6010	
			MG	100	\$Recovery	VK	10-JUN-00	6010	
			NA	102	\$Recovery	VK	10-JUN-00	6010	
			NO2/NO3	96	\$Recovery	JN	19-MAY-00	353.2	
			PB	107	\$Recovery	CH	13-JUN-00	6020M	
			SE	118	\$Recovery	CH	20-JUN-00	6020M	
			SO4=	99	\$Recovery	JN	01-JUN-00	9036	
			TDS	99	\$Recovery	BD	12-MAY-00	160.1	
			TSS	88	\$Recovery	BD	12-MAY-00	160.2	
			ZN	123	\$Recovery	CH	13-JUN-00	6020M	
			AS	<1	\$ RPD	CH	13-JUN-00	6020M	
			CA	1.8	\$ RPD	VK	10-JUN-00	6010	
			CD	<1	\$ RPD	CH	13-JUN-00	6020M	
			CL-	3.5	\$ RPD	JN	30-MAY-00	325.2	
			CO3	<1	\$ RPD	DC	16-MAY-00	310.1	
			COND.	<1	\$ RPD	BD	15-MAY-00	120.1	
			CR	<1	\$ RPD	CH	13-JUN-00	6020M	
			CU	<1	\$ RPD	CH	13-JUN-00	6020M	
			F-	<1	\$ RPD	BD	31-MAY-00	340.2	
			FE	<1	\$ RPD	VK	10-JUN-00	6010	
			HCO3	<1	\$ RPD	DC	16-MAY-00	310.1	
			K	1.8	\$ RPD	VK	10-JUN-00	6010	
WG000404-4		Duplicate	MG	2.6	\$ RPD	VK	10-JUN-00	6010	
			NA	1.8	\$ RPD	VK	10-JUN-00	6010	
			NO2/NO3	<1	\$ RPD	JN	19-MAY-00	353.2	
			PB	+/-prdl	\$ RPD	CH	13-JUN-00	6020M	
			SE	6.0	\$ RPD	CH	20-JUN-00	6020M	
			SO4=	1.9	\$ RPD	JN	01-JUN-00	9036	
			TDS	2.9	\$ RPD	BD	12-MAY-00	160.1	
			TSS	3.7	\$ RPD	BD	12-MAY-00	160.2	
			ZN	<1	\$ RPD	CH	13-JUN-00	6020M	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000404

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000404-5		Reporting Limit	AS	0.005	ppm				6020M
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020M
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020M
			CU	0.025	ppm				340.2
			F-	0.050	ppm				6010
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020M
			SE	0.005	ppm				6020M
			SO4=	2.0	ppm				9036
			TDS	1.0	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020M
WG000404-6		Matrix Spike	AS	90	%Recovery	CH	09-JUN-00		6010
			CD	110	%Recovery	CH	13-JUN-00		6020M
			CL-	103	%Recovery	JN	30-MAY-00		325.2
			CR	105	%Recovery	CH	13-JUN-00		6020M
			CU	101	%Recovery	CH	13-JUN-00		6020M
			F-	99	%Recovery	RD	31-MAY-00		340.2
			FE	106	%Recovery	VK	10-JUN-00		6010
			NO2/NO3	102	%Recovery	JN	19-MAY-00		353.2
			PB	96	%Recovery	CH	13-JUN-00		6020M
			SE	105	%Recovery	CH	13-JUN-00		6020M
			SO4=	103	%Recovery	JN	01-JUN-00		9036
			ZN	101	%Recovery	CH	13-JUN-00		6020M
WG000404-7		Prep Blank	AS	<0.020	ppm	CH	09-JUN-00		6010
			CA	<1.0	ppm	VK	10-JUN-00		6010
			CD	<0.005	ppm	CH	13-JUN-00		6020M
			CL-	<1.0	ppm	JN	30-MAY-00		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000404

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000404-7		Prep Blank	CO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			COND.	<5.0	umhos/cm2	BD	15-MAY-00		120.1
			CR	<0.010	ppm	CH	13-JUN-00		6020M
			CU	<0.025	ppm	CH	13-JUN-00		6020M
			F-	<0.050	ppm	BD	31-MAY-00		340.2
			FE	<0.10	ppm	VK	10-JUN-00		6010
			HCO3	<1.0	ppm CaCO3	DC	16-MAY-00		310.1
			K	<5.0	ppm	VK	10-JUN-00		6010
			MG	<1.0	ppm	VK	10-JUN-00		6010
			NA	<5.0	ppm	BD	20-JUN-00		7770
			NO2/NO3	<0.050	ppm	JN	19-MAY-00		353.2
			PB	<0.003	ppm	CH	13-JUN-00		6020M
			SE	<0.005	ppm	CH	13-JUN-00		6020M
			SO4=	<2.0	ppm	JN	01-JUN-00		9036
			TDS	<10.	ppm	BD	12-MAY-00		160.1
			TSS	<1.0	ppm	BD	12-MAY-00		160.2
			ZN	<0.020	ppm	CH	13-JUN-00		6020M
			AS	95	%Recovery	CH	09-JUN-00		6010
			CA	100	%Recovery	VK	10-JUN-00		6010
			CD	111	%Recovery	CH	13-JUN-00		6020M
WG000404-8		Lab Control Sample	CL-	98	%Recovery	JN	30-MAY-00		325.2
			COND.	106	%Recovery	BD	15-MAY-00		120.1
			CR	103	%Recovery	CH	13-JUN-00		6020M
			CU	108	%Recovery	CH	13-JUN-00		6020M
			F-	98	%Recovery	BD	31-MAY-00		340.2
			FE	95	%Recovery	VK	10-JUN-00		6010
			HCO3	98	%Recovery	VK	10-JUN-00		6010
			K	99	%Recovery	DC	16-MAY-00		310.1
			MG	97	%Recovery	VK	10-JUN-00		6010
			NA	100	%Recovery	VK	10-JUN-00		6010
			NO2/NO3	98	%Recovery	BD	20-JUN-00		7770
			PB	105	%Recovery	JN	19-MAY-00		353.2
			SE	110	%Recovery	CH	13-JUN-00		6020M
			SO4=	98	%Recovery	CH	13-JUN-00		6020M
			TDS	99	%Recovery	JN	01-JUN-00		9036
			TSS	91	%Recovery	BD	12-MAY-00		160.1
			ZN	125	%Recovery	BD	12-MAY-00		160.2
					%Recovery	CH	13-JUN-00		6020M

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000404

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000404-9		Duplicate	AS	1.9	% RPD	CH	09-JUN-00	6010	
			CA	<1	% RPD	VK	10-JUN-00	6010	
			CD	<1	% RPD	CH	13-JUN-00	6020M	
			CL-	10.	% RPD	JN	30-MAY-00	325.2	
			CO3	<1	% RPD	DC	16-MAY-00	310.1	
			COND.	<1	% RPD	BD	15-MAY-00	120.1	
			CR	<1	% RPD	CH	13-JUN-00	6020M	
			CU	<1	% RPD	CH	13-JUN-00	6020M	
			F-	1.3	% RPD	BD	31-MAY-00	340.2	
			FE	<1	% RPD	VK	10-JUN-00	6010	
			HCO3	<1	% RPD	DC	16-MAY-00	310.1	
			K	<1	% RPD	VK	10-JUN-00	6010	
			MG	<1	% RPD	VK	10-JUN-00	6010	
			NA	<1	% RPD	BD	20-JUN-00	7770	
			NO2/NO3	3.4	% RPD	JN	19-MAY-00	353.2	
			PB	<1	% RPD	CH	13-JUN-00	6020M	
			SE	<1	% RPD	CH	13-JUN-00	6020M	
			SO4=	2.4	% RPD	JN	01-JUN-00	9036	
			TDS	<1	% RPD	BD	12-MAY-00	160.1	
			TSS	7.8	% RPD	BD	12-MAY-00	160.2	
			ZN	+/-prdl	% RPD	CH	13-JUN-00	6020M	

Approved

Reviewed

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 CONTAINERS		ANALYSIS										REMARKS			
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTX	TPH								
5-8-00	1330			EPR1-0005-126	X			X											
	1335			EPR1-0005-235	X			X											
	1450			EPR1-0005-129	X			X											
	1405			EPR1-0005-133	X			X											
	1430			EPR1-0005-125	X			X											
	1520			EPR1-0005-109	X			X											
	1600			EPR1-0005-112	X			X											
	1620			EPR1-0005-113	X			X											
	1700			EPR1-0005-236	X			X											
5-9-00	1000			EPR1-0005-104	X			X											
	1045			EPR1-0005-203	X			X											
	1315			EPR1-0005-188	X			X											
	1330			EPR1-0005-183	X			X											
	1345			EPR1-0005-185	X			X											
5-10-00	1400			EPR1-0005-187	X			X											
Relinquished (Signature)		Received by: (Signature)		Date/Time		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS									
<i>[Signature]</i>		<i>[Signature]</i>		5/10/00 16:00		TX-560, UT				Other									
Relinquished (Signature)		Received by: (Signature)		Date/Time		Remarks				Air Bill #									
<i>[Signature]</i>		<i>[Signature]</i>																	
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits													
<i>[Signature]</i>		<i>[Signature]</i>				<input type="checkbox"/> QA/QC standard mixing instructions						<input checked="" type="checkbox"/> Cover letter							

IFORM-1-4/95

Return results & electronic copy to:

Split Samples:
☐ Accepted ☐ Declined

CHAIN OF CUSTODY RECORD

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

PROJ. NO. PROJECT NAME		NO. OF CONTAINERS	ANALYSIS										REMARKS
DATE	TIME		GRAB	COMP	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	
5-9-00	1405				EPR1-0005-237	X				X			
↓	1430				EPR1-0005-238	X				X			
5-10-00	820				EPR1-0005-189	X				X			
↓	845				EPR1-0005-186	X				X			
↓	915				EPR1-0005-193	X				X			
↓	930				EPR1-0005-192	X				X			
↓	1000				EPR1-0005-184	X				X			
↓	1015				EPR1-0005-191	X				X			
↓	1030				EPR1-0005-190	X				X			
↓	1035				EPR1-0005-239	X				X			
↓	1100				EPR1-0005-240	X				X			

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>[Signature]</i>	5/16/00 16:00		TSC - SCS, UT		Other
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks	Air Bill #	

Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
		<i>[Signature]</i>	5-11-00 9:15

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	
Return results & electronic copy to: Computer Dept. at 532-4897	

SECTION F-2

**LAB REPORTS FOR WATER SAMPLES,
SUMMER 2000**

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001238-001	01-AUG-00	EPRI-0008-100	AS	0.14	ppm	CH	06-SEP-00	180	6020
			CA	104.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	295.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1	
			COND.	2220.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	0.025	ppm	CH	06-SEP-00	6020	
			F-	0.94	ppm	EH	29-AUG-00	28	340.2
			FE	3.2	ppm	MK	05-SEP-00	180	6010
			HCO3	254.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	15.	ppm	MK	06-SEP-00	180	6010
			MG	29.	ppm	MK	05-SEP-00	180	6010
			NA	337.	ppm	MK	05-SEP-00	180	6010
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	28	353.2
			PB	0.016	ppm	CH	06-SEP-00	180	6020
			PH	8.2	pH	DC	11-AUG-00	150.1	
			SE	<0.005	ppm	CH	06-SEP-00	180	6020
			SO4=	457.	ppm	JN	09-AUG-00	28	9036
			TDS	1422.	ppm	BD	06-AUG-00	7	160.1
			TSS	77.	ppm	BD	06-AUG-00	160.2	
			ZN	0.025	ppm	CH	06-SEP-00	180	6020
L001238-002	01-AUG-00	EPRI-0008-101	AS	0.13	ppm	CH	06-SEP-00	180	6020
			CA	114.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	581.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1	
			COND.	4690.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	0.047	ppm	CH	06-SEP-00	6020	
			F-	2.4	ppm	EH	29-AUG-00	28	340.2
			FE	0.46	ppm	MK	05-SEP-00	180	6010
			HCO3	749.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	12.	ppm	MK	06-SEP-00	180	6010
			MG	47.	ppm	MK	05-SEP-00	180	6010
			NA	800.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	0.16	ppm	JN	29-AUG-00	28	353.2
			PB	0.017	ppm	CH	06-SEP-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DRYS METHOD
L001238-002	01-AUG-00	EPRI-0008-101	PH	8.0		DC	11-AUG-00	150.1
			SE	0.006	ppm	CH	06-SEP-00	180 6020
			SO4=	973.	ppm	JN	09-AUG-00	28 9036
			TDS	3171.	ppm	BD	06-AUG-00	7 160.1
			TSS	9.0	ppm	BD	06-AUG-00	160.2
			ZN	0.030	ppm	CH	06-SEP-00	180 6020
			AS	0.027	ppm	CH	06-SEP-00	180 6020
			CA	227.	ppm	MK	05-SEP-00	180 6010
			CD	<0.005	ppm	CH	06-SEP-00	180 6020
			CL-	593.	ppm	JN	18-AUG-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
			COND.	6060.	umhos/cm2	BD	08-AUG-00	28 120.1
L001238-003	01-AUG-00	EPRI-0008-102	CR	<0.010	ppm	CH	06-SEP-00	180 6020
			CU	<0.025	ppm	CH	06-SEP-00	6020
			F-	1.9	ppm	EH	29-AUG-00	28 340.2
			FE	<0.10	ppm	MK	05-SEP-00	180 6010
			HCO3	368.	ppm CaCO3	DC	11-AUG-00	14 310.1
			K	20.	ppm	MK	06-SEP-00	180 6010
			MG	76.	ppm	MK	05-SEP-00	180 6010
			NA	1000.	ppm	BD	13-SEP-00	180 273.1
			NO2/NO3	2.5	ppm	JN	28-AUG-00	28 353.2
			PH	0.023	ppm	CH	06-SEP-00	180 6020
			SE	8.1	ppm	DC	11-AUG-00	150.1
			SO4=	0.057	ppm	CH	06-SEP-00	180 6020
			TDS	2408.	ppm	JN	09-AUG-00	28 9036
			TSS	4481.	ppm	BD	06-AUG-00	7 160.1
			ZN	3.2	ppm	BD	06-AUG-00	160.2
				<0.020	ppm	CH	06-SEP-00	180 6020
			AS	0.069	ppm	CH	06-SEP-00	180 6020
			CA	62.	ppm	MK	05-SEP-00	180 6010
			CD	<0.005	ppm	CH	06-SEP-00	180 6020
			CL-	287.	ppm	JN	18-AUG-00	28 325.2
L001238-004	01-AUG-00	EPRI-0008-103	CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
			COND.	2610.	umhos/cm2	BD	08-AUG-00	28 120.1
			CR	<0.010	ppm	CH	06-SEP-00	180 6020
			CU	<0.025	ppm	CH	06-SEP-00	6020
			F-	2.3	ppm	EH	29-AUG-00	28 340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	CHMS	METHOD
L001238-004	01-AUG-00	EPRI-0008-103	FE	1.3	ppm	MK	05-SEP-00	180		6010
			HCO3	277.	ppm	DC	11-AUG-00	14		310.1
			K	6.3	ppm	MK	06-SEP-00	180		6010
			MG	20.	ppm	MK	05-SEP-00	180		6010
			NA	450.	ppm	BD	13-SEP-00	180		273.1
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	28		353.2
			PB	0.006	ppm	CH	06-SEP-00	180		6020
			PH	8.0	PH	DC	11-AUG-00			150.1
			SE	<0.005	ppm	CH	06-SEP-00	180		6020
			SO4=	633.	ppm	JN	09-AUG-00	28		9036
			TDS	1710.	ppm	BD	06-AUG-00	7		160.1
			TSS	5.9	ppm	BD	06-AUG-00			160.2
			ZN	0.020	ppm	CH	06-SEP-00	180		6020
			AS	0.077	ppm	CH	06-SEP-00	180		6020
			CA	61.	ppm	MK	05-SEP-00	180		6010
			CD	<0.005	ppm	CH	06-SEP-00	180		6020
			CL-	280.	ppm	JN	18-AUG-00	28		325.2
			CO3	<1.0	ppm	DC	11-AUG-00			310.1
			COND.	2600.	umhos/cm2	BD	08-AUG-00	28		120.1
			CR	<0.010	ppm	CH	06-SEP-00	180		6020
L001238-005	01-AUG-00	EPRI-0008-219	CU	<0.025	ppm	CH	06-SEP-00			6020
			F-	2.2	ppm	EH	29-AUG-00	28		340.2
			FE	1.4	ppm	MK	05-SEP-00	180		6010
			HCO3	276.	ppm	DC	11-AUG-00	14		310.1
			K	6.3	ppm	MK	06-SEP-00	180		6010
			MG	20.	ppm	MK	05-SEP-00	180		6010
			NA	450.	ppm	BD	13-SEP-00	180		273.1
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	28		353.2
			PB	<0.005	ppm	CH	06-SEP-00	180		6020
			PH	8.1	PH	DC	11-AUG-00			150.1
			SE	<0.005	ppm	CH	06-SEP-00	180		6020
			SO4=	710.	ppm	JN	08-AUG-00	28		9036
			TDS	2437.	ppm	BD	06-AUG-00	7		160.1
			TSS	5.5	ppm	BD	06-AUG-00			160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180		6020
			AS	<0.005	ppm	CH	06-SEP-00	180		6020
			CA	<1.0	ppm	MK	05-SEP-00	180		6010
L001238-006	01-AUG-00	EPRI-0008-220								

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001238-006	01-AUG-00	EPRI-0008-220	CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	<1.0	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	<0.050	ppm	EH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	<2.0	ppm	MK	06-SEP-00	180	6010
			MG	<1.0	ppm	MK	05-SEP-00	180	6010
			NA	<5.0	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	28	353.2
			PB	0.011	ppm	CH	06-SEP-00	180	6020
			PH	5.7	pH	DC	11-AUG-00		150.1
			SE	<0.005	ppm	CH	06-SEP-00	180	6020
			SO4=	<2.0	ppm	JN	08-AUG-00	28	9036
			TDS	<10.	ppm	BD	06-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	06-AUG-00		160.2
			ZN	0.023	ppm	CH	06-SEP-00	180	6020
			AS	0.76	ppm	CH	06-SEP-00	180	6020
			CA	421.	ppm	MK	05-SEP-00	180	6010
			CD	0.047	ppm	CH	06-SEP-00	180	6020
			CL-	735.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
			COND.	9570.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010.	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
L001238-007	02-AUG-00	EPRI-0008-108	F-	1.9	ppm	EH	29-AUG-00	28	340.2
			FE	0.72	ppm	MK	05-SEP-00	180	6010
			HCO3	275.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	48.	ppm	MK	06-SEP-00	180	6010
			MG	232.	ppm	MK	05-SEP-00	180	6010
			NA	1600.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	116.	ppm	JN	28-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	7.7	pH	DC	11-AUG-00		150.1
			SE	0.30	ppm	CH	06-SEP-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
L001238-007	02-AUG-00	EPRI-0008-108	SO4=	4796.	ppm	JN	09-AUG-00	28 9036
			TDS	8056.	ppm	BD	06-AUG-00	7 160.1
			TSS	42.	ppm	BD	06-AUG-00	160.2
			ZN	0.036	ppm	CH	06-SEP-00	180 6020
			AS	0.62	ppm	CH	06-SEP-00	180 6020
			CA	379.	ppm	MK	05-SEP-00	180 6010
			CD	<0.005	ppm	CH	06-SEP-00	180 6020
			CL-	497.	ppm	JN	18-AUG-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
			COND.	6540.	umhos/cm2	BD	08-AUG-00	28 120.1
L001238-008	02-AUG-00	EPRI-0008-116	CR	0.036	ppm	CH	06-SEP-00	180 6020
			CU	<0.025	ppm	CH	06-SEP-00	6020
			F-	0.98	ppm	EH	29-AUG-00	28 340.2
			FE	1.9	ppm	MK	05-SEP-00	180 6010
			HCO3	493.	ppm CaCO3	DC	11-AUG-00	14 310.1
			K	17.	ppm	MK	06-SEP-00	180 6010
			MG	130.	ppm	MK	05-SEP-00	180 6010
			NA	900.	ppm	BD	13-SEP-00	180 273.1
			NO2/NO3	59.	ppm	JN	28-AUG-00	28 353.2
			PB	0.011	ppm	CH	06-SEP-00	180 6020
			PH	7.8	pH	DC	11-AUG-00	150.1
			SE	1.1	ppm	CH	06-SEP-00	180 6020
			SO4=	2796.	ppm	JN	08-AUG-00	28 9036
			TDS	5323.	ppm	BD	06-AUG-00	7 160.1
			TSS	136.	ppm	BD	06-AUG-00	160.2
			ZN	0.039	ppm	CH	06-SEP-00	180 6020
			AS	0.28	ppm	CH	06-SEP-00	180 6020
			CA	66.	ppm	MK	05-SEP-00	180 6010
			CD	<0.005	ppm	CH	06-SEP-00	180 6020
L001238-009	02-AUG-00	EPRI-0008-115	CL-	310.	ppm	JN	18-AUG-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
			COND.	3180.	umhos/cm2	BD	08-AUG-00	28 120.1
			CR	0.010	ppm	CH	06-SEP-00	180 6020
			CU	<0.025	ppm	CH	06-SEP-00	6020
			F-	3.1	ppm	EH	29-AUG-00	28 340.2
			FE	13.	ppm	MK	05-SEP-00	180 6010
			HCO3	365.	ppm CaCO3	DC	11-AUG-00	14 310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLD DAYS	METHOD
L001238-009	02-AUG-00	EPRI-0008-115	K	19.	ppm	MK	06-SEP-00	180	6010
			MG	19.	ppm	MK	05-SEP-00	180	6010
			NA	600.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	3.9	ppm	JN	28-AUG-00	28	353.2
			PB	0.009	ppm	CH	06-SEP-00	180	6020
			PH	8.3	pH	DC	11-AUG-00		150.1
			SE	0.13	ppm	CH	06-SEP-00	180	6020
			SO4=	993.	ppm	JN	08-AUG-00	28	9036
			TDS	2115.	ppm	BD	06-AUG-00	7	160.1
			TSS	905.	ppm	BD	06-AUG-00		160.2
			ZN	0.042	ppm	CH	06-SEP-00	180	6020
			AS	0.007	ppm	CH	06-SEP-00	180	6020
			CA	135.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	354.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	11-AUG-00		310.1
			COND.	2900.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	0.78	ppm	EH	29-AUG-00	28	340.2
L001238-010	02-AUG-00	EPRI-0008-174	FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	236.	ppm	DC	11-AUG-00	14	310.1
			K	19.	ppm	MK	06-SEP-00	180	6010
			MG	57.	ppm	MK	05-SEP-00	180	6010
			NA	350.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	7.7	ppm	JN	28-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	8.1	pH	DC	11-AUG-00		150.1
			SE	0.017	ppm	CH	06-SEP-00	180	6020
			SO4=	805.	ppm	JN	08-AUG-00	28	9036
			TDS	1985.	ppm	BD	06-AUG-00	7	160.1
			TSS	1.4	ppm	BD	06-AUG-00		160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	<0.005	ppm	CH	06-SEP-00	180	6020
			CA	139.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	334.	ppm	JN	18-AUG-00	28	325.2
L001238-011	02-AUG-00	EPRI-0008-155	AS	<0.005	ppm	CH	06-SEP-00	180	6020
			CA	139.	ppm	MK	05-SEP-00	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	REMARKS
L001238-011	02-AUG-00	EPRI-0008-155	CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1	
			COND.	2900.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	0.77	ppm	EH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	228.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	16.	ppm	MK	06-SEP-00	180	6010
			MG	55.	ppm	MK	05-SEP-00	180	6010
			NA	350.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	7.9	ppm	JN	29-AUG-00	28	353.2
			PB	0.019	ppm	CH	06-SEP-00	180	6020
			PH	8.1	pH	DC	11-AUG-00		150.1
			SE	0.017	ppm	CH	06-SEP-00	180	6020
			SO4=	796.	ppm	JN	08-AUG-00	28	9036
			TDS	1995.	ppm	BD	06-AUG-00	7	160.1
			TSS	2.0	ppm	BD	06-AUG-00		160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
L001238-012	02-AUG-00	EPRI-0008-135	AS	0.010	ppm	CH	06-SEP-00	180	6020
			CA	373.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	366.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
			COND.	4300.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	05-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	0.73	ppm	EH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	203.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	12.	ppm	MK	06-SEP-00	180	6010
			MG	112.	ppm	MK	05-SEP-00	180	6010
			NA	400.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	16.	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	7.9	pH	DC	11-AUG-00		150.1
			SE	0.094	ppm	CH	06-SEP-00	180	6020
			SO4=	2067.	ppm	JN	08-AUG-00	28	9036
			TDS	3611.	ppm	BD	06-AUG-00	7	160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001238-012	02-AUG-00	EPRI-0008-135	TSS	1.6	ppm	BD	06-AUG-00	160.2	
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	0.011	ppm	CH	06-SEP-00	180	6020
			CA	363.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	382.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	11-AUG-00	310.1	
			COND.	4300.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00	6020	
			F-	0.77	ppm	EH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	202.	ppm	DC	11-AUG-00	14	310.1
			K	11.	ppm	MK	06-SEP-00	180	6010
			MG	107.	ppm	MK	05-SEP-00	180	6010
			NA	400.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	16.	ppm	JN	29-AUG-00	28	353.2
			PB	0.009	ppm	CH	06-SEP-00	180	6020
			PH	7.7	pH	DC	11-AUG-00	150.1	
			SE	0.097	ppm	CH	06-SEP-00	180	6020
			SO4=	1848.	ppm	JN	09-AUG-00	28	9036
			TDS	3638.	ppm	BD	06-AUG-00	7	160.1
			TSS	1.3	ppm	BD	06-AUG-00	160.2	
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	<0.005	ppm	CH	06-SEP-00	180	6020
			CA	212.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	549.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	11-AUG-00	310.1	
			COND.	4580.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00	6020	
			F-	0.69	ppm	EH	29-AUG-00	28	340.2
			FE	0.47	ppm	MK	05-SEP-00	180	6010
			HCO3	221.	ppm	DC	11-AUG-00	14	310.1
			K	12.	ppm	MK	06-SEP-00	180	6010
			MG	93.	ppm	MK	05-SEP-00	180	6010

L001238-014 02-AUG-00 EPRI-0008-136

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DAYS	METHOD
L001238-014	02-AUG-00	EPRI-0008-136	NA	600.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	39.	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	7.9	pH	DC	11-AUG-00		150.1
			SE	0.23	ppm	CH	06-SEP-00	180	6020
			SO4=	1492.	ppm	JN	09-AUG-00	28	9036
			TDS	3331.	ppm	BD	06-AUG-00	7	160.1
			TSS	18.	ppm	BD	06-AUG-00		160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	0.006	ppm	CH	06-SEP-00	180	6020
			CA	210.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	355.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
L001238-015	02-AUG-00	EPRI-0008-170	COND.	4700.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	0.85	ppm	EH	29-AUG-00	28	340.2
			FE	0.43	ppm	MK	05-SEP-00	180	6010
			HCO3	240.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	14.	ppm	MK	06-SEP-00	180	6010
			MG	96.	ppm	MK	05-SEP-00	180	6010
			NA	650.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	10.	ppm	JN	29-AUG-00	28	353.2
			PB	0.006	ppm	CH	06-SEP-00	180	6020
			PH	8.1	pH	DC	11-AUG-00		150.1
			SE	0.11	ppm	CH	06-SEP-00	180	6020
			SO4=	1780.	ppm	JN	09-AUG-00	28	9036
L001238-016	02-AUG-00	EPRI-0008-222	TDS	3647.	ppm	BD	06-AUG-00	7	160.1
			TSS	6.8	ppm	BD	06-AUG-00		160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	<0.005	ppm	CH	06-SEP-00	180	6020
			CA	<1.0	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	<1.0	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-AUG-00	28	120.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001238-016	02-AUG-00	EPRI-0008-222	CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	<0.050	ppm	EH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	<1.0	ppm	DC	11-AUG-00	14	310.1
			K	<2.0	ppm	CaCO3	06-SEP-00	180	6010
			MG	<1.0	ppm	MK	05-SEP-00	180	6010
			NA	<5.0	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	5.8	pH	DC	11-AUG-00		150.1
			SE	<0.005	ppm	CH	06-SEP-00	180	6020
			SO4=	<2.0	ppm	JN	08-AUG-00	28	9036
			TDS	<10.	ppm	BD	06-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	06-AUG-00		160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
L001238-017	03-AUG-00	EPRI-0008-138	AS	0.11	ppm	CH	06-SEP-00	180	6020
			CA	295.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	450.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	11-AUG-00		310.1
			COND.	5780.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	0.84	ppm	EH	29-AUG-00	28	340.2
			FE	0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	234.	ppm	DC	11-AUG-00	14	310.1
			K	16.	ppm	MK	06-SEP-00	180	6010
			MG	137.	ppm	MK	05-SEP-00	180	6010
			NR	700.	ppm	BD	13-SEP-00	180	273.1
			NO2/NO3	78.	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	8.0	pH	DC	11-AUG-00		150.1
			SE	0.21	ppm	CH	06-SEP-00	180	6020
			SO4=	2152.	ppm	JN	09-AUG-00	28	9036
			TDS	4632.	ppm	BD	06-AUG-00	7	160.1
			TSS	1.2	ppm	BD	06-AUG-00		160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020

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L001238-018	03-AUG-00	EPRI-0008-223	AS	0.11	ppm	CH	06-SEP-00	180	6020
			CA	283.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	475.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1	
			COND.	5810.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00	6020	
			F-	0.85	ppm	EH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	235.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	15.	ppm	MK	06-SEP-00	180	6010
			MG	130.	ppm	MK	05-SEP-00	180	6010
			NA	759.	ppm	MK	05-SEP-00	180	6010
			NO2/NO3	70.	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	8.0	pH	DC	11-AUG-00	150.1	
			SE	0.21	ppm	CH	06-SEP-00	180	6020
			SO4=	2233.	ppm	JN	09-AUG-00	28	9036
			TDS	4600.	ppm	BD	06-AUG-00	7	160.1
			TSS	1.6	ppm	BD	06-AUG-00	160.2	
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
L001238-019	03-AUG-00	EPRI-0008-137	AS	0.56	ppm	CH	06-SEP-00	180	6020
			CA	245.	ppm	MK	05-SEP-00	180	6010
			CD	0.006	ppm	CH	06-SEP-00	180	6020
			CL-	576.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1	
			COND.	6050.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00	6020	
			F-	0.99	ppm	EH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	219.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	17.	ppm	MK	06-SEP-00	180	6010
			MG	125.	ppm	MK	05-SEP-00	180	6010
			NA	859.	ppm	MK	05-SEP-00	180	273.1
			NO2/NO3	51.	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	ANALYSIS METHOD
L001238-019	03-AUG-00	EPRI-0008-137	PH	7.9	pH	DC	11-AUG-00		150.1
			SE	0.19	ppm	CH	06-SEP-00	180	6020
			SO4=	2406.	ppm	JN	09-AUG-00	28	9036
			TDS	4624.	ppm	BD	06-AUG-00	7	160.1
			TSS	3.6	ppm	BD	06-AUG-00		160.2
			ZN	0.12	ppm	CH	06-SEP-00	180	6020
			AS	<0.050*	ppm	CH	06-SEP-00	180	6020
			CA	245.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	464.	ppm	JN	18-AUG-00	28	325.2
L001238-020	03-AUG-00	EPRI-0008-139	CO3	<1.0	ppm	DC	11-AUG-00		310.1
			COND.	7540.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	1.2	ppm	EH	29-AUG-00	28	340.2
			FE	0.19	ppm	MK	05-SEP-00	180	6010
			HCO3	288.	ppm	DC	11-AUG-00	14	310.1
			K	16.	ppm	MK	06-SEP-00	180	6010
			Mg	234.	ppm	MK	05-SEP-00	180	6010
			NA	1227.	ppm	MK	05-SEP-00	180	273.1
			NO2/NO3	41.	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	8.1	pH	DC	11-AUG-00		150.1
			SE	6.0	ppm	CH	06-SEP-00	180	6020
			SO4=	3559.	ppm	JN	09-AUG-00	28	9036
			TDS	6394.	ppm	BD	06-AUG-00	7	160.1
			TSS	3.8	ppm	BD	06-AUG-00		160.2
			ZN	0.044	ppm	CH	06-SEP-00	180	6020
L001238-021	03-AUG-00	EPRI-0008-197	AS	<0.005	ppm	CH	06-SEP-00	180	6020
			CA	314.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	2937.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	11-AUG-00		310.1
			COND.	9640.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	1.2	ppm	EH	29-AUG-00	28	340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	DATE	MOID
L001238-021	03-AUG-00	EPRI-0008-197	FE	0.12	ppm	MK	05-SEP-00	180	6010
			HCO3	126.	ppm	DC	11-AUG-00	14	310.1
			K	26.	ppm	MK	06-SEP-00	180	6010
			MG	138.	ppm	MK	05-SEP-00	180	6010
			NA	1215.	ppm	MK	05-SEP-00	180	273.1
			NO2/NO3	0.20	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	8.0	pH	DC	11-AUG-00	180	150.1
			SE	0.006	ppm	CH	06-SEP-00	180	6020
			SO4=	430.	ppm	JN	09-AUG-00	28	9036
			TDS	6014.	ppm	BD	06-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	06-AUG-00	160.2	160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	<0.005	ppm	CH	06-SEP-00	180	6020
			CA	<1.0	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	<1.0	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	11-AUG-00	310.1	310.1
			COND.	<5.0	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00	6020	6020
L001238-022	03-AUG-00	EPRI-0008-224	F-	<0.050	ppm	BH	29-AUG-00	28	340.2
			FE	<0.10	ppm	MK	05-SEP-00	180	6010
			HCO3	<1.0	ppm	DC	11-AUG-00	14	310.1
			K	<2.0	ppm	MK	06-SEP-00	180	6010
			MG	<1.0	ppm	MK	05-SEP-00	180	6010
			NA	<5.0	ppm	MK	05-SEP-00	180	273.1
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	6.0	pH	DC	11-AUG-00	150.1	150.1
			SE	0.006	ppm	CH	06-SEP-00	180	6020
			SO4=	<2.0	ppm	JN	09-AUG-00	28	9036
			TDS	<10.	ppm	BD	06-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	06-AUG-00	160.2	160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	0.022	ppm	CH	06-SEP-00	180	6020
			CA	364.	ppm	MK	05-SEP-00	180	6010
L001238-023	03-AUG-00	EPRI-0008-171	AS	0.022	ppm	CH	06-SEP-00	180	6020
			CA	364.	ppm	MK	05-SEP-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD ANALYZED	DAYS METHOD
L001238-023	03-AUG-00	EPRI-0008-171	CD	<0.005	ppm	CH	06-SEP-00	180
			CL-	898.	ppm	JN	18-AUG-00	28
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
			COND.	6190.	umhos/cm2	BD	08-AUG-00	28
			CR	<0.010	ppm	CH	06-SEP-00	180
			CU	<0.025	ppm	CH	06-SEP-00	6020
			F-	1.0	ppm	EH	29-AUG-00	28
			FE	<0.10	ppm	MK	05-SEP-00	180
			HCO3	164.	ppm CaCO3	DC	11-AUG-00	14
			K	18.	ppm	MK	06-SEP-00	180
			MG	171.	ppm	MK	05-SEP-00	180
			NA	784.	ppm	MK	05-SEP-00	6010
			NO2/NO3	86.	ppm	JN	29-AUG-00	28
			PB	<0.005	ppm	CH	06-SEP-00	180
			PH	7.9	pH	DC	11-AUG-00	150.1
			SE	0.43	ppm	CH	06-SEP-00	180
			SO4=	1752.	ppm	JN	09-AUG-00	28
			TDS	4730.	ppm	BD	06-AUG-00	7
			TSS	<1.0	ppm	BD	06-AUG-00	160.1
			ZN	0.024	ppm	CH	06-SEP-00	160.2
					ppm	CH	06-SEP-00	6020
L001238-024	03-AUG-00	EPRI-0008-168	AS	0.082	ppm	CH	06-SEP-00	180
			CA	111.	ppm	MK	05-SEP-00	180
			CD	<0.005	ppm	CH	06-SEP-00	6010
			CL-	468.	ppm	JN	18-AUG-00	28
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
			COND.	4410.	umhos/cm2	BD	08-AUG-00	28
			CR	<0.010	ppm	CH	06-SEP-00	180
			CU	<0.025	ppm	CH	06-SEP-00	6020
			F-	2.2	ppm	EH	29-AUG-00	28
			FE	0.63	ppm	MK	05-SEP-00	340.2
			HCO3	324.	ppm CaCO3	DC	11-AUG-00	14
			K	20.	ppm	MK	06-SEP-00	6010
			MG	65.	ppm	MK	05-SEP-00	180
			NA	788.	ppm	MK	05-SEP-00	273.1
			NO2/NO3	11.	ppm	JN	29-AUG-00	28
			PB	0.008	ppm	CH	06-SEP-00	353.2
			PH	8.1	pH	DC	11-AUG-00	6020
			SE	0.096	ppm	CH	06-SEP-00	150.1
					ppm	CH	06-SEP-00	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001238-024	03-AUG-00	EPRI-0008-168	SO4=	1386.	ppm	JN	09-AUG-00	28	9036
			TDS	3038.	ppm	BD	06-AUG-00	7	160.1
			TSS	27.	ppm	BD	06-AUG-00		160.2
			ZN	0.026	ppm	CH	06-SEP-00	180	6020
			AS	0.007	ppm	CH	06-SEP-00	180	6020
			CA	190.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	478.	ppm	JN	18-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
			COND.	4650.	umhos/cm2	BD	08-AUG-00	28	120.1
L001238-025	03-AUG-00	EPRI-0008-107	CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	0.81	ppm	EH	29-AUG-00	28	340.2
			FE	1.7	ppm	MK	05-SEP-00	180	6010
			HCO3	294.	ppm CaCO3	DC	11-AUG-00	14	310.1
			K	11.	ppm	MK	06-SEP-00	180	6010
			MG	66.	ppm	MK	05-SEP-00	180	6010
			NA	725.	ppm	MK	05-SEP-00	180	273.1
			NO2/NO3	27.	ppm	JN	29-AUG-00	28	353.2
			PB	<0.005	ppm	CH	06-SEP-00	180	6020
			PH	8.0	pH	DC	11-AUG-00		150.1
			SE	0.14	ppm	CH	06-SEP-00	180	6020
			SO4=	1546.	ppm	JN	09-AUG-00	28	9036
			TDS	3377.	ppm	BD	06-AUG-00	7	160.1
			TSS	110.	ppm	BD	06-AUG-00		160.2
			ZN	<0.020	ppm	CH	06-SEP-00	180	6020
			AS	0.68	ppm	CH	06-SEP-00	180	6020
			CA	183.	ppm	MK	05-SEP-00	180	6010
			CD	<0.005	ppm	CH	06-SEP-00	180	6020
			CL-	436.	ppm	JN	18-AUG-00	28	325.2
L001238-026	03-AUG-00	EPRI-0008-196	CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
			COND.	4430.	umhos/cm2	BD	08-AUG-00	28	120.1
			CR	<0.010	ppm	CH	06-SEP-00	180	6020
			CU	<0.025	ppm	CH	06-SEP-00		6020
			F-	1.3	ppm	EH	29-AUG-00	28	340.2
			FE	0.61	ppm	MK	05-SEP-00	180	6010
			HCO3	270.	ppm CaCO3	DC	11-AUG-00	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001238

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L001238-026	03-AUG-00	EPRI-0008-196	K	14.	ppm	MK	06-SEP-00	180
			MG	67.	ppm	MK	05-SEP-00	180
			NA	667.	ppm	MK	05-SEP-00	180
			NO2/NO3	26.	ppm	JN	29-AUG-00	28
			PE	0.008	ppm	CH	06-SEP-00	180
			PH	7.9	PH	DC	11-AUG-00	150.1
			SE	0.098	ppm	CH	06-SEP-00	180
			SO4=	1548.	ppm	JN	09-AUG-00	28
			TDS	3230.	ppm	ED	06-AUG-00	7
			TSS	5.1	ppm	BD	06-AUG-00	160.1
			ZN	<0.020	ppm	CH	06-SEP-00	180
								6010
								6010
								273.1
								353.2
								6020
								6020
								9036
								160.1
								160.2
								6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
 Digestion Methods for totals --- 3010 and 6020.
 * = Detection Limit raised due to matrix interference.

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ASAPCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000854

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD DAYS METHOD
WG000854-1		Matrix Spike	AS	97	%Recovery	CH	06-SEP-00	6020
			CD	87	%Recovery	CH	06-SEP-00	6020
			CL-	93	%Recovery	JN	18-AUG-00	325.2
			CR	93	%Recovery	CH	06-SEP-00	6020
			CU	86	%Recovery	CH	06-SEP-00	6020
			F-	99	%Recovery	EH	29-AUG-00	340.2
			FE	89	%Recovery	MK	05-SEP-00	6010
			NO2/NO3	90	%Recovery	JN	28-AUG-00	353.2
			PB	87	%Recovery	CH	06-SEP-00	6020
			SE	91	%Recovery	CH	06-SEP-00	6020
			SO4=	110	%Recovery	JN	08-AUG-00	9036
			ZN	78	%Recovery	CH	06-SEP-00	6020
			AS	<0.005	ppm	CH	06-SEP-00	6020
			CA	<1.0	ppm	MK	05-SEP-00	6010
			CD	<0.005	ppm	CH	06-SEP-00	6020
			CL-	<1.0	ppm	JN	18-AUG-00	325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
WG000854-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	08-AUG-00	120.1
			CR	<0.010	ppm	CH	06-SEP-00	6020
			CU	<0.025	ppm	CH	06-SEP-00	6020
			F-	<0.10	ppm	EH	29-AUG-00	340.2
			FE	<0.10	ppm	MK	05-SEP-00	6010
			HCO3	<1.0	ppm CaCO3	DC	11-AUG-00	310.1
			K	<2.0	ppm	MK	06-SEP-00	6010
			MG	<1.0	ppm	MK	05-SEP-00	6010
			NA	<5.0	ppm	BD	13-SEP-00	273.1
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	353.2
			PB	<0.003	ppm	CH	06-SEP-00	6020
			SE	<0.005	ppm	CH	06-SEP-00	6020
			SO4=	<2.0	ppm	JN	08-AUG-00	9036
			TDS	<10.	ppm	BD	06-AUG-00	160.1
			TSS	<1.0	ppm	BD	06-AUG-00	160.2
			ZN	<0.020	ppm	CH	06-SEP-00	6020
WG000854-3		Lab Control Sample	AS	101	%Recovery	CH	06-SEP-00	6020
			CA	93	%Recovery	MK	05-SEP-00	6010
			CD	99	%Recovery	CH	06-SEP-00	6020
			CL-	102	%Recovery	JN	18-AUG-00	325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000854

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000854-3		Lab Control Sample	COND.	98	% Recovery	BD	08-AUG-00	120.1	
			CR	103	% Recovery	CH	06-SEP-00	6020	
			CU	97	% Recovery	CH	06-SEP-00	6020	
			F-	100	% Recovery	EH	29-AUG-00	340.2	
			FE	98	% Recovery	MK	05-SEP-00	6010	
			HCO3	92	% Recovery	DC	11-AUG-00	310.1	
			K	95	% Recovery	MK	06-SEP-00	6010	
			MG	92	% Recovery	MK	05-SEP-00	6010	
			NA	100	% Recovery	BD	13-SEP-00	273.1	
			NO2/NO3	96	% Recovery	JN	28-AUG-00	353.2	
			PB	101	% Recovery	CH	06-SEP-00	6020	
			SE	107	% Recovery	CH	06-SEP-00	6020	
			SO4=	100	% Recovery	JN	08-AUG-00	9036	
			TDS	100	% Recovery	BD	06-AUG-00	160.1	
			TSS	100	% Recovery	BD	06-AUG-00	160.2	
			ZN	104	% Recovery	CH	06-SEP-00	6020	
			CL-	<1	% RPD	JN	18-AUG-00	325.2	
			CO3	<1	% RPD	DC	11-AUG-00	310.1	
			COND.	<1	% RPD	BD	08-AUG-00	120.1	
			F-	<1	% RPD	EH	29-AUG-00	340.2	
WG000854-4		Duplicate	HCO3	<1	% RPD	DC	11-AUG-00	310.1	
			NA	<1	% RPD	BD	13-SEP-00	273.1	
			NO2/NO3	2.6	% RPD	JN	28-AUG-00	353.2	
			SO4=	1.0	% RPD	JN	08-AUG-00	9036	
			TDS	1.1	% RPD	BD	06-AUG-00	160.1	
			TSS	15	% RPD	BD	06-AUG-00	160.2	
			AS	4.1	% RPD	CH	06-SEP-00	6020	
			CA	7.6	% RPD	MK	05-SEP-00	6010	
			CD	2.2	% RPD	CH	06-SEP-00	6020	
			CR	2.2	% RPD	CH	06-SEP-00	6020	
			CU	3.2	% RPD	CH	06-SEP-00	6020	
			FE	11	% RPD	MK	05-SEP-00	6010	
			K	7.7	% RPD	MK	06-SEP-00	6010	
			MG	8.2	% RPD	MK	05-SEP-00	6010	
			PB	<1	% RPD	CH	06-SEP-00	6020	
			SE	4.3	% RPD	CH	06-SEP-00	6020	
			ZN	4.0	% RPD	CH	06-SEP-00	6020	
WG000854-5		Matrix Spike Duplicate	AS	4.1	% RPD	CH	06-SEP-00	6020	
			CA	7.6	% RPD	MK	05-SEP-00	6010	
			CD	2.2	% RPD	CH	06-SEP-00	6020	
			CR	2.2	% RPD	CH	06-SEP-00	6020	
			CU	3.2	% RPD	CH	06-SEP-00	6020	
			FE	11	% RPD	MK	05-SEP-00	6010	
			K	7.7	% RPD	MK	06-SEP-00	6010	
			MG	8.2	% RPD	MK	05-SEP-00	6010	
			PB	<1	% RPD	CH	06-SEP-00	6020	
			SE	4.3	% RPD	CH	06-SEP-00	6020	
			ZN	4.0	% RPD	CH	06-SEP-00	6020	
					% RPD	CH	06-SEP-00	6020	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000854

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000854-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020
			CU	0.010	ppm				6020
			F-	0.10	ppm				340.2
			FE	0.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	5.0	ppm				273.1
			NO2/NO3	0.10	ppm				353.2
			PE	0.003	ppm				6020
			SE	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020
WG000854-7		Matrix Spike	AS	97	%Recovery	CH	06-SEP-00		6020
			CD	97	%Recovery	CH	06-SEP-00		6020
			CL-	98	%Recovery	JN	18-AUG-00		325.2
			CR	96	%Recovery	CH	06-SEP-00		6020
			CU	92	%Recovery	CH	06-SEP-00		6020
			F-	98	%Recovery	EH	29-AUG-00		340.2
			FE	93	%Recovery	MK	05-SEP-00		6010
			NO2/NO3	125	%Recovery	JN	28-AUG-00		353.2
			PB	100	%Recovery	CH	06-SEP-00		6020
			SE	97	%Recovery	CH	06-SEP-00		6020
			SO4=	102	%Recovery	JN	08-AUG-00		9036
			ZN	106	%Recovery	CH	06-SEP-00		6020
			CA	<1.0	ppm	MK	05-SEP-00		6010
			CL-	<1.0	ppm	JN	18-AUG-00		325.2
			CO3	<1.0	ppm CaCO3	DC	11-AUG-00		310.1
			COND.	<10.	umhos/cm2	BD	08-AUG-00		120.1
WG000854-8		Prep Blank	AS						
			CD						

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000854

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000854-8		Prep Blank	F-	<0.10	ppm	EH	29-AUG-00	340.2	
			FE	<0.10	ppm	MK	05-SEP-00	6010	
			HCO3	<1.0	ppm	DC	11-AUG-00	310.1	
			K	<2.0	ppm	MK	06-SEP-00	6010	
			MG	<1.0	ppm	MK	05-SEP-00	6010	
			NA	<5.0	ppm	MK	05-SEP-00	6010	
			NO2/NO3	<0.10	ppm	JN	28-AUG-00	353.2	
			SO4=	<2.0	ppm	JN	08-AUG-00	9036	
			TDS	<10.	ppm	BD	06-AUG-00	160.1	
			TSS	<1.0	ppm	BD	06-AUG-00	160.2	
			CA	85	%Recovery	MK	05-SEP-00	6010	
			CL-	95	%Recovery	JN	18-AUG-00	325.2	
			COND.	98	%Recovery	BD	08-AUG-00	120.1	
			F-	100	%Recovery	EH	29-AUG-00	340.2	
WG000854-9		Lab Control Sample	FE	90	%Recovery	MK	05-SEP-00	6010	
			K	95	%Recovery	MK	06-SEP-00	6010	
			MG	83	%Recovery	MK	05-SEP-00	6010	
			NA	101	%Recovery	MK	05-SEP-00	6010	
			NO2/NO3	104	%Recovery	JN	28-AUG-00	353.2	
			SO4=	100	%Recovery	JN	08-AUG-00	9036	
			TDS	99	%Recovery	BD	06-AUG-00	160.1	
			TSS	102	%Recovery	BD	06-AUG-00	160.2	
			AS	1.0	% RPD	CH	06-SEP-00	6020	
			CD	2.1	% RPD	CH	06-SEP-00	6020	
			CL-	1.1	% RPD	JN	18-AUG-00	325.2	
			CO3	<1	% RPD	DC	11-AUG-00	310.1	
			COND.	<1	% RPD	BD	08-AUG-00	120.1	
			CR	1.1	% RPD	CH	06-SEP-00	6020	
WG000854-10		Duplicate	CU	<1	% RPD	CH	06-SEP-00	6020	
			F-	<1	% RPD	EH	29-AUG-00	340.2	
			FE	2.7	% RPD	MK	05-SEP-00	6010	
			HCO3	<1	% RPD	DC	11-AUG-00	310.1	
			NO2/NO3	5.0	% RPD	JN	29-AUG-00	353.2	
			PH	4.1	% RPD	CH	06-SEP-00	6020	
			SE	2.0	% RPD	CH	06-SEP-00	6020	
			SO4=	1.6	% RPD	JN	08-AUG-00	9036	
			TDS	1.7	% RPD	BD	06-AUG-00	160.1	

ASARCO TECHNICAL SERVICES CENTER



ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000854

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000854-10		Duplicate	TSS	<1	% RPD	BD	06-AUG-00	160.2	
			ZN	11	% RPD	CH	06-SEP-00	6020	
WG000854-11		Matrix Spike Duplicate	CA	5.9	% RPD	MK	05-SEP-00	6010	
			K	2.6	% RPD	MK	06-SEP-00	6010	
			MG	5.9	% RPD	MK	05-SEP-00	6010	
			NA	<1	% RPD	MK	05-SEP-00	273.1	

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 Reviewed

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS										REMARKS
DATE	TIME	GRAB	COMP	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	
8-1-00	1345			EPR1-0008-100	X	X			X				
	1400			EPR1-0008-101	X	X			X				
	1430			EPR1-0008-102	X	X			X				
	1445			EPR1-0008-103	X	X			X				
	1450			EPR1-0008-219	X	X			X				
	1530			EPR1-0008-220	X	X			X				
8-2-00	845			EPR1-0008-108	X	X			X				
	915			EPR1-0008-110	X	X			X				
	930			EPR1-0008-115	X	X			X				
	1330			EPR1-0008-174	X	X			X				
	1350			EPR1-0008-155	X	X			X				
	1410			EPR1-0008-135	X	X			X				
	1415			EPR1-0008-221	X	X			X				
	1445			EPR1-0008-136	X	X			X				
	1515			EPR1-0008-170	X	X			X				
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		

Return results & electronic copy to:

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ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001279

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DAYS	METHOD
L001279-001	04-AUG-00	EPRI-0008-106	AS	1.3	ppm	MK	09-SEP-00	180		6010
			CA	314.	ppm	MK	09-SEP-00	180		6010
			CD	<0.005	ppm	CH	13-SEP-00	180		6020
			CL-	457.	ppm	JN	22-AUG-00	28		325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00			310.1
			COND.	5030.	umhos/cm2	BD	11-AUG-00	28		120.1
			CR	<0.010	ppm	CH	13-SEP-00	180		6020
			CU	<0.025	ppm	CH	13-SEP-00			6020
			F-	1.5	ppm	EH	31-AUG-00	28		340.2
			PE	0.28	ppm	MK	09-SEP-00	180		6010
			HCO3	302.	ppm CaCO3	DC	16-AUG-00	14		310.1
			K	44.	ppm	MK	09-SEP-00	180		6010
			MG	78.	ppm	MK	09-SEP-00	180		6010
			NA	665.	ppm	MK	09-SEP-00	28		353.2
			NO2/NO3	16.	ppm	JN	29-AUG-00			353.2
			PB	0.004	ppm	CH	13-SEP-00	180		6020
			PH	7.8	pH	DC	16-AUG-00			150.1
			SE	0.19	ppm	CH	14-SEP-00	180		6020
			SO4	1767.	ppm	JN	10-AUG-00	28		9036
			TDS	3791.	ppm	BD	10-AUG-00	7		160.1
			TSS	1.7	ppm	BD	10-AUG-00			160.2
			ZN	<0.020	ppm	CH	13-SEP-00	180		6020
L001279-002	04-AUG-00	EPRI-0008-225	AS	1.3	ppm	MK	09-SEP-00	180		6010
			CA	299.	ppm	MK	09-SEP-00	180		6010
			CD	<0.005	ppm	CH	13-SEP-00	180		6020
			CL-	425.	ppm	JN	22-AUG-00	28		325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00			310.1
			COND.	5030.	umhos/cm2	BD	11-AUG-00	28		120.1
			CR	<0.010	ppm	CH	13-SEP-00	180		6020
			CU	<0.025	ppm	CH	13-SEP-00			6020
			F-	1.6	ppm	EH	31-AUG-00	28		340.2
			PE	0.33	ppm	MK	09-SEP-00	180		6010
			HCO3	303.	ppm CaCO3	DC	16-AUG-00	14		310.1
			K	42.	ppm	MK	09-SEP-00	180		6010
			MG	75.	ppm	MK	09-SEP-00	180		6010
			NA	614.	ppm	MK	09-SEP-00	180		6010
			NO2/NO3	14.	ppm	JN	29-AUG-00	28		353.2
			PB	0.004	ppm	CH	13-SEP-00	180		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001279

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYSED	VOID	
L001279-002	04-AUG-00	EPRI-0008-225	PH	7.6	pH	DC	16-AUG-00	150.1	
			SE	0.19	ppm	CH	14-SEP-00	180	6020
			SO4=	2061.	ppm	JN	10-AUG-00	28	9036
			TDS	3915.	ppm	BD	10-AUG-00	7	160.1
			TSS	2.2	ppm	BD	10-AUG-00		160.2
			ZN	0.030	ppm	CH	13-SEP-00	180	6020
			AS	17.	ppm	MK	09-SEP-00	180	6010
			CA	195.	ppm	MK	09-SEP-00	180	6010
			CD	0.36	ppm	CH	13-SEP-00	180	6020
			CL-	617.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00		310.1
			COND.	7580.	umhos/cm2	BD	11-AUG-00	28	120.1
L001279-003	04-AUG-00	EPRI-0008-105	CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	0.030	ppm	CH	13-SEP-00		6020
			F-	1.3	ppm	EH	31-AUG-00	28	340.2
			FE	0.63	ppm	MK	09-SEP-00	180	6010
			HCO3	236.	ppm	DC	16-AUG-00	14	310.1
			K	39.	ppm	MK	09-SEP-00	180	6010
			MG	36.	ppm	MK	09-SEP-00	180	6010
			NA	1300.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	71.	ppm	JN	29-AUG-00	28	353.2
			PB	0.017	ppm	CH	13-SEP-00	180	6020
			PH	7.5	pH	DC	16-AUG-00		150.1
			SE	3.1	ppm	CH	14-SEP-00	180	6020
			SO4=	2878.	ppm	JN	10-AUG-00	28	9036
			TDS	5755.	ppm	BD	10-AUG-00	7	160.1
			TSS	8.3	ppm	BD	10-AUG-00		160.2
			ZN	0.034	ppm	CH	13-SEP-00	180	6020
			AS	6.8	ppm	MK	09-SEP-00	180	6010
			CA	185.	ppm	MK	09-SEP-00	180	6010
			CD	1.3	ppm	CH	13-SEP-00	180	6020
			CL-	832.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00		310.1
L001279-004	04-AUG-00	EPRI-0008-165	COND.	9460.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	0.026	ppm	CH	13-SEP-00		6020
			F-	1.6	ppm	EH	31-AUG-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001279

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-006	04-AUG-00	EPRI-0008-156	CD	0.010	ppm	CH	13-SEP-00	180	6020
			CL-	500.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	5030.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	0.50	ppm	EH	31-AUG-00	28	340.2
			FE	1.6	ppm	MK	09-SEP-00	180	6010
			HCO3	281.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	8.3	ppm	MK	09-SEP-00	180	6010
			MG	106.	ppm	MK	09-SEP-00	180	6010
			NA	712.	ppm	MK	09-SEP-00	180	6010
			NO2/NO3	29.	ppm	JN	29-AUG-00	28	353.2
			PB	0.003	ppm	CH	13-SEP-00	180	6020
			PH	8.1	pH	DC	16-AUG-00		150.1
			SE	1.2	ppm	CH	14-SEP-00	180	6020
			SO4=	1953.	ppm	JN	10-AUG-00	28	9036
			TDS	3853.	ppm	BD	10-AUG-00	7	160.1
			TSS	133.	ppm	BD	10-AUG-00		160.2
			ZN	<0.020	ppm	CH	13-SEP-00	180	6020
L001279-007	04-AUG-00	EPRI-0008-167	AS	0.023	ppm	CH	13-SEP-00	180	6020
			CA	59.	ppm	MK	09-SEP-00	180	6010
			CD	0.007	ppm	CH	13-SEP-00	180	6020
			CL-	169.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	1552.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	0.63	ppm	EH	31-AUG-00	28	340.2
			FE	0.28	ppm	MK	09-SEP-00	180	6010
			HCO3	135.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	4.0	ppm	MK	09-SEP-00	180	6010
			MG	18.	ppm	MK	09-SEP-00	180	6010
			NA	200.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	2.5	ppm	JN	29-AUG-00	28	353.2
			PB	<0.003	ppm	CH	13-SEP-00	180	6020
			PH	8.0	pH	DC	16-AUG-00		150.1
			SE	0.23	ppm	CH	14-SEP-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001279

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
L001279-007	04-AUG-00	EPRI-0008-167	SO4=	412.	ppm	JN	10-AUG-00	28 9036
			TDS	964.	ppm	BD	10-AUG-00	7 160.1
			TSS	4.2	ppm	BD	10-AUG-00	160.2
			ZN	<0.020	ppm	CH	13-SEP-00	180 6020
			AS	6.4	ppm	MK	09-SEP-00	180 6010
			CA	106.	ppm	MK	09-SEP-00	180 6010
			CD	0.007	ppm	CH	13-SEP-00	180 6020
			CL-	372.	ppm	JN	22-AUG-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1
			COND.	3940.	umhos/cm2	BD	11-AUG-00	28 120.1
L001279-008	04-AUG-00	EPRI-0008-143	CR	<0.010	ppm	CH	13-SEP-00	180 6020
			CU	<0.025	ppm	CH	13-SEP-00	6020
			F-	3.5	ppm	EH	31-AUG-00	28 340.2
			FE	3.7	ppm	MK	09-SEP-00	180 6010
			HCO3	291.	ppm CaCO3	DC	16-AUG-00	14 310.1
			K	17.	ppm	MK	09-SEP-00	180 6010
			MG	25.	ppm	MK	09-SEP-00	180 6010
			NA	700.	ppm	BD	21-SEP-00	180 273.1
			NO2/NO3	0.97	ppm	JN	29-AUG-00	28 353.2
			PB	0.008	ppm	CH	13-SEP-00	180 6020
			PH	8.1	pH	DC	16-AUG-00	150.1
			SE	0.015	ppm	CH	19-SEP-00	180 6020
			SO4=	1271.	ppm	JN	10-AUG-00	28 9036
			TDS	2707.	ppm	BD	10-AUG-00	7 160.1
			TSS	226.	ppm	BD	10-AUG-00	160.2
			ZN	0.022	ppm	CH	13-SEP-00	180 6020
			AS	0.027	ppm	CH	13-SEP-00	180 6020
			CA	54.	ppm	MK	09-SEP-00	180 6010
			CD	<0.005	ppm	CH	13-SEP-00	180 6020
			CL-	292.	ppm	JN	22-AUG-00	28 325.2
L001279-009	04-AUG-00	EPRI-0008-154	CO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1
			COND.	5290.	umhos/cm2	BD	11-AUG-00	28 120.1
			CR	<0.010	ppm	CH	13-SEP-00	180 6020
			CU	<0.025	ppm	CH	13-SEP-00	6020
			F-	2.1	ppm	EH	31-AUG-00	28 340.2
			FE	0.10	ppm	MK	09-SEP-00	180 6010
			HCO3	499.	ppm CaCO3	DC	16-AUG-00	14 310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001279

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L001279-009	04-AUG-00	EPRI-0008-154	K	3.9	ppm	MK	09-SEP-00	180	6010
			MG	34.	ppm	MK	09-SEP-00	180	6010
			NA	1000.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	2.8	ppm	JN	29-AUG-00	28	353.2
			PB	0.003	ppm	CH	13-SEP-00	180	6020
			PH	8.1	pH	DC	16-AUG-00		150.1
			SE	0.041	ppm	CH	19-SEP-00	180	6020
			SO4=	1633.	ppm	JN	10-AUG-00	28	9036
			TDS	3705.	ppm	BD	10-AUG-00	7	160.1
			TSS	3.4	ppm	BD	10-AUG-00		160.2
			ZN	<0.020	ppm	CH	13-SEP-00	180	6020
			AS	1.6	ppm	MK	09-SEP-00	180	6010
			CA	61.	ppm	MK	09-SEP-00	180	6010
			CD	0.006	ppm	CH	13-SEP-00	180	6020
			CL-	343.	ppm	JN	22-AUG-00	28	325.2
L001279-010	04-AUG-00	EPRI-0008-198	CO3	<1.0	ppm	DC	16-AUG-00		310.1
			COND.	2910.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	6.3	ppm	EH	15-SEP-00	28	340.2
			FE	0.83	ppm	EH	15-SEP-00	180	6010
			HCO3	145.	ppm	MK	09-SEP-00	14	310.1
			K	23.	ppm	DC	16-AUG-00	180	6010
			MG	14.	ppm	MK	09-SEP-00	180	6010
			NA	500.	ppm	BD	09-SEP-00	180	273.1
			NO2/NO3	<0.10	ppm	JN	21-SEP-00	180	353.2
			PB	0.013	ppm	CH	29-AUG-00	28	6020
			PH	8.1	pH	CH	13-SEP-00	180	150.1
			SE	<0.005	ppm	DC	16-AUG-00		6020
			SO4=	736.	ppm	CH	19-SEP-00	180	9036
L001279-011	04-AUG-00	EPRI-0008-199	TDS	1894.	ppm	JN	10-AUG-00	28	9036
			TSS	2.4	ppm	BD	10-AUG-00	7	160.1
			ZN	0.059	ppm	BD	10-AUG-00		160.2
			AS	0.022	ppm	CH	13-SEP-00	180	6020
			CA	105.	ppm	CH	13-SEP-00	180	6010
			CL-	386.	ppm	CH	22-AUG-00	28	325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001279

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-011	04-AUG-00	EPRI-0008-199	CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	4350.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	0.031	ppm	CH	13-SEP-00		6020
			F-	2.0	ppm	EH	31-AUG-00	28	340.2
			FE	1.2	ppm	MK	09-SEP-00	180	6010
			HCO3	326.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	9.7	ppm	MK	09-SEP-00	180	6010
			MG	61.	ppm	MK	09-SEP-00	180	6010
			NA	750.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	7.5	ppm	JN	29-AUG-00	28	353.2
			PB	0.008	ppm	CH	13-SEP-00	180	6020
			PH	8.0	pH	DC	16-AUG-00		150.1
			SE	0.072	ppm	CH	19-SEP-00	180	6020
			SO4=	1531.	ppm	JN	10-AUG-00	28	9036
			TDS	3086.	ppm	BD	10-AUG-00	7	160.1
			TSS	2.6	ppm	BD	10-AUG-00		160.2
			ZN	0.026	ppm	CH	13-SEP-00	180	6020
L001279-012	04-AUG-00	EPRI-0008-226	AS	<0.005	ppm	CH	13-SEP-00	180	6020
			CA	<1.0	ppm	MK	09-SEP-00	180	6010
			CD	<0.005	ppm	CH	13-SEP-00	180	6020
			CL-	<1.0	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	<0.050	ppm	EH	31-AUG-00	28	340.2
			FE	<0.10	ppm	MK	09-SEP-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	<2.0	ppm	MK	09-SEP-00	180	6010
			MG	<1.0	ppm	MK	09-SEP-00	180	6010
			NA	<5.0	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	<0.10	ppm	JN	29-AUG-00	28	353.2
			PB	<0.003	ppm	CH	13-SEP-00	180	6020
			PH	5.5	pH	DC	16-AUG-00		150.1
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
			SO4=	<2.0	ppm	JN	10-AUG-00	28	9036
			TDS	<10.	ppm	BD	10-AUG-00	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001279

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-012	04-AUG-00	EPRI-0008-226	TSS	<1.0	ppm	BD	10-AUG-00	180	160.2
			ZN	<0.020	ppm	CH	13-SEP-00	180	6020
L001279-013	07-AUG-00	EPRI-0008-119	AS	0.75	ppm	CH	13-SEP-00	180	6020
			CA	551.	ppm	MK	09-SEP-00	180	6010
			CD	0.029	ppm	CH	13-SEP-00	180	6020
			CL-	2235.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00	28	310.1
			COND.	10620.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	0.19	ppm	CH	13-SEP-00	180	6020
			F-	0.89	ppm	EH	31-AUG-00	28	340.2
			FE	5.1	ppm	MK	09-SEP-00	180	6010
			HCO3	183.	ppm	DC	16-AUG-00	14	310.1
			K	34.	ppm	MK	09-SEP-00	180	6010
			MG	357.	ppm	MK	09-SEP-00	180	6010
			NA	1100.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	192.	ppm	JN	29-AUG-00	28	353.2
			PB	0.039	ppm	CH	13-SEP-00	180	6020
			PH	7.4	pH	DC	16-AUG-00	150.1	
			SE	0.27	ppm	CH	14-SEP-00	180	6020
			SO4=	2295.	ppm	JN	10-AUG-00	28	9036
			TDS	7689.	ppm	BD	10-AUG-00	7	160.1
L001279-014	07-AUG-00	EPRI-0008-227	TSS	48.	ppm	BD	10-AUG-00	180	160.2
			ZN	0.43	ppm	CH	13-SEP-00	180	6020
			AS	0.88	ppm	CH	13-SEP-00	180	6020
			CA	526.	ppm	MK	09-SEP-00	180	6010
			CD	0.030	ppm	CH	13-SEP-00	180	6020
			CL-	2398.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00	28	310.1
			COND.	10710.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	5.5	ppm	CH	13-SEP-00	180	6020
			CU	0.21	ppm	CH	13-SEP-00	180	6020
			F-	0.95	ppm	EH	31-AUG-00	28	340.2
			FE	5.9	ppm	MK	09-SEP-00	180	6010
			HCO3	182.	ppm	DC	16-AUG-00	14	310.1
			K	34.	ppm	MK	09-SEP-00	180	6010
			MG	343.	ppm	MK	09-SEP-00	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-014	07-AUG-00	EPRI-0008-227	NA	1100.		BD	21-SEP-00	180	273.1
			NO2/NO3	207.	ppm	JN	29-AUG-00	28	353.2
			PE	0.047	ppm	CH	13-SEP-00	180	6020
			PH	7.4	pH	DC	16-AUG-00		150.1
			SE	0.27	ppm	CH	14-SEP-00	180	6020
			SO4=	2046.	ppm	JN	10-AUG-00	28	9036
			TDS	7775.	ppm	BD	10-AUG-00	7	160.1
			TSS	49.	ppm	BD	10-AUG-00		160.2
			ZN	0.47	ppm	CH	13-SEP-00	180	6020
			AS	0.014	ppm	CH	13-SEP-00	180	6020
			CA	576.	ppm	MK	09-SEP-00	180	6010
			CD	0.027	ppm	CH	13-SEP-00	180	6020
			CL-	1499.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
L001279-015	07-AUG-00	EPRI-0008-164	COND.	10160.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	0.030	ppm	CH	13-SEP-00		6020
			F-	1.2	ppm	EH	31-AUG-00	28	340.2
			FE	1.9	ppm	MK	09-SEP-00	180	6010
			HCO3	275.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	29.	ppm	MK	09-SEP-00	180	6010
			MG	293.	ppm	MK	09-SEP-00	180	6010
			NA	1200.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	241.	ppm	JN	29-AUG-00	28	353.2
			PE	0.005	ppm	CH	13-SEP-00	180	6020
			PH	7.4	pH	DC	16-AUG-00		150.1
			SE	0.52	ppm	CH	14-SEP-00	180	6020
			SO4=	2879.	ppm	JN	10-AUG-00	28	9036
L001279-016	07-AUG-00	EPRI-0008-120	TDS	7987.	ppm	BD	10-AUG-00	7	160.1
			TSS	79.	ppm	BD	10-AUG-00		160.2
			ZN	0.18	ppm	CH	13-SEP-00	180	6020
			AS	1.3	ppm	MK	09-SEP-00	180	6010
			CA	440.	ppm	MK	09-SEP-00	180	6010
			CD	0.43	ppm	CH	13-SEP-00	180	6020
			CL-	1255.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	11640.	umhos/cm2	BD	11-AUG-00	28	120.1

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-016	07-AUG-00	EPRI-0008-120	CR	0.12	ppm	CH	13-SEP-00	180	6020
			CU	0.54	ppm	CH	13-SEP-00		6020
			F-	6.1	ppm	EH	15-SEP-00	28	340.2
			FE	3.1	ppm	MK	09-SEP-00	180	6010
			HCO3	618.	ppm	DC	16-AUG-00	14	310.1
			K	15.	ppm	CaCO3	09-SEP-00	180	6010
			MG	239.	ppm	MK	09-SEP-00	180	6010
			NA	1800.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	106.	ppm	JN	29-AUG-00	28	353.2
			PB	0.83	ppm	CH	13-SEP-00	180	6020
			PH	7.5	PH	DC	16-AUG-00		150.1
			SE	0.18	ppm	CH	14-SEP-00	180	6020
			SO4=	4650.	ppm	JN	10-AUG-00	28	9036
			TDS	9649.	ppm	BD	10-AUG-00	7	160.1
			TSS	26.	ppm	BD	10-AUG-00		160.2
			ZN	2.7	ppm	BD	20-SEP-00	180	6010
			AS	0.027	ppm	CH	13-SEP-00	180	6020
			CA	218.	ppm	MK	09-SEP-00	180	6010
			CD	<0.005	ppm	CH	13-SEP-00	180	6020
			CL-	435.	ppm	JN	22-AUG-00	28	325.2
			CO3	40.	ppm	DC	16-AUG-00		310.1
			COND.	6220.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	3.0	ppm	EH	31-AUG-00	28	340.2
			FE	<0.10	ppm	MK	09-SEP-00	180	6010
			HCO3	211.	ppm	DC	16-AUG-00	14	310.1
			K	286.	ppm	MK	09-SEP-00	180	6010
L001279-017	07-AUG-00	EPRI-0008-140	MG	92.	ppm	BD	09-SEP-00	180	273.1
			NA	900.	ppm	JN	21-SEP-00	180	353.2
			NO2/NO3	16.	ppm	CH	29-AUG-00	28	353.2
			PB	<0.003	ppm	CH	13-SEP-00	180	6020
			PH	8.5	PH	DC	16-AUG-00		150.1
			SE	0.84	ppm	CH	14-SEP-00	180	6020
			SO4=	2330.	ppm	JN	10-AUG-00	28	9036
			TDS	4747.	ppm	BD	10-AUG-00	7	160.1
			TSS	1.4	ppm	BD	10-AUG-00		160.2
			ZN	0.025	ppm	CH	13-SEP-00	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PREPARED	
L001279-018	07-AUG-00	EPRI-0008-118	AS	34.	ppm	MK	09-SEP-00	180	6010
			CA	485.	ppm	MK	09-SEP-00	180	6010
			CD	0.088	ppm	CH	13-SEP-00	180	6020
			CL-	663.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00	310.1	
			COND.	9830.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	0.020	ppm	CH	13-SEP-00	180	6020
			CU	0.025	ppm	CH	13-SEP-00	6020	
			F-	7.2	ppm	EH	15-SEP-00	28	340.2
			FE	21.	ppm	MK	09-SEP-00	180	6010
			HCO3	784.	ppm	DC	16-AUG-00	14	310.1
			K	231.	ppm	MK	09-SEP-00	180	6010
			MG	131.	ppm	MK	09-SEP-00	180	6010
			NA	1400.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	11.	ppm	JN	29-AUG-00	28	353.2
			PB	0.007	ppm	CH	13-SEP-00	180	6020
			PH	7.8	pH	DC	16-AUG-00	150.1	
			SE	0.050	ppm	CH	14-SEP-00	180	6020
			SO4=	4132.	ppm	JN	10-AUG-00	28	9036
			TDS	7534.	ppm	BD	10-AUG-00	7	160.1
			TSS	218.	ppm	BD	10-AUG-00	160.2	
			ZN	32.	ppm	BD	20-SEP-00	180	6010
L001279-019	07-AUG-00	EPRI-0008-122	AS	34.	ppm	MK	09-SEP-00	180	6010
			CA	398.	ppm	MK	09-SEP-00	180	6010
			CD	0.66	ppm	CH	13-SEP-00	180	6020
			CL-	711.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00	310.1	
			COND.	10250.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	0.020	ppm	CH	13-SEP-00	180	6020
			CU	0.55	ppm	CH	13-SEP-00	6020	
			F-	9.9	ppm	EH	15-SEP-00	28	340.2
			FE	14.	ppm	MK	09-SEP-00	180	6010
			HCO3	970.	ppm	DC	16-AUG-00	14	310.1
			K	224.	ppm	MK	09-SEP-00	180	6010
			MG	186.	ppm	MK	09-SEP-00	180	6010
			NA	1400.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	14.	ppm	JN	29-AUG-00	28	353.2
			PB	0.018	ppm	CH	13-SEP-00	180	6020

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-019	07-AUG-00	EPRI-0008-122	PH	7.7	ppm	DC	16-AUG-00	150.1	
			SE	0.13	ppm	CH	14-SEP-00	180	6020
			SO4=	4153.	ppm	JN	10-AUG-00	28	9036
			TDS	8003.	ppm	BD	10-AUG-00	7	160.1
			TSS	78.	ppm	BD	10-AUG-00		160.2
			ZN	11.	ppm	BD	20-SEP-00	180	6010
			AS	1.5	ppm	MK	09-SEP-00	180	6010
			CA	377.	ppm	MK	09-SEP-00	180	6010
			CD	0.013	ppm	CH	13-SEP-00	180	6020
			CL-	600.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	16-AUG-00		310.1
			COND.	8940.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	0.036	ppm	CH	13-SEP-00		6020
L001279-020	07-AUG-00	EPRI-0008-110	F-	2.6	ppm	EH	31-AUG-00	28	340.2
			FE	0.87	ppm	MK	09-SEP-00	180	6010
			HCO3	466.	ppm	DC	16-AUG-00	14	310.1
			K	88.	ppm	MK	09-SEP-00	180	6010
			MG	167.	ppm	MK	09-SEP-00	180	6010
			NA	1400.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	15.	ppm	JN	29-AUG-00	28	353.2
			PE	0.006	ppm	CH	13-SEP-00	180	6020
			PH	8.2	ppm	DC	16-AUG-00		150.1
			SE	0.53	ppm	CH	14-SEP-00	180	6020
			SO4=	3741.	ppm	JN	10-AUG-00	28	9036
			TDS	7388.	ppm	BD	10-AUG-00	7	160.1
			TSS	27.	ppm	BD	10-AUG-00		160.2
			ZN	0.41	ppm	CH	13-SEP-00	180	6020
L001279-021	07-AUG-00	EPRI-0008-142	AS	1.1	ppm	CH	13-SEP-00	180	6020
			CA	162.	ppm	MK	09-SEP-00	180	6010
			CD	<0.005	ppm	CH	13-SEP-00	180	6020
			CL-	456.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	16-AUG-00		310.1
			COND.	5300.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	2.2	ppm	EH	31-AUG-00	28	340.2

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L001279-021	07-AUG-00	EPRI-0008-142	FE	0.30	ppm	MK	09-SEP-00	180
			HCO3	405.	ppm	DC	16-AUG-00	14
			K	93.	ppm	MK	09-SEP-00	180
			MG	88.	ppm	MK	09-SEP-00	180
			NA	800.	ppm	BD	21-SEP-00	180
			NO2/NO3	4.0	ppm	JN	29-AUG-00	28
			PB	0.007	ppm	CH	13-SEP-00	180
			PH	8.1	pH	DC	16-AUG-00	150.1
			SE	0.15	ppm	CH	14-SEP-00	180
			SO4=	1827.	ppm	JN	10-AUG-00	28
			TDS	3794.	ppm	BD	10-AUG-00	7
			TSS	2.5	ppm	BD	10-AUG-00	160.1
			ZN	0.084	ppm	CH	13-SEP-00	180
								6020
L001279-022	07-AUG-00	EPRI-0008-141	AS	11.	ppm	MK	09-SEP-00	180
			CA	339.	ppm	MK	09-SEP-00	180
			CD	0.005	ppm	CH	13-SEP-00	180
			CL-	230.	ppm	JN	22-AUG-00	28
			CO3	<1.0	ppm	DC	16-AUG-00	310.1
			COND.	14850.	umhos/cm2	BD	11-AUG-00	28
			CR	<0.010	ppm	CH	13-SEP-00	180
			CU	0.049	ppm	CH	13-SEP-00	6020
			F-	1.4	ppm	EH	31-AUG-00	28
			FE	0.47	ppm	MK	09-SEP-00	180
			HCO3	313.	ppm	DC	16-AUG-00	14
			K	504.	ppm	MK	09-SEP-00	180
			MG	300.	ppm	MK	09-SEP-00	180
			NA	3000.	ppm	BD	21-SEP-00	180
			NO2/NO3	182.	ppm	JN	29-AUG-00	28
			PB	0.006	ppm	CH	13-SEP-00	180
			PH	7.2	pH	DC	16-AUG-00	150.1
			SE	3.4	ppm	CH	14-SEP-00	180
			SO4=	9407.	ppm	JN	10-AUG-00	28
			TDS	13269.	ppm	BD	10-AUG-00	7
			TSS	7.4	ppm	BD	10-AUG-00	160.1
			ZN	0.10	ppm	CH	13-SEP-00	180
								6020
L001279-023	07-AUG-00	EPRI-0008-114	AS	0.38	ppm	CH	13-SEP-00	180
			CA	175.	ppm	MK	09-SEP-00	180

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-023	07-AUG-00	EPRI-0008-114	CD	0.35	ppm	CH	13-SEP-00	180	6020
			CL-	437.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	4600.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	2.0	ppm	EH	31-AUG-00	28	340.2
			FE	0.89	ppm	MK	09-SEP-00	180	6010
			HCO3	250.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	54.	ppm	MK	09-SEP-00	180	6010
			MG	51.	ppm	MK	09-SEP-00	180	6010
			NA	700.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	28.	ppm	JN	29-AUG-00	28	353.2
			PB	0.008	ppm	CH	13-SEP-00	180	6020
			PH	7.9	ppm	DC	16-AUG-00		150.1
			SE	1.1	ppm	CH	14-SEP-00	180	6020
			SO4=	1527.	ppm	JN	10-AUG-00	28	9036
			TDS	3348.	ppm	BD	10-AUG-00	7	160.1
			TSS	28.	ppm	BD	10-AUG-00		160.2
			ZN	1.2	ppm	BD	20-SEP-00	180	6010
			AS	<0.005	ppm	CH	13-SEP-00	180	6020
			CA	<1.0	ppm	MK	09-SEP-00	180	6010
			CD	<0.005	ppm	CH	13-SEP-00	180	6020
			CL-	<1.0	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	<0.050	ppm	EH	31-AUG-00	28	340.2
			FE	<0.10	ppm	MK	09-SEP-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	<2.0	ppm	MK	09-SEP-00	180	6010
			MG	<1.0	ppm	MK	09-SEP-00	180	6010
			NA	<5.0	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	<0.10	ppm	JN	29-AUG-00	28	353.2
			PB	<0.003	ppm	CH	13-SEP-00	180	6020
			PH	5.6	pH	DC	16-AUG-00		150.1
			SE	<0.005	ppm	CH	14-SEP-00	180	6020

L001279-024 07-AUG-00 EPRI-0008-228

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001279-024	07-AUG-00	EPRI-0008-228	SO4=	<2.0	ppm	JN	10-AUG-00	28	9036
			TDS	<10.	ppm	BD	10-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	10-AUG-00		160.2
			ZN	<0.020	ppm	CH	13-SEP-00	180	6020
			AS	0.60	ppm	CH	13-SEP-00	180	6020
L001279-025	04-AUG-00	EPRI-0008-169	CA	156.	ppm	MK	09-SEP-00	180	6010
			CD	<0.005	ppm	CH	13-SEP-00	180	6020
			CL	393.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	3720.	umhos/cm2	BD	11-AUG-00	28	120.1
			CR	<0.010	ppm	CH	13-SEP-00	180	6020
			CU	0.045	ppm	CH	13-SEP-00		6020
			F-	3.0	ppm	EH	31-AUG-00	28	340.2
			FE	1.2	ppm	MK	09-SEP-00	180	6010
			HCO3	190.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	15.	ppm	MK	09-SEP-00	180	6010
			MG	57.	ppm	MK	09-SEP-00	180	6010
			NA	500.	ppm	BD	21-SEP-00	180	273.1
			NO2/NO3	4.0	ppm	JN	29-AUG-00	28	353.2
			PB	0.018	ppm	CH	13-SEP-00	180	6020
			PH	8.3	pH	DC	16-AUG-00		150.1
			SE	0.039	ppm	CH	14-SEP-00	180	6020
			SO4=	1382.	ppm	JN	10-AUG-00	28	9036
			TDS	2641.	ppm	BD	10-AUG-00	7	160.1
			TSS	9.6	ppm	BD	10-AUG-00		160.2
			ZN	0.089	ppm	CH	13-SEP-00	180	6020

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Batch No: 1001279

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ADJUST	ANALYST	DATE	HOLD	ANALYSIS METHOD
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PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

Approved: Deane Cobb
Reviewer

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ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000886

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000886-1		Matrix Spike	AS	99	%Recovery	CH	13-SEP-00		6020
			CD	88	%Recovery	CH	13-SEP-00		6020
			CL-	96	%Recovery	JN	22-AUG-00		325.2
			CR	98	%Recovery	CH	13-SEP-00		6020
			CU	88	%Recovery	CH	13-SEP-00		6020
			F-	100	%Recovery	EH	31-AUG-00		340.2
			FE	94	%Recovery	MK	09-SEP-00		6010
			NO2/NO3	108	%Recovery	JN	29-AUG-00		353.2
			PB	89	%Recovery	CH	13-SEP-00		6020
			SE	99	%Recovery	CH	14-SEP-00		6020
			SO4=	87	%Recovery	JN	10-AUG-00		9036
			ZN	88	%Recovery	BD	20-SEP-00		6010
			AS	<0.005	ppm	CH	13-SEP-00		6020
			CA	<1.0	ppm	MK	09-SEP-00		6010
			CD	<0.005	ppm	CH	13-SEP-00		6020
			CL-	<1.0	ppm	JN	22-AUG-00		325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	<5.0	unhos/cm2	BD	11-AUG-00		120.1
			CR	<0.010	ppm	CH	13-SEP-00		6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
WG000886-2		Prep Blank	F-	<0.050	ppm	EH	31-AUG-00		340.2
			FE	<0.10	ppm	MK	09-SEP-00		6010
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			K	<5.0	ppm	MK	09-SEP-00		6010
			MG	<1.0	ppm	MK	09-SEP-00		6010
			NA	<5.0	ppm	MK	09-SEP-00		6010
			NO2/NO3	<0.10	ppm	JN	29-AUG-00		353.2
			PB	<0.003	ppm	CH	13-SEP-00		6020
			SE	<0.005	ppm	CH	14-SEP-00		6020
			SO4=	<2.0	ppm	JN	10-AUG-00		9036
			TDS	<10.	ppm	BD	10-AUG-00		160.1
			TSS	<1.0	ppm	BD	10-AUG-00		160.2
			ZN	<0.020	ppm	BD	20-SEP-00		6010
			AS	110	%Recovery	CH	13-SEP-00		6020
			CA	95	%Recovery	MK	09-SEP-00		6010
			CD	99	%Recovery	CH	13-SEP-00		6020
			CL-	103	%Recovery	JN	22-AUG-00		325.2
WG000886-3		Lab Control Sample	AS	110	%Recovery	CH	13-SEP-00		6020
			CA	95	%Recovery	MK	09-SEP-00		6010
			CD	99	%Recovery	CH	13-SEP-00		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000886

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000886-3		Lab Control Sample	COND.	101	% Recovery	BD	11-AUG-00	120.1	
			CR	102	% Recovery	CH	13-SEP-00	6020	
			CU	102	% Recovery	CH	13-SEP-00	6020	
			F-	96	% Recovery	EH	31-AUG-00	340.2	
			FE	98	% Recovery	MK	09-SEP-00	6010	
			HCO3	105	% Recovery	DC	16-AUG-00	310.1	
			K	93	% Recovery	MK	09-SEP-00	6010	
			MG	90	% Recovery	MK	09-SEP-00	6010	
			NA	91	% Recovery	MK	09-SEP-00	6010	
			NO2/NO3	103	% Recovery	JN	29-AUG-00	353.2	
			PB	104	% Recovery	CH	13-SEP-00	6020	
			SE	110	% Recovery	CH	14-SEP-00	6020	
			SO4=	103	% Recovery	JN	10-AUG-00	9036	
			TDS	96	% Recovery	BD	10-AUG-00	160.1	
			TSS	93	% Recovery	BD	10-AUG-00	160.2	
			ZN	87	% Recovery	BD	20-SEP-00	6010	
			CL-	1.2	% RPD	JN	22-AUG-00	325.2	
			CO3	<1	% RPD	DC	16-AUG-00	310.1	
			COND.	<1	% RPD	BD	11-AUG-00	120.1	
			F-	<1	% RPD	EH	31-AUG-00	340.2	
			HCO3	<1	% RPD	DC	16-AUG-00	310.1	
WG000886-4		Duplicate	NO2/NO3	<1	% RPD	JN	29-AUG-00	353.2	
			SO4=	<1	% RPD	JN	10-AUG-00	9036	
			TDS	1.3	% RPD	BD	10-AUG-00	160.1	
			TSS	2.1	% RPD	BD	10-AUG-00	160.2	
			AS	1.5	% RPD	CH	13-SEP-00	6020	
			CA	5.9	% RPD	MK	09-SEP-00	6010	
			CD	<1	% RPD	CH	13-SEP-00	6020	
			CR	2.3	% RPD	CH	13-SEP-00	6020	
			CU	1.1	% RPD	CH	13-SEP-00	6020	
			FE	5.0	% RPD	MK	09-SEP-00	6010	
			K	6.3	% RPD	MK	09-SEP-00	6010	
			MG	5.1	% RPD	MK	09-SEP-00	6010	
WG000886-5		Matrix Spike Duplicate	NA	5.7	% RPD	MK	09-SEP-00	6010	
			PB	<1	% RPD	MK	09-SEP-00	6020	
			SE	<1	% RPD	CH	13-SEP-00	6020	
			ZN	2.8	% RPD	BD	14-SEP-00	6020	
					% RPD		20-SEP-00	6010	
					% RPD				
					% RPD				

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000886

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000886-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6020
			CU	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	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	0.10	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020
WG000886-7		Matrix Spike	AS	85	%Recovery	MK	09-SEP-00		6010
			CD	80	%Recovery	CH	13-SEP-00		6020
			CL-	96	%Recovery	JN	22-AUG-00		325.2
			CR	105	%Recovery	CH	13-SEP-00		6020
			CU	81	%Recovery	CH	13-SEP-00		6020
			F-	105	%Recovery	EH	31-AUG-00		340.2
			FE	85	%Recovery	MK	09-SEP-00		6010
			NO2/NO3	125	%Recovery	JN	29-AUG-00		353.2
			PB	84	%Recovery	CH	13-SEP-00		6020
			SE	103	%Recovery	CH	14-SEP-00		6020
			SO4=	104	%Recovery	JN	10-AUG-00		9036
			ZN	81	%Recovery	CH	13-SEP-00		6020
WG000886-8		Prep Blank	AS	<0.020	ppm	MK	09-SEP-00		6010
			CA	<1.0	ppm	MK	09-SEP-00		6010
			CD	<0.005	ppm	CH	13-SEP-00		6020
			CL-	<1.0	ppm	JN	22-AUG-00		325.2

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000886

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNIT	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000886-8		Prep Blank	CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	11-AUG-00		120.1
			CR	<0.010	ppm	CH	13-SEP-00		6020
			CU	<0.025	ppm	CH	13-SEP-00		6020
			F-	<0.050	ppm	EH	31-AUG-00		340.2
			FE	<0.10	ppm	MK	09-SEP-00		6010
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			K	<5.0	ppm	MK	09-SEP-00		6010
			MG	<1.0	ppm	MK	09-SEP-00		6010
			NA	<5.0	ppm	BD	21-SEP-00		273.1
			NO2/NO3	<0.10	ppm	JN	29-AUG-00		353.2
			PB	<0.003	ppm	CH	13-SEP-00		6020
			SE	<0.005	ppm	CH	14-SEP-00		6020
			SO4=	<2.0	ppm	JN	10-AUG-00		9036
			TDS	<10.	ppm	BD	10-AUG-00		160.1
			TSS	<1.0	ppm	BD	10-AUG-00		160.2
			ZN	<0.10	ppm	CH	13-SEP-00		6020
WG000886-9		Lab Control Sample	AS	88	%Recovery	MK	09-SEP-00		6010
			CA	98	%Recovery	MK	09-SEP-00		6010
			CD	101	%Recovery	CH	13-SEP-00		6020
			CL-	95	%Recovery	JN	22-AUG-00		325.2
			COND.	101	%Recovery	BD	11-AUG-00		120.1
			CR	105	%Recovery	CH	13-SEP-00		6020
			CU	104	%Recovery	CH	13-SEP-00		6020
			F-	97	%Recovery	EH	31-AUG-00		340.2
			FE	98	%Recovery	MK	09-SEP-00		6010
			HCO3	103	%Recovery	DC	16-AUG-00		310.1
			K	94	%Recovery	MK	09-SEP-00		6010
			MG	93	%Recovery	MK	09-SEP-00		6010
			NA	110	%Recovery	BD	21-SEP-00		273.1
			NO2/NO3	102	%Recovery	JN	29-AUG-00		353.2
			PB	105	%Recovery	CH	13-SEP-00		6020
			SE	113	%Recovery	CH	14-SEP-00		6020
			SO4=	103	%Recovery	JN	10-AUG-00		9036
			TDS	97	%Recovery	BD	10-AUG-00		160.1
			TSS	95	%Recovery	BD	10-AUG-00		160.2
			ZN	90	%Recovery	CH	13-SEP-00		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

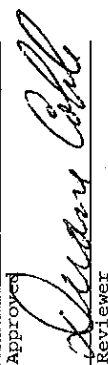
El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000886

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000886-10		Duplicate	CL-	<1	% RPD	JN	22-AUG-00	325.2	
			CO3	<1	% RPD	DC	16-AUG-00	310.1	
			COND.	<1	% RPD	BD	11-AUG-00	120.1	
			F-	<1	% RPD	EH	31-AUG-00	340.2	
			HCO3	<1	% RPD	DC	16-AUG-00	310.1	
			NA	7.4	% RPD	MK	09-SEP-00	6010	
			SO4=	<1	% RPD	JN	10-AUG-00	9036	
			TDS	<1	% RPD	BD	10-AUG-00	160.1	
			TSS	19.	% RPD	BD	10-AUG-00	160.2	
			AS	4.3	% RPD	MK	09-SEP-00	6010	
			CA	10.	% RPD	MK	09-SEP-00	6010	
			CD	<1	% RPD	CH	13-SEP-00	6020	
			CR	<1	% RPD	CH	13-SEP-00	6020	
WG000886-11		Matrix Spike Duplicate	CU	<1	% RPD	CH	13-SEP-00	6020	
			FE	7.4	% RPD	MK	09-SEP-00	6010	
			K	9.6	% RPD	MK	09-SEP-00	6010	
			MG	10.	% RPD	MK	09-SEP-00	6010	
			PB	<1	% RPD	CH	13-SEP-00	6020	
			SE	<1	% RPD	CH	14-SEP-00	6020	
			ZN	8.5	% RPD	MK	09-SEP-00	6010	

Approved



Reviewer

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		ANALYSIS										REMARKS
DATE	TIME	GRAB	COMP	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		
093112	ASARCO-EL PASO, TX													
SAMPLERS: (Signature) Douglas M. Solon														
8-4-00	900			EPR1-0008-106	X	X			X					
8-4-00	905			EPR1-0008-225	X	X			X					
8-4-00	920			EPR1-0008-105	X	X			X					
8-4-00	945			EPR1-0008-165	X	X			X					
8-4-00	1015			EPR1-0008-166	X	X			X					
8-4-00	1045			EPR1-0008-156	X	X			X					
8-4-00	1315			EPR1-0008-167	X	X			X					
8-4-00	1345			EPR1-0008-143	X	X			X					
8-4-00	1400			EPR1-0008-154	X	X			X					
8-4-00	1430			EPR1-0008-198	X	X			X					
8-4-00	1500			EPR1-0008-199	X	X			X					
8-4-00	1530			EPR1-0008-226	X	X			X					
8-7-00	915			EPR1-0008-119	X	X			X					
8-7-00	920			EPR1-0008-227	X	X			X					
8-7-00	945			EPR1-0008-164	X	X			X					
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS						
8-7-00 945		8/8/00 1600		TSC-36C, 4T				Other						
Relinquished (Signature)		Received by: (Signature)		Remarks										
8-7-00 945		8/8/00 1600		TSC-36C, 4T										
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Enclosed:		Parameter sheet w/ detection limits						
8-7-00 945		8/8/00 1600		8/9/00 1230		QA/QC standard mixing instructions		Cover letter						
8-7-00 945		8/8/00 1600		8/9/00 1230		Other		Split Samples:						
8-7-00 945		8/8/00 1600		8/9/00 1230		Other		II Accepted II Declined						

Hydrometronics, 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	ANALYSIS							REMARKS	
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
0931V2		ASARCO - EL PASO, TX			3								
SAMPLERS: (Signature) <i>Douglas M. Soler</i>													
8-7-00	1020			EPRI-0008-120	X	X			X				
8-7-00	1100			EPRI-0008-140	X	X			X				
8-7-00	1300			EPRI-0008-118	X	X			X				
8-7-00	1330			EPRI-0008-122	X	X			X				
8-7-00	1410			EPRI-0008-110	X	X			X				
8-7-00	1440			EPRI-0008-142	X	X			X				
8-7-00	1510			EPRI-0008-141	X	X			X				
8-7-00	1610			EPRI-0008-114	X	X			X				
8-7-00	1645			EPRI-0008-228	X	X			X				
8-4-00	830			EPRI-0008-169	X	X			X				
/													
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
<i>[Signature]</i>		<i>[Signature]</i>		BC-SIC, UT				Other		Air Bill #			
Relinquished (Signature)		Received by: (Signature)		Remarks									
<i>[Signature]</i>		<i>[Signature]</i>											
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		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			
<i>[Signature]</i>		<i>[Signature]</i>		8/9/00 1600		8/9/00 1230		<input type="checkbox"/> Other					
Return results & electronic copy to:													

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No. L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-001	09-AUG-00	EPRI-0008-163	AS	6.5	ppm	CH	21-SEP-00	180	6020
			CA	323.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	358.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1	
			COND.	5830.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	0.058	ppm	CH	21-SEP-00	180	6020
			F-	3.6	ppm	EH	07-SEP-00	28	340.2
			FE	2.2	ppm	MK	16-SEP-00	180	6010
			HCO3	299.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	91.	ppm	MK	16-SEP-00	180	6010
			MG	112.	ppm	MK	16-SEP-00	180	6010
			NA	676.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	80.	ppm	JN	08-SEP-00	28	353.2
			PB	0.036	ppm	CH	21-SEP-00	180	6020
			PH	7.6	pH	DC	16-AUG-00	150.1	
			SE	1.1	ppm	CH	21-SEP-00	180	6020
			SO4=	2274.	ppm	JN	06-SEP-00	28	9036
			TDS	4783.	ppm	BD	14-AUG-00	7	160.1
			TSS	18.	ppm	BD	14-AUG-00	160.2	
			ZN	0.095	ppm	CH	21-SEP-00	180	6020
L001286-002	09-AUG-00	EPRI-0008-150	AS	0.036	ppm	CH	21-SEP-00	180	6020
			CA	166.	ppm	MK	16-SEP-00	180	6010
			CD	0.013	ppm	CH	21-SEP-00	180	6020
			CL-	283.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1	
			COND.	2880.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	180	6020
			F-	0.65	ppm	EH	07-SEP-00	28	340.2
			FE	<0.10	ppm	MK	16-SEP-00	180	6010
			HCO3	248.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	6.9	ppm	MK	16-SEP-00	180	6010
			MG	77.	ppm	MK	16-SEP-00	180	6010
			NA	245.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	8.3	ppm	JN	08-SEP-00	28	353.2
			PB	0.026	ppm	CH	21-SEP-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L001286-002	09-AUG-00	EPRI-0008-150	PH	7.9	PH	DC	16-AUG-00	180	150.1
			SE	0.018	ppm	CH	21-SEP-00	180	6020
			SO4=	941.	ppm	JN	06-SEP-00	28	9036
			TDS	2124.	ppm	BD	14-AUG-00	7	160.1
			TSS	2.2	ppm	BD	14-AUG-00		160.2
			ZN	0.081	ppm	CH	21-SEP-00	180	6020
			AS	0.035	ppm	CH	21-SEP-00	180	6020
			CA	176.	ppm	MK	16-SEP-00	180	6010
			CD	0.013	ppm	CH	21-SEP-00	180	6020
			CL-	310.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	2860.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
L001286-003	09-AUG-00	EPRI-0008-229	F-	0.69	ppm	EH	07-SEP-00	28	340.2
			FE	<0.10	ppm	MK	16-SEP-00	180	6010
			HCO3	247.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	6.6	ppm	MK	16-SEP-00	180	6010
			MG	82.	ppm	MK	16-SEP-00	180	6010
			NA	269.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	8.6	ppm	JN	08-SEP-00	28	353.2
			PB	0.020	ppm	CH	21-SEP-00	180	6020
			PH	7.9	pH	DC	16-AUG-00		150.1
			SE	0.019	ppm	CH	21-SEP-00	180	6020
			SO4=	997.	ppm	JN	06-SEP-00	28	9036
			TDS	2136.	ppm	BD	14-AUG-00	7	160.1
			TSS	2.2	ppm	BD	14-AUG-00		160.2
			ZN	0.068	ppm	CH	21-SEP-00	180	6020
			AS	0.011	ppm	CH	21-SEP-00	180	6020
			CA	35.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	355.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	3220.	umhos/cm2	BD	15-AUG-00	28	120.1
L001286-004	09-AUG-00	EPRI-0008-159	CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	4.0	ppm	EH	07-SEP-00	28	340.2

ANALYTICAL DATA REPORT

Test Cases

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	DATE	HOLD
L001286-004	09-AUG-00	EPRI-0008-159	FE	0.14	ppm	MK	16-SEP-00	180	6010
			HCO3	305.	ppm	CaCO3	16-AUG-00	14	310.1
			K	2.7	ppm	MK	16-SEP-00	180	6010
			MG	57.	ppm	MK	16-SEP-00	180	6010
			NA	481.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	9.2	ppm	JN	08-SEP-00	28	353.2
			PH	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	8.3	pH	DC	16-AUG-00	150.1	
			SE	0.027	ppm	CH	21-SEP-00	180	6020
			SO4=	859.	ppm	JN	06-SEP-00	28	9036
			TDS	2127.	ppm	BD	14-AUG-00	7	160.1
			TSS	2.8	ppm	BD	14-AUG-00	160.2	
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
L001286-005	09-AUG-00	EPRI-0008-158	AS	0.009	ppm	CH	21-SEP-00	180	6020
			CA	100.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	554.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	16-AUG-00	310.1	
			COND.	4910.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	1.3	ppm	EH	07-SEP-00	28	340.2
			FE	0.11	ppm	MK	16-SEP-00	180	6010
			HCO3	328.	ppm	CaCO3	16-AUG-00	14	310.1
			K	13.	ppm	MK	16-SEP-00	180	6010
			MG	96.	ppm	MK	16-SEP-00	180	6010
			NA	725.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	15.	ppm	JN	08-SEP-00	28	353.2
			PH	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	8.0	pH	DC	16-AUG-00	150.1	
			SE	0.026	ppm	CH	21-SEP-00	180	6020
			SO4=	1411.	ppm	JN	06-SEP-00	28	9036
			TDS	3391.	ppm	BD	14-AUG-00	7	160.1
			TSS	1.2	ppm	BD	14-AUG-00	160.2	
			ZN	0.028	ppm	CH	21-SEP-00	180	6020
L001286-006	09-AUG-00	EPRI-0008-160	AS	0.008	ppm	CH	21-SEP-00	180	6020
			CA	140.	ppm	MK	16-SEP-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DAYS	METHOD
L001286-006	09-AUG-00	EPRI-0008-160	CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	454.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	4780.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	1.0	ppm	EH	07-SEP-00	28	340.2
			FE	4.2	ppm	MK	16-SEP-00	180	6010
			HCO3	410.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	12.	ppm	MK	16-SEP-00	180	6010
			MG	84.	ppm	MK	16-SEP-00	180	6010
			NA	681.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	17.	ppm	JN	08-SEP-00	28	353.2
			PB	0.007	ppm	CH	21-SEP-00	180	6020
			PH	8.0	pH	DC	16-AUG-00		150.1
			SE	0.017	ppm	CH	21-SEP-00	180	6020
			SO4=	1388.	ppm	JN	06-SEP-00	28	9036
			TDS	3366.	ppm	BD	14-AUG-00	7	160.1
			TSS	307.	ppm	BD	14-AUG-00		150.2
			ZN	0.034	ppm	CH	21-SEP-00	180	6020
			AS	0.010	ppm	CH	21-SEP-00	180	6020
			CA	116.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	448.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	4840.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	0.016	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	1.7	ppm	EH	07-SEP-00	28	340.2
			FE	9.3	ppm	MK	16-SEP-00	180	6010
L001286-007	09-AUG-00	EPRI-0008-157	HCO3	620.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	12.	ppm	MK	16-SEP-00	180	6010
			MG	73.	ppm	MK	16-SEP-00	180	6010
			NA	850.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	8.2	ppm	JN	08-SEP-00	28	353.2
			PB	0.009	ppm	CH	21-SEP-00	180	6020
			PH	8.1	pH	DC	16-AUG-00		150.1
			SE	0.029	ppm	CH	21-SEP-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-007	09-AUG-00	EPRI-0008-157	SO4=	1118.	ppm	JN	06-SEP-00	28	9036
			TDS	3351.	ppm	BD	14-AUG-00	7	160.1
			TSS	337.	ppm	BD	14-AUG-00		160.2
			ZN	0.041	ppm	CH	21-SEP-00	180	6020
			AS	0.15	ppm	CH	21-SEP-00	180	6020
			CA	108.	ppm	MK	16-SEP-00	180	6010
			CD	0.009	ppm	CH	21-SEP-00	180	6020
			CL-	348.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	4040.	umhos/cm2	BD	15-AUG-00	28	120.1
L001286-008	09-AUG-00	EPRI-0008-161	CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	0.19	ppm	CH	21-SEP-00		6020
			F-	1.4	ppm	EH	07-SEP-00	28	340.2
			FE	0.45	ppm	MK	16-SEP-00	180	6010
			HCO3	540.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	11.	ppm	MK	16-SEP-00	180	6010
			MG	72.	ppm	MK	16-SEP-00	180	6010
			NA	663.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	0.073	ppm	JN	08-SEP-00	28	353.2
			FB	0.024	ppm	CH	21-SEP-00	180	6020
			PH	8.0	pH	DC	16-AUG-00		150.1
			SE	0.009	ppm	CH	21-SEP-00	180	6020
			SO4=	947.	ppm	JN	06-SEP-00	28	9036
			TDS	2817.	ppm	BD	14-AUG-00	7	160.1
			TSS	7.5	ppm	BD	14-AUG-00		160.2
			ZN	0.095	ppm	CH	21-SEP-00	180	6020
			AS	0.005	ppm	CH	21-SEP-00	180	6020
			CA	63.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	362.	ppm	JN	22-AUG-00	28	325.2
L001286-009	09-AUG-00	EPRI-0008-149	CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	3820.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	3.1	ppm	EH	07-SEP-00	28	340.2
			FE	<0.10	ppm	MK	16-SEP-00	180	6010
			HCO3	307.	ppm CaCO3	DC	16-AUG-00	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	RECEIVED		
L001286-009	09-AUG-00	EPRI-0008-149	K	9.4	ppm	MK	16-SEP-00	180	6010	
			MG	55.	ppm	MK	16-SEP-00	180	6010	
			NA	609.	ppm	MK	16-SEP-00	180	6010	
			NO2/NO3	9.2	ppm	JN	08-SEP-00	28	353.2	
			PB	<0.003	ppm	CH	21-SEP-00	180	6020	
			PH	8.3	pH	DC	16-AUG-00		150.1	
			SE	0.042	ppm	CH	21-SEP-00	180	6020	
			SO4=	1297.	ppm	JN	06-SEP-00	28	9036	
			TDS	2623.	ppm	BD	14-AUG-00	7	160.1	
			TSS	4.3	ppm	BD	14-AUG-00		160.2	
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020	
			AS	<0.005	ppm	CH	21-SEP-00	180	6020	
			CA	<1.0	ppm	MK	16-SEP-00	180	6010	
			CD	<0.005	ppm	CH	21-SEP-00	180	6020	
			CL-	<1.0	ppm	JN	22-AUG-00	28	325.2	
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1	
			COND.	<5.0	umhos/cm2	BD	15-AUG-00	28	120.1	
L001286-010	09-AUG-00	EPRI-0008-230	CR	<0.010	ppm	CH	21-SEP-00	180	6020	
			CU	<0.025	ppm	CH	21-SEP-00		6020	
			F-	<0.050	ppm	EH	07-SEP-00	28	340.2	
			FE	<0.10	ppm	EH	16-SEP-00	180	6010	
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00	14	310.1	
			K	<2.0	ppm	MK	16-SEP-00	180	6010	
			MG	<1.0	ppm	MK	16-SEP-00	180	6010	
			NA	<2.0	ppm	MK	16-SEP-00	180	6010	
			NO2/NO3	0.10	ppm	JN	08-SEP-00	28	353.2	
			PB	<0.003	ppm	CH	21-SEP-00	180	6020	
			PH	5.7	pH	DC	16-AUG-00		150.1	
			SE	<0.005	ppm	CH	21-SEP-00	180	6020	
			SO4=	<2.0	ppm	JN	06-SEP-00	28	9036	
			TDS	<10.	ppm	BD	14-AUG-00	7	160.1	
			TSS	<1.0	ppm	BD	14-AUG-00		160.2	
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020	
L001286-011	09-AUG-00	EPRI-0008-162	AS	0.021	ppm	CH	21-SEP-00	180	6020	
			CA	73.	ppm	MK	16-SEP-00	180	6010	
			CD	<0.005	ppm	CH	21-SEP-00	180	6020	
			CL-	684.	ppm	JN	22-AUG-00	28	325.2	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-011	09-AUG-00	EPRI-0008-162	CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	6460.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	2.5	ppm	EH	07-SEP-00	28	340.2
			FE	0.30	ppm	MK	16-SEP-00	180	6010
			HCO3	354.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	90.	ppm	MK	16-SEP-00	180	6010
			MG	67.	ppm	MK	16-SEP-00	180	6010
			NA	1008.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	11.	ppm	JN	08-SEP-00	28	353.2
			PB	0.004	ppm	CH	21-SEP-00	180	6020
			PH	8.3	ph	DC	16-AUG-00		150.1
			SE	0.46	ppm	CH	21-SEP-00	180	6020
			SO4=	2168.	ppm	CH	06-SEP-00	28	9036
			TDS	4548.	ppm	BD	14-AUG-00	7	160.1
			TSS	14.	ppm	BD	14-AUG-00		160.2
			ZN	0.032	ppm	CH	21-SEP-00	180	6020
			AS	1.3	ppm	CH	21-SEP-00	180	6020
			CA	35.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	218.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	2520.	umhos/cm2	BD	15-AUG-00	28	120.1
L001286-012	09-AUG-00	EPRI-0008-172	CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	2.4	ppm	EH	07-SEP-00	28	340.2
			FE	0.12	ppm	MK	16-SEP-00	180	6010
			HCO3	252.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	38.	ppm	MK	16-SEP-00	180	6010
			MG	28.	ppm	MK	16-SEP-00	180	6010
			NA	326.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	5.1	ppm	JN	08-SEP-00	28	353.2
			PB	0.005	ppm	CH	21-SEP-00	180	6020
			PH	8.3	ph	DC	16-AUG-00		150.1
			SE	0.051	ppm	CH	21-SEP-00	180	6020
			SO4=	693.	ppm	JN	06-SEP-00	28	9036
			TDS	1657.	ppm	BD	14-AUG-00	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-012	09-AUG-00	EPRI-0008-172	TSS	1.3	ppm	BD	14-AUG-00	180	160.2
			ZN	0.021	ppm	CH	21-SEP-00	180	6020
			AS	3.5	ppm	CH	21-SEP-00	180	6020
			CA	51.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	130.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	16-AUG-00	310.1	
			COND.	2480.	unhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	3.6	ppm	EH	07-SEP-00	28	340.2
			FE	0.49	ppm	MK	16-SEP-00	180	6010
			HCO3	247.	ppm	CaCO3	16-AUG-00	14	310.1
			K	53.	ppm	MK	16-SEP-00	180	6010
			MG	24.	ppm	MK	16-SEP-00	180	6010
			NA	376.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	7.2	ppm	JN	08-SEP-00	28	353.2
			PB	0.006	ppm	CH	21-SEP-00	180	6020
			PH	7.7	pH	DC	16-AUG-00	150.1	
			SE	0.47	ppm	CH	21-SEP-00	180	6020
			SO4=	741.	ppm	JN	06-SEP-00	28	9036
			TDS	1624.	ppm	BD	14-AUG-00	7	160.1
			TSS	21.	ppm	BD	14-AUG-00	160.2	
			ZN	0.033	ppm	CH	21-SEP-00	180	6020
			AS	0.011	ppm	CH	21-SEP-00	180	6020
			CA	84.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	369.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	16-AUG-00	310.1	
			COND.	3930.	unhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	2.4	ppm	EH	07-SEP-00	28	340.2
			FE	0.16	ppm	MK	16-SEP-00	180	6010
			HCO3	314.	ppm	CaCO3	16-AUG-00	14	310.1
			K	20.	ppm	MK	16-SEP-00	180	6010
			MG	63.	ppm	MK	16-SEP-00	180	6010

L001286-014 09-AUG-00 EPRI-0008-173

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	METHOD
L001286-014	09-AUG-00	EPRI-0008-173	NA	587.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	8.9	ppm	JN	08-SEP-00	28	353.2
			PE	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	8.1	pH	DC	16-AUG-00		150.1
			SE	0.056	ppm	CH	21-SEP-00	180	6020
			SO4=	1308.	ppm	JN	06-SEP-00	28	9036
			TDS	2726.	ppm	BD	14-AUG-00	7	160.1
			TSS	5.9	ppm	BD	14-AUG-00		160.2
			ZN	0.022	ppm	CH	21-SEP-00	180	6020
			AS	0.009	ppm	CH	21-SEP-00	180	6020
			CA	33.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	109.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	2130.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
L001286-015	09-AUG-00	EPRI-0008-148	CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	3.8	ppm	EH	07-SEP-00	28	340.2
			FE	0.11	ppm	MK	16-SEP-00	180	6010
			HCO3	460.	ppm	DC	16-AUG-00	14	310.1
			K	17.	ppm	MK	16-SEP-00	180	6010
			MG	18.	ppm	MK	16-SEP-00	180	6010
			NA	359.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	2.5	ppm	JN	08-SEP-00	28	353.2
			PE	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	8.3	pH	DC	16-AUG-00		150.1
			SE	0.058	ppm	CH	21-SEP-00	180	6020
			SO4=	569.	ppm	JN	06-SEP-00	28	9036
			TDS	1453.	ppm	BD	14-AUG-00	7	160.1
			TSS	5.0	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
L001286-016	09-AUG-00	EPRI-0008-152	AS	<0.005	ppm	CH	21-SEP-00	180	6020
			CA	38.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	271.	ppm	JN	22-AUG-00	28	325.2
			CO3	34.	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	2600.	umhos/cm2	BD	15-AUG-00	28	120.1

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Batch No: L001286

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-016	09-AUG-00	EPRI-0008-152	CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	2.6	ppm	EH	07-SEP-00	28	340.2
			FE	0.21	ppm	MK	16-SEP-00	180	6010
			HCO3	247.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	12.	ppm	MK	16-SEP-00	180	6010
			MG	27.	ppm	MK	16-SEP-00	180	6010
			NA	425.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	6.3	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	8.6	pH	DC	16-AUG-00		150.1
			SE	0.028	ppm	CH	21-SEP-00	180	6020
			SO4=	675.	ppm	JN	06-SEP-00	28	9036
			TDS	1652.	ppm	BD	14-AUG-00	7	160.1
			TSS	8.8	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
L001286-017	09-AUG-00	EPRI-0008-145	AS	0.007	ppm	CH	21-SEP-00	180	6020
			CA	44.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	387.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	4350.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	5.0	ppm	EH	07-SEP-00	28	340.2
			FE	0.32	ppm	MK	16-SEP-00	180	6010
			HCO3	373.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	12.	ppm	MK	16-SEP-00	180	6010
			MG	46.	ppm	MK	16-SEP-00	180	6010
			NA	813.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	10.	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	8.3	pH	DC	16-AUG-00		150.1
			SE	0.11	ppm	CH	21-SEP-00	180	6020
			SO4=	1337.	ppm	JN	06-SEP-00	28	9036
			TDS	2946.	ppm	BD	14-AUG-00	7	160.1
			TSS	30.	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	METHOD	
L001286-018	09-AUG-00	EPRI-0008-151	AS	2.6	ppm	CH	21-SEP-00	180	6020
			CA	65.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	164.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00	28	310.1
			COND.	2620.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	3.7	ppm	EH	07-SEP-00	28	340.2
			FE	0.44	ppm	MK	16-SEP-00	180	6010
			HCO3	330.	ppm	DC	16-AUG-00	14	310.1
			K	25.	ppm	MK	16-SEP-00	180	6010
			MG	31.	ppm	MK	16-SEP-00	180	6010
			NA	387.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	8.4	ppm	JN	08-SEP-00	28	353.2
			PB	0.006	ppm	CH	21-SEP-00	180	6020
			PH	8.1	pH	DC	16-AUG-00	150.1	
			SE	0.18	ppm	CH	21-SEP-00	180	6020
			SO4=	765.	ppm	JN	06-SEP-00	28	9036
			TDS	1784.	ppm	BD	14-AUG-00	7	160.1
			TSS	15.	ppm	BD	14-AUG-00	160.2	
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
L001286-019	09-AUG-00	EPRI-0008-147	AS	0.78	ppm	CH	21-SEP-00	180	6020
			CA	169.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	235.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00	28	310.1
			COND.	3260.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	2.6	ppm	EH	07-SEP-00	28	340.2
			FE	0.32	ppm	MK	16-SEP-00	180	6010
			HCO3	280.	ppm	DC	16-AUG-00	14	310.1
			K	30.	ppm	MK	16-SEP-00	180	6010
			MG	76.	ppm	MK	16-SEP-00	180	6010
			NA	431.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	6.1	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-019	09-AUG-00	EPRI-0008-147	PH	7.8	pH	DC	16-AUG-00	150.1	
			SE	0.28	ppm	CH	21-SEP-00	180	6020
			SO4=	1189.	ppm	JN	06-SEP-00	28	9036
			TDS	2344.	ppm	BD	14-AUG-00	7	160.1
			TSS	11.	ppm	BD	14-AUG-00	160.2	
			ZN	0.024	ppm	CH	21-SEP-00	180	6020
			AS	0.013	ppm	CH	21-SEP-00	180	6020
			CA	163.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	484.	ppm	JN	22-AUG-00	28	325.2
L001286-020	10-AUG-00	EPRI-0008-146	CO3	<1.0	ppm	CaCO3	16-AUG-00	310.1	
			COND.	5230.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	1.3	ppm	EH	07-SEP-00	28	340.2
			FE	0.26	ppm	MK	16-SEP-00	180	6010
			HCO3	444.	ppm	CaCO3	16-AUG-00	14	310.1
			K	21.	ppm	MK	16-SEP-00	180	6010
			MG	74.	ppm	MK	16-SEP-00	180	6010
			NA	766.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	0.40	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	7.9	pH	DC	16-AUG-00	150.1	
			SE	<0.005	ppm	CH	21-SEP-00	180	6020
			SO4=	1877.	ppm	JN	06-SEP-00	28	9036
			TDS	3789.	ppm	BD	14-AUG-00	7	160.1
			TSS	6.6	ppm	BD	14-AUG-00	160.2	
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
			AS	2.3	ppm	CH	21-SEP-00	180	6020
			CA	166.	ppm	MK	16-SEP-00	180	6010
L001286-021	10-AUG-00	EPRI-0008-127	CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	459.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	CaCO3	16-AUG-00	310.1	
			COND.	4960.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	0.027	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	5.1	ppm	EH	07-SEP-00	28	340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-021	10-AUG-00	EPRI-0008-127	FE	0.38	ppm	MK	16-SEP-00	180	6010
			HCO3	346.	ppm	DC	16-AUG-00	14	310.1
			K	86.	ppm	MK	16-SEP-00	180	6010
			MG	81.	ppm	MK	16-SEP-00	180	6010
			NA	706.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	4.1	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	7.7	PH	DC	16-AUG-00		150.1
			SE	0.23	ppm	CH	21-SEP-00	180	6020
			SO4=	1665.	ppm	JN	06-SEP-00	28	9036
			TDS	3632.	ppm	BD	14-AUG-00	7	160.1
			TSS	7.2	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
			AS	2.4	ppm	CH	21-SEP-00	180	6020
			CA	165.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	461.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm	DC	16-AUG-00		310.1
			COND.	4990.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	0.026	ppm	CH	21-SEP-00	180	6020
L001286-022	10-AUG-00	EPRI-0008-231	CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	5.1	ppm	EH	07-SEP-00	28	340.2
			FE	0.34	ppm	MK	16-SEP-00	180	6010
			HCO3	350.	ppm	DC	16-AUG-00	14	310.1
			K	83.	ppm	MK	16-SEP-00	180	6010
			MG	80.	ppm	MK	16-SEP-00	180	6010
			NA	675.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	4.2	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	7.8	PH	DC	16-AUG-00		150.1
			SE	0.24	ppm	CH	21-SEP-00	180	6020
			SO4=	1796.	ppm	JN	06-SEP-00	28	9036
			TDS	3579.	ppm	BD	14-AUG-00	7	160.1
			TSS	6.2	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
			AS	0.049	ppm	CH	21-SEP-00	180	6020
			CA	344.	ppm	MK	16-SEP-00	180	6010
L001286-023	10-AUG-00	EPRI-0008-132							

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-023	10-AUG-00	EPRI-0008-132	CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	616.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	9200.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	1.9	ppm	EH	07-SEP-00	28	340.2
			FE	0.17	ppm	MK	16-SEP-00	180	6010
			HCO3	220.	ppm	DC	16-AUG-00	14	310.1
			K	19.	ppm CaCO3	MK	16-SEP-00	180	6010
			MG	184.	ppm	MK	16-SEP-00	180	6010
			NA	1416.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	86.	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	8.2	pH	DC	16-AUG-00		150.1
			SE	0.50	ppm	CH	21-SEP-00	180	6020
			SO4=	4164.	ppm	JN	06-SEP-00	28	9036
			TDS	7559.	ppm	BD	14-AUG-00	7	160.1
			TSS	4.1	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
L001286-024	10-AUG-00	EPRI-0008-130	AS	1.1	ppm	CH	21-SEP-00	180	6020
			CA	149.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	357.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	4170.	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	3.4	ppm	EH	07-SEP-00	28	340.2
			FE	0.14	ppm	MK	16-SEP-00	180	6010
			HCO3	332.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	43.	ppm	MK	16-SEP-00	180	6010
			MG	57.	ppm	MK	16-SEP-00	180	6010
			NA	558.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	2.6	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	21-SEP-00	180	6020
			PH	7.8	pH	DC	16-AUG-00		150.1
			SE	0.28	ppm	CH	21-SEP-00	180	6020

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Batch No: L001286

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	
							ANALYZED	HOLD
L001286-024	10-AUG-00	EPRI-0008-130	SO4=	1371.	ppm	JN	06-SEP-00	28
			TDS	3025.	ppm	BD	14-AUG-00	7
			TSS	1.7	ppm	BD	14-AUG-00	160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180
							21-SEP-00	6020
			AS	0.021	ppm	CH	21-SEP-00	180
			CA	224.	ppm	MK	16-SEP-00	180
			CD	<0.005	ppm	CH	21-SEP-00	180
			CL-	852.	ppm	JN	22-AUG-00	28
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1
			COND.	7600.	umhos/cm2	BD	15-AUG-00	28
			CR	0.022	ppm	CH	21-SEP-00	180
			CU	<0.025	ppm	CH	21-SEP-00	6020
			F-	2.0	ppm	EH	07-SEP-00	28
L001286-025	10-AUG-00	EPRI-0008-131	FE	0.89	ppm	MK	16-SEP-00	180
			HCO3	514.	ppm	DC	16-AUG-00	14
			K	31.	ppm	MK	16-SEP-00	180
			MG	137.	ppm	MK	16-SEP-00	180
			NA	1102.	ppm	MK	16-SEP-00	180
			NO2/NO3	1.1	ppm	JN	08-SEP-00	28
			PB	0.010	ppm	CH	21-SEP-00	180
			PH	7.8	pH	DC	16-AUG-00	150.1
			SE	0.20	ppm	CH	21-SEP-00	180
			SO4=	2832.	ppm	JN	06-SEP-00	28
			TDS	5714.	ppm	BD	14-AUG-00	7
			TSS	17.	ppm	BD	14-AUG-00	160.2
			ZN	0.021	ppm	CH	21-SEP-00	180
							21-SEP-00	6020
L001286-026	10-AUG-00	EPRI-0008-128	AS	0.012	ppm	CH	21-SEP-00	180
			CA	505.	ppm	MK	16-SEP-00	180
			CD	<0.005	ppm	CH	21-SEP-00	180
			CL-	914.	ppm	JN	22-AUG-00	28
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1
			COND.	8300.	umhos/cm2	BD	15-AUG-00	28
			CR	0.91	ppm	CH	21-SEP-00	180
			CU	0.025	ppm	CH	21-SEP-00	6020
			F-	1.7	ppm	EH	07-SEP-00	28
			FE	4.8	ppm	MK	16-SEP-00	180
			HCO3	263.	ppm CaCO3	DC	16-AUG-00	14
							16-AUG-00	310.1

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L001286-026	10-AUG-00	EPRI-0008-128	K	14.	ppm	MK	16-SEP-00	180	6010
			MG	192.	ppm	MK	16-SEP-00	180	6010
			NA	1064.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	52.	ppm	JN	08-SEP-00	28	353.2
			PB	0.006	ppm	CH	21-SEP-00	180	6020
			PH	7.8	pH	DC	16-AUG-00		150.1
			SE	0.21	ppm	CH	21-SEP-00	180	6020
			SO4=	3542.	ppm	JN	06-SEP-00	28	9036
			TDS	6745.	ppm	BD	14-AUG-00	7	160.1
			TSS	14.	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020
			AS	8.5	ppm	CH	21-SEP-00	180	6020
			CA	454.	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	543.	ppm	JN	22-AUG-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	7420.	umhos/cm2	BD	15-AUG-00	28	120.1
L001286-027	10-AUG-00	EPRI-0008-134	CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	3.2	ppm	EH	07-SEP-00	28	340.2
			FE	0.17	ppm	MK	16-SEP-00	180	6010
			HCO3	389.	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	49.	ppm	MK	16-SEP-00	180	6010
			MG	112.	ppm	MK	16-SEP-00	180	6010
			NA	1144.	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	34.	ppm	JN	08-SEP-00	28	353.2
			PB	0.006	ppm	CH	21-SEP-00	180	6020
			PH	7.9	pH	DC	16-AUG-00		150.1
			SE	0.29	ppm	CH	21-SEP-00	180	6020
			SO4=	3531.	ppm	JN	06-SEP-00	28	9036
			TDS	6233.	ppm	BD	14-AUG-00	7	160.1
			TSS	2.5	ppm	BD	14-AUG-00		160.2
			ZN	0.021	ppm	CH	21-SEP-00	180	6020
L001286-028	10-AUG-00	EPRI-0008-232	AS	<0.005	ppm	CH	21-SEP-00	180	6020
			CA	<1.0	ppm	MK	16-SEP-00	180	6010
			CD	<0.005	ppm	CH	21-SEP-00	180	6020
			CL-	<1.0	ppm	JN	22-AUG-00	28	325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

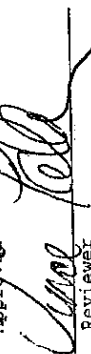
El Paso

Water and Solid Waste (Project 3220)

Batch No: L001286

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001286-028	10-AUG-00	EFRI-0008-232	CO3	<1.0	ppm CaCO3	DC	16-AUG-00	28	310.1
			COND.	<5.0	umhos/cm2	BD	15-AUG-00	28	120.1
			CR	<0.010	ppm	CH	21-SEP-00	180	6020
			CU	<0.025	ppm	CH	21-SEP-00	180	6020
			P-	<0.050	ppm	EH	07-SEP-00	28	340.2
			FE	<0.10	ppm	MK	16-SEP-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00	14	310.1
			K	<2.0	ppm	MK	16-SEP-00	180	6010
			MG	<1.0	ppm	MK	16-SEP-00	180	6010
			NA	<2.0	ppm	MK	16-SEP-00	180	6010
			NO2/NO3	<0.10	ppm	JN	08-SEP-00	28	353.2
			PB	0.006	ppm	CH	21-SEP-00	180	6020
			PH	5.8	pH	DC	16-AUG-00	150.1	
			SE	<0.005	ppm	CH	21-SEP-00	180	6020
			SO4=	<2.0	ppm	JN	06-SEP-00	28	9036
			TDS	<10.	ppm	BD	14-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	14-AUG-00	160.2	
			ZN	<0.020	ppm	CH	21-SEP-00	180	6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

Approved: 
Reviewer: 

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000917

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000917-1		Matrix Spike	AS	97	%Recovery	CH	21-SEP-00	6020	
			CD	94	%Recovery	CH	21-SEP-00	6020	
			CL	88	%Recovery	JN	22-AUG-00	325.2	
			CR	99	%Recovery	CH	21-SEP-00	6020	
			CU	90	%Recovery	CH	21-SEP-00	6020	
			F-	97	%Recovery	EH	07-SEP-00	340.2	
			FE	80	%Recovery	MK	16-SEP-00	6010	
			NO2/NO3	117	%Recovery	JN	08-SEP-00	353.2	
			PB	91	%Recovery	CH	21-SEP-00	6020	
			SE	95	%Recovery	CH	21-SEP-00	6020	
			SO4=	86	%Recovery	JN	06-SEP-00	9036	
			ZN	84	%Recovery	CH	21-SEP-00	6020	
			AS	<0.005	ppm	CH	21-SEP-00	6020	
			CA	<1.0	ppm	MK	16-SEP-00	6010	
			CD	<0.005	ppm	CH	21-SEP-00	6020	
			CL-	<1.0	ppm	JN	22-AUG-00	325.2	
			CO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1	
WG000917-2		Prep Blank	COND.	<5.0	umbos/cm2	BD	15-AUG-00	120.1	
			CR	<0.010	ppm	CH	21-SEP-00	6020	
			CU	<0.025	ppm	CH	21-SEP-00	6020	
			F-	<0.050	ppm	EH	07-SEP-00	340.2	
			FE	<0.10	ppm	MK	16-SEP-00	6010	
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00	310.1	
			K	<2.0	ppm	MK	16-SEP-00	6010	
			MG	<1.0	ppm	MK	16-SEP-00	6010	
			NA	<2.0	ppm	MK	16-SEP-00	6010	
			NO2/NO3	<0.050	ppm	JN	08-SEP-00	353.2	
			PB	<0.003	ppm	CH	21-SEP-00	6020	
			SE	<0.005	ppm	CH	21-SEP-00	6020	
			SO4=	<2.0	ppm	JN	06-SEP-00	9036	
			TDS	<10.	ppm	BD	14-AUG-00	160.1	
			TSS	<1.0	ppm	BD	14-AUG-00	160.2	
			ZN	<0.020	ppm	CH	21-SEP-00	6020	
WG000917-3		Lab Control Sample	AS	101	%Recovery	CH	21-SEP-00	6020	
			CA	93	%Recovery	MK	16-SEP-00	6010	
			CD	100	%Recovery	CH	21-SEP-00	6020	
			CL-	102	%Recovery	JN	22-AUG-00	325.2	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000917

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
WG000917-3		Lab Control Sample	COND.	100		%Recovery	BD	120.1
			CR	103		%Recovery	CH	6020
			CU	105		%Recovery	CH	6020
			F-	100		%Recovery	EH	340.2
			FE	86		%Recovery	MK	6010
			HCO3	105		%Recovery	DC	310.1
			K	85		%Recovery	MK	6010
			MG	82		%Recovery	MK	6010
			NA	78		%Recovery	MK	6010
			NO2/NO3	97		%Recovery	JN	353.2
			PB	99		%Recovery	CH	6020
			SE	105		%Recovery	CH	6020
			SO4=	90		%Recovery	JN	9036
			TDS	100		%Recovery	BD	160.1
			TSS	95		%Recovery	BD	160.2
			ZN	106		%Recovery	CH	6020
WG000917-4		Duplicate	CL-	<1		% RPD	JN	325.2
			CO3	<1		% RPD	DC	310.1
			COND.	<1		% RPD	BD	120.1
			F-	5.1		% RPD	EH	340.2
			HCO3	<1		% RPD	DC	310.1
			NO2/NO3	5.8		% RPD	JN	353.2
			SO4=	<1		% RPD	JN	9036
			TDS	1.5		% RPD	BD	160.1
			TSS	5.5		% RPD	BD	160.2
WG000917-5		Matrix Spike Duplicate	AS	<1		% RPD	CH	6020
			CA	12		% RPD	MK	6010
			CD	<1		% RPD	CH	6020
			CR	1.3		% RPD	CH	6020
			CU	<1		% RPD	CH	6020
			FE	7.3		% RPD	MK	6010
			K	8.4		% RPD	MK	6010
			MG	9.0		% RPD	MK	6010
			NA	7.7		% RPD	MK	6010
			PB	1.7		% RPD	CH	6020
			SE	1.8		% RPD	CH	6020
			ZN	5.8		% RPD	CH	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000917

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000917-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	unhos/cm2				120.1
			CR	0.010	ppm				6020
			CU	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			HCO3	1.0	ppm CaCO3				310.1
			X	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				6010
			NO2/NO3	0.050	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020
WG000917-7		Matrix Spike	AS	SR>4XSA	\$Recovery	CH	21-SEP-00		6020
			CD	88	\$Recovery	CH	21-SEP-00		6020
			CL-	100	\$Recovery	JN	22-AUG-00		325.2
			CR	99	\$Recovery	CH	21-SEP-00		6020
			CU	88	\$Recovery	CH	21-SEP-00		6020
			F-	100	\$Recovery	EH	07-SEP-00		340.2
			FE	87	\$Recovery	MK	16-SEP-00		6010
			NO2/NO3	108	\$Recovery	JN	08-SEP-00		353.2
			PB	94	\$Recovery	CH	21-SEP-00		6020
			SE	99	\$Recovery	CH	21-SEP-00		6020
			SO4=	103	\$Recovery	JN	06-SEP-00		9036
			ZN	78	\$Recovery	CH	21-SEP-00		6020
WG000917-8		Prep Blank	AS	<0.005	ppm	CH	21-SEP-00		6020
			CA	<1.0	ppm	MK	16-SEP-00		6010
			CD	<0.005	ppm	CH	21-SEP-00		6020
			CL-	<1.0	ppm	JN	22-AUG-00		325.2

ASAPCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000917

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
WG000917-8		Prep Blank	CO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	15-AUG-00		120.1
			CR	<0.010	ppm	CH	21-SEP-00		6020
			CU	<0.025	ppm	CH	21-SEP-00		6020
			F-	<0.050	ppm	EH	07-SEP-00		340.2
			FE	<0.10	ppm	MK	16-SEP-00		6010
			HCO3	<1.0	ppm CaCO3	DC	16-AUG-00		310.1
			K	<2.0	ppm	MK	16-SEP-00		6010
			MG	<1.0	ppm	MK	16-SEP-00		6010
			NA	<2.0	ppm	MK	16-SEP-00		6010
			NO2/NO3	<0.050	ppm	JN	08-SEP-00		353.2
			PB	<0.003	ppm	CH	21-SEP-00		6020
			SE	<0.005	ppm	CH	21-SEP-00		6020
			SO4=	<2.0	ppm	JN	06-SEP-00		9036
			TDS	<10.	ppm	BD	14-AUG-00		160.1
			TSS	<1.0	ppm	BD	14-AUG-00		160.2
			ZN	<0.020	ppm	CH	21-SEP-00		6020
			AS	105	%Recovery	CH	21-SEP-00		6020
			CA	85	%Recovery	MK	16-SEP-00		6010
			CD	101	%Recovery	CH	21-SEP-00		6020
			CL-	96	%Recovery	JN	22-AUG-00		325.2
			COND.	100	%Recovery	BD	15-AUG-00		120.1
			CR	103	%Recovery	CH	21-SEP-00		6020
			CU	101	%Recovery	CH	21-SEP-00		6020
			F-	97	%Recovery	EH	07-SEP-00		340.2
			FE	87	%Recovery	MK	16-SEP-00		6010
			HCO3	101	%Recovery	DC	16-AUG-00		310.1
			K	96	%Recovery	MK	16-SEP-00		6010
			MG	83	%Recovery	MK	16-SEP-00		6010
			NA	91	%Recovery	MK	16-SEP-00		6010
WG000917-9		Lab Control Sample	NO2/NO3	102	%Recovery	JN	08-SEP-00		353.2
			PB	103	%Recovery	CH	21-SEP-00		6020
			SE	113	%Recovery	CH	21-SEP-00		6020
			SO4=	104	%Recovery	JN	06-SEP-00		9036
			TDS	97	%Recovery	BD	14-AUG-00		160.1
			TSS	86	%Recovery	BD	14-AUG-00		160.2
			ZN	115	%Recovery	CH	21-SEP-00		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000917

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		MOLE
							ANALYZED	DAYS	
WG000917-10		Duplicate	CL-	3.0	% RPD	JN	22-AUG-00		325.2
			CO3	<1	% RPD	DC	16-AUG-00		310.1
			COND.	<1	% RPD	BD	15-AUG-00		120.1
			F-	2.1	% RPD	EH	07-SEP-00		340.2
			NO2/NO3	2.2	% RPD	JN	08-SEP-00		353.2
			SO4=	<1	% RPD	JN	06-SEP-00		9036
			TDS	<1	% RPD	BD	14-AUG-00		160.1
			TSS	<1	% RPD	BD	14-AUG-00		160.2
			AS	<1	% RPD	CH	21-SEP-00		6020
			CA	7.2	% RPD	MK	16-SEP-00		6010
			CD	<1	% RPD	CH	21-SEP-00		6020
WG000917-11		Matrix Spike Duplicate	CR	<1	% RPD	CH	21-SEP-00		6020
			CU	2.4	% RPD	CH	21-SEP-00		6020
			FE	7.6	% RPD	MK	16-SEP-00		6010
			K	14	% RPD	MK	16-SEP-00		6010
			MG	8.3	% RPD	MK	16-SEP-00		6010
			NA	11	% RPD	MK	16-SEP-00		6010
			PB	3.9	% RPD	CH	21-SEP-00		6020
			SE	2.6	% RPD	CH	21-SEP-00		6020
			ZN	2.2	% RPD	CH	21-SEP-00		6020

Approved
Reviewer

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		ANALYSIS										REMARKS
DATE	TIME	GRAB	COMP.	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		
0931V2	ASARCO - EL PASO, TX													
SAMPLERS: (Signature) <i>Douglas M. Solon</i>														
8900	830			EPR1-0008-143	X	X			X					
	850			EPR1-0008-150	X	X			X					
	900			EPR1-0008-229	X	X			X					
	920			EPR1-0008-159	X	X			X					
	945			EPR1-0008-158	X	X			X					
	1010			EPR1-0008-160	X	X			X					
	1030			EPR1-0008-157	X	X			X					
	1245			EPR1-0008-161	X	X			X					
	1100			EPR1-0008-149	X	X			X					
	1200			EPR1-0008-230	X	X			X					
	1315			EPR1-0008-162	X	X			X					
	1345			EPR1-0008-172	X	X			X					
	1410			EPR1-0008-144	X	X			X					
	1430			EPR1-0008-173	X	X			X					
	1445			EPR1-0008-148	X	X			X					
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS						
Date/Time		Date/Time		Remarks		Air Bill #								
8/16/00 1600				15C - 500 AT										
Relinquished (Signature)		Received by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits								
Date/Time		Date/Time		Received for Laboratory by: (Signature)		<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter								
8/11/00 930				Mott		<input type="checkbox"/> Other								
Relinquished (Signature)		Received by: (Signature)		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined										
Date/Time		Date/Time												

Return results & electronic copy to:

HYDROMETRICS - K.

CHAIN OF CUSTODY RECORD

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

(20) 544-3150 • FAX (520) 544-3190

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS							REMARKS	
DATE	TIME	COMP.	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTEX	TPH			
8-9-00	1515			EPR1-0008-152	X			X						
	1540			EPR1-0008-145	X			X						
	1600			EPR1-0008-151	X			X						
	1620			EPR1-0008-147	X			X						
8-10-00	915			EPR1-0008-146	X			X						
	930			EPR1-0008-127	X			X						
	940			EPR1-0008-231	X			X						
	1000			EPR1-0008-132	X			X						
	1015			EPR1-0008-130	X			X						
	1040			EPR1-0008-131	X			X						
	1100			EPR1-0008-129	X			X						
	1130			EPR1-0008-134	X			X						
	1150			EPR1-0008-232	X			X						
<div> <div>Relinquished (Signature)</div> <div>8/10/00 1600</div> </div> <div> <div>Relinquished (Signature)</div> <div></div> </div> <div> <div>Relinquished (Signature)</div> <div></div> </div>														
<div> <div>Received by: (Signature)</div> <div>8/10/00 1600</div> </div>					<div> <div>Lab</div> <div>TSC - SLC, UT</div> </div>					<div> <div>P.O. #</div> <div></div> </div>		<div> <div>Shipped via: Bus, Fed Ex, UPS</div> <div>Other</div> </div>		
<div> <div>Received by: (Signature)</div> <div>8/11/00 9:30</div> </div>					<div> <div>Remarks</div> <div></div> </div>					<div> <div>Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits</div> <div><input type="checkbox"/> QA/QC standard mixing instructions</div> <div><input checked="" type="checkbox"/> Cover letter</div> </div>				
<div> <div>Return results & electronic copy to:</div> <div></div> </div>														

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001314

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DATA METHOD
L001314-001	14-AUG-00	EPRI-0008-175	AS	0.97	ppm	CH	19-SEP-00	180	6020
			CA	221.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	491.	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	28	310.1
			COND.	5160.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00	28	6020
			F-	2.6	ppm	EH	14-SEP-00	28	340.2
			FE	1.6	ppm	MK	15-SEP-00	180	6010
			HCO3	290.	ppm	CH	17-AUG-00	14	310.1
			K	59.	ppm CaCO3	DC	15-SEP-00	180	6010
			MG	64.	ppm	MK	15-SEP-00	180	6010
			NA	813.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.074	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	19-SEP-00	180	6020
			PH	7.8	ppm	DC	17-AUG-00	28	150.1
			SE	0.007	ppm	CH	19-SEP-00	180	6020
			SO4=	2041.	ppm	JN	06-SEP-00	28	9036
			TDS	3814.	ppm	BD	18-AUG-00	7	160.1
			TSS	13.	ppm	BD	18-AUG-00	7	160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
L001314-002	14-AUG-00	EPRI-0008-176	AS	0.015	ppm	CH	19-SEP-00	180	6020
			CA	237.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	543.	ppm	JN	11-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	28	310.1
			COND.	7290.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00	28	6020
			F-	1.7	ppm	EH	14-SEP-00	28	340.2
			FE	0.42	ppm	MK	15-SEP-00	180	6010
			HCO3	570.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	88.	ppm	MK	15-SEP-00	180	6010
			MG	119.	ppm	MK	15-SEP-00	180	6010
			NA	996.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.10	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	19-SEP-00	180	6020

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001314

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001314-002	14-AUG-00	EPRI-0008-176	PH	7.6	pH	DC	17-AUG-00	150.1	
			SE	0.016	ppm	CH	19-SEP-00	180	6020
			SO4=	2890.	ppm	JN	06-SEP-00	28	9036
			TDS	5212.	ppm	BD	18-AUG-00	7	160.1
			TSS	5.7	ppm	BD	18-AUG-00	160.2	
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
			AS	0.014	ppm	CH	19-SEP-00	180	6020
			CA	240.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	507.	ppm	JN	11-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1	
			COND.	7260.	umhos/cm2	BD	08-SEP-00	28	120.1
L001314-003	14-AUG-00	EPRI-0008-223	CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00	6020	
			F-	1.7	ppm	EH	14-SEP-00	28	340.2
			FE	0.38	ppm	MK	15-SEP-00	180	6010
			HCO3	570.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	88.	ppm	MK	15-SEP-00	180	6010
			MG	122.	ppm	MK	15-SEP-00	180	6010
			NA	908.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.11	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	19-SEP-00	180	6020
			PH	7.9	pH	DC	17-AUG-00	150.1	
			SE	0.013	ppm	CH	19-SEP-00	180	6020
			SO4=	2908.	ppm	JN	06-SEP-00	28	9036
			TDS	5156.	ppm	BD	18-AUG-00	7	160.1
			TSS	5.1	ppm	BD	18-AUG-00	160.2	
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
			AS	0.005	ppm	CH	19-SEP-00	180	6020
			CA	106.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	246.	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1	
			COND.	3560.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00	6020	
			F-	3.1	ppm	EH	14-SEP-00	28	340.2
L001314-004	14-AUG-00	EPRI-0008-177	AS	0.005	ppm	CH	19-SEP-00	180	6020
			CA	106.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	246.	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1	
			COND.	3560.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00	6020	
			F-	3.1	ppm	EH	14-SEP-00	28	340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DRYS METHOD
L001314-004	14-AUG-00	EPRI-0008-177	FE	0.67	ppm	MK	15-SEP-00	180	6010
			HCO3	322.	ppm	DC	17-AUG-00	14	310.1
			K	34.	ppm	MK	15-SEP-00	180	6010
			MG	47.	ppm	MK	15-SEP-00	180	6010
			NA	518.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.086	ppm	JN	08-SEP-00	28	353.2
			PH	<0.003	ppm	CH	19-SEP-00	180	6020
			PH	7.8	ppm	DC	17-AUG-00		150.1
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
			SO4=	1221.	ppm	JN	06-SEP-00	28	9036
			TDS	2494.	ppm	BD	18-AUG-00	7	160.1
			TSS	1.7	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
L001314-005	14-AUG-00	EPRI-0008-178	AS	240.	ppm	MK	15-SEP-00	180	6010
			CA	732.	ppm	MK	15-SEP-00	180	6010
			CD	1.7.	ppm	MK	15-SEP-00	180	6010.
			CL-	620.	ppm	JN	11-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	17-AUG-00		310.1
			COND.	7730.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	0.066	ppm	MK	15-SEP-00	180	6010
			CU	1.6	ppm	MK	15-SEP-00		6010
			F-	10.	ppm	EH	14-SEP-00	28	340.2
			FE	210.	ppm	MK	15-SEP-00	180	6010
			HCO3	960.	ppm	DC	17-AUG-00	14	310.1
			K	203.	ppm	MK	15-SEP-00	180	6010
			MG	285.	ppm	MK	15-SEP-00	180	6010
			NA	944.	ppm	MK	15-SEP-00	180	353.2
			NO2/NO3	0.082	ppm	JN	08-SEP-00	28	6010
			PH	1.1	ppm	MK	15-SEP-00	180	6010
			PH	6.6	ppm	DC	17-AUG-00		150.1
			SE	0.063	ppm	CH	19-SEP-00	180	6020
			SO4=	3840.	ppm	JN	06-SEP-00	28	9036
			TDS	6743.	ppm	BD	18-AUG-00	7	160.1
			TSS	3973.	ppm	BD	18-AUG-00		160.2
			ZN	51.	ppm	MK	15-SEP-00	180	6010
L001314-006	14-AUG-00	EPRI-0008-179	AS	0.25	ppm	CH	19-SEP-00	180	6020
			CA	489.	ppm	MK	15-SEP-00	180	6010

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L001314-006	14-AUG-00	EPRI-0008-179	CD	0.14	ppm	MK	15-SEP-00	180	6010
			CL-	762.	ppm	JN	11-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	9410.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	0.18	ppm	MK	15-SEP-00		6010
			F-	3.3	ppm	EH	14-SEP-00	28	340.2
			FE	0.48	ppm	MK	15-SEP-00	180	6010
			HCO3	674.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	81.	ppm	MK	15-SEP-00	180	6010
			MG	212.	ppm	MK	15-SEP-00	180	6010
			NA	1263.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	52.	ppm	JN	08-SEP-00	28	353.2
			PB	0.037	ppm	MK	15-SEP-00	180	6010
			PH	7.6	pH	DC	17-AUG-00		150.1
			SE	0.31	ppm	CH	19-SEP-00	180	6020
			SO4=	4050.	ppm	JN	06-SEP-00	28	9036
			TDS	7750.	ppm	BD	18-AUG-00	7	160.1
			TSS	8.5	ppm	BD	18-AUG-00		160.2
			ZN	0.24	ppm	CH	19-SEP-00	180	6020
			AS	3.1	ppm	MK	15-SEP-00	180	6010
			CA	257.	ppm	MK	15-SEP-00	180	6010
			CD	0.40	ppm	MK	15-SEP-00	180	6010
			CL-	481.	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	6180.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	5.6	ppm	MK	15-SEP-00		6010
			F-	4.9	ppm	EH	14-SEP-00	28	340.2
			FE	11.	ppm	MK	15-SEP-00	180	6010
			HCO3	457.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	49.	ppm	MK	15-SEP-00	180	6010
			MG	73.	ppm	MK	15-SEP-00	180	6010
			NA	849.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	11.	ppm	JN	08-SEP-00	28	353.2
			PB	0.55	ppm	MK	15-SEP-00	180	6010
			PH	7.7	pH	DC	17-AUG-00		150.1
			SE	0.19	ppm	CH	19-SEP-00	180	6020
L001314-007	14-AUG-00	EPRI-0008-180	AS	3.1	ppm	MK	15-SEP-00	180	6010
			CA	257.	ppm	MK	15-SEP-00	180	6010
			CD	0.40	ppm	MK	15-SEP-00	180	6010
			CL-	481.	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	6180.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	5.6	ppm	MK	15-SEP-00		6010
			F-	4.9	ppm	EH	14-SEP-00	28	340.2
			FE	11.	ppm	MK	15-SEP-00	180	6010
			HCO3	457.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	49.	ppm	MK	15-SEP-00	180	6010

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001314-007	14-AUG-00	EPRI-0008-180	SO4=	2458.	ppm	JN	06-SEP-00	28	9036
			TDS	4396.	ppm	BD	18-AUG-00	7	160.1
			TSS	442.	ppm	BD	18-AUG-00		160.2
			ZN	2.4	ppm	MK	15-SEP-00	180	6010
			AS	5.8	ppm	MK	15-SEP-00	180	6010
			CA	330.	ppm	MK	15-SEP-00	180	6010
			CD	0.54	ppm	MK	15-SEP-00	180	6010
			CL-	353.	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	3720.	umhos/cm2	BD	08-SEP-00	28	120.1
L001314-008	14-AUG-00	EPRI-0008-181	CR	0.028	ppm	MK	15-SEP-00	180	6010
			CU	0.15	ppm	MK	15-SEP-00		6010
			F-	4.5	ppm	EH	14-SEP-00	28	340.2
			FE	37.	ppm	MK	15-SEP-00	180	6010
			HCO3	491.	ppm	DC	17-AUG-00	14	310.1
			K	83.	ppm CaCO3	MK	15-SEP-00	180	6010
			MG	51.	ppm	MK	15-SEP-00	180	6010
			NA	375.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	11.	ppm	JN	08-SEP-00	28	353.2
			PB	1.8	ppm	MK	15-SEP-00	180	6010
			PH	7.9	ph	DC	17-AUG-00		150.1
			SE	0.95	ppm	CH	19-SEP-00	180	6020
			SO4=	1350.	ppm	JN	06-SEP-00	28	9036
			TDS	2832.	ppm	BD	18-AUG-00	7	160.1
			TSS	5468.	ppm	BD	18-AUG-00		160.2
			ZN	0.79	ppm	MK	15-SEP-00	180	6010
			AS	<0.005	ppm	CH	19-SEP-00	180	6020
			CA	72.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	78.	ppm	JN	11-SEP-00	28	325.2
L001314-009	14-AUG-00	EPRI-0008-188	CO3	8.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	956.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00		6020
			F-	0.69	ppm	EH	14-SEP-00	28	340.2
			FE	6.3	ppm	MK	15-SEP-00	180	6010
			HCO3	188.	ppm CaCO3	DC	17-AUG-00	14	310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PAUSE	
L001314-009	14-AUG-00	EPRI-0008-188	K	9.1	ppm	MK	15-SEP-00	180	6010
			MG	17.	ppm	MK	15-SEP-00	180	6010
			NA	100.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.53	ppm	JN	08-SEP-00	28	353.2
			PB	0.005	ppm	CH	19-SEP-00	180	6020
			PH	8.6	PH	DC	17-AUG-00		150.1
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
			SO4=	187.	ppm	JN	06-SEP-00	28	9036
			TDS	603.	ppm	BD	18-AUG-00	7	160.1
			TSS	286.	ppm	BD	18-AUG-00		160.2
			ZN	0.043	ppm	CH	19-SEP-00	180	6020
			AS	<0.005	ppm	CH	19-SEP-00	180	6020
			CA	67.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	80.	ppm	JN	11-SEP-00	28	325.2
			CO3	18.	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	984.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00		6020
			F-	0.66	ppm	EH	14-SEP-00	28	340.2
L001314-010	14-AUG-00	EPRI-0008-183	FE	5.9	ppm	MK	15-SEP-00	180	6010
			HCO3	182.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	9.1	ppm	MK	15-SEP-00	180	6010
			MG	16.	ppm	MK	15-SEP-00	180	6010
			NA	103.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.66	ppm	JN	08-SEP-00	28	353.2
			PB	0.006	ppm	CH	19-SEP-00	180	6020
			PH	8.6	PH	DC	17-AUG-00		150.1
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
			SO4=	213.	ppm	JN	06-SEP-00	28	9036
			TDS	611.	ppm	BD	18-AUG-00	7	160.1
			TSS	278.	ppm	BD	18-AUG-00		160.2
			ZN	0.034	ppm	CH	19-SEP-00	180	6020
			AS	<0.005	ppm	CH	19-SEP-00	180	6020
			CA	68.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	73.	ppm	JN	11-SEP-00	28	325.2
L001314-011	14-AUG-00	EPRI-0008-234	AS	<0.005	ppm	CH	19-SEP-00	180	6020
			CA	68.	ppm	MK	15-SEP-00	180	6010

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L001314-011	14-AUG-00	EPRI-0008-234	CO3	18.	ppm CaCO3	DC	17-AUG-00	310.1
			COND.	987.	umhos/cm2	BD	08-SEP-00	28
			CR	<0.010	ppm	MK	15-SEP-00	180
			CU	<0.025	ppm	CH	19-SEP-00	6020
			F-	0.68	ppm	EH	14-SEP-00	28
			FE	5.6	ppm	MK	15-SEP-00	340.2
			HCO3	184.	ppm CaCO3	DC	17-AUG-00	14
			K	8.5	ppm	MK	15-SEP-00	180
			MG	16.	ppm	MK	15-SEP-00	6010
			NA	99.	ppm	MK	15-SEP-00	180
			NO2/NO3	0.51	ppm	JN	08-SEP-00	28
			PB	0.005	ppm	CH	19-SEP-00	180
			PH	8.6	pH	DC	17-AUG-00	6020
			SE	<0.005	ppm	CH	19-SEP-00	180
			SO4=	207.	ppm	JN	06-SEP-00	28
			TDS	626.	ppm	BD	18-AUG-00	7
			TSS	275.	ppm	BD	18-AUG-00	160.2
			ZN	0.024	ppm	CH	19-SEP-00	180
								6020
L001314-012	14-AUG-00	EPRI-0008-185	AS	<0.005	ppm	CH	19-SEP-00	180
			CA	71.	ppm	MK	15-SEP-00	6010
			CD	<0.005	ppm	CH	19-SEP-00	180
			CL-	76.	ppm	JN	11-SEP-00	28
			CO3	18.	ppm CaCO3	DC	17-AUG-00	310.1
			COND.	987.	umhos/cm2	BD	08-SEP-00	28
			CR	<0.010	ppm	MK	15-SEP-00	180
			CU	<0.025	ppm	CH	19-SEP-00	6020
			F-	0.68	ppm	EH	14-SEP-00	28
			FE	6.0	ppm	MK	15-SEP-00	340.2
			HCO3	181.	ppm CaCO3	DC	17-AUG-00	14
			K	9.3	ppm	MK	15-SEP-00	180
			MG	16.	ppm	MK	15-SEP-00	6010
			NA	103.	ppm	MK	15-SEP-00	180
			NO2/NO3	0.57	ppm	JN	08-SEP-00	28
			PB	0.005	ppm	CH	19-SEP-00	180
			PH	8.6	pH	DC	17-AUG-00	150.1
			SE	<0.005	ppm	CH	19-SEP-00	180
			SO4=	208.	ppm	JN	06-SEP-00	28
			TDS	634.	ppm	BD	18-AUG-00	7

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001314-012	14-AUG-00	EPRI-0008-185	TSS	280.	ppm	BD	18-AUG-00	160.2	
			ZN	0.023	ppm	CH	19-SEP-00	180	6020
			AS	<0.005	ppm	CH	19-SEP-00	180	6020
			CA	65.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	73.	ppm	JN	11-SEP-00	28	325.2
			CO3	18.	ppm CaCO3	DC	17-AUG-00	310.1	
			COND.	987.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00	6020	
L001314-013	14-AUG-00	EPRI-0008-187	P-	0.68	ppm	EH	14-SEP-00	28	340.2
			FE	5.8	ppm	MK	15-SEP-00	180	6010
			HCO3	183.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	8.2	ppm	MK	15-SEP-00	180	6010
			MG	15.	ppm	MK	15-SEP-00	180	6010
			NA	93.	ppm	MK	15-SEP-00	28	353.2
			NO2/NO3	0.63	ppm	JN	08-SEP-00	28	6020
			PB	0.006	ppm	CH	19-SEP-00	180	6020
			PH	8.6	pH	DC	17-AUG-00	150.1	
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
L001314-014	14-AUG-00	EPRI-0008-182	SO4=	188.	ppm	JN	06-SEP-00	28	9036
			TDS	630.	ppm	BD	18-AUG-00	7	160.1
			TSS	274.	ppm	BD	18-AUG-00	160.2	
			ZN	0.026	ppm	CH	19-SEP-00	180	6020
			AS	0.22	ppm	CH	19-SEP-00	180	6020
			CA	96.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	251.	ppm	JN	11-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1	
			COND.	3280.	umhos/cm2	BD	08-SEP-00	28	120.1
L001314-014	14-AUG-00	EPRI-0008-182	CR	0.010	ppm	MK	15-SEP-00	180	6010
			CU	0.073	ppm	CH	19-SEP-00	6020	
			F-	1.5	ppm	EH	14-SEP-00	28	340.2
			FE	37.	ppm	MK	15-SEP-00	180	6010
			HCO3	217.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	16.	ppm	MK	15-SEP-00	180	6010
			MG	49.	ppm	MK	15-SEP-00	180	6010

ASARCO TECHNICAL SERVICES CENTER
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El Paso

Water and Solid Waste (Project 3220)

Batch No: L001314

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	METHOD
L001314-014	14-AUG-00	EPRI-0008-182	NA	480.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	15.	ppm	JN	08-SEP-00	28	353.2
			PB	0.12	ppm	CH	19-SEP-00	180	6020
			PH	8.3	pH	DC	17-AUG-00	150.1	
			SE	0.30	ppm	CH	19-SEP-00	180	6020
			SO4=	1060.	ppm	JN	06-SEP-00	28	9036
			TDS	2243.	ppm	BD	18-AUG-00	7	160.1
			TSS	1139.	ppm	BD	18-AUG-00		160.2
			ZN	0.11	ppm	CH	19-SEP-00	180	6020
			AS	<0.005	ppm	CH	19-SEP-00	180	6020
			CA	<1.0	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	<1.0	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00		6020
			F-	<0.050	ppm	CH	14-SEP-00	28	340.2
			FE	<0.10	ppm	MK	15-SEP-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	17-AUG-00	14	310.1
L001314-015	14-AUG-00	EPRI-0008-235	K	<2.0	ppm	MK	15-SEP-00	180	6010
			Mg	<1.0	ppm	MK	15-SEP-00	180	6010
			NA	<2.0	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	<0.050	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	19-SEP-00	180	6020
			PH	6.0	pH	DC	17-AUG-00		150.1
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
			SO4=	<2.0	ppm	JN	06-SEP-00	28	9036
			TDS	<10.	ppm	BD	18-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
			AS	0.35	ppm	CH	19-SEP-00	180	6020
			CA	162.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	269.	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	4180.	umhos/cm2	BD	06-SEP-00	28	120.1
L001314-016	15-AUG-00	EPRI-0008-125							

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Water and Solid Waste (Project 3220)

Batch No: L001314

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	TEST METHOD
L001314-016	15-AUG-00	EPRI-0008-125	CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00		6020
			F-	0.94	ppm	EH	14-SEP-00	28	340.2
			FE	0.59	ppm	MK	15-SEP-00	180	6010
			HCO3	1410.	ppm	DC	17-AUG-00	14	310.1
			K	17.	ppm	MK	15-SEP-00	180	6010
			MG	108.	ppm	MK	15-SEP-00	180	6010
			NA	570.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.17	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	19-SEP-00	180	6020
			PH	7.6	pH	DC	17-AUG-00		150.1
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
			SO4=	693.	ppm	JN	06-SEP-00	28	9036
			TDS	2882.	ppm	BD	18-AUG-00	7	160.1
			TSS	17.	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
			AS	3.1	ppm	MK	15-SEP-00	180	6010
			CA	436.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	573.	ppm	JN	11-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	17-AUG-00		310.1
			COND.	11390.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
L001314-017	15-AUG-00	EPRI-0008-126	CU	<0.025	ppm	CH	19-SEP-00		6020
			F-	5.3	ppm	EH	14-SEP-00	28	340.2
			FE	2.1	ppm	MK	15-SEP-00	180	6010
			HCO3	1100.	ppm	DC	17-AUG-00	14	310.1
			K	188.	ppm	MK	15-SEP-00	180	6010
			MG	197.	ppm	MK	15-SEP-00	180	6010
			NA	1606.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.12	ppm	JN	08-SEP-00	28	353.2
			PB	0.006	ppm	CH	19-SEP-00	180	6020
			PH	7.3	pH	DC	17-AUG-00		150.1
			SE	0.023	ppm	CH	19-SEP-00	180	6020
			SO4=	4978.	ppm	JN	06-SEP-00	28	9036
			TDS	8897.	ppm	BD	18-AUG-00	7	160.1
			TSS	126.	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020

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Water and Solid Waste (Project 3220)

Batch No: L001314

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	RADISET	DATE HOLD ANALYZED	METHOD
L001314-018	15-AUG-00	EPRI-0008-236	AS	5.8	ppm	MK	15-SEP-00 180	6010
			CA	436.	ppm	MK	15-SEP-00 180	6010
			CD	<0.005	ppm	CH	19-SEP-00 180	6020
			CL-	683.	ppm	JN	11-SEP-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1
			COND.	11410.	umhos/cm2	BD	08-SEP-00 28	120.1
			CR	<0.010	ppm	MK	15-SEP-00 180	6010
			CU	<0.025	ppm	CH	19-SEP-00	6020
			F-	5.3	ppm	EH	14-SEP-00 28	340.2
			FE	2.0	ppm	MK	15-SEP-00 180	6010
			HCO3	1062.	ppm CaCO3	DC	17-AUG-00 14	310.1
			K	183.	ppm	MK	15-SEP-00 180	6010
			MG	199.	ppm	MK	15-SEP-00 180	6010
			NA	1541.	ppm	MK	15-SEP-00 180	6010
			NO2/NO3	0.12	ppm	JN	08-SEP-00 28	353.2
			PB	0.005	ppm	CH	19-SEP-00 180	6020
			PH	7.4	pH	DC	17-AUG-00	150.1
			SE	0.024	ppm	CH	19-SEP-00 180	6020
			SO4=	5107.	ppm	JN	06-SEP-00 28	9036
			TDS	8759.	ppm	BD	18-AUG-00 7	160.1
			TSS	141.	ppm	BD	18-AUG-00	160.2
			ZN	<0.020	ppm	CH	19-SEP-00 180	6020
L001314-019	15-AUG-00	EPRI-0008-133	AS	0.006	ppm	CH	19-SEP-00 180	6020
			CA	241.	ppm	MK	15-SEP-00 180	6010
			CD	<0.005	ppm	CH	19-SEP-00 180	6020
			CL-	559.	ppm	JN	11-SEP-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1
			COND.	6220.	umhos/cm2	BD	08-SEP-00 28	120.1
			CR	<0.010	ppm	MK	15-SEP-00 180	6010
			CU	<0.025	ppm	CH	19-SEP-00	6020
			F-	1.7	ppm	EH	14-SEP-00 28	340.2
			FE	0.50	ppm	MK	15-SEP-00 180	6010
			HCO3	590.	ppm CaCO3	DC	17-AUG-00 14	310.1
			K	16.	ppm	MK	15-SEP-00 180	6010
			MG	99.	ppm	MK	15-SEP-00 180	6010
			NA	887.	ppm	MK	15-SEP-00 180	6010
			NO2/NO3	22.	ppm	JN	08-SEP-00 28	353.2
			PB	0.003	ppm	CH	19-SEP-00 180	6020

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L001314

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	FIELD	
L001314-019	15-AUG-00	EPRI-0008-133	PH	8.0	PH	DC	17-AUG-00	150.1	
			SE	0.18	ppm	CH	19-SEP-00	180	6020
			SO4=	2539.	ppm	JN	06-SEP-00	28	9036
			TDS	4964.	ppm	ED	18-AUG-00	7	160.1
			TSS	16.	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
			AS	0.007	ppm	CH	19-SEP-00	180	6020
			CA	339.	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	762.	ppm	JN	11-SEP-00	28	325.2
L001314-020	15-AUG-00	EPRI-0008-129	CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1	
			COND.	8890.	umhos/cm2	ED	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00		6020
			F-	1.5	ppm	EH	14-SEP-00	28	340.2
			FE	0.24	ppm	MK	15-SEP-00	180	6010
			HCO3	700.	ppm CaCO3	DC	17-AUG-00	14	310.1
			K	15.	ppm	MK	15-SEP-00	180	6010
			MG	149.	ppm	MK	15-SEP-00	180	6010
			NA	1186.	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	127.	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	19-SEP-00	180	6020
			PH	7.8	PH	DC	17-AUG-00		150.1
			SE	0.21	ppm	CH	19-SEP-00	180	6020
			SO4=	3101.	ppm	JN	06-SEP-00	28	9036
			TDS	7074.	ppm	BD	18-AUG-00	7	160.1
			TSS	39.	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020
			AS	<0.005	ppm	CH	19-SEP-00	180	6020
			CA	<1.0	ppm	MK	15-SEP-00	180	6010
			CD	<0.005	ppm	CH	19-SEP-00	180	6020
			CL-	<1.0	ppm	JN	05-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	15-SEP-00	180	6010
			CU	<0.025	ppm	CH	19-SEP-00		6020
			F-	<0.050	ppm	EH	14-SEP-00	28	340.2

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L001314

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001314-021	15-AUG-00	EPRI-0008-237	FE	<0.10	ppm	MK	15-SEP-00	180	6010
			HCO3	<1.0	ppm	DC	17-AUG-00	14	310.1
			K	<2.0	ppm	MK	15-SEP-00	180	6010
			MG	<1.0	ppm	MK	15-SEP-00	180	6010
			NA	<2.0	ppm	MK	15-SEP-00	180	6010
			NO2/NO3	0.068	ppm	JN	08-SEP-00	28	353.2
			PB	<0.003	ppm	CH	19-SEP-00	180	6020
			PH	5.8	PH	DC	17-AUG-00		150.1
			SE	<0.005	ppm	CH	19-SEP-00	180	6020
			SO4=	<2.0	ppm	JN	06-SEP-00	28	9036
			TDS	<10.	ppm	BD	18-AUG-00	7	160.1
			TSS	<1.0	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	CH	19-SEP-00	180	6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 6020.

CM
Approved
D. Davis
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

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Water and Solid Waste (Project 3220)

Batch No: WG000918

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	WASTE
WG000918-1		Matrix Spike	AS	93	%Recovery	CH	19-SEP-00	6020	
			CD	83	%Recovery	CH	19-SEP-00	6020	
			CL-	85	%Recovery	JN	05-SEP-00	325.2	
			CR	83	%Recovery	MK	15-SEP-00	6010	
			CU	80	%Recovery	CH	19-SEP-00	6020	
			F-	100	%Recovery	EH	14-SEP-00	340.2	
			FE	86	%Recovery	MK	15-SEP-00	6010	
			NO2/NO3	106	%Recovery	JN	08-SEP-00	353.2	
			PB	88	%Recovery	CH	19-SEP-00	6020	
			SE	88	%Recovery	CH	19-SEP-00	6020	
			SO4=	112	%Recovery	JN	06-SEP-00	9036	
			ZN	76	%Recovery	CH	19-SEP-00	6020	
			AS	<0.005	ppm	CH	19-SEP-00	6020	
			CA	<1.0	ppm	MK	15-SEP-00	6010	
			CD	<0.005	ppm	CH	19-SEP-00	6020	
			CL-	<1.0	ppm	JN	05-SEP-00	325.2	
			CO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1	
WG000918-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	08-SEP-00	120.1	
			CR	<0.010	ppm	MK	15-SEP-00	6010	
			CU	<0.025	ppm	CH	19-SEP-00	6020	
			F-	<0.050	ppm	EH	14-SEP-00	340.2	
			FE	<0.10	ppm	MK	15-SEP-00	6010	
			HCO3	<1.0	ppm CaCO3	DC	17-AUG-00	310.1	
			K	<2.0	ppm	MK	15-SEP-00	6010	
			MG	<1.0	ppm	MK	15-SEP-00	6010	
			NA	<2.0	ppm	MK	15-SEP-00	6010	
			NO2/NO3	<0.050	ppm	JN	08-SEP-00	353.2	
			PB	<0.003	ppm	CH	19-SEP-00	6020	
			SE	<0.005	ppm	CH	19-SEP-00	6020	
			SO4=	<2.0	ppm	JN	06-SEP-00	9036	
			TDS	<10.	ppm	BD	18-AUG-00	160.1	
			TSS	<1.0	ppm	BD	18-AUG-00	160.2	
			ZN	<0.020	ppm	CH	19-SEP-00	6020	
WG000918-3		Lab Control Sample	AS	100	%Recovery	CH	19-SEP-00	6020	
			CA	83	%Recovery	MK	15-SEP-00	6010	
			CD	100	%Recovery	CH	19-SEP-00	6020	
			CL-	90	%Recovery	JN	05-SEP-00	325.2	

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Batch No: WG000918

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	HOLD	ANALYZED	DAYS	METHOD
WG000918-3		Lab Control Sample	COND.	99		% Recovery	BD	08-SEP-00			120.1
			CR	85		% Recovery	MK	15-SEP-00			6010
			CU	99		% Recovery	CH	19-SEP-00			6020
			F-	97		% Recovery	EH	14-SEP-00			340.2
			FE	88		% Recovery	MK	15-SEP-00			6010
			HCO3	96		% Recovery	DC	17-AUG-00			310.1
			K	85		% Recovery	MK	15-SEP-00			6010
			MG	83		% Recovery	MK	15-SEP-00			6010
			NA	80		% Recovery	MK	15-SEP-00			6010
			NO2/NO3	102		% Recovery	JN	08-SEP-00			353.2
			PE	97		% Recovery	CH	19-SEP-00			6020
			SE	101		% Recovery	CH	19-SEP-00			6020
			SO4=	103		% Recovery	JN	06-SEP-00			9036
			TDS	99		% Recovery	BD	18-AUG-00			160.1
			TSS	92		% Recovery	BD	18-AUG-00			160.2
			ZN	107		% Recovery	CH	19-SEP-00			6020
			CL-	4.8		% RPD	JN	05-SEP-00			325.2
			CO3	<1		% RPD	DC	17-AUG-00			310.1
			COND.	<1		% RPD	BD	08-SEP-00			120.1
			F-	<1		% RPD	EH	14-SEP-00			340.2
			HCO3	<1		% RPD	DC	17-AUG-00			310.1
WG000918-4		Duplicate	NO2/NO3	3.2		% RPD	JN	08-SEP-00			353.2
			SO4=	2.9		% RPD	JN	06-SEP-00			9036
			TDS	3.7		% RPD	BD	18-AUG-00			160.1
			TSS	<1		% RPD	BD	18-AUG-00			160.2
			AS	2.2		% RPD	CH	19-SEP-00			6020
			CA	<1		% RPD	MK	15-SEP-00			6010
			CD	1.2		% RPD	CH	19-SEP-00			6020
			CR	1.5		% RPD	MK	15-SEP-00			6010
			CU	2.5		% RPD	CH	19-SEP-00			6020
			FE	<1		% RPD	MK	15-SEP-00			6010
WG000918-5		Matrix Spike Duplicate	K	<1		% RPD	MK	15-SEP-00			6010
			MG	<1		% RPD	MK	15-SEP-00			6010
			NA	3.8		% RPD	MK	15-SEP-00			6010
			PB	3.5		% RPD	CH	19-SEP-00			6020
			SE	2.3		% RPD	CH	19-SEP-00			6020
			ZN	1.3		% RPD	CH	19-SEP-00			6020
			AS	2.2		% RPD	CH	19-SEP-00			6020
			CA	<1		% RPD	MK	15-SEP-00			6010
			CD	1.2		% RPD	CH	19-SEP-00			6020
			CR	1.5		% RPD	MK	15-SEP-00			6010

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Batch No: WG000918

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000918-6		Reporting Limit	AS	0.005	ppm				6020
			CA	1.0	ppm				6010
			CD	0.005	ppm				6020
			CL-	1.0	ppm				325.2
			CO3	1.0	ppm	CaCO3			310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6010
			CU	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	ppm				6010
			HCO3	1.0	ppm	CaCO3			310.1
			K	2.0	ppm				6010
			MG	1.0	ppm				6010
			NA	2.0	ppm				353.2
			NO2/NO3	0.050	ppm				6020
			PB	0.003	ppm				9036
			SE	0.005	ppm				160.1
			SO4=	2.0	ppm				160.2
			TDS	10.	ppm				6020
			TSS	1.0	ppm				
			ZN	0.020	ppm				
WG000918-7		Matrix Spike	AS	80	%Recovery	MK	15-SEP-00		6010
			CD	83	%Recovery	MK	15-SEP-00		6010
			CL-	100	%Recovery	JN	11-SEP-00		325.2
			CR	88	%Recovery	MK	15-SEP-00		6010
			CU	88	%Recovery	MK	15-SEP-00		6010
			F-	100	%Recovery	EH	14-SEP-00		340.2
			FE	92	%Recovery	MK	15-SEP-00		6010
			NO2/NO3	118	%Recovery	JN	08-SEP-00		353.2
			PB	83	%Recovery	MK	15-SEP-00		6010
			SE	101	%Recovery	CH	19-SEP-00		6020
			SO4=	109	%Recovery	JN	06-SEP-00		9036
			ZN	80	%Recovery	MK	15-SEP-00		6010
WG000918-8		Prep Blank	AS	<0.020	ppm	MK	15-SEP-00		6010
			CA	<1.0	ppm	MK	15-SEP-00		6010
			CD	<0.010	ppm	MK	15-SEP-00		6010
			CL-	<1.0	ppm	JN	11-SEP-00		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000918

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000918-8		Prep Blank	CO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-SEP-00		120.1
			CR	<0.010	ppm	MK	15-SEP-00		6010
			CU	<0.025	ppm	MK	15-SEP-00		6010
			F-	<0.050	ppm	EH	14-SEP-00		340.2
			FE	<0.10	ppm	MK	15-SEP-00		6010
			HCO3	<1.0	ppm CaCO3	DC	17-AUG-00		310.1
			K	<2.0	ppm	MK	15-SEP-00		6010
			MG	<1.0	ppm	MK	15-SEP-00		6010
			NA	<2.0	ppm	MK	15-SEP-00		6010
			NO2/NO3	<0.050	ppm	JN	08-SEP-00		353.2
			PB	<0.010	ppm	MK	15-SEP-00		6010
			SO4=	<2.0	ppm	JN	06-SEP-00		9036
			TDS	<10.	ppm	BD	18-AUG-00		160.1
			TSS	<1.0	ppm	BD	18-AUG-00		160.2
			ZN	<0.020	ppm	MK	15-SEP-00		6010
			AS	80	%Recovery	MK	15-SEP-00		6010
			CA	85	%Recovery	MK	15-SEP-00		6010
			CD	83	%Recovery	MK	15-SEP-00		325.2
			CL-	97	%Recovery	JN	11-SEP-00		120.1
WG000918-9		Lab Control Sample	COND.	99	%Recovery	BD	08-SEP-00		6010
			CR	85	%Recovery	MK	15-SEP-00		6010
			CU	83	%Recovery	MK	15-SEP-00		340.2
			F-	97	%Recovery	EH	14-SEP-00		6010
			FE	88	%Recovery	MK	15-SEP-00		310.1
			HCO3	97	%Recovery	DC	17-AUG-00		6010
			K	85	%Recovery	MK	15-SEP-00		6010
			MG	85	%Recovery	MK	15-SEP-00		6010
			NA	85	%Recovery	MK	15-SEP-00		353.2
			NO2/NO3	98	%Recovery	JN	08-SEP-00		6010
			PB	88	%Recovery	MK	15-SEP-00		9036
			SO4=	109	%Recovery	JN	06-SEP-00		160.1
			TDS	98	%Recovery	BD	18-AUG-00		160.2
			TSS	94	%Recovery	BD	18-AUG-00		160.2
			ZN	83	%Recovery	MK	15-SEP-00		6010
			CL-	1.5	% RPD	JN	11-SEP-00		325.2
			CO3	<1	% RPD	DC	17-AUG-00		310.1
WG000918-10		Duplicate							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000918

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000918-10		Duplicate	COND.	<1	% RPD	BD	08-SEP-00		120.1
			F-	4.9	% RPD	EH	14-SEP-00		340.2
			HCO3	<1	% RPD	DC	17-AUG-00		310.1
			NO2/NO3	1.5	% RPD	JN	08-SEP-00		353.2
			SO4=	<1	% RPD	JN	06-SEP-00		9036
			TDS	1.9	% RPD	BD	18-AUG-00		160.1
			TSS	<1	% RPD	BD	18-AUG-00		160.2
			AS	<1	% RPD	CH	19-SEP-00		6020
			CA	3.0	% RPD	MK	15-SEP-00		6010
			CD	<1	% RPD	CH	19-SEP-00		6020
WG000918-11		Matrix Spike Duplicate	CR	3.1	% RPD	MK	15-SEP-00		6010
			CU	2.8	% RPD	MK	15-SEP-00		6010
			FE	2.7	% RPD	MK	15-SEP-00		6010
			K	2.8	% RPD	MK	15-SEP-00		6010
			MG	2.9	% RPD	MK	15-SEP-00		6010
			NA	5.9	% RPD	MK	15-SEP-00		6010
			PB	3.0	% RPD	MK	15-SEP-00		6010
			SE	2.5	% RPD	CH	19-SEP-00		6020
			ZN	<1	% RPD	MK	15-SEP-00		6010

Approved

Reviewer

CHAIN OF CUSTODY RECORD

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

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	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
0931V2	ASARCO - EL PASO, TX	3	X	X			X				
9400	920	3	X	X			X				
9400	940	3	X	X			X				
9400	945	3	X	X			X				
1010	1010	3	X	X			X				
1300	1300	3	X	X			X				
1315	1315	3	X	X			X				
1340	1340	3	X	X			X				
1400	1400	3	X	X			X				
1430	1430	3	X	X			X				
1445	1445	3	X	X			X				
1450	1450	3	X	X			X				
1510	1510	3	X	X			X				
1530	1530	3	X	X			X				
1545	1545	3	X	X			X				
✓ 1615	1615	3	X	X			X				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS	Other	Air Bill #				
<i>[Signature]</i>	8/15/00 1600	<i>[Signature]</i>	ISL - SLC, UT								
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks								
<i>[Signature]</i>		<i>[Signature]</i>									
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time								
<i>[Signature]</i>		<i>[Signature]</i>	8.16.00 0000								
				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							

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		ANALYSIS								REMARKS
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		
8-15-08	1315			ERR1-0008-126	X	X			X					
8-15-08	1320			ERR1-0008-236	X	X			X					
8-15-08	1345			ERR1-0008-125	X	X			X					
8-15-08	1400			ERR1-0008-133	X	X			X					
8-15-08	1420			ERR1-0008-129	X	X			X					
8-15-08	1500			ERR1-0008-137	X	X			X					
/														
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		
[Signature]		8/15/08 1600		[Signature]		TSC - SLC, UT								
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks								
[Signature]				[Signature]		8-16-08								
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits <input type="checkbox"/> QA/QC standard mixing instructions <input type="checkbox"/> Cover letter <input type="checkbox"/> Other						
[Signature]				[Signature]				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: 1001335

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD
L001335-001	16-AUG-00	EPRI-0008-124	AS	1.4	ppm	CH	02-OCT-00 180 6020
			CA	361.	ppm	MK	26-SEP-00 180 6010
			CD	<0.005	ppm	CH	02-OCT-00 180 6020
			CL-	477.	ppm	JN	12-SEP-00 28 325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00 310.1
			COND.	4510.	umhos/cm2	BD	08-SEP-00 28 120.1
			CR	0.063	ppm	MK	26-SEP-00 180 6010
			CU	0.064	ppm	MK	26-SEP-00 6010
			F	2.6	ppm	EH	14-SEP-00 28 340.2
			FE	77.	ppm	MK	26-SEP-00 180 6010
			HCO3	670.	ppm	DC	06-SEP-00 14 310.1
			K	33.	ppm CaCO3	MK	26-SEP-00 180 6010
			MG	65.	ppm	MK	26-SEP-00 180 6010
			NA	801.	ppm	JN	13-SEP-00 28 353.2
			NO2/NO3	0.71	ppm	CH	02-OCT-00 180 6020
			PB	0.036	ppm	DC	06-SEP-00 150.1
			PH	8.0	pH	CH	02-OCT-00 180 6020
			SE	0.035	ppm	CH	11-SEP-00 28 9036
			SO4=	1568.	ppm	JN	21-AUG-00 7 160.1
			TDS	3262.	ppm	BD	21-AUG-00 160.2
			TSS	2224.	ppm	BD	12-OCT-00 180 6020
			ZN	0.11	ppm	CH	02-OCT-00 180 6020
			AS	0.042	ppm	CH	26-SEP-00 180 6010
			CA	144.	ppm	MK	02-OCT-00 180 6020
			CD	<0.005	ppm	CH	12-SEP-00 28 325.2
			CL-	1228.	ppm	JN	06-SEP-00 310.1
			CO3	<1.0	ppm CaCO3	DC	08-SEP-00 28 120.1
			COND.	5880.	umhos/cm2	BD	26-SEP-00 180 6010
			CR	<0.010	ppm	MK	26-SEP-00 6010
			CU	<0.025	ppm	MK	14-SEP-00 28 340.2
			F-	2.1	ppm	EH	26-SEP-00 180 6010
			FE	0.57	ppm	MK	06-SEP-00 14 310.1
			HCO3	1080.	ppm CaCO3	DC	26-SEP-00 180 6010
			K	23.	ppm	MK	26-SEP-00 180 6010
			MG	74.	ppm	MK	26-SEP-00 180 6010
			NA	978.	ppm	MK	13-SEP-00 28 353.2
			NO2/NO3	0.13	ppm	JN	02-OCT-00 180 6020
			PB	<0.003	ppm	CH	

L001335-002 16-AUG-00 EPRI-0008-112

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001335

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE METHOD
L001335-002	16-AUG-00	EPRI-0008-112	PH	7.9	PH	DC	06-SEP-00	150.1
			SE	<0.005	ppm	CH	02-OCT-00	180 6020
			SO4=	538.	ppm	JN	11-SEP-00	28 9036
			TDS	3502.	ppm	BD	21-AUG-00	7 160.1
			TSS	15.	ppm	BD	21-AUG-00	160.2
			ZN	<0.020	ppm	CH	12-OCT-00	180 6020
			AS	4.7	ppm	MK	26-SEP-00	180 6010
			CA	94.	ppm	MK	26-SEP-00	180 6010
			CD	0.007	ppm	CH	02-OCT-00	180 6020
			CL-	485.	ppm	JN	12-SEP-00	28 325.2
			CO3	<1.0	ppm	CaCO3	06-SEP-00	310.1
			COND.	4870.	umhos/cm2	BD	08-SEP-00	28 120.1
L001335-003	16-AUG-00	EPRI-0008-111	CR	<0.010	ppm	MK	26-SEP-00	180 6010
			CU	0.26	ppm	MK	26-SEP-00	6010
			F-	3.1	ppm	EH	14-SEP-00	28 340.2
			FE	1.1	ppm	MK	26-SEP-00	180 6010
			HCO3	450.	ppm	CaCO3	06-SEP-00	14 310.1
			K	45.	ppm	DC	26-SEP-00	180 6010
			MG	52.	ppm	MK	26-SEP-00	180 6010
			NA	627.	ppm	MK	26-SEP-00	180 6010
			NO2/NO3	0.42	ppm	JN	13-SEP-00	28 353.2
			PB	0.077	ppm	CH	02-OCT-00	180 6020
			PH	7.9	PH	DC	06-SEP-00	150.1
			SE	0.009	ppm	CH	02-OCT-00	180 6020
			SO4=	1423.	ppm	JN	11-SEP-00	28 9036
			TDS	2867.	ppm	BD	21-AUG-00	7 160.1
			TSS	34.	ppm	BD	21-AUG-00	160.2
			ZN	0.10	ppm	CH	12-OCT-00	180 6020
			AS	0.068	ppm	CH	02-OCT-00	180 6020
			CA	22.	ppm	MK	26-SEP-00	180 6010
			CD	<0.005	ppm	CH	02-OCT-00	180 6020
			CL-	628.	ppm	JN	12-SEP-00	28 325.2
L001335-004	16-AUG-00	EPRI-0008-109	CO3	<1.0	ppm	CaCO3	06-SEP-00	310.1
			COND.	4920.	umhos/cm2	BD	08-SEP-00	28 120.1
			CR	<0.010	ppm	MK	26-SEP-00	180 6010
			CU	<0.025	ppm	MK	26-SEP-00	6010
			F-	6.9	ppm	EH	14-SEP-00	28 340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001335

LAB NO. DATE COLLECTED DESCRIPTION

PARAMETER VALUE

UNITS ANALYST DATE HOLD

ANALYZED DATA METHOD

L001335-004 16-AUG-00 EPRI-0008-109

FE	1.2	ppm	MK	26-SEP-00	180	6010
HCO3	1497.	ppm	DC	06-SEP-00	14	310.1
K	245.	ppm	MK	26-SEP-00	180	6010
MG	26.	ppm	MK	26-SEP-00	180	6010
NA	684.	ppm	MK	26-SEP-00	180	6010
NO2/NO3	0.13	ppm	JN	13-SEP-00	28	353.2
PB	0.004	ppm	CH	02-OCT-00	180	6020
PH	8.0	pH	DC	06-SEP-00		150.1
SE	0.010	ppm	CH	02-OCT-00	180	6020
SO4=	114.	ppm	JN	12-SEP-00	28	9036
TDS	2734.	ppm	BD	21-AUG-00	7	160.1
TSS	41.	ppm	BD	21-AUG-00		160.2
ZN	0.25	ppm	CH	12-OCT-00	180	6020

L001335-005 16-AUG-00 EPRI-0008-238

AS	0.054	ppm	CH	02-OCT-00	180	6020
CA	28.	ppm	MK	26-SEP-00	180	6010
CD	<0.005	ppm	CH	02-OCT-00	180	6020
CL-	624.	ppm	JN	12-SEP-00	28	325.2
CO3	<1.0	ppm	DC	06-SEP-00		310.1
COND.	4930.	umhos/cm2	BD	08-SEP-00	28	120.1
CR	<0.010	ppm	MK	26-SEP-00	180	6010
CU	<0.025	ppm	MK	26-SEP-00		6010
F-	7.0	ppm	EH	14-SEP-00	28	340.2
FE	1.0	ppm	MK	26-SEP-00	180	6010
HCO3	1534.	ppm	DC	06-SEP-00	14	310.1
K	238.	ppm	MK	26-SEP-00	180	6010
MG	30.	ppm	MK	26-SEP-00	180	6010
NA	696.	ppm	MK	26-SEP-00	180	6010
NO2/NO3	0.13	ppm	JN	13-SEP-00	28	353.2
PB	0.005	ppm	CH	02-OCT-00	180	6020
PH	8.0	pH	DC	06-SEP-00		150.1
SE	0.010	ppm	CH	02-OCT-00	180	6020
SO4=	114.	ppm	JN	12-SEP-00	28	9036
TDS	2734.	ppm	BD	21-AUG-00	7	160.1
TSS	39.	ppm	BD	21-AUG-00		160.2
ZN	0.20	ppm	CH	12-OCT-00	180	6020

L001335-006 16-AUG-00 EPRI-0008-121

AS	35.	ppm	MK	26-SEP-00	180	6010
CA	402.	ppm	MK	26-SEP-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001335

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		SOLID
							ANALYZED	PREP	
L001335-006	16-AUG-00	EPRI-0008-121	CD	1.3	ppm	CH	02-OCT-00	180	6020
			CL-	501.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1
			COND.	8020.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	0.043	ppm	MK	26-SEP-00		6010
			F-	5.9	ppm	EH	14-SEP-00	28	340.2
			FE	6.6	ppm	MK	26-SEP-00	180	6010
			HCO3	181.	ppm CaCO3	DC	06-SEP-00	14	310.1
			K	62.	ppm	MK	26-SEP-00	180	6010
			MG	81.	ppm	MK	26-SEP-00	180	6010
			NA	1004.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	130.	ppm	JN	13-SEP-00	28	353.2
			PB	0.008	ppm	CH	02-OCT-00	180	6020
			PH	6.8	pH	DC	06-SEP-00		150.1
			SE	2.1	ppm	CH	02-OCT-00	180	6020
			SO4=	3473.	ppm	JN	11-SEP-00	28	9036
			TDS	6717.	ppm	BD	21-AUG-00	7	160.1
			TSS	510.	ppm	BD	21-AUG-00		160.2
			ZN	3.4	ppm	MK	26-SEP-00	180	6010
			AS	6.5	ppm	MK	26-SEP-00	180	6010
			CA	104.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	1053.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1
			COND.	5840.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	0.011	ppm	MK	26-SEP-00		6010
			F-	1.9	ppm	EH	14-SEP-00	28	340.2
			FE	1.0	ppm	MK	26-SEP-00	180	6010
			HCO3	1400.	ppm CaCO3	DC	06-SEP-00	14	310.1
L001335-007	16-AUG-00	EPRI-0008-113	K	195.	ppm	MK	26-SEP-00	180	6010
			MG	26.	ppm	MK	26-SEP-00	180	6010
			NA	855.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.10	ppm	JN	13-SEP-00	28	353.2
			PB	0.012	ppm	CH	02-OCT-00	180	6020
			PH	7.7	pH	DC	06-SEP-00		150.1
			SE	0.13	ppm	CH	02-OCT-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001335

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001335-007	16-AUG-00	EPRI-0008-113	SO4=	202.	ppm	JN	11-SEP-00	28	9036
			TDS	3441.	ppm	BD	21-AUG-00	7	160.1
			TSS	84.	ppm	BD	21-AUG-00		160.2
			ZN	0.026	ppm	CH	12-OCT-00	180	6020
			AS	63.	ppm	MK	26-SEP-00	180	6010
			CA	487.	ppm	MK	26-SEP-00	180	6010
			CD	0.56	ppm	CH	02-OCT-00	180	6020
			CL-	942.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	06-SEP-00		310.1
			COND.	9300.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	0.064	ppm	MK	26-SEP-00		6010
			F-	14.	ppm	EH	14-SEP-00	28	340.2
			FE	41.	ppm	MK	26-SEP-00	180	6010
			HCO3	744.	ppm	DC	06-SEP-00	14	310.1
			K	122.	ppm	MK	26-SEP-00	180	6010
			MG	260.	ppm	MK	26-SEP-00	180	6010
			NA	1162.	ppm	JN	13-SEP-00	28	353.2
			NO2/NO3	0.13	ppm	JN	02-OCT-00	180	6020
			PB	0.14	ppm	CH	06-SEP-00		150.1
L001335-009	16-AUG-00	EPRI-0008-195	PH	7.1	pH	DC	02-OCT-00	180	6020
			SE	0.12	ppm	CH	02-OCT-00	180	6020
			SO4=	3887.	ppm	JN	11-SEP-00	28	9036
			TDS	7357.	ppm	BD	21-AUG-00	7	160.1
			TSS	701.	ppm	BD	21-AUG-00		160.2
			ZN	43.	ppm	MK	26-SEP-00	180	6010
			AS	<0.005	ppm	CH	02-OCT-00	180	6020
			CA	172.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	1621.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	06-SEP-00		310.1
			COND.	5560.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	MK	26-SEP-00		6010
			F-	0.82	ppm	EH	14-SEP-00	28	340.2
			FE	0.52	ppm	MK	26-SEP-00	180	6010
			HCO3	180.	ppm	DC	06-SEP-00	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001335

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001335 009	16-AUG-00	EPRI-0008-195	K	21.	ppm	MK	26-SEP-00	180	6010
			MG	99.	ppm	MK	26-SEP-00	180	6010
			NA	737.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.088	ppm	JN	13-SEP-00	28	353.2
			PB	0.015	ppm	CH	02-OCT-00	180	6020
			PH	7.9	PH	DC	06-SEP-00	150.1	
			SE	<0.005	ppm	CH	02-OCT-00	180	6020
			SO4=	1845.	ppm	JN	11-SEP-00	28	9036
			TDS	3999.	ppm	BD	21-AUG-00	7	160.1
			TSS	7.3	ppm	BD	21-AUG-00	160.2	
			ZN	0.023	ppm	CH	12-OCT-00	180	6020
			AS	1.8	ppm	MK	26-SEP-00	180	6010
			CA	178.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	537.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	06-SEP-00	310.1	
			COND.	5030.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	0.028	ppm	MK	26-SEP-00	180	6010
			CU	0.044	ppm	MK	26-SEP-00	6010	
			F-	0.77	ppm	EH	14-SEP-00	28	340.2
L001335-010	16-AUG-00	EPRI-0008-104	FE	3.7	ppm	MK	26-SEP-00	180	6010
			HCO3	1170.	ppm	DC	06-SEP-00	14	310.1
			K	10.	ppm	MK	26-SEP-00	180	6010
			MG	92.	ppm	MK	26-SEP-00	180	6010
			NA	853.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	4.0	ppm	JN	13-SEP-00	28	353.2
			PB	0.028	ppm	CH	02-OCT-00	180	6020
			PH	7.5	PH	DC	06-SEP-00	150.1	
			SE	0.71	ppm	CH	02-OCT-00	180	6020
			SO4=	1156.	ppm	JN	11-SEP-00	28	9036
			TDS	3780.	ppm	BD	21-AUG-00	7	160.1
			TSS	506.	ppm	BD	21-AUG-00	160.2	
			ZN	0.038	ppm	CH	12-OCT-00	180	6020
			AS	1.4	ppm	MK	26-SEP-00	180	6010
			CA	119.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	508.	ppm	JN	12-SEP-00	28	325.2
L001335-011	16-AUG-00	EPRI-0008-117	AS	1.4	ppm	MK	26-SEP-00	180	6010
			CA	119.	ppm	MK	26-SEP-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001335

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001335-011	16-AUG-00	EPRI-0008-117	CO3	<1.0	ppm CaCO3	DC	06-SEP-00	310.1	
			COND.	3790.	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	0.046	ppm	MK	26-SEP-00	180	6010
			CU	0.069	ppm	MK	26-SEP-00		6010
			F-	2.6	ppm	EH	14-SEP-00	28	340.2
			FE	2.1	ppm	MK	26-SEP-00	180	6010
			HCO3	960.	ppm CaCO3	DC	06-SEP-00	14	310.1
			K	29.	ppm	MK	26-SEP-00	180	6010
			MG	28.	ppm	MK	26-SEP-00	180	6010
			NA	571.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.11	ppm	MK	13-SEP-00	28	353.2
			PB	0.041	ppm	JN	02-OCT-00	180	6020
			PH	7.4	pH	DC	06-SEP-00		150.1
			SE	0.14	ppm	CH	02-OCT-00	180	6020
			SO4=	466.	ppm	JN	11-SEP-00	28	9036
			TDS	2448.	ppm	BD	21-AUG-00	7	160.1
			TSS	244.	ppm	BD	21-AUG-00		160.2
			ZN	0.054	ppm	CH	12-OCT-00	180	6020
L001335-012	16-AUG-00	EPRI-0008-239	AS	<0.005	ppm	CH	02-OCT-00	180	6020
			CA	<1.0	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	<1.0	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-SEP-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	MK	26-SEP-00		6010
			F-	<0.050	ppm	EH	14-SEP-00	28	340.2
			FE	<0.10	ppm	MK	26-SEP-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	06-SEP-00	14	310.1
			K	<2.0	ppm	MK	26-SEP-00	180	6010
			MG	<1.0	ppm	MK	26-SEP-00	180	6010
			NA	<2.0	ppm	MK	26-SEP-00	28	353.2
			NO2/NO3	0.077	ppm	JN	13-SEP-00		6020
			PB	<0.003	ppm	CH	02-OCT-00	180	6020
			PH	5.4	pH	DC	06-SEP-00		150.1
			SE	<0.005	ppm	CH	02-OCT-00	180	6020
			SO4=	<2.0	ppm	JN	11-SEP-00	28	9036
			TDS	<10.	ppm	BD	21-AUG-00	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT



El Paso

Water and Solid Waste (Project 3220)

Batch No: L001335

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DAYS ANALYZED	HOLD DAYS METHOD
L001335-012	16-AUG-00	EPRI-0008-239	TSS	1.7	ppm	BD	21-AUG-00	160.2
			ZN	<0.020	ppm	CH	12-OCT-00	180 6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for Totals --- 6010 and 6020.


 Approved

 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000931

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	RECEIVED		
WG000931-1		Matrix Spike	AS	83	%Recovery	CH	02-OCT-00			6020
			CD	83	%Recovery	CH	02-OCT-00			6020
			CL-	105	%Recovery	JN	12-SEP-00			325.2
			CR	83	%Recovery	MK	26-SEP-00			6010
			CU	89	%Recovery	MK	26-SEP-00			6010
			F-	95	%Recovery	EH	14-SEP-00			340.2
			FE	83	%Recovery	MK	26-SEP-00			6010
			NO2/NO3	116	%Recovery	JN	13-SEP-00			353.2
			PB	85	%Recovery	CH	02-OCT-00			6020
			SE	63*	%Recovery	CH	02-OCT-00			6020
			SO4=	104	%Recovery	JN	11-SEP-00			9036
			ZN	65*	%Recovery	CH	12-OCT-00			6020
			AS	<0.005	ppm	CH	02-OCT-00			6020
			CA	<1.0	ppm	MK	26-SEP-00			6010
			CD	<0.005	ppm	CH	02-OCT-00			6020
			CL-	<1.0	ppm	JN	12-SEP-00			325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00			310.1
WG000931-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	08-SEP-00			120.1
			CR	<0.010	ppm	MK	26-SEP-00			6010
			CU	<0.025	ppm	MK	26-SEP-00			6010
			F-	<0.050	ppm	EH	14-SEP-00			340.2
			FE	<0.10	ppm	MK	26-SEP-00			6010
			HCO3	<1.0	ppm CaCO3	DC	06-SEP-00			310.1
			K	<2.0	ppm	MK	26-SEP-00			6010
			MG	<1.0	ppm	MK	26-SEP-00			6010
			NA	<2.0	ppm	MK	26-SEP-00			6010
			NO2/NO3	<0.050	ppm	JN	13-SEP-00			353.2
			PB	<0.003	ppm	CH	02-OCT-00			6020
			SE	<0.005	ppm	CH	02-OCT-00			6020
			SO4=	<2.0	ppm	JN	11-SEP-00			9036
			TDS	<10	ppm	BD	21-AUG-00			160.1
			TSS	<1.0	ppm	BD	21-AUG-00			160.2
			ZN	<0.020	ppm	CH	12-OCT-00			6020
WG000931-3		Lab Control Sample	AS	103	%Recovery	CH	02-OCT-00			6020
			CA	90	%Recovery	MK	26-SEP-00			6010
			CD	100	%Recovery	CH	02-OCT-00			6020
			CL-	108	%Recovery	JN	12-SEP-00			325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000931

LAE NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000931-3		Lab Control Sample	COND.	99	% Recovery	BD	08-SEP-00	120.1	
			CR	90	% Recovery	MK	26-SEP-00	6010	
			CU	93	% Recovery	MK	26-SEP-00	6010	
			F-	97	% Recovery	EH	14-SEP-00	340.2	
			FE	95	% Recovery	MK	26-SEP-00	6010	
			HCO3	103	% Recovery	DC	06-SEP-00	310.1	
			K	93	% Recovery	MK	26-SEP-00	6010	
			MG	90	% Recovery	MK	26-SEP-00	6010	
			NA	92	% Recovery	MK	26-SEP-00	6010	
			NO2/NO3	100	% Recovery	JN	13-SEP-00	353.2	
			PB	98	% Recovery	CH	02-OCT-00	6020	
			SE	105	% Recovery	CH	02-OCT-00	6020	
			SO4=	102	% Recovery	JN	11-SEP-00	9036	
			TDS	101	% Recovery	BD	21-AUG-00	160.1	
			TSS	87	% Recovery	BD	21-AUG-00	160.2	
			ZN	111	% Recovery	CH	12-OCT-00	6020	
			CA	1.4	% RPD	MK	26-SEP-00	6010	
			CL-	7.4	% RPD	JN	12-SEP-00	325.2	
			CO3	<1	% RPD	DC	06-SEP-00	310.1	
			COND.	<1	% RPD	BD	08-SEP-00	120.1	
WG000931-4		Duplicate	F-	4.7	% RPD	EH	14-SEP-00	340.2	
			HCO3	<1	% RPD	DC	06-SEP-00	310.1	
			K	6.3	% RPD	MK	26-SEP-00	6010	
			MG	6.3	% RPD	MK	26-SEP-00	6010	
			NA	3.6	% RPD	MK	26-SEP-00	6010	
			NO2/NO3	<1	% RPD	JN	13-SEP-00	353.2	
			SO4=	6.9	% RPD	JN	11-SEP-00	9036	
			TDS	3.7	% RPD	BD	21-AUG-00	160.1	
			TSS	2.0	% RPD	BD	21-AUG-00	160.2	
			AS	3.0	% RPD	CH	02-OCT-00	6020	
			CD	<1	% RPD	CH	02-OCT-00	6020	
			CR	1.2	% RPD	MK	26-SEP-00	6010	
			CU	<1	% RPD	MK	26-SEP-00	6010	
			FE	2.0	% RPD	MK	26-SEP-00	6010	
			PB	11	% RPD	CH	02-OCT-00	6020	
			SE	23**	% RPD	CH	02-OCT-00	6020	
			ZN	<1	% RPD	CH	12-OCT-00	6020	
WG000931-5		Matrix Spike Duplicate							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000931

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
WG000931-6		Reporting Limit	AS	0.005	ppm			6020
			CA	1.0	ppm			6010
			CD	0.005	ppm			6020
			CL-	1.0	ppm			325.2
			CO3	1.0	ppm CaCO3			310.1
			COND.	5.0	umhos/cm2			120.1
			CR	0.010	ppm			6010
			CU	0.025	ppm			340.2
			F-	0.050	ppm			6010
			FE	0.10	ppm			310.1
			HCO3	1.0	ppm CaCO3			6010
			K	2.0	ppm			6010
			MG	1.0	ppm			6010
			NA	2.0	ppm			353.2
			NO2/NO3	0.050	ppm			6020
			PB	0.003	ppm			6020
			SE	0.005	ppm			9036
			SO4=	2.0	ppm			160.1
			TDS	10.	ppm			160.2
			TSS	1.0	ppm			6020
			ZN	0.020	ppm			
WG000931-7		Matrix Spike	AS	85	%Recovery	MK	26-SEP-00	6010
			ZN	82	ppm	MK	26-SEP-00	6010
WG000931-8		Prep Blank	AS	<0.050	ppm	MK	26-SEP-00	6010
			ZN	<0.020	ppm	MK	26-SEP-00	6010
WG000931-9		Lab Control Sample	AS	90	%Recovery	MK	26-SEP-00	6010
			ZN	88	ppm	MK	26-SEP-00	6010
WG000931-11		Matrix Spike Duplicate	AS	<1	% RPD	MK	26-SEP-00	6010
			ZN	<1	% RPD	MK	26-SEP-00	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG000931

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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* -Low spike recoveries due to matrix interference.
 ** -High matrix spike duplicate due to matrix interference.

DM
 Approved

John
 Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001361

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001361-001	21-AUG-00	EPRI-0008-186	AS	<0.005	ppm	CH	02-OCT-00	180	6020
			CA	85.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	83.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1
			COND.	938.	umhos/cm2	BD	23-AUG-00	28	120.1
			CR	0.013	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	CH	26-SEP-00		6020
			F-	0.64	ppm	EH	14-SEP-00	28	340.2
			FE	12.	ppm	MK	26-SEP-00	180	6010
			HCO3	222.	ppm CaCO3	DC	06-SEP-00	14	310.1
			K	11.	ppm	MK	26-SEP-00	180	6010
			MG	21.	ppm	MK	26-SEP-00	180	6010
			NA	101.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.60	ppm	JN	13-SEP-00	28	353.2
			PB	0.009	ppm	CH	02-OCT-00	180	6020
			PH	8.3	ppm	DC	06-SEP-00		150.1
			SE	<0.005	ppm	CH	02-OCT-00	180	6020
			SO4=	181.	ppm	JN	12-SEP-00	28	9036
			TDS	617.	ppm	BD	24-AUG-00	7	160.1
			TSS	437.	ppm	BD	23-AUG-00		160.2
			ZN	0.046	ppm	CH	02-OCT-00	180	6020
L001361-002	21-AUG-00	EPRI-0008-193	AS	<0.005	ppm	CH	02-OCT-00	180	6020
			CA	78.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	81.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1
			COND.	931.	umhos/cm2	BD	23-AUG-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	CH	26-SEP-00		6020
			F-	0.65	ppm	EH	14-SEP-00	28	340.2
			FE	9.7	ppm	MK	26-SEP-00	180	6010
			HCO3	209.	ppm CaCO3	DC	06-SEP-00	14	310.1
			K	9.3	ppm	MK	26-SEP-00	180	6010
			MG	18.	ppm	MK	26-SEP-00	180	6010
			NA	94.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.69	ppm	JN	13-SEP-00	28	353.2
			PB	0.008	ppm	CH	02-OCT-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001361

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L001361-002	21-AUG-00	EPRI-0008-193	PH	8.3	ppm	DC	06-SEP-00	150.1
			SE	<0.005	ppm	CH	02-OCT-00	180
			SO4=	172.	ppm	JN	12-SEP-00	28
			TDS	602.	ppm	BD	24-AUG-00	7
			TSS	427.	ppm	BD	23-AUG-00	160.1
			ZN	0.040	ppm	CH	02-OCT-00	180
								6020
			AS	<0.005	ppm	CH	02-OCT-00	180
			CA	74.	ppm	MK	26-SEP-00	180
			CD	<0.005	ppm	CH	02-OCT-00	180
L001361-003	21-AUG-00	EPRI-0008-240	CL-	82.	ppm	JN	12-SEP-00	28
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00	325.2
			COND.	931.	umhos/cm2	BD	06-SEP-00	310.1
			CR	<0.010	ppm	BD	23-AUG-00	28
			CU	<0.025	ppm	MK	26-SEP-00	180
			FE	0.65	ppm	CH	26-SEP-00	6010
			FE	9.6	ppm	EH	14-SEP-00	28
			HCO3	217.	ppm	MK	26-SEP-00	180
			K	9.3	ppm CaCO3	DC	06-SEP-00	14
			MG	18.	ppm	MK	26-SEP-00	180
			NA	94.	ppm	MK	26-SEP-00	6010
			NO2/NO3	0.71	ppm	JN	13-SEP-00	28
			PB	0.007	ppm	CH	02-OCT-00	180
			PH	8.3	ppm	DC	06-SEP-00	150.1
			SE	<0.005	ppm	CH	02-OCT-00	180
			SO4=	178.	ppm	JN	12-SEP-00	28
			TDS	607.	ppm	BD	24-AUG-00	7
			TSS	428.	ppm	BD	23-AUG-00	160.1
			ZN	0.036	ppm	BD	23-AUG-00	160.2
						CH	02-OCT-00	180
L001361-004	21-AUG-00	EPRI-0008-192	AS	<0.005	ppm	CH	02-OCT-00	180
			CA	77.	ppm	MK	26-SEP-00	180
			CD	<0.005	ppm	CH	02-OCT-00	180
			CL-	85.	ppm	JN	12-SEP-00	28
			CO3	8.0	ppm CaCO3	DC	06-SEP-00	310.1
			COND.	930.	umhos/cm2	BD	23-AUG-00	28
			CR	<0.010	ppm	MK	26-SEP-00	180
			CU	<0.025	ppm	CH	26-SEP-00	6010
			F-	0.65	ppm	EH	14-SEP-00	28
								340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001361

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	DATE
L001361-004	21-AUG-00	EPRI-0008-192	FE	10.	ppm	MK	26-SEP-00	180	6010
			HCO3	218.	ppm	DC	06-SEP-00	14	310.1
			K	9.3	ppm	MK	26-SEP-00	180	6010
			MG	19.	ppm	MK	26-SEP-00	180	6010
			NA	95.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.69	ppm	JN	13-SEP-00	28	353.2
			PB	0.013	ppm	CH	02-OCT-00	180	6020
			PH	8.4	ppm	DC	06-SEP-00	150.1	
			SE	<0.005	ppm	CH	02-OCT-00	180	6020
			SO4=	190.	ppm	JN	12-SEP-00	28	9036
			TDS	594.	ppm	BD	24-AUG-00	7	160.1
			TSS	418.	ppm	BD	23-AUG-00	160.2	
			ZN	0.040	ppm	CH	02-OCT-00	180	6020
L001361-005	21-AUG-00	EPRI-0008-184	AS	0.005	ppm	CH	02-OCT-00	180	6020
			CA	75.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	87.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	06-SEP-00	310.1	
			COND.	931.	umhos/cm2	BD	23-AUG-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	CH	26-SEP-00	6020	
			F-	0.69	ppm	EH	14-SEP-00	28	340.2
			FE	9.0	ppm	MK	26-SEP-00	180	6010
			HCO3	223.	ppm	DC	06-SEP-00	14	310.1
			K	8.4	ppm	MK	26-SEP-00	180	6010
			MG	19.	ppm	MK	26-SEP-00	180	6010
			NA	91.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.69	ppm	JN	13-SEP-00	28	353.2
			PB	0.019	ppm	CH	02-OCT-00	180	6020
			PH	8.3	ppm	DC	06-SEP-00	150.1	
			SE	<0.005	ppm	CH	02-OCT-00	180	6020
			SO4=	184.	ppm	JN	12-SEP-00	28	9036
			TDS	609.	ppm	BD	24-AUG-00	7	160.1
			TSS	426.	ppm	BD	23-AUG-00	160.2	
			ZN	0.050	ppm	CH	02-OCT-00	180	6020
L001361-006	21-AUG-00	EPRI-0008-191	AS	<0.005	ppm	CH	02-OCT-00	180	6020
			CA	69.	ppm	MK	26-SEP-00	180	6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID DAYS	METHOD
L001361-006	21-AUG-00	EPRI-0008-191	CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	83.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1
			COND.	929.	umhos/cm2	BD	23-AUG-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	CH	26-SEP-00		6020
			F-	0.65	ppm	EH	14-SEP-00	28	340.2
			FE	8.2	ppm	MK	26-SEP-00	180	6010
			HCO3	205.	ppm CaCO3	DC	06-SEP-00	14	310.1
			K	8.2	ppm	MK	26-SEP-00	180	6010
			MG	17.	ppm	MK	26-SEP-00	180	6010
			NA	89.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.58	ppm	JN	13-SEP-00	28	353.2
			PB	0.009	ppm	CH	02-OCT-00	180	6020
			PH	8.3	ppm	DC	06-SEP-00		150.1
			SE	<0.005	ppm	CH	02-OCT-00	180	6020
			SO4=	186.	ppm	JN	12-SEP-00	28	9036
			TDS	583.	ppm	BD	24-AUG-00	7	160.1
			TSS	401.	ppm	BD	23-AUG-00		160.2
			ZN	0.035	ppm	CH	02-OCT-00	180	6020
			AS	<0.005	ppm	CH	02-OCT-00	180	6020
			CA	75.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	78.	ppm	JN	12-SEP-00	28	325.2
			CO3	16.	ppm CaCO3	DC	06-SEP-00		310.1
			COND.	927.	umhos/cm2	BD	23-AUG-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	CH	26-SEP-00		6020
			F-	0.66	ppm	EH	14-SEP-00	28	340.2
			FE	8.1	ppm	MK	26-SEP-00	180	6010
L001361-007	21-AUG-00	EPRI-0008-190	HCO3	185.	ppm CaCO3	DC	06-SEP-00	14	310.1
			K	8.7	ppm	MK	26-SEP-00	180	6010
			MG	18.	ppm	MK	26-SEP-00	180	6010
			NA	94.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	0.61	ppm	JN	13-SEP-00	28	353.2
			PB	0.008	ppm	CH	02-OCT-00	180	6020
			PH	8.5	ppm	DC	06-SEP-00		150.1
			SE	<0.005	ppm	CH	02-OCT-00	180	6020

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Batch No.: L001361

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001361-007	21-AUG-00	EPRI-0008-190	SO4=	172.	ppm	JN	12-SEP-00	28	9036
			TDS	588.	ppm	BD	24-AUG-00	7	160.1
			TSS	406.	ppm	BD	23-AUG-00		160.2
			ZN	0.039	ppm	CH	02-OCT-00	180	6020
			AS	0.007	ppm	CH	02-OCT-00	180	6020
			CA	67.	ppm	MK	26-SEP-00	180	6010
			CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	145.	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	06-SEP-00		310.1
			COND.	1264.	umhos/cm2	BD	23-AUG-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	<0.025	ppm	CH	26-SEP-00		6020
			F-	0.75	ppm	EH	14-SEP-00	28	340.2
			FE	4.6	ppm	MK	26-SEP-00	180	6010
L001361-008	21-AUG-00	EPRI-0008-189	HCO3	186.	ppm	DC	06-SEP-00	14	310.1
			K	8.1	ppm	MK	26-SEP-00	180	6010
			MG	15.	ppm	MK	26-SEP-00	180	6010
			NA	155.	ppm	MK	26-SEP-00	180	6010
			NO2/NO3	3.8	ppm	JN	13-SEP-00	28	353.2
			PB	0.007	ppm	CH	02-OCT-00	180	6020
			PH	8.2	ppm	DC	06-SEP-00		150.1
			SE	<0.005	ppm	CH	02-OCT-00	180	6020
			SO4=	236.	ppm	JN	12-SEP-00	28	9036
			TDS	803.	ppm	BD	24-AUG-00	7	160.1
			TSS	248.	ppm	BD	23-AUG-00		160.2
			ZN	0.046	ppm	CH	02-OCT-00	180	6020
			AS	0.058	ppm	CH	02-OCT-00	180	6020
			CA	12.	ppm	MK	26-SEP-00	180	6010
L001361-009	21-AUG-00	EPRI-0008-194	CD	<0.005	ppm	CH	02-OCT-00	180	6020
			CL-	6.0	ppm	JN	12-SEP-00	28	325.2
			CO3	<1.0	ppm	DC	06-SEP-00		310.1
			COND.	183.	umhos/cm2	BD	23-AUG-00	28	120.1
			CR	<0.010	ppm	MK	26-SEP-00	180	6010
			CU	0.25	ppm	CH	26-SEP-00		6020
			F-	0.24	ppm	EH	14-SEP-00	28	340.2
			FE	2.3	ppm	MK	26-SEP-00	180	6010
			HCO3	44.	ppm	DC	06-SEP-00	14	310.1

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El Paso

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Batch No: L001361

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DAYS ANALYZED	MOID
L001361-009	21-AUG-00	EPRI-0008-194	K	2.6	ppm	MK	26-SEP-00	180 6010
			MG	3.0	ppm	MK	26-SEP-00	180 6010
			NA	16.	ppm	MK	26-SEP-00	180 6010
			NO2/NO3	0.41	ppm	JN	13-SEP-00	28 353.2
			PB	0.073	ppm	CH	02-OCT-00	180 6020
			PH	7.7	ppm	DC	06-SEP-00	150.1
			SE	0.006	ppm	CH	02-OCT-00	180 6020
			SO4=	33.	ppm	JN	12-SEP-00	28 9036
			TDS	136.	ppm	BD	24-AUG-00	7 160.1
			TSS	49.	ppm	BD	23-AUG-00	160.2
			ZN	0.14	ppm	CH	02-OCT-00	180 6020
			AS	0.27	ppm	CH	02-OCT-00	180 6020
			CA	184.	ppm	MK	26-SEP-00	180 6010
			CD	4.3	ppm	CH	02-OCT-00	180 6020
			CL-	410.	ppm	JN	12-SEP-00	28 325.2
			CO3	<1.0	ppm	DC	06-SEP-00	310.1
			COND.	8280.	umhos/cm2	BD	23-AUG-00	28 120.1
L001361-010	21-AUG-00	EPRI-0008-201	CR	<0.010	ppm	MK	26-SEP-00	180 6010
			CU	0.46	ppm	CH	26-SEP-00	6020
			F-	14.	ppm	EH	14-SEP-00	28 340.2
			FE	0.38	ppm	MK	26-SEP-00	180 6010
			HCO3	32.	ppm	DC	06-SEP-00	14 310.1
			K	38.	ppm	MK	26-SEP-00	180 6010
			MG	26.	ppm	MK	26-SEP-00	180 6010
			NA	1493.	ppm	MK	26-SEP-00	180 6010
			NO2/NO3	45.	ppm	JN	13-SEP-00	28 353.2
			PB	0.17	ppm	CH	02-OCT-00	180 6020
			PH	7.4	ppm	DC	06-SEP-00	150.1
			SE	0.39	ppm	CH	02-OCT-00	180 6020
			SO4=	3778.	ppm	JN	12-SEP-00	28 9036
			TDS	6514.	ppm	BD	24-AUG-00	7 160.1
			TSS	15.	ppm	BD	23-AUG-00	160.2
			ZN	2.8	ppm	CH	02-OCT-00	180 6020
L001361-011	21-AUG-00	EPRI-0008-203	AS	0.97	ppm	CH	02-OCT-00	180 6020
			CA	188.	ppm	MK	26-SEP-00	180 6010
			CD	0.69	ppm	CH	02-OCT-00	180 6020
			CL-	246.	ppm	JN	12-SEP-00	28 325.2

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Batch No: L001361

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD DAYS	METHOD
							ANALYZED	TESTED		
L001361-011	21-AUG-00	EPRI-0008-203	CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1	
			COND.	2190.	umhos/cm2	BD	23-AUG-00	28	120.1	
			CR	<0.010	ppm	MK	26-SEP-00	180	6010	
			CU	0.69	ppm	CH	26-SEP-00		6020	
			F-	2.9	ppm	EH	14-SEP-00	28	340.2	
			FE	0.28	ppm	MK	26-SEP-00	180	6010	
			HCO3	50.	ppm CaCO3	DC	06-SEP-00	14	310.1	
			K	13.	ppm	MK	26-SEP-00	180	6010	
			MG	33.	ppm	MK	26-SEP-00	180	6010	
			NA	219.	ppm	MK	26-SEP-00	180	6010	
			NO2/NO3	0.57	ppm	MK	26-SEP-00	180	6010	
			PB	0.26	ppm	MK	26-SEP-00	180	6010	
			PH	7.6	ppm	JN	13-SEP-00	28	353.2	
			SE	0.099	ppm	CH	02-OCT-00	180	6020	
			SO4=	745.	ppm	DC	06-SEP-00		150.1	
			TDS	1598.	ppm	CH	02-OCT-00	180	6020	
			TSS	22.	ppm	CH	12-SEP-00	28	9036	
			ZN	1.9	ppm	BD	24-AUG-00	7	160.1	
					ppm	CH	23-AUG-00		160.2	
					ppm	CH	02-OCT-00	180	6020	
L001361-012	21-AUG-00	EPRI-0008-242	AS	<0.005	ppm	CH	02-OCT-00	180	6020	
			CA	<1.0	ppm	MK	26-SEP-00	180	6010	
			CD	<0.005	ppm	CH	02-OCT-00	180	6020	
			CL-	<1.0	ppm	JN	12-SEP-00	28	325.2	
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00		310.1	
			COND.	<5.0	umhos/cm2	BD	23-AUG-00	28	120.1	
			CR	<0.010	ppm	MK	26-SEP-00	180	6010	
			CU	<0.025	ppm	CH	26-SEP-00		6020	
			F-	<0.050	ppm	EH	14-SEP-00	28	340.2	
			FE	<0.10	ppm	MK	26-SEP-00	180	6010	
			HCO3	<1.0	ppm CaCO3	DC	06-SEP-00	14	310.1	
			K	<2.0	ppm	MK	26-SEP-00	180	6010	
			MG	<2.0	ppm	MK	26-SEP-00	180	6010	
			NA	<2.0	ppm	MK	26-SEP-00	180	6010	
			NO2/NO3	<0.050	ppm	JN	13-SEP-00	28	353.2	
			PB	<0.003	ppm	CH	02-OCT-00	180	6020	
			PH	5.6	ppm	DC	06-SEP-00		150.1	
			SE	<0.005	ppm	CH	02-OCT-00	180	6020	
			SO4=	<2.0	ppm	JN	12-SEP-00	28	9036	
			TDS	<10.	ppm	BD	24-AUG-00	7	160.1	

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001361-012	21-AUG-00	EPRI-0008-242	TSS	1.3	PPM	ED	23-AUG-00	160.2	
			ZN	0.020	PPM	CH	02-OCT-00	180	6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 6010 and 6020.


Approved


Reviewer

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Water and Solid Waste (Project 3220)

Batch No: WG000932

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
WG000932-1		Matrix Spike	AS	90	%Recovery	CH	02-OCT-00	6020
			CD	96	%Recovery	CH	02-OCT-00	6020
			CL-	107	%Recovery	JN	12-SEP-00	325.2
			CR	86	%Recovery	MK	26-SEP-00	6010
			CU	86	%Recovery	CH	26-SEP-00	6020
			F-	101	%Recovery	ER	14-SEP-00	340.2
			FE	83	%Recovery	MK	26-SEP-00	6010
			NO2/NO3	107	%Recovery	JN	13-SEP-00	353.2
			PB	108	%Recovery	CH	02-OCT-00	6020
			SE	78	%Recovery	CH	02-OCT-00	6020
			SO4=	102	%Recovery	JN	12-SEP-00	9036
			ZN	93	%Recovery	CH	02-OCT-00	6020
WG000932-2		Prep Blank	AS	<0.005	ppm	CH	02-OCT-00	6020
			CA	<1.0	ppm	MK	26-SEP-00	6010
			CD	<0.005	ppm	CH	02-OCT-00	6020
			CL-	<1.0	ppm	JN	12-SEP-00	325.2
			CO3	<1.0	ppm CaCO3	DC	06-SEP-00	310.1
			COND.	<5.0	umhos/cm2	BD	23-AUG-00	120.1
			CR	<0.010	ppm	MK	26-SEP-00	6010
			CU	<0.025	ppm	CH	26-SEP-00	6020
			F-	<0.050	ppm	EH	14-SEP-00	340.2
			FE	<0.10	ppm	MK	26-SEP-00	6010
			HCO3	<1.0	ppm CaCO3	DC	06-SEP-00	310.1
			K	<2.0	ppm	MK	26-SEP-00	6010
			MG	<1.0	ppm	MK	26-SEP-00	6010
			NA	<2.0	ppm	MK	26-SEP-00	6010
			NO2/NO3	<0.050	ppm	JN	13-SEP-00	353.2
			PB	<0.003	ppm	CH	02-OCT-00	6020
			SE	<0.005	ppm	CH	02-OCT-00	6020
			SO4=	<2.0	ppm	JN	12-SEP-00	9036
			TDS	<10.	ppm	BD	24-AUG-00	160.1
			TSS	<1.0	ppm	BD	23-AUG-00	160.2
			ZN	<0.020	ppm	CH	02-OCT-00	6020
WG000932-3		Lab Control Sample	AS	103	%Recovery	CH	02-OCT-00	6020
			CA	90	%Recovery	MK	26-SEP-00	6010
			CD	100	%Recovery	CH	02-OCT-00	6020
			CL-	104	%Recovery	JN	12-SEP-00	325.2

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Batch No: WG000932

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG000932-3		Lab Control Sample	COND.	99	% Recovery	BD	23-AUG-00	120.1	
			CR	91	% Recovery	MK	26-SEP-00	6010	
			CU	98	% Recovery	CH	26-SEP-00	6020	
			F-	97	% Recovery	EH	14-SEP-00	340.2	
			FE	95	% Recovery	MK	26-SEP-00	6010	
			HCO3	101	% Recovery	DC	06-SEP-00	310.1	
			K	90	% Recovery	MK	26-SEP-00	6010	
			MG	90	% Recovery	MK	26-SEP-00	6010	
			NA	89	% Recovery	MK	26-SEP-00	6010	
			NO2/NO3	100	% Recovery	JN	13-SEP-00	353.2	
			PE	103	% Recovery	CH	02-OCT-00	6020	
			SE	109	% Recovery	CH	02-OCT-00	6020	
			SO4=	102	% Recovery	JN	12-SEP-00	9036	
			TDS	100	% Recovery	BD	24-AUG-00	160.1	
			TSS	110	% Recovery	BD	23-AUG-00	160.2	
			ZN	110	% Recovery	CH	02-OCT-00	6020	
			CL-	1.7	% RPD	JN	12-SEP-00	325.2	
			CO3	<1	% RPD	DC	06-SEP-00	310.1	
			COND.	<1	% RPD	BD	23-AUG-00	120.1	
			F-	1.6	% RPD	EH	14-SEP-00	340.2	
WG000932-4		Duplicate	HCO3	2.3	% RPD	DC	06-SEP-00	310.1	
			NO2/NO3	3.7	% RPD	JN	13-SEP-00	353.2	
			SO4=	3.2	% RPD	JN	12-SEP-00	9036	
			TDS	<1	% RPD	BD	24-AUG-00	160.1	
			TSS	<1	% RPD	BD	23-AUG-00	160.2	
			AS	<1	% RPD	CH	02-OCT-00	6020	
			CA	1.3	% RPD	MK	26-SEP-00	6010	
			CD	<1	% RPD	CH	02-OCT-00	6020	
			CR	<1	% RPD	MK	26-SEP-00	6010	
			CU	<1	% RPD	CH	26-SEP-00	6020	
WG000932-5		Matrix Spike Duplicate	FE	1.5	% RPD	MK	26-SEP-00	6010	
			K	<1	% RPD	MK	26-SEP-00	6010	
			MG	<1	% RPD	MK	26-SEP-00	6010	
			NA	1.0	% RPD	MK	26-SEP-00	6010	
			PB	10	% RPD	CH	02-OCT-00	6020	
			SE	<1	% RPD	CH	02-OCT-00	6020	
			ZN	2.7	% RPD	CH	02-OCT-00	6020	

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Batch No: WG000932

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	DATE HOLD
WG000932-6		Reporting Limit						
			AS	0.005	ppm			6020
			CA	1.0	ppm			6010
			CD	0.005	ppm			6020
			CL-	1.0	ppm			325.2
			CO3	1.0	ppm	CaCO3		310.1
			COND.	5.0	umhos/cm2			120.1
			CR	0.010	ppm			6010
			CU	0.025	ppm			6020
			F-	0.050	ppm			340.2
			FE	0.10	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	0.050	ppm			353.2
			PB	0.003	ppm			6020
			SE	0.005	ppm			6020
			SO4=	2.0	ppm			9036
			TDS	10.	ppm			160.1
			TSS	1.0	ppm			160.2
			ZN	0.020	ppm			6020

[Signature]

Approved

[Signature]

Reviewer

Hydrometrics - TC

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS							REMARKS	
DATE	TIME	COMP.	GRAB		SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃		BTX
8-16-00	8:15				3	X	X		X				
	8:50				3	X	X		X				
	9:15				3	X	X		X				
	9:40				3	X	X		X				
	9:45				3	X	X		X				
	10:20				3	X	X		X				
	10:50				3	X	X		X				
	11:15				3	X	X		X				
	13:00				3	X	X		X				
	14:15				3	X	X		X				
	15:15				3	X	X		X				
	16:00				3	X	X		X				
Relinquished (Signature)					Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		
Relinquished (Signature)					Received by: (Signature)		TSC - 520, UT				Other		
Relinquished (Signature)					Received by: (Signature)		Remarks				Air Bill #		
Relinquished (Signature)					Received 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		
Relinquished (Signature)					Received by: (Signature)		Date/Time		8.18.00 11:00		Signature		

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FORM-15

SECTION F-3

**LAB REPORTS FOR WATER SAMPLES,
FALL 2000**

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

RECEIVED

JAN 16 2001

HYDROMETRICS, INC.

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001894-001	10-NOV-00	EPRI-0011-175	AS	1.1	ppm	CH	03-JAN-01	180	6020
			CA	212.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL	521.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00	28	310.1
			COND.	5190.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00	6010	
			F-	2.9	ppm	EH	21-NOV-00	28	340.2
			FE	1.6	ppm	MK	12-DEC-00	180	6010
			HCO3	298.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	62.	ppm	MK	12-DEC-00	180	6010
			MG	62.	ppm	MK	12-DEC-00	180	6010
			NA	898.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	0.11	ppm	JN	06-DEC-00	28	353.2
			PB	0.003	ppm	CH	03-JAN-01	180	6020
			PH	7.5	pH	DC	21-NOV-00	150.1	
			SE	0.007	ppm	CH	03-JAN-01	180	6020
			SO4=	1518.	ppm	JN	01-DEC-00	28	9036
			TDS	3889.	ppm	BD	17-NOV-00	7	160.1
			TSS	8.9	ppm	MC	16-NOV-00	160.2	
			ZN	0.023	ppm	CH	03-JAN-01	180	6020
L001894-002	10-NOV-00	EPRI-0011-235	AS	1.1	ppm	CH	03-JAN-01	180	6020
			CA	187.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL	412.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1	
			COND.	5190.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00	6010	
			F-	2.9	ppm	EH	21-NOV-00	28	340.2
			FE	1.4	ppm	MK	12-DEC-00	180	6010
			HCO3	295.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	53.	ppm	MK	12-DEC-00	180	6010
			MG	54.	ppm	MK	12-DEC-00	180	6010
			NA	781.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	0.21	ppm	JN	06-DEC-00	28	353.2
			PB	0.005	ppm	CH	03-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001894-002	10-NOV-00	EPRI-0011-235	PH	7.6	PH	DC	21-NOV-00	150.1	
			SE	0.007	ppm	CH	03-JAN-01	180	6020
			SO4=	1669.	ppm	JN	01-DEC-00	28	9036
			TDS	3939.	ppm	BD	17-NOV-00	7	160.1
			TSS	7.8	ppm	MC	16-NOV-00		160.2
			ZN	0.024	ppm	CH	03-JAN-01	180	6020
			AS	0.030	ppm	CH	03-JAN-01	180	6020
			CA	193.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	662.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	7280.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
L001894-003	10-NOV-00	EPRI-0011-176	CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	2.0	ppm	EH	21-NOV-00	28	340.2
			FE	0.29	ppm	MK	12-DEC-00	180	6010
			HCO3	592.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	80.	ppm	MK	12-DEC-00	180	6010
			MG	98.	ppm	MK	12-DEC-00	180	6010
			NA	893.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	0.21	ppm	JN	06-DEC-00	28	353.2
			PB	<0.003	ppm	CH	03-JAN-01	180	6020
			PH	7.8	PH	DC	21-NOV-00		150.1
			SE	0.012	ppm	CH	03-JAN-01	180	6020
			SO4=	2495.	ppm	JN	01-DEC-00	28	9036
			TDS	5169.	ppm	BD	17-NOV-00	7	160.1
			TSS	2.4	ppm	MC	16-NOV-00		160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180	6020
			AS	0.015	ppm	CH	03-JAN-01	180	6020
			CA	109.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	205.	ppm	JN	06-DEC-00	28	325.2
L001894-004	10-NOV-00	EPRI-0011-177	CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	3620.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	3.0	ppm	EH	21-NOV-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001894-004	10-NOV-00	EPRI-0011-177	FE	0.72	ppm	MK	12-DEC-00	180	6010
			HCO3	322.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	36.	ppm	MK	12-DEC-00	180	6010
			MG	50.	ppm	MK	12-DEC-00	180	6010
			NA	583.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	0.14	ppm	JN	06-DEC-00	28	353.2
			PB	<0.003	ppm	CH	03-JAN-01	180	6020
			PH	7.7	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	03-JAN-01	180	6020
			SO4=	1048.	ppm	JN	01-DEC-00	28	9036
			TDS	2603.	ppm	BD	17-NOV-00	7	160.1
			TSS	4.1	ppm	MC	16-NOV-00		160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180	6020
			AS	<0.005	ppm	CH	03-JAN-01	180	6020
			CA	114.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	205.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	1771.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
L001894-005	10-NOV-00	EPRI-0011-188	CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	0.68	ppm	EH	21-NOV-00	28	340.2
			FE	8.7	ppm	MK	12-DEC-00	180	6010
			HCO3	280.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	12.	ppm	MK	12-DEC-00	180	6010
			MG	27.	ppm	MK	12-DEC-00	180	6010
			NA	218.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	1.7	ppm	JN	03-DEC-00	28	353.2
			PB	0.006	ppm	CH	03-JAN-01	180	6020
			PH	8.2	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	03-JAN-01	180	6020
			SO4=	292.	ppm	JN	01-DEC-00	28	9036
			TDS	1202.	ppm	BD	17-NOV-00	7	160.1
			TSS	311.	ppm	MC	16-NOV-00		160.2
			ZN	0.028	ppm	CH	03-JAN-01	180	6020
			AS	<0.005	ppm	CH	03-JAN-01	180	6020
			CA	106.	ppm	MK	12-DEC-00	180	6010
L001894-006	10-NOV-00	EPRI-0011-183	AS	<0.005	ppm	CH	03-JAN-01	180	6020
			CA	106.	ppm	MK	12-DEC-00	180	6010

ASRACO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	WELD DAYS	METHOD
L001894-006	10-NOV-00	EPRI-0011-183	CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	206.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	1728.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	0.68	ppm	EH	21-NOV-00	28	340.2
			FE	7.7	ppm	MK	12-DEC-00	180	6010
			HCO3	277.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	11.	ppm	MK	12-DEC-00	180	6010
			MG	26.	ppm	MK	12-DEC-00	180	6010
			NA	211.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	1.8	ppm	JN	03-DEC-00	28	353.2
			PB	0.014	ppm	CH	03-JAN-01	180	6020
			PH	8.2	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	03-JAN-01	180	6020
			SO4=	310.	ppm	JN	01-DEC-00	28	9036
			TDS	1177.	ppm	BD	17-NOV-00	7	180.1
			TSS	307.	ppm	MC	16-NOV-00		160.2
			ZN	0.025	ppm	CH	03-JAN-01	180	6020
			AS	<0.005	ppm	CH	03-JAN-01	180	6020
			CA	113.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
L001894-007	10-NOV-00	EPRI-0011-185	CL-	222.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	1784.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	0.70	ppm	MK	12-DEC-00	28	340.2
			FE	8.4	ppm	EH	21-NOV-00		6010
			HCO3	280.	ppm CaCO3	MK	12-DEC-00	180	6010
			K	11.	ppm	DC	21-NOV-00	14	310.1
			MG	29.	ppm	MK	12-DEC-00	180	6010
			NA	225.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	2.2	ppm	JN	04-DEC-00	28	353.2
			PB	0.005	ppm	CH	03-JAN-01	180	6020
			PH	8.2	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	03-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L001894-007	10-NOV-00	EPRI-0011-185	SO4=	335.	ppm	JN	01-DEC-00	28
			TDS	1208.	ppm	BD	17-NOV-00	7
			TSS	294.	ppm	MC	16-NOV-00	160.1
			ZN	0.028	ppm	CH	03-JAN-01	180
								6020
			AS	<0.005	ppm	CH	03-JAN-01	180
			CA	106.	ppm	MK	12-DEC-00	180
			CD	<0.005	ppm	CH	03-JAN-01	180
			CL-	204.	ppm	JN	05-DEC-00	28
			CO3	<1.0	ppm	DC	21-NOV-00	310.1
L001894-008	10-NOV-00	EPRI-0011-187	COND.	1880.	umhos/cm2	BD	20-NOV-00	28
			CR	<0.010	ppm	MK	12-DEC-00	180
			CU	<0.025	ppm	MK	12-DEC-00	6010
			F-	0.70	ppm	EH	21-NOV-00	28
			FE	7.0	ppm	MK	12-DEC-00	180
			HCO3	274.	ppm	DC	12-DEC-00	6010
			K	10.	ppm	MK	21-NOV-00	14
			MG	27.	ppm	DC	12-DEC-00	180
			NA	221.	ppm	MK	12-DEC-00	6010
			NO2/NO3	2.2	ppm	MK	12-DEC-00	180
L001894-009	10-NOV-00	EPRI-0011-236	PB	0.005	ppm	JN	04-DEC-00	28
			PH	8.2	ppm	CH	03-JAN-01	180
			SE	<0.005	ppm	DC	21-NOV-00	150.1
			SO4=	360.	ppm	CH	03-JAN-01	180
			TDS	1275.	ppm	JN	01-DEC-00	28
			TSS	296.	ppm	BD	17-NOV-00	7
			ZN	0.030	ppm	MC	16-NOV-00	160.1
						CH	03-JAN-01	180
								6020
			AS	<0.005	ppm	CH	03-JAN-01	180
L001894-009	10-NOV-00	EPRI-0011-236	CA	<1.0	ppm	CH	03-JAN-01	180
			CD	<0.005	ppm	MK	12-DEC-00	180
			CL-	<1.0	ppm	CH	03-JAN-01	180
			CO3	<1.0	ppm	JN	05-DEC-00	28
			COND.	<5.0	umhos/cm2	DC	21-NOV-00	310.1
			CR	<0.010	ppm	BD	20-NOV-00	28
			CU	<0.025	ppm	MK	12-DEC-00	180
			F-	<0.050	ppm	MK	12-DEC-00	6010
			FE	<0.10	ppm	EH	21-NOV-00	28
			HCO3	<1.0	ppm	MK	12-DEC-00	180
L001894-009	10-NOV-00	EPRI-0011-236				DC	21-NOV-00	14
								310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L001894-009	10-NOV-00	EPRI-0011-236	K	<2.0	ppm	MK	12-DEC-00	180
			MG	<1.0	ppm	MK	12-DEC-00	180
			NA	<2.0	ppm	MK	12-DEC-00	180
			NO2/NO3	<0.050	ppm	JN	04-DEC-00	28
			PB	<0.003	ppm	CH	03-JAN-01	180
			PH	5.4	PH	DC	21-NOV-00	150.1
			SE	<0.005	ppm	CH	03-JAN-01	180
			SO4-	<2.0	ppm	JN	01-DEC-00	28
			TDS	<10.	ppm	BD	17-NOV-00	7
			TSS	<1.0	ppm	MC	16-NOV-00	160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180
								5020
			AS	250.	ppm	MK	19-DEC-00	180
			CA	706.	ppm	MK	12-DEC-00	180
			CD	2.2	ppm	CH	03-JAN-01	180
			CL-	703.	ppm	JN	05-DEC-00	28
L001894-010	10-NOV-00	EPRI-0011-178	CO3	<1.0	ppm	CaCO3	21-NOV-00	310.1
			COND.	7800.	umhos/cm2	BD	20-NOV-00	28
			CR	0.062	ppm	MK	12-DEC-00	180
			CU	0.96	ppm	MK	12-DEC-00	6010
			F-	9.9	ppm	EH	21-NOV-00	28
			FE	172.	ppm	MK	12-DEC-00	180
			HCO3	1080.	ppm	CaCO3	21-NOV-00	14
			K	182.	ppm	MK	12-DEC-00	180
			MG	252.	ppm	MK	12-DEC-00	180
			NA	876.	ppm	MK	12-DEC-00	180
			NO2/NO3	0.19	ppm	JN	04-DEC-00	28
			PB	0.53	ppm	CH	03-JAN-01	180
			PH	6.7	PH	DC	21-NOV-00	150.1
			SE	<0.010	ppm	CH	03-JAN-01	180
			SO4=	3270.	ppm	JN	01-DEC-00	28
			TDS	6842.	ppm	BD	17-NOV-00	7
			TSS	9284.	ppm	MC	16-NOV-00	160.2
			ZN	51.	ppm	MK	12-DEC-00	180
								6010
			AS	0.45	ppm	CH	03-JAN-01	180
			CA	366.	ppm	MK	12-DEC-00	180
			CD	0.17	ppm	CH	03-JAN-01	180
			CL-	358.	ppm	JN	05-DEC-00	28
								325.2
L001894-011	10-NOV-00	EPRI-0011-179						

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001894-011	10-NOV-00	EPRI-0011-179	CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	7520.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	0.42	ppm	MK	12-DEC-00		6010
			F-	4.8	ppm	EH	21-NOV-00	28	340.2
			FE	0.93	ppm	MK	12-DEC-00	180	6010
			HCO3	402.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	47.	ppm	MK	12-DEC-00	180	6010
			MG	77.	ppm	MK	12-DEC-00	180	6010
			NA	1327.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	92.	ppm	JN	04-DEC-00	28	353.2
			PB	0.19	ppm	CH	03-JAN-01	180	6020
			PH	7.7	pH	DC	21-NOV-00		150.1
			SE	1.7	ppm	CH	03-JAN-01	180	6020
			SO4=	3191.	ppm	JN	01-DEC-00	28	9036
			TDS	6445.	ppm	BD	17-NOV-00	7	160.1
			TSS	42.	ppm	MC	16-NOV-00		160.2
			ZN	0.50	ppm	CH	03-JAN-01	180	6020
L001894-012	10-NOV-00	EPRI-0011-180	AS	1.5	ppm	MK	12-DEC-00	180	6010
			CA	309.	ppm	MK	12-DEC-00	180	6010
			CD	0.80	ppm	CH	03-JAN-01	180	6020
			CL-	373.	ppm	JN	06-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	5400.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	15.	ppm	MK	12-DEC-00		6010
			F-	4.2	ppm	EH	21-NOV-00	28	340.2
			FE	17.	ppm	MK	12-DEC-00	180	6010
			HCO3	370.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	40.	ppm	MK	12-DEC-00	180	6010
			MG	64.	ppm	MK	12-DEC-00	180	6010
			NA	795.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	13.	ppm	JN	04-DEC-00	28	353.2
			PB	1.1	ppm	CH	03-JAN-01	180	6020
			PH	7.6	pH	DC	21-NOV-00		150.1
			SE	0.21	ppm	CH	03-JAN-01	180	6020
			SO4=	1838.	ppm	JN	01-DEC-00	28	9036
			TDS	4104.	ppm	BD	17-NOV-00	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZER	DAY	METHOD
L001894-012	10-NOV-00	EPRI-0011-180	TSS	423.	ppm	MC	16-NOV-00		180	160.2
			ZN	6.3	ppm	MK	12-DEC-00		180	6010
			AS	6.1	ppm	MK	12-DEC-00		180	6010
			CA	362.	ppm	MK	12-DEC-00		180	6010
			CD	0.67	ppm	CH	03-JAN-01		180	6020
			CL-	334.	ppm	JN	05-DEC-00		28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00			310.1
			COND.	3660.	umhos/cm2	BD	20-NOV-00		28	120.1
			CR	0.033	ppm	MK	12-DEC-00		180	6010
			CU	0.47	ppm	MK	12-DEC-00			6010
			F-	4.1	ppm	EH	21-NOV-00		28	340.2
			FE	42.	ppm	MK	12-DEC-00		180	6010
			HCO3	490.	ppm CaCO3	DC	21-NOV-00		14	310.1
			K	88.	ppm	MK	12-DEC-00		180	6010
			MG	57.	ppm	MK	12-DEC-00		180	6010
			NA	458.	ppm	MK	12-DEC-00		180	6010
			NO2/NO3	12.	ppm	JN	04-DEC-00		28	353.2
			PB	2.4	ppm	CH	03-JAN-01		180	6020
			PH	7.9	pH	DC	21-NOV-00			150.1
			SE	0.87	ppm	CH	03-JAN-01		180	6020
			SO4=	1260.	ppm	JN	01-DEC-00		28	9036
			TDS	2864.	ppm	BD	17-NOV-00		7	160.1
			TSS	4334.	ppm	MC	16-NOV-00			160.2
			ZN	0.85	ppm	MK	12-DEC-00		180	6010
			AS	3.0	ppm	MK	12-DEC-00		180	6010
			CA	194.	ppm	MK	12-DEC-00		180	6010
			CD	0.012	ppm	CH	03-JAN-01		180	6020
			CL-	129.	ppm	JN	05-DEC-00		28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00			310.1
			COND.	2780.	umhos/cm2	BD	20-NOV-00		28	120.1
			CR	0.035	ppm	MK	12-DEC-00		180	6010
			CU	0.30	ppm	MK	12-DEC-00			6010
			F-	2.5	ppm	EH	21-NOV-00		28	340.2
			FE	103.	ppm	MK	12-DEC-00		180	6010
			HCO3	309.	ppm CaCO3	DC	21-NOV-00		14	310.1
			K	35.	ppm	MK	12-DEC-00		180	6010
			MG	71.	ppm	MK	12-DEC-00		180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD DAYS	METHOD
L001894-014	10-NOV-00	EPRI 0011-182	NA	435.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	19.	ppm	JN	04-DEC-00	28	353.2
			PB	0.36	ppm	CH	03-JAN-01	180	6020
			PH	8.2	pH	DC	21-NOV-00		150.1
			SE	0.87	ppm	CH	03-JAN-01	180	6020
			SO4=	997.	ppm	JN	01-DEC-00	28	9036
			TDS	2178.	ppm	RD	17-NOV 00	7	160.1
			TSS	2384.	ppm	MC	16-NOV-00		160.2
			ZN	0.20	ppm	CH	03-JAN-01	180	6020
			AS	3.4	ppm	MK	12-DEC-00	180	6010
			CA	451.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	2509.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
L001894-015	13-NOV-00	EPRI-0011-126	COND.	11380.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	4.8	ppm	EH	21-NOV-00	28	340.2
			FE	1.7	ppm	MK	12-DEC-00	180	6010
			HCO3	1068.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	200.	ppm	MK	12-DEC-00	180	6010
			MG	208.	ppm	MK	12-DEC-00	180	6010
			NA	1773.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	0.19	ppm	JN	06-DEC-00	28	353.2
			PB	0.003	ppm	CH	03-JAN-01	180	6020
			PH	7.2	pH	DC	21-NOV-00		150.1
			SE	0.027	ppm	CH	03-JAN-01	180	6020
			SO4=	11643.	ppm	JN	01-DEC-00	28	9036
L001894-016	13-NOV-00	EPRI-0011-129	TDS	9180.	ppm	BD	17-NOV-00	7	160.1
			TSS	64.	ppm	MC	16-NOV-00		160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180	6020
			AS	0.010	ppm	CH	03-JAN-01	180	6020
			CA	369.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	802.	ppm	JN	05-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	8660.	umhos/cm2	BD	20-NOV-00	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	
							ANALYZED	DAYS METHOD
L001894-016	13-NOV-00	EPRI-0011-129	CR	<0.010	ppm	MK	12-DEC-00	180 6010
			CU	<0.025	ppm	MK	12-DEC-00	6010
			P-	1.7	ppm	EH	21-NOV-00	28 340.2
			FE	<0.10	ppm	MK	12-DEC-00	180 6010
			HCO3	346.	ppm	DC	21-NOV-00	14 310.1
			K	17.	ppm	MK	12-DEC-00	180 6010
			MG	161.	ppm	MK	12-DEC-00	180 6010
			NA	1461.	ppm	MK	12-DEC-00	180 6010
			NO2/NO3	108.	ppm	JN	04-DEC-00	28 353.2
			PB	0.004	ppm	CH	03-JAN-01	180 6020
			PH	7.8	pH	DC	21-NOV-00	150.1
			SE	0.32	ppm	CH	03-JAN-01	180 6020
			SO4=	5608.	ppm	JN	01-DEC-00	28 9036
			TDS	7324.	ppm	BD	17-NOV-00	7 160.1
			TSS	2.9.	ppm	MC	16-NOV-00	160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180 6020
L001894-017	13-NOV-00	EPRI-0011-237	AS	0.009	ppm	CH	03-JAN-01	180 6020
			CA	342.	ppm	MK	12-DEC-00	180 6010
			CD	<0.005	ppm	CH	03-JAN-01	180 6020
			CL-	774.	ppm	JN	06-DEC-00	28 325.2
			CO3	<1.0	ppm	DC	21-NOV-00	310.1
			COND.	8680.	umhos/cm2	BD	20-NOV-00	28 120.1
			CR	<0.010	ppm	MK	12-DEC-00	180 6010
			CU	<0.025	ppm	MK	12-DEC-00	6010
			F-	1.7	ppm	EH	21-NOV-00	28 340.2
			FE	<0.10	ppm	MK	12-DEC-00	180 6010
			HCO3	330.	ppm	DC	21-NOV-00	14 310.1
			K	15.	ppm	MK	12-DEC-00	180 6010
			MG	150.	ppm	MK	12-DEC-00	180 6010
			NA	1385.	ppm	MK	12-DEC-00	180 6010
			NO2/NO3	133.	ppm	JN	04-DEC-00	28 353.2
			PB	<0.003	ppm	CH	03-JAN-01	180 6020
			PH	7.7	pH	DC	21-NOV-00	150.1
			SE	0.33	ppm	CH	03-JAN-01	180 6020
			SO4=	5747.	ppm	JN	01-DEC-00	28 9036
			TDS	7232.	ppm	BD	17-NOV-00	7 160.1
			TSS	2.7	ppm	MC	16-NOV-00	160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180 6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001894-018	13-NOV-00	EPRI-0011-133	AS	<0.005	ppm	CH	03-JAN-01	180	6020
			CA	254.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	524.	ppm	JN	06-DEC-00	28	325.2
			CO3	<1.0	ppm	DC	21-NOV-00		310.1
			COND.	6340.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	2.0	ppm	EH	21-NOV-00	28	340.2
			FE	0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	496.	ppm	DC	21-NOV-00	14	310.1
			K	18.	ppm	MK	12-DEC-00	180	6010
			MG	107.	ppm	MK	12-DEC-00	180	6010
			NA	1069.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	19.	ppm	JN	04-DEC-00	28	353.2
			PB	<0.003	ppm	CH	03-JAN-01	180	6020
			PH	7.6	pH	DC	21-NOV-00		150.1
			SE	0.22	ppm	CH	03-JAN-01	180	6020
			SO4=	2516.	ppm	JN	01-DEC-00	28	9036
			TDS	5050.	ppm	BD	17-NOV-00	7	160.1
			TSS	5.4	ppm	MC	16-NOV-00		160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180	6020
L001894-019	13-NOV-00	EPRI-0011-125	AS	0.25	ppm	CH	03-JAN-01	180	6020
			CA	213.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	03-JAN-01	180	6020
			CL-	379.	ppm	JN	06-DEC-00	28	325.2
			CO3	<1.0	ppm	DC	21-NOV-00		310.1
			COND.	4820.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	1.1	ppm	EH	21-NOV-00	28	340.2
			FE	1.4	ppm	MK	12-DEC-00	180	6010
			HCO3	1140.	ppm	DC	21-NOV-00	14	310.1
			K	18.	ppm	MK	12-DEC-00	180	6010
			MG	130.	ppm	MK	12-DEC-00	180	6010
			NA	757.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	0.15	ppm	JN	04-DEC-00	28	353.2
			PB	0.003	ppm	CH	03-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001894-019	13-NOV-00	EPRI-0011-125	PH	7.5	ppm	DC	21-NOV-00	150.1	
			SE	<0.005	ppm	CH	03-JAN-01	180	6020
			SO4=	858.	ppm	JN	01-DEC-00	28	9036
			TDS	3607.	ppm	BD	17-NOV-00	7	160.1
			TSS	272.	ppm	MC	16-NOV-00		160.2
			ZN	<0.020	ppm	CH	03-JAN-01	180	6020
			AS	49.	ppm	MK	19-DEC-00	180	6010
			CA	412.	ppm	MK	12-DEC-00	180	6010
			CD	1.4	ppm	CH	03-JAN-01	180	6020
			CL-	441.	ppm	JN	06-DEC-00	28	325.2
L001894-020	13-NOV-00	EPRI-0011-121	CO3	<1.0	ppm	CaCO3	21-NOV-00	310.1	
			COND.	7610.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	0.027	ppm	MK	12-DEC-00		6010
			F-	6.2	ppm	EH	21-NOV-00	28	340.2
			FE	6.7	ppm	MK	12-DEC-00	180	6010
			HCO3	270.	ppm	CaCO3	21-NOV-00	14	310.1
			K	71.	ppm	MK	12-DEC-00	180	6010
			MG	89.	ppm	MK	12-DEC-00	180	6010
			NA	1170.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	82.	ppm	JN	04-DEC-00	28	353.2
			PB	0.006	ppm	CH	03-JAN-01	180	6020
			PH	7.2	ppm	DC	21-NOV-00		150.1
			SE	1.2	ppm	CH	03-JAN-01	180	6020
			SO4=	2872.	ppm	JN	01-DEC-00	28	9036
			TDS	6538.	ppm	BD	17-NOV-00	7	160.1
			TSS	471.	ppm	MC	16-NOV-00		160.2
			ZN	4.1	ppm	MK	12-DEC-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT


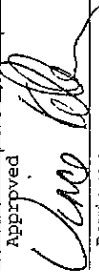
El Paso

Water and Solid Waste (Project 3220)

Batch No: L001894

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.


Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001210-1		Matrix Spike	AS	SR-4XSA	%Recovery	CH	03-JAN-01		6020
			CD	88	%Recovery	CH	03-JAN-01		6020
			CL-	103	%Recovery	JN	06-DEC-00		325.2
			CR	93	%Recovery	MK	12-DEC-00		6010
			CU	102	%Recovery	MK	12-DEC-00		6010
			F-	100	%Recovery	BH	21-NOV-00		340.2
			FE	98	%Recovery	MK	12-DEC-00		6010
			NO2/NO3	97	%Recovery	JN	03-DEC-00		353.2
			NR	83	%Recovery	CH	03-JAN-01		6020
			SE	96	%Recovery	CH	03-JAN-01		6020
			SO4=	97	%Recovery	JN	01-DEC-00		9036
			ZN	80	%Recovery	CH	03-JAN-01		6020
WG001210-2		Prep Blank	AS	<0.005	ppm	CH	03-JAN-01		6020
			CA	<1.0	ppm	MK	12-DEC-00		6010
			CD	<0.005	ppm	CH	03-JAN-01		6020
			CL-	<1.0	ppm	JN	06-DEC-00		325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	20-NOV-00		120.1
			CR	<0.010	ppm	MK	12-DEC-00		6010
			CU	<0.025	ppm	MK	12-DEC-00		6010
			F-	<0.050	ppm	EH	21-NOV-00		340.2
			FE	<0.10	ppm	MK	12-DEC-00		6010
			HCO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			K	<2.0	ppm	MK	12-DEC-00		6010
			MG	<1.0	ppm	MK	12-DEC-00		6010
			NA	<2.0	ppm	MK	12-DEC-00		6010
			NO2/NO3	<0.050	ppm	JN	03-DEC-00		353.2
			PB	<0.003	ppm	CH	03-JAN-01		6020
WG001210-3		Lab Control Sample	SE	<0.005	ppm	CH	03-JAN-01		6020
			SO4=	<2.0	ppm	JN	01-DEC-00		9036
			TDS	<10	ppm	BD	17-NOV-00		160.1
			TSS	<1.0	ppm	MC	16-NOV-00		160.2
			ZN	<0.020	ppm	CH	03-JAN-01		6020
			AS	103	%Recovery	CH	03-JAN-01		6020
			CA	86	%Recovery	MK	12-DEC-00		6010
			CD	100	%Recovery	CH	03-JAN-01		6020
			CL-	100	%Recovery	JN	06-DEC-00		325.2

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	RD	RD
WG001210-3		Lab Control Sample	COND.	103					
			CR	90	% Recovery	BD	20-NOV-00	120.1	
			CU	93	% Recovery	MK	12-DEC-00	6010	
			F-	100	% Recovery	EH	12-DEC-00	6010	
			FE	90	% Recovery	MK	21-NOV-00	340.2	
			HCO3	97	% Recovery	DC	12-DEC-00	6010	
			K	90	% Recovery	MK	21-NOV-00	310.1	
			MG	90	% Recovery	MK	12-DEC-00	6010	
			NA	90	% Recovery	MK	12-DEC-00	6010	
			NO2/NO3	111	% Recovery	MK	12-DEC-00	6010	
			PB	90	% Recovery	JN	03-DEC-00	353.2	
			SE	104	% Recovery	CH	03-JAN-01	6020	
			SO4=	98	% Recovery	CH	03-JAN-01	6020	
			TDS	112	% Recovery	JN	01-DEC-00	9036	
			TSS	97	% Recovery	BD	17-NOV-00	160.1	
			ZN	104	% Recovery	MC	16-NOV-00	160.2	
					% Recovery	CH	03-JAN-01	6020	
WG001210-4		Duplicate	CL-	1.6	% RPD	JN	06-DEC-00	325.2	
			CO3	<1	% RPD	DC	21-NOV-00	310.1	
			COND.	<1	% RPD	BD	20-NOV-00	120.1	
			F-	3.5	% RPD	EH	21-NOV-00	340.2	
			HCO3	<1	% RPD	DC	21-NOV-00	310.1	
			NO2/NO3	13.	% RPD	JN	03-DEC-00	353.2	
			SO4=	2.1	% RPD	JN	01-DEC-00	9036	
			TDS	2.0	% RPD	BD	17-NOV-00	160.1	
			TSS	1.1	% RPD	MC	16-NOV-00	160.2	
WG001210-5		Matrix Spike Duplicate	AS	5.9	% RPD	CH	03-JAN-01	6020	
			CD	2.8	% RPD	CH	03-JAN-01	6020	
			CR	8.5	% RPD	MK	12-DEC-00	6010	
			CU	10.	% RPD	MK	12-DEC-00	6010	
			FE	9.9	% RPD	MK	12-DEC-00	6010	
			PB	<1	% RPD	CH	03-JAN-01	6020	
			SE	8.5	% RPD	CH	03-JAN-01	6020	
			ZN	7.5	% RPD	CH	03-JAN-01	6020	
WG001210-6		Reporting Limit	AS	0.005	ppm			6020	
			CA	1.0	ppm			6010	
			CD	0.005	ppm			6020	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001210-6		Reporting Limit	CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6010
			CU	0.025	ppm				6010
			F-	0.050	ppm				340.2
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				9036
			SO4=	2.0	ppm				160.1
			TDS	10.	ppm				160.2
			TSS	1.0	ppm				6020
			ZN	0.020	ppm				
WG001210-7		Matrix Spike	AS	97	%Recovery	MK	12-DEC-00		6010
			CL-	94	%Recovery	JN	04-DEC-00		325.2
			ZN	89	%Recovery	MK	12-DEC-00		6010
WG001210-8		Prep Blank	AS	<0.050	ppm	MK	12-DEC-00		6010
			CL-	<1.0	ppm	JN	04-DEC-00		325.2
			ZN	<0.020	ppm	MK	12-DEC-00		6010
WG001210-9		Lab Control Sample	AS	88	%Recovery	MK	12-DEC-00		6010
			CL-	95	%Recovery	JN	04-DEC-00		325.2
			ZN	88	%Recovery	MK	12-DEC-00		6010
WG001210-10		Duplicate	CL-	3.6	% RPD	JN	04-DEC-00		325.2
WG001210-11		Matrix Spike Duplicate	AS	8.9	% RPD	MK	12-DEC-00		6010
			ZN	8.7	% RPD	MK	12-DEC-00		6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001210

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	ANALYSIS METHOD
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Vince Kell
Approved

Vince Kell
Reviewer

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS								REMARKS	
0931VZ		ASARCO - EL PASO, TX		3											
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	REMARKS		
11-10-00	815			EPR1-0011-175	X				X						
	820			EPR1-0011-183	X				X						
	845			EPR1-0011-176	X				X						
	910			EPR1-0011-177	X				X						
	945			EPR1-0011-188	X				X						
	1000			EPR1-0011-183	X				X						
	1015			EPR1-0011-185	X				X						
	1030			EPR1-0011-187	X				X						
	1115			EPR1-0011-236	X				X						
	1300			EPR1-0011-178	X				X						
	1330			EPR1-0011-179	X				X						
	1345			EPR1-0011-180	X				X						
	1410			EPR1-0011-181	X				X						
	1500			EPR1-0011-182	X				X						
11-13-00	1330			EPR1-0011-1240	X				X						

Relinquished (Signature)		Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
<i>E.V. [Signature]</i>	11/14/00	11:00		TSC - SLC, UT		Other: Air Bill #
Remarks						
Received by: (Signature)						
Received for Laboratory by: (Signature)						
Date/Time						
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						

ENVIRONMENTAL INC.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85710 • (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS								REMARKS
DATE	TIME	COMP	GRAB		SAMPLE NUMBER	Commons UF/RAW	Nutrients UF/H ₂ SO ₄	Diss. Metal F/HNO ₃	CN UF/NaOH	Total Metals UF/HNO ₃	Total Recoverable Metals UF/HNO ₃	BTX	
11-13-00	1015				3	X	X		X	X			
	1320				3	X	X		X	X			
	1340				3	X	X		X	X			
	1400				3	X	X		X	X			
	1430				3	X	X		X	X			
	1515				3	X	X		X	X			
	1530				3	X	X		X	X			
	1600				3	X	X		X	X			
11-14-00	820				3	X	X		X	X			
	830				3	X	X		X	X			
	850				3	X	X		X	X			
	910				3	X	X		X	X			
	945				3	X	X		X	X			
	1020				3	X	X		X	X			
	1045				3	X	X		X	X			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks				Other			
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		Signature	

HFORM-1-4/95

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

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste Project 3220)

Batch No: L001895

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	TEST METHOD
L001895-006	14-NOV-00	EPRI-0011-112	CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL	1038.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	5300.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010.
			F	2.3	ppm	EH	21-NOV-00	28	340.2
			FE	0.53	ppm	MK	18-DEC-00	180	6010
			HCO3	920.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	20.	ppm	MK	18-DEC-00	180	6010
			MG	44.	ppm	MK	18-DEC-00	180	6010
			NA	843.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.30	ppm	MK	18-DEC-00	180	6010
			PB	0.004	ppm	JN	06-DEC-00	28	353.2
			PH	7.7	pH	CH	09-JAN-01	180	6020
			SE	<0.005	ppm	DC	21-NOV-00		150.1
			SO4	536.	ppm	CH	10-JAN-01	180	6020
			TDS	3412.	ppm	JN	01-DEC-00	28	9036
			TSS	14.	ppm	BD	20-NOV-00	7	160.1
			ZN	0.024	ppm	MC	16-NOV-00		160.2
					ppm	CH	09-JAN-01	180	6020
L001895-007	14-NOV-00	EPRI-0011-113	AS	12.	ppm	MK	18-DEC-00	180	6010
			CA	96.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL	1100.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	6020.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F	1.8	ppm	EH	21-NOV-00	28	340.2
			FE	1.0	ppm	MK	18-DEC-00	180	6010
			HCO3	1429.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	172.	ppm	MK	18-DEC-00	180	6010
			MG	25.	ppm	MK	18-DEC-00	180	6010
			NA	899.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.27	ppm	JN	06-DEC-00	28	353.2
			PB	0.011	ppm	CH	09-JAN-01	180	6020
			PH	7.5	pH	DC	21-NOV-00		150.1
			SE	0.18	ppm	CH	10 JAN-01	180	6020

AMARU TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001895

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001895-007	14-NOV-00	EPRI-0011-113	SO4=	221.	ppm	JN	01-DEC-00	28	9036
			TDS	3456.	ppm	BD	20-NOV-00	7	160.1
			TSS	146.	ppm	MC	16-NOV-00		160.2
			ZN	0.025	ppm	CH	09-JAN-01	180	6020
			AS	51.	ppm	MK	18-DEC-00	180	6010
			CA	457.	ppm	MK	18-DEC-00	180	6010
			CD	0.38	ppm	CH	09-JAN-01	180	6020
			CL-	755.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	8900.	umhos/cm2	BD	20-NOV-00	28	120.1
L001895-008	14-NOV-00	EPRI-0011-123	CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	0.027	ppm	MK	18-DEC-00		6010
			F-	14.	ppm	EH	21-NOV-00	28	340.2
			FE	31.	ppm	MK	18-DEC-00	180	6010
			HCO3	740.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	111.	ppm	MK	18-DEC-00	180	6010
			MG	232.	ppm	MK	18-DEC-00	180	6010
			NA	989.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.21	ppm	JN	12-DEC-00	28	353.2
			PB	0.080	ppm	CH	09-JAN-01	180	6020
L001895-009	14-NOV-00	EPRI-0011-104	PH	6.8	pH	DC	21-NOV-00		150.1
			SE	0.11	ppm	CH	10-JAN-01	180	6020
			SO4=	3402.	ppm	JN	01-DEC-00	28	9036
			TDS	7258.	ppm	BD	20-NOV-00	7	160.1
			TSS	638.	ppm	MC	16-NOV-00		160.2
			ZN	32.	ppm	MK	18-DEC-00	180	6010
			AS	2.1	ppm	MK	18-DEC-00	180	6010
			CA	243.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	565.	ppm	JN	11-DEC-00	28	325.2
L001895-009	14-NOV-00	EPRI-0011-104	CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	5760.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	0.011	ppm	MK	18-DEC-00	180	6010
			CU	0.045	ppm	MK	18-DEC-00		6010
			F-	0.99	ppm	EH	21-NOV-00	28	340.2
			FE	3.6	ppm	MK	18-DEC-00	180	6010
			HCO3	880.	ppm CaCO3	DC	21-NOV-00	14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001895

LAP NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001895-009	14-NOV-00	EPRI-0011-104	K	12.	ppm	MK	18-DEC-00	180	6010
			MG	96.	ppm	MK	18-DEC-00	180	6010
			NA	875.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	5.4	ppm	JN	06-DEC-00	28	353.2
			PB	0.028	ppm	CH	09-JAN-01	180	6020
			PH	7.8	ppm	DC	21-NOV-00	150.1	
			SE	0.43	ppm	CH	09-JAN-01	180	6020
			SO4=	1786.	ppm	JN	01-DEC-00	28	9036
			TDS	4446.	ppm	BD	20-NOV-00	7	160.1
			TSS	302.	ppm	MC	16-NOV-00		160.2
			ZN	0.038	ppm	CH	09-JAN-01	180	6020
			AS	1.1	ppm	MK	18-DEC-00	180	6010
			CA	107.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	459.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	3600.	umhos/cm2	BD	20-NOV-00	28	120.1
L001895-010	14-NOV-00	EPRI-0011-117	CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	2.4	ppm	EH	21-NOV-00	28	340.2
			FE	0.40	ppm	MK	18-DEC-00	180	6010
			HCO3	916.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	31.	ppm	MK	18-DEC-00	180	6010
			MG	27.	ppm	MK	18-DEC-00	180	6010
			NA	612.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.51	ppm	JN	04-DEC-00	28	353.2
			PB	0.006	ppm	CH	09-JAN-01	180	6020
			PH	7.5	ppm	DC	21-NOV-00		150.1
			SE	0.050	ppm	CH	09-JAN-01	180	6020
			SO4=	407.	ppm	JN	01-DEC-00	28	9036
			TDS	2325.	ppm	BD	20-NOV-00	7	160.1
			TSS	51.	ppm	MC	16-NOV-00		160.2
			ZN	0.028	ppm	CH	09-JAN-01	180	6020
			AS	<0.005	ppm	CH	09-JAN-01	180	6020
			CA	180.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	806.	ppm	JN	11-DEC-00	28	325.2
L001895-011	14-NOV-00	EPRI-0011-195	AS	<0.005	ppm	CH	09-JAN-01	180	6020
			CA	180.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	806.	ppm	JN	11-DEC-00	28	325.2

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT


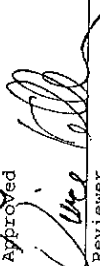
El Paso

Water and Solid Waste (Project 3220)

Batch No: L001895

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001895-011	14-NOV-00	EPRI-0011-195	CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	5600.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	0.80	ppm	EH	21-NOV-00	28	340.2
			FE	2.2	ppm	MK	18-DEC-00	180	6010
			HCO3	185.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	23.	ppm	MK	18-DEC-00	180	6010
			MG	104.	ppm	MK	18-DEC-00	180	6010
			NA	814.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.11	ppm	JN	12-DEC-00	28	353.2
			PB	0.009	ppm	CH	09-JAN-01	180	6020
			PH	7.9	pH	DC	21-NOV-00		150.1
			SE	0.007	ppm	CH	10-JAN-01	180	6020
			SO4=	1791.	ppm	JN	01-DEC-00	28	9036
			TDS	4153.	ppm	BD	20-NOV-00	7	160.1
			TSS	6.8	ppm	MC	16-NOV-00		160.2
			ZN	0.031	ppm	CH	09-JAN-01	180	6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

Approved 
Reviewer 

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010006

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	PAUSE METHOD	
WG010006-1		Matrix Spike	AS	93	%Recovery	MK	18-DEC-00		6010
			CD	91	%Recovery	CH	09-JAN-01		6020
			CL-	106	%Recovery	JN	11-DEC-00		325.2
			CR	93	%Recovery	MK	18-DEC-00		6010
			CU	99	%Recovery	MK	18 DEC 00		6010
			F-	103	%Recovery	EH	21-NOV-00		340.2
			FE	SR>4XSA	%Recovery	MK	18 DEC 00		6010
			NO2/NO3	107	%Recovery	JN	06 DEC 00		353.2
			PB	95	%Recovery	CH	09-JAN-01		6020
			SE	83	%Recovery	CH	10-JAN-01		6020
			SO4=	102	%Recovery	JN	01-DEC-00		9036
			ZN	93	%Recovery	CH	09-JAN-01		6020
			AS	<0.050	ppm	MK	18-DEC-00		6010
			CA	<1.0	ppm	MK	18-DEC-00		6010
			CD	<0.005	ppm	CH	09-JAN-01		6020
			CL-	<1.0	ppm	JN	11 DEC-00		325.2
			CO3	<1.0	ppm	CaCO3	DC	21-NOV-00	310.1
WG010006-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	20-NOV-00		120.1
			CR	<0.010	ppm	MK	18-DEC-00		6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	<0.050	ppm	EH	21-NOV-00		340.2
			FE	<0.10	ppm	MK	18-DEC-00		6010
			HCO3	<1.0	ppm	CaCO3	DC	21-NOV-00	310.1
			K	<2.0	ppm	MK	18-DEC-00		6010
			MG	<1.0	ppm	MK	18-DEC-00		6010
			NA	<2.0	ppm	MK	18-DEC-00		6010
			NO2/NO3	<0.050	ppm	JN	04-DEC-00		353.2
			PB	<0.003	ppm	CH	09-JAN-01		6020
			SE	<0.005	ppm	CH	10-JAN-01		6020
			SO4=	<2.0	ppm	JN	01-DEC-00		9036
			TDS	<10.	ppm	BD	20-NOV-00		160.1
			TSS	<1.0	ppm	MC	16-NOV-00		160.2
			ZN	<0.020	ppm	CH	09-JAN-01		6020
WG010006-3		Lab Control Sample	AS	90	%Recovery	MK	18-DEC-00		6010
			CA	88	%Recovery	MK	18-DEC-00		6010
			CD	102	%Recovery	CH	09-JAN-01		6020
			CL-	101	%Recovery	JN	11 DEC-00		325.2

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010006

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG010006-3		Lab Control Sample	COND.	103					
			CR	90	% Recovery	BD	20-NOV-00	120.1	
			CU	90	% Recovery	MK	18-DEC-00	6010	
			P-	100	% Recovery	MK	18-DEC-00	6010	
			FE	90	% Recovery	EH	21-NOV-00	340.2	
			HCO3	99	% Recovery	MK	18-DEC-00	6010	
			K	90	% Recovery	DC	21-NOV-00	310.1	
			MG	93	% Recovery	MK	18-DEC-00	6010	
			NA	95	% Recovery	MK	18-DEC-00	6010	
			NO2/NO3	93	% Recovery	JN	04-DEC-00	353.2	
			PB	104	% Recovery	CH	09-JAN-01	6020	
			SE	109	% Recovery	CH	09-JAN-01	6020	
			SO4=	100	% Recovery	JN	01-DEC-00	9036	
			TDS	91	% Recovery	BD	20-NOV-00	160.1	
			TSS	100	% Recovery	MC	16-NOV-00	160.2	
			ZN	108	% Recovery	CH	09-JAN-01	6020	
WG010006-4		Duplicate	CL-	<1	% RPD	JN	11-DEC-00	325.2	
			CO3	<1	% RPD	DC	21-NOV-00	310.1	
			COND.	<1	% RPD	BD	20-NOV-00	120.1	
			P-	<1	% RPD	EH	21-NOV-00	340.2	
			HCO3	<1	% RPD	DC	21-NOV-00	310.1	
			NO2/NO3	5.4	% RPD	JN	04-DEC-00	353.2	
			SO4=	1.2	% RPD	JN	01-DEC-00	9036	
			TDS	1.4	% RPD	BD	20-NOV-00	160.1	
			TSS	13.	% RPD	MC	16-NOV-00	160.2	
			AS	8.4	% RPD	MK	18-DEC-00	6010	
			CD	<1	% RPD	CH	09-JAN-01	6020	
			CR	8.5	% RPD	MK	18-DEC-00	6010	
			CU	8.6	% RPD	MK	18-DEC-00	6010	
			FE	11	% RPD	MK	18-DEC-00	6010	
			PB	<1	% RPD	CH	09-JAN-01	6020	
WG010006-5		Matrix Spike Duplicate	SE	<1	% RPD	CH	10-JAN-01	6020	
			ZN	9.2	% RPD	CH	09-JAN-01	6020	
			AS	0.005	ppm			6020	
			CA	1.0	ppm			6010	
WG010006-6		Reporting Limit	CD	0.005	ppm			6020	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

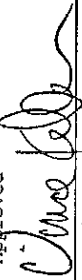
El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010006

LAB NO.	DATE COLLECTED	DESCRIPTION	REPORTING LIMIT	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
WG010006-6			Reporting Limit	CL-	1.0	ppm			325.2
				CO3	1.0	ppm. CaCO3			310.1
				COND.	5.0	umhos/cm2			120.1
				CR	0.010	ppm			6010
				CU	0.025	ppm			6010
				F-	0.050	ppm.			340.2
				FE	0.10	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	0.050	ppm			353.2
				PB	0.003	ppm			6020
				SE	0.005	ppm			6020
				SO4=	2.0	ppm.			9036
				TDS	10.	ppm			160.1
				TSS	1.0	ppm			160.2
				ZN	0.020	ppm			6020
WG010006-7		Matrix Spike		AS	SR>4XSA	%Recovery	CH	09-JAN-01	6020
				ZN	91	%Recovery	MK	18-DEC-01	6010
WG010006-8		Prep Blank		AS	<0.005	ppm	CH	09-JAN-01	6020
				ZN	<0.020	ppm	MK	18-DEC-01	6010
WG010006-9		Lab Control Sample		AS	107	%Recovery	CH	09-JAN-01	6020
				ZN	90	%Recovery	MK	18-DEC-01	6010
WG010006-11		Matrix Spike Duplicate		AS	<1	% RPD	CH	09-JAN-01	6020
				ZN	5.6	% RPD	MK	18-DEC-00	6010

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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		BTX		TPH		REMARKS	
DATE	TIME	GRAB	COMP.	SAMPLE NUMBER	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	BTX	TPH						
11-13-00	1015			APR-0011-129	3				X				X									
	1320			APR-0011-237	3				X				X									
	1340			APR-0011-133	3				X				X									
	1400			APR-0011-125	3				X				X									
	1430			APR-0011-121	3				X				X									
	1515			APR-0011-111	3				X				X									
	1530			APR-0011-124	3				X				X									
	1600			APR-0011-238	3				X				X									
11-14-00	820			APR-0011-109	3				X				X									
	830			APR-0011-239	3				X				X									
	850			APR-0011-112	3				X				X									
	910			APR-0011-113	3				X				X									
	945			APR-0011-123	3				X				X									
	1020			APR-0011-104	3				X				X									
	1045			APR-0011-117	3				X				X									
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 checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other _____		Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined		Signature _____										

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001906

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JAN 16 2001

HYDROMETRICS, INC

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001906-001	14-NOV-00	EPRI-0011-240	AS	<0.005	ppm	CH	09-JAN-01	180	6020
			CA	<1.0	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	<1.0	ppm	JN	08-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	<0.050	ppm	EH	22-NOV-00	28	340.2
			FE	<0.10	ppm	MK	18-DEC-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	<2.0	ppm	MK	18-DEC-00	180	6010
			MG	<1.0	ppm	MK	18-DEC-00	180	6010
			NA	<2.0	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	<0.10	ppm	JN	12-DEC-00	28	353.2
			PB	<0.003	ppm	CH	09-JAN-01	180	6020
			PH	5.4	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	09-JAN-01	180	6020
			SO4=	<2.0	ppm	JN	12-DEC-00	28	9036
			TDS	<1.0	ppm	MC	20-NOV-00	7	160.1
			TSS	<1.0	ppm	MC	12-NOV-00		160.2
			ZN	0.033	ppm	MK	18-DEC-00	180	6010
L001906-002	14-NOV-00	EPRI-0011-242	AS	0.035	ppm	CH	09-JAN-01	180	6020
			CA	14	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	4.8	ppm	JN	08-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	151	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	0.32	ppm	MK	18-DEC-00		6010
			F-	0.16	ppm	EH	22-NOV-00	28	340.2
			FE	2.3	ppm	MK	18-DEC-00	180	6010
			HCO3	76	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	3.0	ppm	MK	18-DEC-00	180	6010
			MG	2.7	ppm	MK	18-DEC-00	180	6010
			NA	8.2	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.39	ppm	JN	12-DEC-00	28	353.2
			PB	0.076	ppm	CH	09-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste .Project 3220)

Batch No: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID DAYS METHOD
L001906-009	15-NOV-00	EPRI 0011-184	K	11.	ppm	MK	18-DEC-00	180 6010
			MG	26.	ppm	MK	18-DEC-00	180 6010
			NA	261.	ppm	MK	18-DEC-00	180 6010
			NO2/NO3	1.3	ppm	JN	12-DEC-00	28 353.2
			PB	0.004	ppm	CH	09-JAN-01	180 6020
			PH	7.9	pH	DC	21-NOV-00	150.1
			SE	0.006	ppm	CH	09-JAN-01	180 6020
			SO4=	443.	ppm	JN	06-DEC-00	28 9036
			TDS	1363.	ppm	MC	20-NOV-00	7 160.1
			TSS	50.	ppm	MC	12-NOV-00	160.2
			ZN	0.043	ppm	MK	18-DEC-00	180 6010
			AS	0.013	ppm	CH	09-JAN-01	180 6020
			CA	104.	ppm	MK	18-DEC-00	180 6010
			CD	<0.005	ppm	CH	09-JAN-01	180 6020
			CL-	251.	ppm	JN	11-DEC-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1
			COND.	2060.	umhos/cm2	BD	20-NOV-00	28 120.1
			CR	<0.010	ppm	MK	18-DEC-00	180 6010
			CU	<0.025	ppm	MK	18-DEC-00	180 6010
			F-	0.80	ppm	EH	22-NOV-00	28 340.2
L001906-010	15-NOV-00	EPRI-0011-191	FE	0.67	ppm	MK	18-DEC-00	180 6010
			HCO3	255.	ppm CaCO3	DC	21-NOV-00	14 310.1
			K	11.	ppm	MK	18-DEC-00	180 6010
			MG	26.	ppm	MK	18-DEC-00	180 6010
			NA	267.	ppm	MK	18-DEC-00	180 6010
			NO2/NO3	1.5	ppm	JN	12-DEC-00	28 353.2
			PB	<0.003	ppm	CH	09-JAN-01	180 6020
			PH	8.0	pH	DC	21-NOV-00	150.1
			SE	0.007	ppm	CH	09-JAN-01	180 6020
			SO4=	450.	ppm	JN	06-DEC-00	28 9036
			TDS	1359.	ppm	MC	20-NOV-00	7 160.1
			TSS	30.	ppm	MC	12-NOV-00	160.2
			ZN	0.035	ppm	MK	18-DEC-00	180 6010
			AS	0.013	ppm	CH	09-JAN-01	180 6020
			CA	105.	ppm	MK	18-DEC-00	180 6010
			CD	<0.005	ppm	CH	09-JAN-01	180 6020
			CL-	243.	ppm	JN	11-DEC-00	28 325.2
L001906-011	15-NOV-00	EPRI-0011-243	AS	0.013	ppm	CH	09-JAN-01	180 6020
			CA	105.	ppm	MK	18-DEC-00	180 6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOOD ANALYZED	DAYS METHOD
L001906-011	15-NOV-00	EPRI-0011-243	CO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1
			COND.	2060.	umhos/cm2	BD	20-NOV-00	28 120.1
			CR	<0.010	ppm	MK	18-DEC-00	180 6010
			CU	<0.025	ppm	MK	18-DEC-00	6010
			F-	0.82	ppm	EH	22-NOV-00	28 340.2
			FE	0.66	ppm	MK	18-DEC-00	180 6010
			HCO3	256.	ppm CaCO3	DC	21-NOV-00	14 310.1
			K	11.	ppm	MK	18-DEC-00	180 6010
			MG	25.	ppm	MK	18-DEC-00	180 6010
			NA	261.	ppm	MK	18-DEC-00	180 6010
			NO2/NO3	1.6	ppm	MK	18-DEC-00	180 6010
			PB	<0.003	ppm	JN	12-DEC-00	28 353.2
			PH	8.0	pH	CH	09-JAN-01	180 6020
			SE	0.007	ppm	CH	09-JAN-01	180 6020
			SO4=	395.	ppm	JN	06-DEC-00	28 9036
			TDS	1371.	ppm	MC	20-NOV-00	7 160.1
			TSS	32.	ppm	MC	12-NOV-00	160.2
			ZN	0.040	ppm	MK	18-DEC-00	180 6010
L001906-012	15-NOV-00	EPRI-0011-190	AS	0.019	ppm	CH	09-JAN-01	180 6020
			CA	103.	ppm	MK	18-DEC-00	180 6010
			CD	<0.005	ppm	CH	09-JAN-01	180 6020
			CL-	237.	ppm	JN	11-DEC-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1
			COND.	2000..	umhos/cm2	BD	20-NOV-00	28 120.1
			CR	<0.010	ppm	MK	18-DEC-00	180 6010
			CU	<0.025	ppm	MK	18-DEC-00	6010
			F-	0.86	ppm	EH	22-NOV-00	28 340.2
			FE	0.74	ppm	MK	18-DEC-00	180 6010
			HCO3	254.	ppm CaCO3	DC	21-NOV-00	14 310.1
			K	11.	ppm	MK	18-DEC-00	180 6010
			MG	25..	ppm	MK	18-DEC-00	180 6010
			NA	257.	ppm	MK	18-DEC-00	180 6010
			NO2/NO3	1.3	ppm	JN	12-DEC-00	28 353.2
			PB	<0.003	ppm	CH	09-JAN-01	180 6020
			PH	8.0	pH	DC	21-NOV-00	150.1
			SE	0.008	ppm	CH	09-JAN-01	180 6020
			SO4=	423.	ppm	JN	06-DEC-00	28 9036
			TDS	1326.	ppm	MC	20-NOV-00	7 160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001906-012	15-NOV-00	EPRI-0011-190	TSS	32.	ppm	MC	12-NOV-00		160.2
			ZN	0.039	ppm	MK	18-DEC-00	180	6010
L001906-013	15-NOV-00	EPRI-0011-189	AS	0.010	ppm	CH	09-JAN-01	180	6020
			CA	87.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	245.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	1960.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	0.80	ppm	EH	22-NOV-00	28	340.2
			FE	0.53	ppm	MK	18-DEC-00		6010
			HCO3	212.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	9.8	ppm	MK	18-DEC-00	180	6010
			MG	19.	ppm	MK	18-DEC-00	180	6010
			NA	268.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	3.4	ppm	JN	12-DEC-00	28	353.2
			PB	<0.003	ppm	CH	09-JAN-01	180	6020
			PH	7.9	PH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	09-JAN-01	180	6020
			SO4=	348.	ppm	JN	06-DEC-00	28	9036
			TDS	1275.	ppm	MC	20-NOV-00	7	160.1
L001906-014	15-NOV-00	EPRI-0011-245	TSS	29.	ppm	MC	12-NOV-00		160.2
			ZN	0.050	ppm	MK	18-DEC-00	180	6010
			AS	<0.005	ppm	CH	09-JAN-01	180	6020
			CA	<1.0	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	<1.0	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	<0.050	ppm	EH	22-NOV-00	28	340.2
			FE	<0.10	ppm	MK	18-DEC-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	<2.0	ppm	MK	18-DEC-00	180	6010
			MG	<1.0	ppm	MK	18-DEC-00	180	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID	DRYS METHOD
L001906-014	15-NOV-00	EPRI 0011-245	NA	<2.0	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	<0.10	ppm	JN	12-DEC-00	28	353.2
			PB	<0.003	ppm	CH	09-JAN-01	180	6020
			PH	5.1	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	09-JAN-01	180	6020
			SO4=	<2.0	ppm	JN	12-DEC-00	28	9036
			TDS	10.	ppm	MC	20-NOV-00	7	160.1
			TSS	<1.0	ppm	MC	12-NOV-00		160.2
			ZN	<0.020	ppm	MK	18-DEC-00	180	6010

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals ... 3010 and 6020.

Approved

Robynne Cappel

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010007

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
WG010007-1		Matrix Spike	AS	105	%Recovery	CH	09-JAN-01	6020
			CD	100	%Recovery	CH	09-JAN-01	6020
			CL-	107	%Recovery	JN	11-DEC-00	325.2
			CR	83	%Recovery	MK	18-DEC-00	6010
			CU	85	%Recovery	MK	18-DEC-00	6010
			F-	100	%Recovery	EH	22-NOV-00	340.2
			FE	83	%Recovery	MK	18-DEC-00	6010
			NO2/NO3	98	%Recovery	JN	12-DEC-00	353.2
			PB	102	%Recovery	CH	09-JAN-01	6020
			SE	102	%Recovery	CH	09-JAN-01	6020
			SO4=	102	%Recovery	JN	01-DEC-00	9036
			ZN	84	%Recovery	MK	18-DEC-00	6010
			AS	<0.005	ppm	CH	09-JAN-01	6020
			CA	<1.0	ppm	MK	18-DEC-00	6010
			CD	<0.005	ppm	CH	09-JAN-01	6020
			CL-	<1.0	ppm	JN	08-DEC-00	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1
WG010007-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	20-NOV-00	120.1
			CR	<0.010	ppm	MK	18-DEC-00	6010
			CU	<0.025	ppm	MK	18-DEC-00	6010
			F-	<0.050	ppm	EH	22-NOV-00	340.2
			FE	<0.10	ppm	MK	18-DEC-00	6010
			HCO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1
			K	<2.0	ppm	MK	18-DEC-00	6010
			MG	<1.0	ppm	MK	18-DEC-00	6010
			NA	<2.0	ppm	MK	18-DEC-00	6010
			NO2/NO3	<0.10	ppm	JN	12-DEC-00	353.2
			PB	<0.003	ppm	CH	09-JAN-01	6020
			SE	<0.005	ppm	CH	09-JAN-01	6020
			SO4=	<2.0	ppm	JN	01-DEC-00	9036
			TDS	<10.	ppm	MC	20-NOV-00	160.1
			TSS	<1.0	ppm	MC	12-NOV-00	160.2
			ZN	<0.020	ppm	MK	18-DEC-00	6010
WG010007-3		Lab Control Sample	AS	106	%Recovery	CH	09-JAN-01	6020
			CA	88	%Recovery	MK	18-DEC-00	6010
			CD	102	%Recovery	CH	09-JAN-01	6020
			CL-	105	%Recovery	JN	08-DEC-00	325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010007

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	METHOD
WG010007-3		Lab Control Sample	COND.	103	% Recovery	BD	20-NOV-00	120.1
			CR	90	% Recovery	MK	18-DEC-00	6010
			CU	90	% Recovery	MK	18-DEC-00	6010
			F-	97	% Recovery	EH	22-NOV-00	340.2
			FE	90	% Recovery	MK	18-DEC-00	6010
			HCO3	97	% Recovery	DC	21-NOV-00	310.1
			K	90	% Recovery	MK	18-DEC-00	6010
			MG	92	% Recovery	MK	18-DEC-00	6010
			NA	95	% Recovery	MK	18-DEC-00	6010
			NO2/NO3	99	% Recovery	JN	12-DEC-00	353.2
			PB	100	% Recovery	CH	09-JAN-01	6020
			SE	107	% Recovery	CH	09-JAN-01	6020
			SO4=	100	% Recovery	JN	01-DEC-00	9036
			TDS	91	% Recovery	MC	20-NOV-00	160.1
			TSS	93	% Recovery	MC	12-NOV-00	160.2
			ZN	90	% Recovery	MK	18-DEC-00	6010
			CL-	6.8	% RPD	JN	08-DEC-00	325.2
			CO3	<1	% RPD	DC	21-NOV-00	310.1
			COND.	<1	% RPD	BD	20-NOV-00	120.1
			F-	<1	% RPD	EH	22-NOV-00	340.2
WG010007-4		Duplicate	HCO3	1.4	% RPD	DC	21-NOV-00	310.1
			NO2/NO3	10.	% RPD	JN	12-DEC-00	353.2
			SO4=	1.2	% RPD	JN	01-DEC-00	9036
			TDS	<1	% RPD	MC	20-NOV-00	160.1
			TSS	9.8	% RPD	MC	12-NOV-00	160.2
			AS	1.7	% RPD	CH	09-JAN-01	6020
			CD	<1	% RPD	CH	09-JAN-01	6020
			CR	<1	% RPD	MK	18-DEC-00	6010
			CU	2.7	% RPD	MK	18-DEC-00	6010
			FE	1.8	% RPD	MK	18-DEC-00	6010
WG010007-5		Matrix Spike Duplicate	PB	<1	% RPD	CH	09-JAN-01	6020
			SE	<1	% RPD	CH	09-JAN-01	6020
			ZN	2.9	% RPD	MK	18-DEC-00	6010
			AS	0.005	ppm			6020
			CA	1.0	ppm			6010
WG010007-6		Reporting Limit	CD	0.005	ppm			6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG010007

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
WG010007-6		Reporting Limit						
			CL-	1.0	ppm			325.2
			CO3	1.0	ppm CaCO3			310.1
			COND.	5.0	umhos/cm2			120.1
			CR	0.010	ppm			6010
			CU	0.025	ppm			6010
			F-	0.050	ppm			340.2
			FE	0.10	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	0.10	ppm			353.2
			PB	0.003	ppm			6020
			SE	0.005	ppm			6020
			SO4=	2.0	ppm			9036
			TDS	10.	ppm			160.1
			TSS	1.0	ppm			160.2
			ZN	0.020	ppm			6010

Approved

Reviewer

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	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
DATE	TIME	COMP.	GRAB										
0931VZ		ASARCO - EL PASO, TX		3	X	X	X	X	X	X			
SAMPLERS: (Signature) <i>Douglas M. Sefor</i>				3	X	X	X	X	X	X			
	1215			3	X	X	X	X	X	X			
	1420			3	X	X	X	X	X	X			
	1400			3	X	X	X	X	X	X			
	1420			3	X	X	X	X	X	X			
	11500 845			3	X	X	X	X	X	X			
	900			3	X	X	X	X	X	X			
	920			3	X	X	X	X	X	X			
	940			3	X	X	X	X	X	X			
	950			3	X	X	X	X	X	X			
	955			3	X	X	X	X	X	X			
	1000			3	X	X	X	X	X	X			
	1030			3	X	X	X	X	X	X			
	1100			3	X	X	X	X	X	X			
Relinquished (Signature) <i>Douglas M. Sefor</i>				Received by: (Signature)	Lab	P.O. #		Shipped via: Bus, Fed Ex, UPS					
Relinquished (Signature)				Received by: (Signature)	TSC - SLS, UT		Other						
Relinquished (Signature)				Received for Laboratory by: (Signature)	Remarks		Air Bill #						
Relinquished (Signature)				Date/Time	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-15

Return results & electronic copy to:

Computer Dept at address at top of page

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001906-007	15-NOV-00	EPRI-0011-193	SO4=	454.	ppm	JN	06-DEC-00	28	9036
			TDS	1420.	ppm	MC	20-NOV-00	7	160.1
			TSS	52.	ppm	MC	12-NOV-00		160.2
			ZN	0.043	ppm	MK	18-DEC-00	180	6010
L001906-008	15-NOV-00	EPRI-0011-192	AS	0.014	ppm	CH	09-JAN-01	180	6020
			CA	103.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	245.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	2060.	umhos/cm2	BD	20-NOV-00	28	130.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	0.79	ppm	EH	22-NOV-00	28	340.2
			FE	0.84	ppm	MK	18-DEC-00	180	6010
			HCO3	257.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	10.	ppm	MK	18-DEC-00	180	6010
			MG	25.	ppm	MK	18-DEC-00	180	6010
			NA	257.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	1.6	ppm	JN	12-DEC-00	28	353.2
			PB	0.004	ppm	CH	09-JAN-01	180	6020
			PH	8.3	PH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	09-JAN-01	180	6020
			SO4=	456.	ppm	JN	06-DEC-00	28	9036
			TDS	1367.	ppm	MC	20-NOV-00	7	160.1
			TSS	29.	ppm	MC	12-NOV-00		160.2
			ZN	0.034	ppm	MK	18-DEC-00	180	6010
L001906-009	15-NOV-00	EPRI-0011-184	AS	0.014	ppm	CH	09-JAN-01	180	6020
			CA	107.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	210.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	2070.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	0.82	ppm	EH	22-NOV-00	28	340.2
			FE	1.4	ppm	MK	18-DEC-00	180	6010
			HCO3	280.	ppm CaCO3	DC	21-NOV-00	14	310.1

ASARC/ TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001895

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L001895-001	13 NOV 00	EPRI-0011-111	AS	7.0	ppm	MK	18 DEC 00	180	6010
			CA	84.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	398.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21 NOV 00	310.1	
			COND.	4730.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	0.15	ppm	MK	18 DEC-00		6010
			F-	3.0	ppm	EH	21-NOV-00	28	340.2
			FE	1.1	ppm	MK	18-DEC-00	180	6010
			HCO3	510.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	45.	ppm	MK	18-DEC-00	180	6010
			MG	49.	ppm	MK	18-DEC-00	180	6010
			NA	637.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.10	ppm	JN	06-DEC-00	28	353.2
			PB	0.043	ppm	CH	09-JAN-01	180	6020
			PH	7.9	PH	DC	21-NOV-00		150.1
			SE	0.011	ppm	CH	10-JAN-01	180	6020
			SO4=	1286.	ppm	JN	01-DEC-00	28	9036
			TDS	2740.	ppm	BD	20-NOV-00	7	160.1
			TSS	14.	ppm	MC	16-NOV-00		160.2
			ZN	0.074	ppm	CH	09-JAN-01	180	6020
L001895-002	13-NOV-00	EPRI-0011-124	AS	2.5	ppm	MK	18-DEC-00	180	6010
			CA	182.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	404.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	4140.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	0.021	ppm	MK	18-DEC-00	180	6010
			CU	0.033	ppm	MK	18-DEC-00		6010
			F-	2.8	ppm	EH	21-NOV-00	28	340.2
			FE	25.	ppm	MK	18-DEC-00	180	6010
			HCO3	452.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	22.	ppm	MK	18-DEC-00	180	6010
			MG	39.	ppm	MK	18-DEC-00	180	6010
			NA	707.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.73	ppm	MK	18-DEC-00	180	6010
			PB	0.020	ppm	JN	06-DEC-00	28	353.2
					ppm	CH	09-JAN-01	180	6020

ASAP-TO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 1220)

Batch No: L001895

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	ANALYSIS METHOD
L001895-002	13-NOV-00	EPRI-0011-124	PH	7.9	pH	DC	21-NOV-00	150.1	
			SE	0.016	ppm	CH	10-JAN-01	180	6020
			SO4=	1280.	ppm	JN	01-DEC-00	28	9036
			TDS	2937.	ppm	BD	20-NOV-00	7	160.1
			TSS	1292.	ppm	MC	16-NOV-00		160.2
			ZN	0.053	ppm	CH	09-JAN-01	180	6020
L001895-003	13-NOV-00	EPRI-0011-238	AS	<0.005	ppm	CH	09-JAN-01	180	6020
			CA	<1.0	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	<1.0	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	<0.050	ppm	EH	21-NOV-00	28	340.2
			FE	<0.10	ppm	MK	18-DEC-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	<2.0	ppm	MK	18-DEC-00	180	6010
			MG	<1.0	ppm	MK	18-DEC-00	180	6010
			NA	<2.0	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.054	ppm	JN	04-DEC-00	28	353.2
			PB	<0.003	ppm	CH	09-JAN-01	180	6020
			PH	5.4	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	09-JAN-01	180	6020
			SO4=	<2.0	ppm	JN	01-DEC-00	28	9036
			TDS	<10.	ppm	BD	20-NOV-00	7	160.1
			TSS	<1.0	ppm	MC	16-NOV-00		160.2
			ZN	0.025	ppm	CH	09-JAN-01	180	6020
L001895-004	14-NOV-00	EPRI-0011-109	AS	0.036	ppm	CH	09-JAN-01	180	6020
			CA	36.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	727.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	5200.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	0.026	ppm	MK	18-DEC-00		6010
			F-	5.5	ppm	EH	21-NOV-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001895

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FORM DAYS METHOD
L001895-004	14-NOV-00	EPRI-0011-109	FE	0.83	ppm	MK	18-DEC-00	180 6010
			HCO3	1390.	ppm CaCO3	DC	21-NOV-00	14 110.1
			K	195.	ppm	MK	18-DEC-00	180 6010
			MG	31.	ppm	MK	18-DEC-00	180 6010
			NA	714.	ppm	MK	18-DEC-00	180 6010
			NO2/NO3	0.15	ppm	JN	06-DEC-00	28 353.2
			PB	0.005	ppm	CH	09-JAN-01	180 6020
			PH	7.8	PH	DC	21-NOV-00	150.1
			SE	0.013	ppm	CH	10-JAN-01	180 6020
			SO4=	186.	ppm	JN	01-DEC-00	28 9036
			TDS	2916.	ppm	BD	20-NOV-00	7 160.1
			TSS	78.	ppm	MC	16-NOV-00	160.2
			ZN	0.19	ppm	CH	09-JAN-01	180 6020
			AS	0.038	ppm	CH	09-JAN-01	180 6020
			CA	40.	ppm	MK	18-DEC-00	180 6010
			CD	<0.005	ppm	CH	09-JAN-01	180 6020
			CL-	745.	ppm	JN	11-DEC-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1
			COND.	5200.	umhos/cm2	BD	20-NOV-00	28 120.1
			CR	<0.010	ppm	MK	18-DEC-00	180 6010
L001895-005	14-NOV-00	EPRI-0011-239	CU	<0.025	ppm	MK	18-DEC-00	6010
			F-	5.5	ppm	EH	21-NOV-00	28 340.2
			FE	1.0	ppm	MK	18-DEC-00	180 6010
			HCO3	1430.	ppm CaCO3	DC	21-NOV-00	14 310.1
			K	183.	ppm	MK	18-DEC-00	180 6010
			MG	32.	ppm	MK	18-DEC-00	180 6010
			NA	711.	ppm	MK	18-DEC-00	180 6010
			NO2/NO3	0.17	ppm	JN	06-DEC-00	28 353.2
			PB	0.004	ppm	CH	09-JAN-01	180 6020
			PH	7.8	PH	DC	21-NOV-00	150.1
			SE	0.012	ppm	CH	10-JAN-01	180 6020
			SO4=	198.	ppm	JN	01-DEC-00	28 9036
			TDS	2938.	ppm	BD	20-NOV-00	7 160.1
			TSS	64.	ppm	MC	16-NOV-00	160.2
			ZN	0.24	ppm	CH	09-JAN-01	180 6020
			AS	0.010	ppm	CH	09-JAN-01	180 6020
			CA	138.	ppm	MK	18-DEC-00	180 6010
L001895-006	14-NOV-00	EPRI-0011-112	AS	0.010	ppm	CH	09-JAN-01	180 6020
			CA	138.	ppm	MK	18-DEC-00	180 6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DRAIN METHOD
L001906-002	14-NOV-00	EPRI-0011 242	PH	7.8	pH	DC	21-NOV 00	150.1
			SE	<0.005	ppm	CH	09-JAN-01 180	6020
			SO4=	20.	ppm	JN	06-DEC-00 28	9036
			TDS	106.	ppm	MC	20-NOV 00 7	160.1
			TSS	43.	ppm	MC	12-NOV 00	160.2
			ZN	0.19	ppm	MK	18-DEC-00 180	6010
			AS	0.70	ppm	CH	09-JAN-01 180	6020
			CA	314.	ppm	MK	18-DEC-00 180	6010
			CD	17.	ppm	CH	09-JAN-01 180	6020
			CL-	2158.	ppm	JN	08-DEC-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00	310.1
			COND.	38000.	umhos/cm2	BD	20-NOV-00 28	120.1
			CR	<0.010	ppm	MK	18-DEC-00 180	6010
			CU	1.0	ppm	MK	18-DEC-00	6010
L001906 003	14-NOV-00	EPRI-0011 201	F-	20.	ppm	EH	22-NOV-00 28	340.2
			FE	0.66	ppm	MK	18-DEC-00 180	6010
			HCO3	70.	ppm CaCO3	DC	21-NOV-00 14	310.1
			K	194.	ppm	MK	18-DEC-00 180	6010
			MG	132.	ppm	MK	18-DEC-00 180	6010
			NA	12056.	ppm	MK	19-DEC-00 180	6010
			NO2/NO3	117.	ppm	JN	12-DEC-00 28	353.2
			PB	0.25	ppm	CH	09-JAN-01 180	6020
			PH	7.7	pH	DC	21-NOV-00	150.1
			SE	1.5	ppm	CH	09-JAN-01 180	6020
			SO4=	22838.	ppm	JN	01-DEC-00 28	9036
			TDS	38326.	ppm	MC	20-NOV-00 7	160.1
			TSS	21.	ppm	MC	12-NOV-00	160.2
			ZN	9.8	ppm	MK	18-DEC-00 180	6010
L001906-004	14-NOV-00	EPRI-0011-203	AS	1.3	ppm	CH	09-JAN-01 180	6020
			CA	273.	ppm	MK	18-DEC-00 180	6010
			CD	0.70	ppm	CH	09-JAN-01 180	6020
			CL-	369.	ppm	JN	11-DEC-00 28	325.2
			CO3	16.	ppm CaCO3	DC	21-NOV-00	310.1
			COND.	3450.	umhos/cm2	BD	20-NOV-00 28	120.1
			CR	<0.010	ppm	MK	18-DEC-00 180	6010
			CU	0.78	ppm	MK	18-DEC-00	6010
			F-	4.7	ppm	EH	22-NOV-00 28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	DAYS	
L001906-004	14-NOV-00	EPRI-0011-203	FE	0.32	ppm	MK	18-DEC-00	180	6010
			HCO3	72.	ppm	DC	21-NOV-00	14	310.1
			K	19.	ppm	MK	18-DEC-00	180	6010
			MG	58.	ppm	MK	18-DEC-00	180	6010
			NA	353.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.26	ppm	JN	12-DEC-00	28	353.2
			PE	0.28	ppm	CH	09-JAN-01	180	6020
			PH	8.9	pH	DC	21-NOV-00		150.1
			SE	0.10	ppm	CH	09-JAN-01	180	6020
			SO4=	1321.	ppm	JN	06-DEC-00	28	9036
			TDS	2715.	ppm	MC	20-NOV-00	7	160.1
			TSS	21.	ppm	MC	12-NOV-00		160.2
			ZN	1.4	ppm	MK	18-DEC-00	180	6010
			AS	0.038	ppm	CH	09-JAN-01	180	6020
			CA	15.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	3.7	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm	DC	21-NOV-00		310.1
			COND.	152.	umhos/cm2	BD	20-NOV-00	28	120.1
L001906-005	14-NOV-00	EPRI-0011-134	CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	0.39	ppm	MK	18-DEC-00		6010
			F-	0.16	ppm	EH	22-NOV-00	28	340.2
			FE	2.8	ppm	MK	18-DEC-00	180	6010
			HCO3	48.	ppm	DC	21-NOV-00	14	310.1
			K	2.5	ppm	MK	18-DEC-00	180	6010
			MG	2.9	ppm	MK	18-DEC-00	180	6010
			NA	8.9	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	0.55	ppm	JN	12-DEC-00	28	353.2
			PE	0.087	ppm	CH	09-JAN-01	180	6020
			PH	7.6	pH	DC	21-NOV-00		150.1
			SE	<0.005	ppm	CH	09-JAN-01	180	6020
			SO4=	20.	ppm	JN	06-DEC-00	28	9036
			TDS	116.	ppm	MC	20-NOV-00	7	160.1
			TSS	51.	ppm	MC	12-NOV-00		160.2
			ZN	0.23	ppm	MK	18-DEC-00	180	6010
			AS	0.019	ppm	CH	09-JAN-01	180	6020
			CA	113.	ppm	MK	18-DEC-00	180	6010
L001906-006	15-NOV-00	EPRI-0011-186	AS	0.019	ppm	CH	09-JAN-01	180	6020
			CA	113.	ppm	MK	18-DEC-00	180	6010

ASARCO TECHNICAL SERVICES CENTER


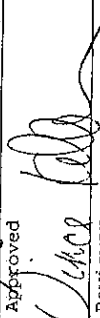
ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L001909

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	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: L001906

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001906-006	15-NOV-00	EPRI-0011-186	CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	247.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	2160.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	0.81	ppm	EH	22-NOV-00	28	340.2
			FE	1.5	ppm	MK	18-DEC-00	180	6010
			HCO3	262.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	11.	ppm	MK	18-DEC-00	180	6010
			MG	28.	ppm	MK	18-DEC-00	180	6010
			NA	287.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	1.3	ppm	JN	12-DEC-00	28	353.2
			PB	0.008	ppm	CH	09-JAN-01	180	6020
			PH	8.2	pH	DC	21-NOV-00		150.1
			SE	0.005	ppm	CH	09-JAN-01	180	6020
			SO4=	492.	ppm	JN	06-DEC-00	28	9036
			TDS	1448.	ppm	MC	20-NOV-00	7	160.1
			TSS	55.	ppm	MC	12-NOV-00		160.2
			ZN	0.045	ppm	MK	18-DEC-00	180	6010
			AS	0.015	ppm	CH	09-JAN-01	180	6020
			CA	106.	ppm	MK	18-DEC-00	180	6010
			CD	<0.005	ppm	CH	09-JAN-01	180	6020
			CL-	259.	ppm	JN	11-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	21-NOV-00		310.1
			COND.	2100.	umhos/cm2	BD	20-NOV-00	28	120.1
			CR	<0.010	ppm	MK	18-DEC-00	180	6010
			CU	<0.025	ppm	MK	18-DEC-00		6010
			F-	0.82	ppm	EH	22-NOV-00	28	340.2
			FE	1.3	ppm	MK	18-DEC-00	180	6010
L001906-007	15-NOV-00	EPRI-0011-193	HCO3	260.	ppm CaCO3	DC	21-NOV-00	14	310.1
			K	10.	ppm	MK	18-DEC-00	180	6010
			MG	27.	ppm	MK	18-DEC-00	180	6010
			NA	270.	ppm	MK	18-DEC-00	180	6010
			NO2/NO3	1.6	ppm	JN	12-DEC-00	28	353.2
			PB	0.009	ppm	CH	09-JAN-01	180	6020
			PH	8.3	pH	DC	21-NOV-00		150.1
			SE	0.005	ppm	CH	09-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001820

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		METHOD
							ANALYZED	MOVED	
L001820-001	30-OCT-00	EPRI-0011-108	AS	0.86	ppm	CH	11-DEC-00	180	6020
			CA	443.	ppm	MK	21-NOV-00	180	6010
			CD	0.070	ppm	CH	11-DEC-00	180	6020
			CL-	471.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm	DC	06-NOV-00		310.1
			COND.	9260.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.9	ppm	EH	17-NOV-00	28	340.2
			FE	0.50	ppm	MK	21-NOV-00	180	6010
			HCO3	286.	ppm	DC	06-NOV-00	14	310.1
			K	46.	ppm	MK	21-NOV-00	180	6010
			MG	238.	ppm	MK	21-NOV-00	180	6010
			NA	1454.	ppm	MK	21-NOV-00	180	6010
			NO2/NO3	100.	ppm	JN	27-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.7	PH	DC	06-NOV-00		150.1
			SE	0.34	ppm	CH	11-DEC-00	180	6020
			SO4=	3870.	ppm	JN	08-NOV-00	28	9036
			TDS	7826.	ppm	BD	02-NOV-00	7	160.1
			TSS	32.	ppm	BD	02-NOV-00		160.2
			ZN	0.093	ppm	MK	21-NOV-00	180	6010
L001820-002	30-OCT-00	EPRI-0011-116	AS	0.73	ppm	CH	11-DEC-00	180	6020
			CA	361.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	440.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm	DC	06-NOV-00		310.1
			COND.	6320.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	0.012	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.1	ppm	EH	17-NOV-00	28	340.2
			FE	1.1	ppm	MK	21-NOV-00	180	6010
			HCO3	506.	ppm	DC	06-NOV-00	14	310.1
			K	14.	ppm	MK	21-NOV-00	180	6010
			MG	123.	ppm	MK	21-NOV-00	180	6010
			NA	892.	ppm	MK	21-NOV-00	180	6010
			NO2/NO3	45.	ppm	JN	27-NOV-00	28	353.2
			PB	0.007	ppm	CH	11-DEC-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001820

LAB. NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	ANALYZED	DATE	HOLD
L001820-002	30-OCT-00	EPRI-0011-116	PH	7.8		DC	06-NOV-00	180	150.1
			SE	1.2	ppm	CH	11-DEC-00	180	6020
			SO4=	2525.	ppm	JN	08-NOV-00	28	9036
			TDS	5176.	ppm	BD	02-NOV-00	7	160.1
			TSS	57.	ppm	BD	02-NOV-00		160.2
			ZN	0.047	ppm	MK	21-NOV-00	180	6010
			AS	0.28	ppm	CH	11-DEC-00	180	6020
			CA	51.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	303.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	3250.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
L001820-003	30-OCT-00	EPRI-0011-115	F-	3.2	ppm	EH	17-NOV-00	28	340.2
			FE	4.3	ppm	MK	21-NOV-00	180	6010
			HCO3	280.	ppm CaCO3	DC	06-NOV-00	14	310.1
			K	16.	ppm	MK	21-NOV-00	180	6010
			MG	18.	ppm	MK	21-NOV-00	180	6010
			NA	566.	ppm	MK	21-NOV-00	180	6010
			NO2/NO3	5.6	ppm	JN	27-NOV-00	28	353.2
			PB	0.007	ppm	CH	11-DEC-00	180	6020
			PH	8.0	pH	DC	06-NOV-00		150.1
			SE	0.15	ppm	CH	11-DEC-00	180	6020
			SO4=	912.	ppm	JN	08-NOV-00	28	9036
			TDS	2100.	ppm	BD	02-NOV-00	7	160.1
			TSS	754.	ppm	BD	02-NOV-00		160.2
			ZN	0.041	ppm	MK	21-NOV-00	180	6010
L001820-004	30-OCT-00	EPRI-0011-100	AS	0.13	ppm	CH	11-DEC-00	180	6020
			CA	53.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	128.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	1552.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	0.039	ppm	CH	11-DEC-00		6020
			F-	1.1	ppm	EH	17-NOV-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001820

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	
								DATE	METHOD
L001820-004	30-OCT-00	EPRI-0011-100	FE	2.8	ppm	MK	21-NOV-00	180	6010
			HCO3	342.	ppm	DC	06-NOV-00	14	310.1
			K	9.9	ppm	MK	21-NOV-00	180	6010
			MG	14.	ppm	MK	21-NOV-00	180	6010
			NA	205.	ppm	MK	21-NOV-00	180	6010
			NO2/NO3	0.087	ppm	JN	27-NOV-00	28	353.2
			PB	0.023	ppm	CH	11-DEC-00	180	6020
			PH	8.3	pH	DC	06-NOV-00		150.1
			SE	<0.005	ppm	CH	11-DEC-00	180	6020
			SO4=	232.	ppm	JN	08-NOV-00	28	9036
			TDS	953.	ppm	BD	02-NOV-00	7	160.1
			TSS	96.	ppm	BD	02-NOV-00		160.2
			ZN	0.068	ppm	MK	21-NOV-00	180	6010
			AS	0.14	ppm	CH	11-DEC-00	180	6020
			CA	56.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	145.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm	DC	06-NOV-00		310.1
			COND.	1549.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
L001820-005	30-OCT-00	EPRI-0011-219	CU	0.029	ppm	CH	11-DEC-00		6020
			F-	1.1	ppm	EH	17-NOV-00	28	340.2
			FE	2.0	ppm	MK	21-NOV-00	180	6010
			HCO3	335.	ppm	DC	06-NOV-00	14	310.1
			K	11.	ppm	MK	21-NOV-00	180	6010
			MG	15.	ppm	MK	21-NOV-00	180	6010
			NA	209.	ppm	MK	21-NOV-00	180	6010
			NO2/NO3	0.091	ppm	JN	27-NOV-00	28	353.2
			PB	0.017	ppm	CH	11-DEC-00	180	6020
			PH	8.3	pH	DC	06-NOV-00		150.1
			SE	<0.005	ppm	CH	11-DEC-00	180	6020
			SO4=	241.	ppm	JN	08-NOV-00	28	9036
			TDS	941.	ppm	BD	02-NOV-00	7	160.1
			TSS	85.	ppm	BD	02-NOV-00		160.2
			ZN	0.062	ppm	MK	21-NOV-00	180	6010
			AS	0.077	ppm	CH	11-DEC-00	180	6020
			CA	60.	ppm	MK	21-NOV-00	180	6010
L001820-006	30-OCT-00	EPRI-0011-103							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001820

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE
L001820-006	30-OCT-00	EPRI-0011-103	CD	<0.005	ppm	CH	11-DEC-00	180
			CL	213.	ppm	JN	09-NOV-00	28
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1
			COND.	2520.	unhos/cm2	BD	01-NOV-00	28
			CR	<0.010	ppm	CH	11-DEC-00	180
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	2.2	ppm	EH	17-NOV-00	28
			FE	1.3	ppm	MK	21-NOV-00	180
			HCO3	240.	ppm CaCO3	DC	06-NOV-00	14
			K	6.4	ppm	MK	21-NOV-00	180
			MG	20.	ppm	MK	21-NOV-00	180
			NA	442.	ppm	MK	21-NOV-00	180
			NO2/NO3	0.10	ppm	JN	27-NOV-00	28
			PE	<0.003	ppm	CH	11-DEC-00	180
			PH	8.1	pH	DC	06-NOV-00	150.1
			SE	0.006	ppm	CH	11-DEC-00	180
			SO4=	657.	ppm	JN	08-NOV-00	28
			TDS	1613.	ppm	BD	02-NOV-00	7
			TSS	4.9	ppm	BD	02-NOV-00	160.1
			ZN	0.045	ppm	MK	21-NOV-00	180
								6010
L001820-007	30-OCT-00	EPRI-0011-102	AS	0.032	ppm	CH	11-DEC-00	180
			CA	112.	ppm	MK	21-NOV-00	180
			CD	<0.005	ppm	CH	11-DEC-00	180
			CL	264.	ppm	JN	09-NOV-00	28
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1
			COND.	3730.	unhos/cm2	BD	01-NOV-00	28
			CR	<0.010	ppm	CH	11-DEC-00	180
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	2.6	ppm	EH	17-NOV-00	28
			FE	<0.10	ppm	MK	21-NOV-00	180
			HCO3	419.	ppm CaCO3	DC	06-NOV-00	14
			K	13.	ppm	MK	21-NOV-00	180
			MG	38.	ppm	MK	21-NOV-00	180
			NA	612.	ppm	MK	21-NOV-00	180
			NO2/NO3	0.52	ppm	JN	27-NOV-00	28
			PB	<0.003	ppm	CH	11-DEC-00	180
			PH	8.1	pH	DC	06-NOV-00	150.1
			SE	0.038	ppm	CH	11-DEC-00	180
								6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001820

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001820-007	30-OCT-00	EPRI-0011-102	SO4=	878.	ppm	JN	08-NOV-00	28	9036
			TDS	2531.	ppm	BD	02-NOV-00	7	160.1
			TSS	9.3	ppm	BD	02-NOV-00		160.2
			ZN	0.047	ppm	MK	21-NOV-00	180	6010
			AS	<0.005	ppm	CH	11-DEC-00	180	6020
			CA	<1.0	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	<1.0	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	01-NOV-00	28	120.1
L001820-008	30-OCT-00	EPRI-0011-220	CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	<0.050	ppm	EH	17-NOV-00	28	340.2
			FE	<0.10	ppm	MK	21-NOV-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	06-NOV-00	14	310.1
			K	<2.0	ppm	MK	21-NOV-00	180	6010
			MG	<1.0	ppm	MK	21-NOV-00	180	6010
			NA	<2.0	ppm	MK	08-DEC-00	180	6010
			NO2/NO3	<0.050	ppm	JN	14-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
L001820-009	31-OCT-00	EPRI-0011-127	PH	5.7	pH	DC	06-NOV-00		150.1
			SE	<0.005	ppm	CH	11-DEC-00	180	6020
			SO4=	<2.0	ppm	JN	08-NOV-00	28	9036
			TDS	<10.	ppm	BD	02-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	02-NOV-00		160.2
			ZN	0.042	ppm	MK	21-NOV-00	180	6010
			AS	2.5	ppm	CH	11-DEC-00	180	6020
			CA	180.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	449.	ppm	JN	09-NOV-00	28	325.2
L001820-009	31-OCT-00	EPRI-0011-127	CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	5320.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	0.031	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	4.8	ppm	EH	17-NOV-00	28	340.2
			FE	0.44	ppm	MK	21-NOV-00	180	6010
			HCO3	400.	ppm CaCO3	DC	06-NOV-00	14	310.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001820-009	31-OCT-00	EPRI-0011-127	K	89.	ppm	MK	21-NOV-00	180	6010
			MG	91.	ppm	MK	21-NOV-00	180	6010
			NA	915.	ppm	MK	08-DEC-00	180	6010
			NO2/NO3	3.6	ppm	JN	14-NOV-00	28	353.2
			PB	0.004	ppm	CH	11-DEC-00	180	6020
			PH	8.0	pH	DC	06-NOV-00	150.1	
			SE	0.28	ppm	CH	11-DEC-00	180	6020
			SO4=	1768.	ppm	JN	08-NOV-00	28	9036
			TDS	3894.	ppm	BD	02-NOV-00	7	160.1
			TSS	7.7	ppm	BD	02-NOV-00		160.2
			ZN	0.041	ppm	MK	21-NOV-00	180	6010
			AS	0.051	ppm	CH	11-DEC-00	180	6020
			CA	355.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	634.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	06-NOV-00		310.1
			COND.	9200.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.9	ppm	EH	17-NOV-00	28	340.2
			FE	0.19	ppm	MK	21-NOV-00	180	6010
			HCO3	233.	ppm	DC	06-NOV-00	14	310.1
			K	17.	ppm	MK	21-NOV-00	180	6010
			MG	107.	ppm	MK	21-NOV-00	180	6010
			NA	1968.	ppm	MK	08-DEC-00	180	6010
L001820-010	31-OCT-00	EPRI-0011-132	NO2/NO3	79.	ppm	JN	27-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	8.1	pH	DC	06-NOV-00	150.1	
			SE	0.53	ppm	CH	11-DEC-00	180	6020
			SO4=	3585.	ppm	JN	08-NOV-00	28	9036
			TDS	7467.	ppm	BD	02-NOV-00	7	160.1
			TSS	3.6	ppm	BD	02-NOV-00		160.2
			ZN	0.052	ppm	MK	21-NOV-00	180	6010
			AS	1.4	ppm	CH	11-DEC-00	180	6020
			CA	155.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	345.	ppm	JN	09-NOV-00	28	325.2
L001820-011	31-OCT-00	EPRI-0011-130	AS	1.4	ppm	CH	11-DEC-00	180	6020
			CA	155.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	345.	ppm	JN	09-NOV-00	28	325.2

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD	
								ANALYST	METHOD
L001820 011 31-OCT-00	EPRI-0011-130		CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	4260.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	3.1	ppm	EH	17-NOV-00	28	340.2
			FE	0.28	ppm	MK	21-NOV-00	180	6010
			HCO3	322.	ppm CaCO3	DC	06-NOV-00	14	310.1
			K	42.	ppm	MK	21-NOV-00	180	6010
			MG	63.	ppm	MK	21-NOV-00	180	6010
			NA	763.	ppm	MK	08-DEC-00	180	6010
			NO2/NO3	3.7	ppm	MK	14-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.9	pH	DC	06-NOV-00		150.1
			SE	0.29	ppm	CH	11-DEC-00	180	6020
			SO4=	1339.	ppm	JN	08-NOV-00	28	9036
			TDS	3030.	ppm	BD	02-NOV-00	7	160.1
			TSS	3.0	ppm	BD	02-NOV-00		160.2
			ZN	0.038	ppm	MK	21-NOV-00	180	6010
L001820-012 31-OCT-00	EPRI-0011-131		AS	0.028	ppm	CH	11-DEC-00	180	6020
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	844.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	7490.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	0.027.	ppm	CH	11-DEC-00	180	6020
			CU	0.026	ppm	CH	11-DEC-00		6020
			F-	2.2	ppm	EH	17-NOV-00	28	340.2
			FE	1.0	ppm	MK	21-NOV-00	180	6010
			HCO3	522.	ppm CaCO3	DC	06-NOV-00	14	310.1
			K	28.	ppm	MK	21-NOV-00	180	6010
			MG	134.	ppm	MK	21-NOV-00	180	6010
			NA	1434.	ppm	MK	08-DEC-00	180	6010
			NO2/NO3	0.67	ppm	JN	27-NOV-00	28	353.2
			PB	0.013	ppm	CH	11-DEC-00	180	6020
			PH	7.8	pH	DC	06-NOV-00		150.1
			SE	0.17	ppm	CH	11-DEC-00	180	6020
			SO4=	2505.	ppm	JN	08-NOV-00	28	9036
			TDS	5442.	ppm	BD	02-NOV-00	7	160.1
			TSS	23.	ppm	BD	02-NOV-00		160.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001820-012	31-OCT-00	EPRI-0011-131	ZN	0.089	ppm	MK	21-NOV-00	180	6010
			AS	0.012	ppm	CH	11-DEC-00	180	6020
			CA	472.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	934.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	06-NOV-00	310.1	
			COND.	8400.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	0.97	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00	6020	
			F-	1.7	ppm	EH	17-NOV-00	28	340.2
			FE	3.9	ppm	MK	21-NOV-00	180	6010
			HCO3	293.	ppm	CaCO3	06-NOV-00	14	310.1
			K	11.	ppm	MK	21-NOV-00	180	6010
			MG	182.	ppm	MK	21-NOV-00	180	6010
			NA	1189.	ppm	MK	08-DEC-00	180	6010
			NO2/NO3	55.	ppm	JN	27-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.6	pH	DC	06-NOV-00	150.1	
			SE	0.20	ppm	CH	11-DEC-00	180	6020
			SO4=	3061.	ppm	JN	08-NOV-00	28	9036
			TDS	6772.	ppm	BD	02-NOV-00	7	160.1
			TSS	19.	ppm	BD	02-NOV-00	160.2	
			ZN	0.038	ppm	MK	21-NOV-00	180	6010
L001820-014	31-OCT-00	EPRI-0011-134	AS	8.1	ppm	CH	11-DEC-00	180	6020
			CA	483.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	415.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	06-NOV-00	310.1	
			COND.	7120.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	0.026	ppm	CH	11-DEC-00	6020	
			F-	3.2	ppm	EH	17-NOV-00	28	340.2
			FE	0.54	ppm	MK	21-NOV-00	180	6010
			HCO3	373.	ppm	CaCO3	06-NOV-00	14	310.1
			K	44.	ppm	MK	21-NOV-00	180	6010
			MG	111.	ppm	MK	21-NOV-00	180	6010
			NA	1332.	ppm	MK	08-DEC-00	180	6010

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Batch No: L001820

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	TEST METHOD
L001820-014	31-OCT-00	EPRI-0011-134	NO2/NO3	38.	ppm	JN	27-NOV-00	28	353.2
			PB	0.005	ppm	CH	11-DEC-00	180	6020
			PH	7.8	pH	DC	06-NOV-00		150.1
			SE	0.31	ppm	CH	11-DEC-00	180	6020
			SO4=	3170.	ppm	JN	08-NOV-00	28	9036
			TDS	5852.	ppm	BD	02-NOV-00	7	160.1
			TSS	25.	ppm	BD	02-NOV-00		160.2
			ZN	0.065	ppm	MK	21-NOV-00	180	6010
			AS	0.080	ppm	CH	11-DEC-00	180	6020
			CA	106.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	592.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	4410.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
L001820-015	31-OCT-00	EPRI-0011-101	CU	0.055	ppm	CH	11-DEC-00		6020
			F-	2.7	ppm	EH	17-NOV-00	28	340.2
			FE	3.1	ppm	MK	21-NOV-00	180	6010
			HCO3	844.	ppm	DC	06-NOV-00	14	310.1
			K	12.	ppm	MK	21-NOV-00	180	6010
			MG	42.	ppm	MK	21-NOV-00	180	6010
			NA	881.	ppm	MK	08-DEC-00	180	6010
			NO2/NO3	0.75	ppm	JN	27-NOV-00	28	353.2
			PB	0.039	ppm	CH	11-DEC-00	180	6020
			PH	8.2	pH	DC	06-NOV-00		150.1
			SE	0.019	ppm	CH	11-DEC-00	180	6020
			SO4=	720.	ppm	JN	08-NOV-00	28	9036
			TDS	2833.	ppm	BD	02-NOV-00	7	160.1
			TSS	95.	ppm	BD	02-NOV-00		160.2
			ZN	0.078	ppm	MK	21-NOV-00	180	6010
L001820-016	31-OCT-00	EPRI-0011-174	AS	0.008	ppm	CH	11-DEC-00	180	6020
			CA	147.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	333.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	2920.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD PHYS METHOD
L001820-016	31-OCT-00	EPRI-0011-174	CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	0.77	ppm	EH	17-NOV-00	28
			FE	0.15	ppm	MK	21-NOV-00	180
			HCO3	229.	ppm CaCO3	DC	06-NOV-00	14
			K	18.	ppm	MK	21-NOV-00	180
			MG	61.	ppm	MK	21-NOV-00	180
			NA	414.	ppm	MK	08-DEC-00	180
			NO2/NO3	8.9	ppm	JN	27-NOV-00	28
			PB	<0.003	ppm	CH	11-DEC-00	180
			PH	8.1	pH	DC	06-NOV-00	150.1
			SE	0.016	ppm	CH	11-DEC-00	180
			SO4=	900.	ppm	JN	08-NOV-00	28
			TDS	2003.	ppm	BD	02-NOV-00	7
			TSS	5.2	ppm	BD	02-NOV-00	160.1
			ZN	0.047	ppm	MK	21-NOV-00	160.2
							21-NOV-00	180
								6010
			AS	<0.005	ppm	CH	11-DEC-00	180
			CA	148.	ppm	MK	21-NOV-00	180
			CD	<0.005	ppm	CH	11-DEC-00	180
L001820-017	31-OCT-00	EPRI-0011-155	CL-	337.	ppm	JN	09-NOV-00	28
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1
			COND.	2910.	umhos/cm2	BD	01-NOV-00	28
			CR	<0.010	ppm	CH	11-DEC-00	180
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	0.78	ppm	EH	17-NOV-00	28
			FE	0.16	ppm	CH	21-NOV-00	180
			HCO3	223.	ppm CaCO3	MK	06-NOV-00	14
			K	16.	ppm	DC	21-NOV-00	180
			MG	57.	ppm	MK	21-NOV-00	180
			NA	414.	ppm	MK	08-DEC-00	180
			NO2/NO3	7.8	ppm	JN	27-NOV-00	28
			PB	0.006	ppm	CH	11-DEC-00	180
			PH	8.0	pH	DC	06-NOV-00	150.1
			SE	0.019	ppm	CH	11-DEC-00	180
			SO4=	900.	ppm	JN	08-NOV-00	28
			TDS	1984.	ppm	BD	02-NOV-00	7
			TSS	2.0	ppm	BD	02-NOV-00	160.1
			ZN	0.038	ppm	MK	21-NOV-00	160.2
							21-NOV-00	180
								6010

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L001820-018 31-OCT-00 EPRI-0011-221								
			AS	0.007	ppm	CH	11-DEC-00	180 6020
			CA	167.	ppm	MK	21-NOV-00	180 6010
			CD	<0.005	ppm	CH	11-DEC-00	180 6020
			CL-	336.	ppm	JN	09-NOV-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1
			COND.	2910.	umhos/cm2	BD	01-NOV-00	28 120.1
			CR	<0.010	ppm	CH	11-DEC-00	180 6020
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	0.75	ppm	EH	17-NOV-00	28 340.2
			FE	0.11	ppm	MK	21-NOV-00	180 6010
			HCO3	223.	ppm CaCO3	DC	06-NOV-00	14 310.1
			K	17.	ppm	MK	21-NOV-00	180 6010
			MG	65.	ppm	MK	21-NOV-00	180 6010
			NA	381.	ppm	MK	21-NOV-00	180 6010
			NO2/NO3	8.6	ppm	JN	27-NOV-00	28 353.2
			PB	0.007	ppm	CH	11-DEC-00	180 6020
			PH	8.0	pH	DC	06-NOV-00	150.1
			SE	0.024	ppm	CH	11-DEC-00	180 6020
			SO4=	883.	ppm	JN	08-NOV-00	28 9036
			TDS	1973.	ppm	BD	02-NOV-00	7 160.1
			TSS	2.5	ppm	BD	02-NOV-00	160.2
			ZN	0.049	ppm	MK	21-NOV-00	180 6010
L001820-019 31-OCT-00 EPRI-0011-135								
			AS	0.010	ppm	CH	11-DEC-00	180 6020
			CA	434.	ppm	MK	21-NOV-00	180 6010
			CD	<0.005	ppm	CH	11-DEC-00	180 6020
			CL-	275.	ppm	JN	09-NOV-00	28 325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1
			COND.	4300.	umhos/cm2	BD	01-NOV-00	28 120.1
			CR	<0.010	ppm	CH	11-DEC-00	180 6020
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	0.78	ppm	EH	17-NOV-00	28 340.2
			FE	0.21	ppm	MK	21-NOV-00	180 6010
			HCO3	206.	ppm CaCO3	DC	06-NOV-00	14 310.1
			K	11.	ppm	MK	21-NOV-00	180 6010
			MG	124.	ppm	MK	21-NOV-00	180 6010
			NA	440.	ppm	MK	21-NOV-00	180 6010
			NO2/NO3	14.	ppm	JN	27-NOV-00	28 353.2
			PB	0.003	ppm	CH	11-DEC-00	180 6020

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LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001820-019	31-OCT-00	EPRI-0011-135	PH	7.7	PH	DC	06-NOV-00	150.1	
			SE	0.10	ppm	CH	11-DEC-00	180	6020
			SO4=	1765.	ppm	JN	08-NOV-00	28	9036
			TDS	3614.	ppm	BD	02-NOV-00	7	160.1
			TSS	9.1	ppm	BD	02-NOV-00		160.2
			ZN	0.057	ppm	MK	21-NOV-00	180	6010
			AS	<0.005	ppm	CH	11-DEC-00	180	6020
			CA	201.	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	472.	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	4150.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	0.011	ppm	CH	11-DEC-00	180	6020
L001820-020	31-OCT-00	EPRI-0011-136	CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	0.73	ppm	EH	17-NOV-00	28	340.2
			FE	0.51	ppm	MK	21-NOV-00	180	6010
			HCO3	222.	ppm CaCO3	DC	06-NOV-00	14	310.1
			K	10.	ppm	MK	21-NOV-00	180	6010
			MG	86.	ppm	MK	21-NOV-00	180	6010
			NA	581.	ppm	MK	21-NOV-00	180	6010
			NO2/NO3	40.	ppm	JN	27-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	8.0	PH	DC	06-NOV-00		150.1
			SE	0.21	ppm	CH	11-DEC-00	180	6020
			SO4=	1298.	ppm	JN	08-NOV-00	28	9036
			TDS	2963.	ppm	BD	02-NOV-00	7	160.1
L001820-021	31-OCT-00	EPRI-0011-222	TSS	18.	ppm	BD	02-NOV-00		160.2
			ZN	0.057	ppm	MK	21-NOV-00	180	6010
			AS	<0.005	ppm	CH	11-DEC-00	180	6020
			CA	<1.0	ppm	MK	21-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	<1.0	ppm	JN	09-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00		310.1
			COND.	2240.	umhos/cm2	BD	01-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	<0.050	ppm	EH	17-NOV-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001820

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001820-021	31-OCT-00	ERPI-0011-222	FE	<0.10	ppm	MK	21-NOV-00	180	6010
			HCO3	<1.0	ppm	DC	06-NOV-00	14	310.1
			K	<2.0	ppm	MK	21-NOV-00	180	6010
			MG	<1.0	ppm	MK	21-NOV-00	180	6010
			NA	<2.0	ppm	MK	21-NOV-00	180	6010
			NO2/NO3	<0.050	ppm	JN	14-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	5.7	PH	DC	06-NOV-00		150.1
			SE	<0.005	ppm	CH	11-DEC-00	180	6020
			SO4=	<2.0	ppm	JN	08-NOV-00	28	9036
			TDS	<10.	ppm	BD	02-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	02-NOV-00		160.2
			ZN	0.029	ppm	MK	21-NOV-00	180	6010

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

Approved
[Signature]
Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001171

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE	MOID
WG001171-1		Matrix Spike	AS	98	%Recovery	CH	11-DEC-00	6020
			CD	88	%Recovery	CH	11-DEC-00	6020
			CL-	101	%Recovery	JN	09-NOV-00	325.2
			CR	90	%Recovery	CH	11-DEC-00	6020
			CU	83	%Recovery	CH	11-DEC-00	6020
			F-	99	%Recovery	EH	17-NOV-00	340.2
			FE	95	%Recovery	MK	21-NOV-00	6010
			NO2/NO3	81	%Recovery	JN	14-NOV-00	353.2
			PB	87	%Recovery	CH	11-DEC-00	6020
			SE	97	%Recovery	CH	11-DEC-00	6020
			SO4=	110	%Recovery	JN	08-NOV-00	9036
			ZN	90	%Recovery	MK	21-NOV-00	6010
WG001171-2		Prep Blank	AS	<0.005	ppm	CH	11-DEC-00	6020
			CA	<1.0	ppm	MK	21-NOV-00	6010
			CD	<0.005	ppm	CH	11-DEC-00	6020
			CL-	<1.0	ppm	JN	09-NOV-00	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1
			COND.	<5.0	unthos/cm2	BD	01-NOV-00	120.1
			CR	<0.010	ppm	CH	11-DEC-00	6020
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	<0.050	ppm	EH	17-NOV-00	340.2
			FE	<0.10	ppm	MK	21-NOV-00	6010
			HCO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1
			K	<2.0	ppm	MK	21-NOV-00	6010
			MG	<1.0	ppm	MK	21-NOV-00	6010
			NA	<2.0	ppm	MK	21-NOV-00	6010
			NO2/NO3	<0.050	ppm	JN	14-NOV-00	353.2
			PB	<0.003	ppm	CH	11-DEC-00	6020
			SE	<0.005	ppm	CH	11-DEC-00	6020
			SO4=	<2.0	ppm	JN	08-NOV-00	9036
			TDS	<10.	ppm	BD	02-NOV-00	160.1
			TSS	<1.0	ppm	BD	02-NOV-00	160.2
			ZN	<0.020	ppm	MK	21-NOV-00	6010
WG001171-3		Lab Control Sample	AS	108	%Recovery	CH	11-DEC-00	6020
			CA	75	%Recovery	MK	21-NOV-00	6010
			CD	100	%Recovery	CH	11-DEC-00	6020
			CL-	99	%Recovery	JN	09-NOV-00	325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001171

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001171-3		Lab Control Sample	COND.	100		%Recovery	BD	01-NOV-00	120.1
			CR	101		%Recovery	CH	11-DEC-00	6020
			CU	104		%Recovery	CH	11-DEC-00	6020
			F-	100		%Recovery	EH	17-NOV-00	340.2
			FE	78		%Recovery	MK	21-NOV-00	6010
			HCO3	100		%Recovery	DC	06-NOV-00	310.1
			K	84		%Recovery	MK	21-NOV-00	6010
			MG	80		%Recovery	MK	21-NOV-00	6010
			NA	85		%Recovery	MK	21-NOV-00	6010
			NO2/NO3	102		%Recovery	JN	14-NOV-00	353.2
			PB	100		%Recovery	CH	11-DEC-00	6020
			SE	106		%Recovery	CH	11-DEC-00	6020
			SO4=	97		%Recovery	JN	08-NOV-00	9036
			TDS	104		%Recovery	BD	02-NOV-00	160.1
			TSS	99		%Recovery	BD	02-NOV-00	160.2
			ZN	76		%Recovery	MK	21-NOV-00	6010
			CL-	<1		% RPD	JN	09-NOV-00	325.2
			CO3	<1		% RPD	DC	06-NOV-00	310.1
			COND.	<1		% RPD	BD	01-NOV-00	120.1
			F-	2.9		% RPD	EH	17-NOV-00	340.2
WG001171-4		Duplicate	HCO3	1.1		% RPD	DC	06-NOV-00	310.1
			NO2/NO3	<1		% RPD	JN	14-NOV-00	353.2
			SO4=	<1		% RPD	JN	08-NOV-00	9036
			TDS	<1		% RPD	BD	02-NOV-00	160.1
			TSS	1.1		% RPD	BD	02-NOV-00	160.2
			AS	<1		% RPD	CH	11-DEC-00	6020
			CA	9.5		% RPD	MK	21-NOV-00	6010
			CD	<1		% RPD	CH	11-DEC-00	6020
			CR	<1		% RPD	CH	11-DEC-00	6020
			CU	19		% RPD	CH	11-DEC-00	6020
			FE	9.4		% RPD	MK	21-NOV-00	6010
			K	5.4		% RPD	MK	21-NOV-00	6010
			MG	8.2		% RPD	MK	21-NOV-00	6010
			NA	2.7		% RPD	MK	21-NOV-00	6010
			PB	7.1		% RPD	CH	11-DEC-00	6020
			SE	<1		% RPD	CH	11-DEC-00	6020
			ZN	8.7		% RPD	MK	21-NOV-00	6010
WG001171-5		Matrix Spike Duplicate	COND.	100		%Recovery	BD	01-NOV-00	120.1
			CR	101		%Recovery	CH	11-DEC-00	6020
			CU	104		%Recovery	CH	11-DEC-00	6020
			F-	100		%Recovery	EH	17-NOV-00	340.2
			FE	78		%Recovery	MK	21-NOV-00	6010
			HCO3	100		%Recovery	DC	06-NOV-00	310.1
			K	84		%Recovery	MK	21-NOV-00	6010
			MG	80		%Recovery	MK	21-NOV-00	6010
			NA	85		%Recovery	MK	21-NOV-00	6010
			NO2/NO3	102		%Recovery	JN	14-NOV-00	353.2
			PB	100		%Recovery	CH	11-DEC-00	6020
			SE	106		%Recovery	CH	11-DEC-00	6020
			SO4=	97		%Recovery	JN	08-NOV-00	9036
			TDS	104		%Recovery	BD	02-NOV-00	160.1
			TSS	99		%Recovery	BD	02-NOV-00	160.2
			ZN	76		%Recovery	MK	21-NOV-00	6010
			CL-	<1		% RPD	JN	09-NOV-00	325.2
			CO3	<1		% RPD	DC	06-NOV-00	310.1
			COND.	<1		% RPD	BD	01-NOV-00	120.1
			F-	2.9		% RPD	EH	17-NOV-00	340.2
			HCO3	1.1		% RPD	DC	06-NOV-00	310.1
			NO2/NO3	<1		% RPD	JN	14-NOV-00	353.2
			SO4=	<1		% RPD	JN	08-NOV-00	9036
			TDS	<1		% RPD	BD	02-NOV-00	160.1
			TSS	1.1		% RPD	BD	02-NOV-00	160.2
			AS	<1		% RPD	CH	11-DEC-00	6020
			CA	9.5		% RPD	MK	21-NOV-00	6010
			CD	<1		% RPD	CH	11-DEC-00	6020
			CR	<1		% RPD	CH	11-DEC-00	6020
			CU	19		% RPD	CH	11-DEC-00	6020
			FE	9.4		% RPD	MK	21-NOV-00	6010
			K	5.4		% RPD	MK	21-NOV-00	6010
			MG	8.2		% RPD	MK	21-NOV-00	6010
			NA	2.7		% RPD	MK	21-NOV-00	6010
			PB	7.1		% RPD	CH	11-DEC-00	6020
			SE	<1		% RPD	CH	11-DEC-00	6020
			ZN	8.7		% RPD	MK	21-NOV-00	6010

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001171

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD
WG001171-6		Reporting Limit	AS	0.005	ppm			6020
			CA	1.0	ppm			6010
			CD	0.005	ppm			6020
			CL-	1.0	ppm			325.2
			CO3	1.0	ppm CaCO3			310.1
			COND.	5.0	unhos/cm2			120.1
			CR	0.010	ppm			6020
			CU	0.025	ppm			6020
			F-	0.050	ppm			340.2
			FE	0.10	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	0.050	ppm			353.2
			PB	0.003	ppm			6020
			SE	0.005	ppm			6020
			SO4=	2.0	ppm			9036
			TDS	10.	ppm			160.1
			TSS	1.0	ppm			160.2
			ZN	0.020	ppm			6010
WG001171-7		Matrix Spike	AS	97	%Recovery	CH	11-DEC-00	6020
			CD	100	%Recovery	CH	11-DEC-00	6020
			CL-	99	%Recovery	JN	09-NOV-00	325.2
			CR	83	%Recovery	CH	11-DEC-00	6020
			CU	97	%Recovery	CH	11-DEC-00	6020
			FE	94	%Recovery	MK	21-NOV-00	6010
			NO2/NO3	84	%Recovery	JN	14-NOV-00	353.2
			PB	100	%Recovery	CH	11-DEC-00	6020
			SE	99	%Recovery	CH	11-DEC-00	6020
			SO4=	95	%Recovery	JN	08-NOV-00	9036
			ZN	89	%Recovery	MK	21-NOV-00	6010
WG001171-8		Prep Blank	AS	<0.005	ppm	CH	11-DEC-00	6020
			CA	<1.0	ppm	MK	21-NOV-00	6010
			CD	<0.005	ppm	CH	11-DEC-00	6020
			CL-	<1.0	ppm	JN	09-NOV-00	325.2
			CO3	<1.0	ppm CaCO3	DC	06-NOV-00	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001171

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DAYS	METHOD
WG001171-8		Prep Blank	CR	<0.010	ppm	CH	11-DEC-00		6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			FE	<0.10	ppm	MK	21-NOV-00		6010
			HCO3	<1.0	ppm	DC	06-NOV-00		310.1
			K	<2.0	ppm	MK	21-NOV-00		6010
			MG	<1.0	ppm	MK	21-NOV-00		6010
			NA	<2.0	ppm	MK	21-NOV-00		6010
			NO2/NO3	<0.050	ppm	JN	14-NOV-00		353.2
			PB	<0.003	ppm	CH	11-DEC-00		6020
			SE	<0.005	ppm	CH	11-DEC-00		6020
			SO4=	<2.0	ppm	JN	08-NOV-00		9036
			TDS	<10	ppm	BD	02-NOV-00		160.1
			TSS	<1.0	ppm	BD	02-NOV-00		160.2
			ZN	<0.020	ppm	MK	21-NOV-00		6010
			AS	103	% Recovery	CH	11-DEC-00		6020
			CA	84	% Recovery	MK	21-NOV-00		6010
			CD	101	% Recovery	CH	11-DEC-00		6020
			CL	102	% Recovery	JN	09-NOV-00		325.2
			CR	81	% Recovery	CH	11-DEC-00		6020
WG001171-9		Lab Control Sample	CU	98	% Recovery	CH	11-DEC-00		6020
			FE	87	% Recovery	MK	21-NOV-00		6010
			HCO3	99	% Recovery	DC	06-NOV-00		310.1
			K	85	% Recovery	MK	21-NOV-00		6010
			MG	88	% Recovery	MK	21-NOV-00		6010
			NA	88	% Recovery	MK	21-NOV-00		6010
			NO2/NO3	98	% Recovery	JN	14-NOV-00		353.2
			PB	102	% Recovery	CH	11-DEC-00		6020
			SE	104	% Recovery	CH	11-DEC-00		6020
			SO4=	105	% Recovery	JN	08-NOV-00		9036
			TDS	102	% Recovery	BD	02-NOV-00		160.1
			TSS	105	% Recovery	BD	02-NOV-00		160.2
			ZN	85	% Recovery	MK	21-NOV-00		6010
			CL	7.2	% RPD	JN	09-NOV-00		325.2
			CO3	<1	% RPD	DC	06-NOV-00		310.1
			HCO3	<1	% RPD	DC	06-NOV-00		310.1
			NO2/NO3	2.4	% RPD	JN	14-NOV-00		353.2
			SO4=	1.5	% RPD	JN	08-NOV-00		9036
WG001171-10		Duplicate							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001171

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001171-10		Duplicate	TDS	<1	% RPD	BD	02-NOV-00		160.1
			TSS	<1	% RPD	BD	02-NOV-00		160.2
WG001171-11		Matrix Spike Duplicate	AS	<1	% RPD	CH	11-DEC-00		6020
			CA	9.8	% RPD	MK	21-NOV-00		6010
			CD	2.5	% RPD	CH	11-DEC-00		6020
			CR	<1	% RPD	CH	11-DEC-00		6020
			CU	<1	% RPD	CH	11-DEC-00		6020
			FE	6.8	% RPD	MK	21-NOV-00		6010
			K	11.	% RPD	MK	21-NOV-00		6010
			MG	10.	% RPD	MK	21-NOV-00		6010
			NA	12.	% RPD	MK	21-NOV-00		6010
			PB	2.3	% RPD	CH	11-DEC-00		6020
			SE	2.5	% RPD	CH	11-DEC-00		6020
			ZN	5.7	% RPD	MK	21-NOV-00		6010

[Signature]

Approved

[Signature]

Reviewer

Hydrometrix Inc.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85710 (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS								REMARKS					
DATE		TIME		SAMPLE NUMBER		COMMONS UF/RAW		DISS. METAL F/HNO ₃		CN UF/NaOH		TOTAL METALS UF/HNO ₃		TOTAL RECOVERABLE METALS UF/HNO ₃		BTX		TPH	
0931VZ		ASARCO - EL PASO, TX		3		X		X		X		X		X					
10:30		1300		EPR1-0011-108		X		X		X		X		X					
1330				EPR1-0011-116		X		X		X		X		X					
1400				EPR1-0011-115		X		X		X		X		X					
1430				EPR1-0011-100		X		X		X		X		X					
1440				EPR1-0011-219		X		X		X		X		X					
1515				EPR1-0011-103		X		X		X		X		X					
1540				EPR1-0011-102		X		X		X		X		X					
1600				EPR1-0011-220		X		X		X		X		X					
10:31		850		EPR1-0011-127		X		X		X		X		X					
920				EPR1-0011-132		X		X		X		X		X					
945				EPR1-0011-130		X		X		X		X		X					
1030				EPR1-0011-131		X		X		X		X		X					
1100				EPR1-0011-128		X		X		X		X		X					
1130				EPR1-0011-134		X		X		X		X		X					
1530				EPR1-0011-101		X		X		X		X		X					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS		Other		Air Bill #					
SPL James		10/31/00 1600		Received by: (Signature)		13C-34C, 4T													
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					
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		10-1-00		10:30									
Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:		Return results & electronic copy to:	

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		SAMPLE NUMBER		REMARKS	
DATE	TIME	COMP	GRAB	COMMONS UF/RAW	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	BTX	TPH
10/20/00	1330			X	X	X	X		
10/20/00	1345			X	X	X	X		
10/20/00	1350			X	X	X	X		
10/20/00	1410			X	X	X	X		
10/20/00	1440			X	X	X	X		
10/20/00	1500			X	X	X	X		
[Handwritten signature across the bottom of the table]									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #	
[Signature]		10/20/00		[Signature]		TX SALT LAKE		Shipped via: Bus. Fed Ex UPS	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks		Other	
[Signature]		10/20/00		[Signature]		[Signature]		Air Bill #	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/ detection limits	
[Signature]		10/20/00		[Signature]		11:00 10:30		<input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Split Samples: <input type="checkbox"/> Accepted <input checked="" type="checkbox"/> Declined	
[Signature]		10/20/00		[Signature]		11:00 10:30		[Signature]	

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

RECEIVED

JAN 16 2001

HYDROMETRICS, INC.

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001839-001	01-NOV-00	EPRI-0011-223	AS	<0.005	ppm	CH	11-DEC-00	180	6020
			CA	<1.0	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	<1.0	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	07-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	<0.050	ppm	EH	17-NOV-00	28	340.2
			FE	<0.10	ppm	MK	29-NOV-00	180	6010
			HCO3	<1.0	ppm	DC	07-NOV-00	14	310.1
			K	2.2	ppm	MK	29-NOV-00	180	6010
			MG	<1.0	ppm	MK	29-NOV-00	180	6010
			NA	<2.0	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	0.090	ppm	MK	29-NOV-00	180	6010
			PB	<0.003	ppm	JN	28-NOV-00	28	353.2
			PH	4.6	pH	DC	11-DEC-00	180	6020
			SE	<0.005	ppm	CH	11-DEC-00	180	150.1
			SO4=	<2.0	ppm	JN	29-NOV-00	28	9036
			TDS	11.	ppm	BD	07-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	07-NOV-00		160.2
			ZN	0.046	ppm	MK	29-NOV-00	180	6010
L001839-002	01-NOV-00	EPRI-0011-138	AS	0.11	ppm	CH	11-DEC-00	180	6020
			CA	299.	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	421.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	07-NOV-00		310.1
			COND.	5740.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	0.90	ppm	EH	17-NOV-00	28	340.2
			FE	<0.10	ppm	MK	29-NOV-00	180	6010
			HCO3	226.	ppm	DC	07-NOV-00	14	310.1
			K	16.	ppm	MK	29-NOV-00	180	6010
			MG	135.	ppm	MK	29-NOV-00	180	6010
			NA	744.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	67.	ppm	JN	28-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L001839-002	01-NOV-00	EPRI-0011-138	PH	7.6	PH	DC	07-NOV-00	150.1	
			SE	0.23	ppm	CH	11-DEC-00	180	6020
			SO4=	2260.	ppm	JN	29-NOV-00	28	9036
			TDS	4566.	ppm	BD	07-NOV-00	7	160.1
			TSS	1.2	ppm	BD	07-NOV-00		160.2
			ZN	0.035	ppm	MK	29-NOV-00	180	6010
			AS	0.57	ppm	CH	11-DEC-00	180	6020
			CA	266.	ppm	MK	29-NOV-00	180	6010
			CD	0.006	ppm	CH	11-DEC-00	180	6020
			CL-	506.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
			COND.	5980.	umhos/cm2	BD	08-NOV-00	28	120.1
L001839-003	01-NOV-00	EPRI 0011 137	CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.1	ppm	EH	17-NOV-00	28	340.2
			FE	<0.10	ppm	MK	29-NOV-00	180	6010
			HCO3	240.	ppm CaCO3	DC	07-NOV-00	14	310.1
			K	19.	ppm	MK	29-NOV-00	180	6010
			MG	133.	ppm	MK	29-NOV-00	180	6010
			NA	869.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	41.	ppm	JN	28-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.5	PH	DC	07-NOV-00		150.1
			SE	0.21	ppm	CH	11-DEC-00	180	6020
			SO4=	2308.	ppm	JN	29-NOV-00	28	9036
			TDS	4643.	ppm	BD	07-NOV-00	7	160.1
			TSS	2.8	ppm	BD	07-NOV-00		160.2
			ZN	0.15	ppm	MK	29-NOV-00	180	6010
			AS	0.58	ppm	CH	11-DEC-00	180	6020
			CA	248.	ppm	MK	29-NOV-00	180	6010
			CD	0.006	ppm	CH	11-DEC-00	180	6020
			CL-	487.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
L001839-004	01-NOV-00	EPRI-0011-224	COND.	6010.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.0	ppm	EH	17-NOV-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER
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El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	PRYS METHOD
L001839-004	01-NOV-00	EPRI-0011-224	FE	<0.10	ppm	MK	29-NOV-00	180	6010
			HCO3	242.	ppm	DC	07-NOV-00	14	310.1
			K	15.	ppm	MK	29-NOV-00	180	6010
			MG	123.	ppm	MK	29-NOV-00	180	6010
			NA	808.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	48.	ppm	JN	28-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.6	pH	DC	07-NOV-00		150.1
			SE	0.22	ppm	CH	11-DEC-00	180	6020
			SO4=	2290.	ppm	JN	29-NOV-00	28	9036
			TDS	4628.	ppm	BD	07-NOV-00	7	160.1
			TSS	2.7	ppm	BD	07-NOV-00		160.2
			ZN	0.16	ppm	MK	29-NOV-00	180	6010
			AS	0.14	ppm	CH	11-DEC-00	180	6020
			CA	244.	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	386.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	07-NOV-00		310.1
			COND.	6990.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
L001839-005	01-NOV-00	EPRI-0011-139	CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.2	ppm	EH	17-NOV-00	28	340.2
			FE	0.22	ppm	MK	29-NOV-00	180	6010
			HCO3	280.	ppm	DC	07-NOV-00	14	310.1
			K	15.	ppm	MK	29-NOV-00	180	6010
			MG	215.	ppm	MK	29-NOV-00	180	6010
			NA	1081.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	34.	ppm	JN	28-NOV-00	28	353.2
			PB	0.007	ppm	CH	11-DEC-00	180	6020
			PH	7.6	pH	DC	07-NOV-00		150.1
			SE	5.2	ppm	CH	18-DEC-00	180	6020
			SO4=	2957.	ppm	JN	29-NOV-00	28	9036
			TDS	5901.	ppm	BD	07-NOV-00	7	160.1
			TSS	4.6	ppm	BD	07-NOV-00		160.2
			ZN	0.068	ppm	MK	29-NOV-00	180	6010
			AS	<0.005	ppm	CH	11-DEC-00	180	6020
			CA	390.	ppm	MK	29-NOV-00	180	6010
L001839-006	01-NOV-00	EPRI-0011-197	AS	<0.005	ppm	CH	11-DEC-00	180	6020
			CA	390.	ppm	MK	29-NOV-00	180	6010

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Batch No: L001839

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001839-006	01-NOV-00	EPRI-0011 197	CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	3521.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
			COND.	11220.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.3	ppm	EH	17-NOV-00	28	340.2
			FE	<0.10	ppm	MK	29-NOV-00	180	6010
			HCO3	134.	ppm CaCO3	DC	07-NOV-00	14	310.1
			K	28.	ppm	MK	29-NOV-00	180	6010
			MG	174.	ppm	MK	29-NOV-00	180	6010
			NA	1378.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	0.18	ppm	JN	28-NOV-00	28	353.2
			PE	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.7	pH	DC	07-NOV-00		150.1
			SE	0.006	ppm	CH	11-DEC-00	180	6020
			SO4=	531.	ppm	JN	29-NOV-00	28	9036
			TDS	6920.	ppm	BD	07-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	07-NOV-00		160.2
			ZN	0.057	ppm	MK	29-NOV-00	180	6010
L001839-007	01-NOV-00	EPRI-0011-196	AS	0.56	ppm	CH	11-DEC-00	180	6020
			CA	173.	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	347.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
			COND.	3980.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.3	ppm	EH	17-NOV-00	28	340.2
			FE	0.94	ppm	MK	29-NOV-00	180	6010
			HCO3	243.	ppm CaCO3	DC	07-NOV-00	14	310.1
			K	14.	ppm	MK	29-NOV-00	180	6010
			MG	63.	ppm	MK	29-NOV-00	180	6010
			NA	632.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	24.	ppm	JN	28-NOV-00	28	353.2
			PE	0.004	ppm	CH	11-DEC-00	180	6020
			PH	7.6	pH	DC	07-NOV-00		150.1
			SE	0.10	ppm	CH	11-DEC-00	180	6020

ASARCO TECHNICAL SERVICES CENTER

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001839-007	01-NOV-00	EPRI-0011-196	SO4=	1144.	ppm	JN	29-NOV-00	28	9036
			TDS	2934.	ppm	BD	07-NOV-00	7	160.1
			TSS	24.	ppm	BD	07-NOV-00		160.2
			ZN	0.049	ppm	MK	29-NOV-00	180	6010
			AS	0.099	ppm	CH	11-DEC-00	180	6020
			CA	127.	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	340.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	07-NOV-00		310.1
			COND.	3410.	umhos/cm2	BD	08-NOV-00	28	120.1
L001839-008	01-NOV-00	EPRI-0011-169	CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	0.036	ppm	CH	11-DEC-00		6020
			F-	3.4	ppm	EH	17-NOV-00	28	340.2
			FE	0.59	ppm	MK	29-NOV-00	180	6010
			HCO3	110.	ppm	DC	07-NOV-00	14	310.1
			K	16.	ppm	MK	29-NOV-00	180	6010
			MG	46.	ppm	MK	29-NOV-00	180	6010
			NA	472.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	0.72	ppm	MK	29-NOV-00	180	6010
			PB	0.012	ppm	JN	28-NOV-00	28	353.2
L001839-009	01-NOV-00	EPRI-0011-168	PH	8.1	ppm	CH	11-DEC-00	180	6020
			SE	0.024	ppm	CH	07-NOV-00		150.1
			SO4=	1075.	ppm	JN	11-DEC-00	180	6020
			TDS	2455.	ppm	JN	29-NOV-00	28	9036
			TSS	3.6	ppm	BD	07-NOV-00	7	160.1
			ZN	0.083	ppm	BD	07-NOV-00		160.2
			AS	0.091	ppm	MK	29-NOV-00	180	6010
			CA	114.	ppm	CH	11-DEC-00	180	6020
			CD	<0.005	ppm	MK	29-NOV-00	180	6010
			CL-	451.	ppm	CH	11-DEC-00	180	6020
			CO3	<1.0	ppm	JN	27-NOV-00	28	325.2
			COND.	4440.	umhos/cm2	CH	07-NOV-00		310.1
			CR	<0.010	ppm	BD	08-NOV-00	28	120.1
			CU	<0.025	ppm	CH	11-DEC-00	180	6020
			F-	2.2	ppm	CH	11-DEC-00		6020
			FE	1.4	ppm	EH	17-NOV-00	28	340.2
			HCO3	330.	ppm	MK	29-NOV-00	180	6010
					ppm	CaCO3	07-NOV-00	14	310.1

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El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	DATE HOLD
L001839-009	01-NOV-00	EPRI-0011-168	K	22.	ppm	MK	29-NOV-00	180
			MG	63.	ppm	MK	29-NOV-00	180
			NA	695.	ppm	MK	29-NOV-00	180
			NO2/NO3	7.7	ppm	JN	28-NOV-00	28
			PH	0.011	ppm	CH	11-DEC-00	180
			SE	7.8	PH	DC	07-NOV-00	150.1
			SO4=	0.097	ppm	CH	11-DEC-00	180
			TDS	1230.	ppm	JN	29-NOV-00	28
			TSS	3155.	ppm	BD	07-NOV-00	7
			TSS	61.	ppm	BD	07-NOV-00	160.1
			ZN	0.066	ppm	MK	29-NOV-00	180
								6010
			AS	0.007	ppm	CH	11-DEC-00	180
			CA	219.	ppm	MK	29-NOV-00	180
			CD	<0.005	ppm	CH	11-DEC-00	180
			CL-	354.	ppm	JN	27-NOV-00	28
			CO3	<1.0	ppm	CaCO3	07-NOV-00	310.1
			COND.	4710.	umhos/cm2	BD	08-NOV-00	28
			CR	<0.010	ppm	CH	11-DEC-00	180
L001839-010	02-NOV-00	EPRI-0011-170	CU	<0.025	ppm	CH	11-DEC-00	180
			F-	0.89	ppm	EH	17-NOV-00	28
			FE	0.83	ppm	MK	29-NOV-00	180
			HCO3	244.	ppm	DC	07-NOV-00	14
			K	17.	ppm	MK	29-NOV-00	180
			MG	96.	ppm	MK	29-NOV-00	180
			NA	653.	ppm	MK	29-NOV-00	180
			NO2/NO3	12.	ppm	JN	28-NOV-00	28
			PH	<0.003	ppm	CH	11-DEC-00	180
			PH	7.6	PH	DC	07-NOV-00	150.1
			SE	0.12	ppm	CH	11-DEC-00	180
			SO4=	1871.	ppm	JN	29-NOV-00	28
			TDS	3683.	ppm	BD	07-NOV-00	7
			TSS	24.	ppm	BD	07-NOV-00	160.1
			ZN	0.041	ppm	MK	29-NOV-00	180
								6010
			AS	0.008	ppm	CH	11-DEC-00	180
			CA	195.	ppm	MK	29-NOV-00	180
			CD	<0.005	ppm	CH	11-DEC-00	180
L001839-011	02-NOV-00	EPRI-0011-107	CL-	373.	ppm	JN	27-NOV-00	28
								325.2

ASARCO TECHNICAL SERVICES CENTER

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Batch No: L001839

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001839-011	02-NOV-00	EPRI-0011-107	CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
			COND.	4460.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	0.87	ppm	EH	17-NOV-00	28	340.2
			FE	2.1	ppm	MK	29-NOV-00	180	6010
			HCO3	296.	ppm CaCO3	DC	07-NOV-00	14	310.1
			K	9.2	ppm	MK	29-NOV-00	180	6010
			MG	68.	ppm	MK	29-NOV-00	180	6010
			NA	702.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	38.	ppm	JN	28-NOV-00	28	353.2
			PB	0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.7	pH	DC	07-NOV-00		150.1
			SE	0.31	ppm	CH	11-DEC-00	180	6020
			SO4=	1323.	ppm	JN	29-NOV-00	28	9036
			TDS	3351.	ppm	BD	07-NOV-00	7	160.1
			TSS	61.	ppm	BD	07-NOV-00		160.2
			ZN	0.041	ppm	MK	29-NOV-00	180	6010
			AS	0.009	ppm	CH	11-DEC-00	180	6020
			CA	182.	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	377.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
			COND.	4480.	umhos/cm2	BD	08-NOV-00	28	120.1
L001839-012	02-NOV-00	EPRI-0011-225	CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	0.85	ppm	CH	17-NOV-00	28	340.2
			FE	1.4	ppm	EH	29-NOV-00	180	6010
			HCO3	288.	ppm CaCO3	DC	07-NOV-00	14	310.1
			K	8.8	ppm	MK	29-NOV-00	180	6010
			MG	66.	ppm	MK	29-NOV-00	180	6010
			NA	680.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	41.	ppm	JN	28-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.6	pH	DC	07-NOV-00		150.1
			SE	0.32	ppm	CH	11-DEC-00	180	6020
			SO4=	1354.	ppm	JN	29-NOV-00	28	9036
			TDS	3342.	ppm	BD	07-NOV-00	7	160.1

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El Paso

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Batch No: L001839

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001839-012	02-NOV-00	EPRI-0011-225	TSS	59.	ppm	BD	07-NOV-00	160.2	
			ZN	0.033	ppm	MK	29-NOV-00	180	6010
			AS	0.008	ppm	CH	11-DEC-00	180	6020
			CA	62.	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL	186.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	07-NOV-00		310.1
			COND.	1564.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	0.64	ppm	EH	17-NOV-00	28	340.2
			FE	0.33	ppm	MK	29-NOV-00	180	6010
			HCO3	133.	ppm	CaCO3	07-NOV-00	14	310.1
			K	3.4	ppm	MK	29-NOV-00	180	6010
			MG	20.	ppm	MK	29-NOV-00	180	6010
			NA	218.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	3.4	ppm	JN	28-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	7.8	pH	DC	07-NOV-00		150.1
			SE	0.27	ppm	CH	11-DEC-00	180	6020
			SO4=	338.	ppm	JN	29-NOV-00	28	9036
			TDS	1016.	ppm	BD	07-NOV-00	7	160.1
			TSS	6.2	ppm	BD	07-NOV-00		160.2
			ZN	0.029	ppm	MK	29-NOV-00	180	6010
			AS	<0.005	ppm	CH	11-DEC-00	180	6020
			CA	<1.0	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	<1.0	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	07-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	<0.050	ppm	EH	17-NOV-00	28	340.2
			FE	<0.10	ppm	MK	29-NOV-00	180	6010
			HCO3	<1.0	ppm	CaCO3	07-NOV-00	14	310.1
			K	<2.0	ppm	DC	29-NOV-00	180	6010
			MG	<1.0	ppm	MK	29-NOV-00	180	6010

L001839-014 02-NOV-00 EPRI-0011-226

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001839-014	02-NOV-00	EPRI-0011-226	NA	<2.0	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	0.090	ppm	JN	28-NOV-00	28	353.2
			PB	<0.003	ppm	CH	11-DEC-00	180	6020
			PH	5.5	pH	DC	07-NOV-00		150.1
			SE	<0.005	ppm	CH	11-DEC-00	180	6020
			SO4=	<2.0	ppm	JN	29-NOV-00	28	9036
			TDS	12.	ppm	BD	07-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	07-NOV-00		160.2
			ZN	0.042	ppm	MK	29-NOV-00	180	6010
			AS	1.4	ppm	MK	29-NOV-00	180	6010
			CA	300.	ppm	MK	29-NOV-00	180	6010
			CD	<0.005	ppm	CH	11-DEC-00	180	6020
			CL-	413.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
			COND.	5040.	umhos/cm2	BD	08-NOV-00	28	120.1
L001839-015	02-NOV-00	EPRI-0011-106	CR	<0.010	ppm	CH	11-DEC-00	180	6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.6	ppm	EH	17-NOV-00	28	340.2
			FE	0.41	ppm	MK	29-NOV-00	180	6010
			HCO3	320.	ppm CaCO3	DC	07-NOV-00	14	310.1
			K	43.	ppm	MK	29-NOV-00	180	6010
			MG	76.	ppm	MK	29-NOV-00	180	6010
			NA	644.	ppm	MK	29-NOV-00	180	6010
			NO2/NO3	16.	ppm	JN	28-NOV-00	28	353.2
			PB	0.004	ppm	CH	11-DEC-00	180	6020
			PH	7.5	pH	DC	07-NOV-00		150.1
			SE	0.20	ppm	CH	11-DEC-00	180	6020
			SO4=	1800.	ppm	JN	29-NOV-00	28	9036
			TDS	3979.	ppm	BD	07-NOV-00	7	160.1
			TSS	4.0	ppm	BD	07-NOV-00		160.2
L001839-016	02-NOV-00	EPRI-0011-105	ZN	0.035	ppm	MK	29-NOV-00	180	6010
			AS	29.	ppm	MK	29-NOV-00	180	6010
			CA	281.	ppm	MK	29-NOV-00	180	6010
			CD	0.56	ppm	CH	11-DEC-00	180	6020
			CL-	630.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
			COND.	9700.	umhos/cm2	BD	08-NOV-00	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L001839-016	02-NOV-00	EPRI-0011-105	CR	<0.010	ppm	CH	11-DEC-00	180
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	1.5	ppm	EH	17-NOV-00	28
			FE	0.25	ppm	MK	29-NOV-00	180
			HCO3	301.	ppm CaCO3	DC	07-NOV-00	14
			K	61.	ppm	MK	29-NOV-00	180
			MG	47.	ppm	MK	29-NOV-00	180
			NA	2292.	ppm	MK	08-DEC-00	180
			NO2/NO3	91.	ppm	JN	28-NOV-00	28
			PB	0.009	ppm	JN	11-DEC-00	180
			PH	7.7	pH	DC	07-NOV-00	150.1
			SE	5.3	ppm	CH	11-DEC-00	180
			SO4=	4033.	ppm	JN	29-NOV-00	28
			TDS	7754.	ppm	BD	07-NOV-00	7
			TSS	5.4	ppm	BD	07-NOV-00	160.1
			ZN	0.050	ppm	MK	29-NOV-00	180
								6010
L001839-017	02-NOV-00	EPRI-0011-165	AS	7.3	ppm	MK	29-NOV-00	180
			CA	178.	ppm	MK	29-NOV-00	180
			CD	1.7	ppm	CH	11-DEC-00	180
			CL-	898.	ppm	JN	27-NOV-00	28
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00	310.1
			COND.	9470.	umhos/cm2	BD	08-NOV-00	28
			CR	<0.010	ppm	CH	11-DEC-00	180
			CU	0.029.	ppm	CH	11-DEC-00	6020
			F-	1.5	ppm	EH	17-NOV-00	28
			FE	1.8	ppm	MK	29-NOV-00	180
			HCO3	237.	ppm CaCO3	DC	07-NOV-00	14
			K	59.	ppm	MK	29-NOV-00	180
			MG	56.	ppm	MK	08-DEC-00	180
			NA	2052.	ppm	MK	28-NOV-00	28
			NO2/NO3	100.	ppm	JN	29-NOV-00	180
			PB	0.011	ppm	CH	11-DEC-00	180
			PH	7.6	pH	DC	07-NOV-00	150.1
			SE	3.3	ppm	CH	18-DEC-00	180
			SO4=	3262.	ppm	JN	29-NOV-00	28
			TDS	7030.	ppm	BD	07-NOV-00	7
			TSS	63.	ppm	BD	07-NOV-00	160.1
			ZN	0.34	ppm	MK	29-NOV-00	180
								6010

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001839

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	ANALYSIS METHOD
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PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for Totals --- 3010 and 6020.

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste Project 3220)

Batch No: L001839

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

MS
Approved
Reviewer

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001172

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001172-1		Matrix Spike	AS	101	%Recovery	CH	11-DEC-00		6020
			CD	90	%Recovery	CH	11-DEC-00		6020
			CL-	104	%Recovery	JN	27-NOV-00		325.2
			CR	97	%Recovery	CH	11-DEC-00		6020
			CU	86	%Recovery	CH	11-DEC-00		6020
			F-	95	%Recovery	EH	17-NOV-00		340.2
			FE	85	%Recovery	MK	29-NOV-00		6010
			NO2/NO3	84	%Recovery	JN	28-NOV-00		353.2
			PB	88	%Recovery	CH	11-DEC-00		6020
			SE	101	%Recovery	CH	11-DEC-00		6020
			SO4=	89	%Recovery	JN	29-NOV-00		9036
			ZN	84	%Recovery	MK	29-NOV-00		6010
			AS	<0.005	ppm	CH	11-DEC-00		6020
			CA	<1.0	ppm	MK	29-NOV-00		6010
			CD	<0.005	ppm	CH	11-DEC-00		6020
			CL-	<1.0	ppm	JN	27-NOV-00		325.2
			CO3	<1.0	ppm CaCO3	CH	07-NOV-00		310.1
WG001172-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	08-NOV-00		120.1
			CR	<0.010	ppm	CH	11-DEC-00		6020
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	<0.050	ppm	EH	17-NOV-00		340.2
			FE	<0.10	ppm	MK	29-NOV-00		6010
			HCO3	<1.0	ppm CaCO3	DC	07-NOV-00		310.1
			K	<2.0	ppm	MK	29-NOV-00		6010
			MG	<1.0	ppm	MK	29-NOV-00		6010
			NA	<2.0	ppm	MK	29-NOV-00		6010
			NO2/NO3	<0.050	ppm	JN	28-NOV-00		353.2
			PB	<0.003	ppm	CH	11-DEC-00		6020
			SE	<0.005	ppm	CH	11-DEC-00		6020
			SO4=	<2.0	ppm	JN	29-NOV-00		9036
			TDS	<10	ppm	BD	07-NOV-00		160.1
			TSS	<1.0	ppm	BD	07-NOV-00		160.2
			ZN	<0.020	ppm	MK	29-NOV-00		6010
WG001172-3		Lab Control Sample	AS	103	%Recovery	CH	11-DEC-00		6020
			CA	80	%Recovery	MK	29-NOV-00		6010
			CD	102	%Recovery	CH	11-DEC-00		6020
			CL-	92	%Recovery	JN	27-NOV-00		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001172

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001172-3		Lab Control Sample	COND.	99	% Recovery	BD	08-NOV-00	120.1	
			CR	80	% Recovery	CH	11-DEC-00	6020	
			CU	95	% Recovery	CH	11-DEC-00	6020	
			F-	100	% Recovery	EH	17-NOV-00	340.2	
			FE	85	% Recovery	MK	29-NOV-00	6010	
			HCO3	100	% Recovery	DC	07-NOV-00	310.1	
			K	93	% Recovery	MK	29-NOV-00	6010	
			MG	88	% Recovery	MK	29-NOV-00	6010	
			NA	90	% Recovery	MK	29-NOV-00	6010	
			NO2/NO3	101	% Recovery	JN	28-NOV-00	353.2	
			PB	104	% Recovery	CH	11-DEC-00	6020	
			SE	103	% Recovery	CH	11-DEC-00	6020	
			SO4=	95	% Recovery	JN	29-NOV-00	9036	
			TDS	107	% Recovery	BD	07-NOV-00	160.1	
			TSS	101	% Recovery	BD	07-NOV-00	160.2	
			ZN	83	% Recovery	MK	29-NOV-00	6010	
			CL-	3.9	% RPD	JN	27-NOV-00	325.2	
			CO3	<1	% RPD	CH	07-NOV-00	310.1	
			COND.	<1	% RPD	BD	08-NOV-00	120.1	
			F-	<1	% RPD	EH	17-NOV-00	340.2	
			HCO3	<1	% RPD	DC	07-NOV-00	310.1	
WG001172-4		Duplicate	NO2/NO3	3.2	% RPD	JN	28-NOV-00	353.2	
			SO4=	9.8	% RPD	JN	29-NOV-00	9036	
			TDS	<1	% RPD	BD	07-NOV-00	160.1	
			TSS	1.6	% RPD	BD	07-NOV-00	160.2	
			AS	1.3	% RPD	CH	11-DEC-00	6020	
			CA	1.9	% RPD	MK	29-NOV-00	6010	
			CD	<1	% RPD	CH	11-DEC-00	6020	
			CR	2.5	% RPD	CH	11-DEC-00	6020	
			CU	2.3	% RPD	CH	11-DEC-00	6020	
			FE	<1	% RPD	MK	29-NOV-00	6010	
			K	5.8	% RPD	MK	29-NOV-00	6010	
			MG	<1	% RPD	MK	29-NOV-00	6010	
			NA	5.6	% RPD	MK	29-NOV-00	6010	
			PB	8.0	% RPD	CH	11-DEC-00	6020	
WG001172-5		Matrix Spike Duplicate	SE	<1	% RPD	CH	11-DEC-00	6020	
			ZN	<1	% RPD	MK	29-NOV-00	6010	

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001172

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID DAYS METHOD
WG001172-6		Reporting Limit						
			AS	0.005	ppm			6020
			CA	1.0	ppm			6010
			CD	0.005	ppm			6020
			CL	1.0	ppm			325.2
			CO3	1.0	ppm CaCO3			310.1
			COND.	5.0	umhos/cm2			120.1
			CR	0.010	ppm			6020
			CU	0.025	ppm	CH	11-DEC-00	6020
			F-	0.050	ppm			340.2
			FE	0.10	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	0.050	ppm			353.2
			PB	0.003	ppm			6020
			SE	0.005	ppm			6020
			SO4=	2.0	ppm			9036
			TDS	10.	ppm			160.1
			TSS	1.0	ppm			160.2
			ZN	0.020	ppm			6010
WG001172-7		Matrix Spike	AS	87	%Recovery	MK	29-NOV-00	6010
WG001172-8		Prep Blank	AS	<0.020	ppm	MK	29-NOV-00	6010
WG001172-9		Lab Control Sample	AS	82	%Recovery	MK	29-NOV-00	6010
WG001172-11		Matrix Spike Duplicate	AS	<1	% RPD	MK	29-NOV-00	6010

ASARCO TECHNICAL SERVICES CENTER


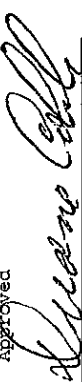
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001172

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

 Reviewer

HYDROMETRICS, INC.

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS							
0931VZ		ASARCO - EL PASO, TX		3									
SAMPLERS: (Signature) <i>Douglas W. Solon</i>													
DATE	TIME	COMP	GRAB	SAMPLE NUMBER	COMMONS UF/RAW	DISS. METAL F/HNO ₃	CN UF/NaOH	TOTAL METALS UF/HNO ₃	TOTAL RECOVERABLE METALS UF/HNO ₃	BTX	TPH	REMARKS	
11-1-00	1230			APR1-0011-223	X			X					
11-1-00	1330			EPR1-0011-138	X			X					
11-1-00	1350			APR1-0011-137	X			X					
11-1-00	1400			EPR1-0011-224	X			X					
11-1-00	1420			EPR1-0011-139	X			X					
11-1-00	1450			EPR1-0011-197	X			X					
11-1-00	1530			EPR1-0011-196	X			X					
11-1-00	1600			EPR1-0011-169	X			X					
11-1-00	1630			EPR1-0011-168	X			X					
11-2-00	1000			EPR1-0011-170	X			X					
11-2-00	1030			APR1-0011-107	X			X					
11-2-00	1035			EPR1-0011-225	X			X					
11-2-00	1110			EPR1-0011-167	X			X					
11-2-00	1320			EPR1-0011-226	X			X					
11-2-00	1440			EPR1-0011-106	X			X					
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS					
<i>[Signature]</i>		<i>[Signature]</i>		TSC - SLC, UT				Other					
Relinquished (Signature)		Received by: (Signature)		Remarks				Air Bill #					
<i>[Signature]</i>		<i>[Signature]</i>											
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits					
<i>[Signature]</i>		<i>[Signature]</i>		11/2/00 1600		11/2/00 1600		<input type="checkbox"/> QA/QC standard mixing instructions		<input checked="" type="checkbox"/> Cover letter			
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Date/Time		Enclosed: <input type="checkbox"/> QA/QC standard mixing instructions		<input type="checkbox"/> Other			
<i>[Signature]</i>		<i>[Signature]</i>						<input type="checkbox"/> Other					

HFORM-1-4/95

Return results & electronic copy to:

Computer Dept at address after 3 days

Spill Samples:

☒ Accepted ☐ Declined

Signature

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	REID
L001857-001	03-NOV-00	EPRI-0011-166	AS	0.24	ppm	CH	02-JAN-01	180
			CA	93.	ppm	MK	07-DEC-00	180
			CD	0.053	ppm	CH	02-JAN-01	180
			CL-	111.	ppm	JN	27-NOV-00	28
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00	325.2
			COND.	2370.	umhos/cm2	BD	08-NOV-00	310.1
			CR	<0.010	ppm	CH	02-JAN-01	180
			CU	<0.025	ppm	CH	02-JAN-01	6020
			F-	2.2	ppm	EH	20-NOV-00	28
			FE	1.1	ppm	MK	07-DEC-00	340.2
			HCO3	260.	ppm	MK	07-DEC-00	180
			K	127.	ppm CaCO3	DC	10-NOV-00	14
			MG	17.	ppm	MK	07-DEC-00	310.1
			NA	306.	ppm	MK	07-DEC-00	180
			NO2/NO3	5.2	ppm	MK	07-DEC-00	6010
			PB	0.007	ppm	JN	03-DEC-00	28
			PH	7.7	ppm	CH	02-JAN-01	353.2
			SE	2.4	pH	DC	10-NOV-00	180
			SO4=	597.	ppm	CH	02-JAN-01	150.1
			TDS	1556.	ppm	JN	29-NOV-00	180
			TSS	14.	ppm	BD	10-NOV-00	28
			ZN	0.063	ppm	BD	09-NOV-00	9036
					ppm	CH	02-JAN-01	7
L001857-002	03-NOV-00	EPRI-0011-156	AS	0.14	ppm	CH	02-JAN-01	180
			CA	242.	ppm	CH	02-JAN-01	6020
			CD	0.008	ppm	MK	07-DEC-00	180
			CL-	469.	ppm	CH	02-JAN-01	6010
			CO3	<1.0	ppm	JN	27-NOV-00	28
			COND.	5330.	ppm CaCO3	DC	10-NOV-00	325.2
			CR	<0.010	umhos/cm2	BD	08-NOV-00	310.1
			CU	<0.025	ppm	CH	02-JAN-01	120.1
			F-	0.49	ppm	CH	02-JAN-01	6020
			FE	0.97	ppm	EH	20-NOV-00	28
			HCO3	277.	ppm	MK	07-DEC-00	340.2
			K	14.	ppm CaCO3	DC	10-NOV-00	6010
			MG	116.	ppm	MK	07-DEC-00	14
			NA	832.	ppm	MK	07-DEC-00	180
			NO2/NO3	38.	ppm	MK	07-DEC-00	6010
			PB	<0.003	ppm	JN	30-NOV-00	180
					ppm	CH	02-JAN-01	353.2
							02-JAN-01	6020

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Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001857-002	03-NOV-00	EPRI-0011-156	PH	7.6	pH	DC	10-NOV-00	150.1	
			SE	1.5	ppm	CH	02-JAN-01	180	6020
			SO4=	1594.	ppm	JN	01-DEC-00	28	9036
			TDS	4138.	ppm	BD	10-NOV-00	7	160.1
			TSS	39.	ppm	BD	09-NOV-00		160.2
			ZN	0.027	ppm	CH	02-JAN-01	180	6020
			AS	0.14	ppm	CH	02-JAN-01	180	6020
			CA	232.	ppm	MK	07-DEC-00	180	6010
			CD	0.008	ppm	CH	02-JAN-01	180	6020
			CL-	486.	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	10-NOV-00		310.1
			COND.	5360.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	0.50	ppm	EH	20-NOV-00	28	340.2
			FE	0.98	ppm	MK	07-DEC-00	180	6010
L001857-003	03-NOV-00	EPRI-0011-227	HCO3	275.	ppm	CaCO3	10-NOV-00	14	310.1
			K	14.	ppm	DC	07-DEC-00	180	6010
			MG	113.	ppm	MK	07-DEC-00	180	6010
			NA	884.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	33.	ppm	JN	30-NOV-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.7	pH	DC	10-NOV-00		150.1
			SE	1.5	ppm	CH	02-JAN-01	180	6020
			SO4=	1727.	ppm	JN	01-DEC-00	28	9036
			TDS	4143.	ppm	BD	10-NOV-00	7	160.1
			TSS	100.	ppm	BD	09-NOV-00		160.2
			ZN	0.025	ppm	CH	02-JAN-01	180	6020
			AS	6.2	ppm	MK	12-DEC-00	180	6010
			CA	101.	ppm	MK	07-DEC-00	180	6010
			CD	0.008	ppm	CH	02-JAN-01	180	6020
			CL-	369.	ppm	JN	27-NOV-00	28	325.2
L001857-004	03-NOV-00	EPRI-0011-143	CO3	<1.0	ppm	CaCO3	10-NOV-00		310.1
			COND.	4320.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	4.3	ppm	EH	20-NOV-00	28	340.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		SOLD
							ANALYZED	BY	
L001857-004	03-NOV-00	EPRI-0011-143	FE	0.46	ppm	MK	07-DEC-00	180	6010
			HCO3	301.	ppm	DC	10-NOV-00	14	310.1
			K	22.	ppm	MK	07-DEC-00	180	6010
			MG	26.	ppm	MK	07-DEC-00	180	6010
			NA	706.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	0.67	ppm	JN	30-NOV-00	28	353.2
			PB	0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.8	pH	IC	10-NOV-00		150.1
			SE	0.021	ppm	CH	02-JAN-01	180	6020
			SO4=	1055.	ppm	JN	01-DEC-00	28	9036
			TDS	2604.	ppm	BD	10-NOV-00	7	160.1
			TSS	14.	ppm	BD	09-NOV-00		160.2
			ZN	0.025	ppm	CH	02-JAN-01	180	6020
			AS	1.7	ppm	MK	12-DEC-00	180	6010
			CA	75.	ppm	MK	07-DEC-00	180	6010
			CD	0.008	ppm	CH	02-JAN-01	180	6020
			CL-	335.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm	DC	10-NOV-00		310.1
			COND.	3030.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
L001857-005	03-NOV-00	EPRI-0011-198	CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	4.7	ppm	EH	20-NOV-00	28	340.2
			FE	0.94	ppm	MK	07-DEC-00	180	6010
			HCO3	140.	ppm	DC	10-NOV-00	14	310.1
			K	34.	ppm	MK	07-DEC-00	180	6010
			MG	18.	ppm	MK	07-DEC-00	180	6010
			NA	550.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	0.067	ppm	JN	30-NOV-00	28	353.2
			PB	0.006	ppm	CH	02-JAN-01	180	6020
			PH	8.0	pH	DC	10-NOV-00		150.1
			SE	<0.005	ppm	CH	02-JAN-01	180	6020
			SO4=	839.	ppm	JN	29-NOV-00	28	9036
			TDS	1998.	ppm	BD	10-NOV-00	7	160.1
			TSS	3.0	ppm	BD	09-NOV-00		160.2
			ZN	0.076	ppm	CH	02-JAN-01	180	6020
			AS	0.024	ppm	CH	02-JAN-01	180	6020
			CA	106.	ppm	MK	07-DEC-00	180	6010
L001857-006	03-NOV-00	EPRI-0011-199							

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ANALYTICAL DATA REPORT

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Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID	PRYS	METHOD
L001857-006	03-NOV-00	EPRI-0011-199	CD	<0.005	ppm	CH	02-JAN-01	180	6020	
			CL-	443.	ppm	JN	30-NOV-00	28	325.2	
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1	
			COND.	4280.	unthos/cm2	BD	08-NOV-00	28	120.1	
			CR	<0.010	ppm	CH	02-JAN-01	180	6020	
			CU	<0.025	ppm	CH	02-JAN-01		6020	
			F-	2.0	ppm	EH	20-NOV-00	28	340.2	
			FE	0.12	ppm	MK	07-DEC-00	180	6010	
			HCO3	330.	ppm CaCO3	DC	10-NOV-00	14	310.1	
			K	16.	ppm	MK	07-DEC-00	180	6010	
			MG	62.	ppm	MK	07-DEC-00	180	6010	
			NA	731.	ppm	MK	07-DEC-00	180	6010	
			NO2/NO3	6.5	ppm	JN	30-NOV-00	28	353.2	
			PE	0.004	ppm	CH	02-JAN-01	180	6020	
			PH	7.8	pH	DC	10-NOV-00		150.1	
			SE	0.076	ppm	CH	02-JAN-01	180	6020	
			SO4=	1198.	ppm	JN	01-DEC-00	28	9036	
			TDS	2937.	ppm	BD	10-NOV-00	7	160.1	
			TSS	1.6	ppm	BD	09-NOV-00		160.2	
			ZN	0.035	ppm	CH	02-JAN-01	180	6020	
L001857-007	03-NOV-00	EPRI-0011-110	AS	2.6	ppm	MK	12-DEC-00	180	6010	
			CA	441.	ppm	MK	07-DEC-00	180	6010	
			CD	0.009	ppm	CH	02-JAN-01	180	6020	
			CL-	534.	ppm	JN	30-NOV-00	28	325.2	
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1	
			COND.	10850.	unthos/cm2	BD	08-NOV-00	28	120.1	
			CR	<0.010	ppm	CH	02-JAN-01	180	6020	
			CU	0.026	ppm	CH	02-JAN-01		6020	
			F-	2.5	ppm	EH	20-NOV-00	28	340.2	
			FE	0.19	ppm	MK	07-DEC-00	180	6010	
			HCO3	499.	ppm CaCO3	DC	10-NOV-00	14	310.1	
			K	106.	ppm	MK	07-DEC-00	180	6010	
			MG	198.	ppm	MK	07-DEC-00	180	6010	
			NA	1632.	ppm	MK	12-DEC-00	180	6010	
			NO2/NO3	32.	ppm	JN	30-NOV-00	28	353.2	
			PB	<0.003	ppm	CH	02-JAN-01	180	6020	
			PH	7.7	pH	DC	10-NOV-00		150.1	
			SE	1.1	ppm	CH	02-JAN-01	180	6020	

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Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001857-007	03-NOV-00	EPRI-0011-110	SO4=	4130.	ppm	JN	01-DEC-00	28	9036
			TDS	7323.	ppm	BD	10-NOV-00	7	160.1
			TSS	101.	ppm	BD	09-NOV-00		160.2
			ZN	0.23	ppm	CH	02-JAN-01	180	6020
			AS	<0.005	ppm	CH	02-JAN-01	180	6020
			CA	<1.0	ppm	MK	07-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	<1.0	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-NOV-00	28	120.1
L001857-008	03-NOV-00	EPRI-0011-228	CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	<0.050	ppm	EH	20-NOV-00	28	340.2
			FE	<0.10	ppm	MK	07-DEC-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	10-NOV-00	14	310.1
			K	<2.0	ppm	MK	07-DEC-00	180	6010
			MG	<1.0	ppm	MK	07-DEC-00	180	6010
			NA	<2.0	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	<0.050	ppm	JN	30-NOV-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
L001857-009	07-NOV-00	EPRI-0011-141	PH	5.2	pH	DC	10-NOV-00		150.1
			SE	<0.005	ppm	CH	02-JAN-01	180	6020
			SO4=	<2.0	ppm	JN	29-NOV-00	28	9036
			TDS	<10.	ppm	BD	10-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	09-NOV-00		160.2
			ZN	0.030	ppm	CH	02-JAN-01	180	6020
			AS	9.4	ppm	MK	12-DEC-00	180	6010
			CA	309.	ppm	MK	07-DEC-00	180	6010
			CD	0.009	ppm	CH	02-JAN-01	180	6020
			CL-	167.	ppm	JN	30-NOV-00	28	325.2
L001857-009	07-NOV-00	EPRI-0011-141	CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	13680.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	0.062	ppm	CH	02-JAN-01		6020
			F-	1.3	ppm	EH	20-NOV-00	28	340.2
			FE	0.63	ppm	MK	07-DEC-00	180	6010
			HCO3	372.	ppm CaCO3	DC	10-NOV-00	14	310.1

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Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	CHMS METHOD
L001857-009	07-NOV-00	EPRI-0011-141	K	411.	ppm	MK	07-DEC-00	180	6010
			MG	276.	ppm	MK	07-DEC-00	180	6010
			NA	2818.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	172.	ppm	JN	06-DEC-00	28	353.2
			PB	0.018	ppm	CH	02-JAN-01	180	6020
			PH	7.5	pH	DC	10-NOV-00		150.1
			SE	2.7	ppm	CH	02-JAN-01	180	6020
			SO4=	6898.	ppm	JN	01-DEC-00	28	9036
			TDS	11913.	ppm	BD	10-NOV-00	7	160.1
			TSS	14.	ppm	BD	09-NOV-00		160.2
			ZN	0.10	ppm	CH	02-JAN-01	180	6020
			AS	1.4	ppm	MK	12-DEC-00	180	6010
			CA	159.	ppm	MK	07-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	406.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm, CaCO3	DC	10-NOV-00		310.1
L001857-010	07-NOV-00	EPRI-0011-142	COND.	5220.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	2.2	ppm	EH	20-NOV-00	28	340.2
			FE	0.17	ppm	MK	07-DEC-00	180	6010
			HCO3	397.	ppm	DC	10-NOV-00	14	310.1
			K	134.	ppm	MK	07-DEC-00	180	6010
			MG	74.	ppm	MK	07-DEC-00	180	6010
			NA	871.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	3.8	ppm	JN	30-NOV-00	28	353.2
			PB	0.010	ppm	CH	02-JAN-01	180	6020
			PH	7.9	pH	DC	10-NOV-00		150.1
			SE	0.21	ppm	CH	02-JAN-01	180	6020
			SO4=	1812.	ppm	JN	01-DEC-00	28	9036
			TDS	3829.	ppm	BD	10-NOV-00	7	160.1
			TSS	6.3	ppm	BD	09-NOV-00		160.2
L001857-011	07-NOV-00	EPRI-0011-119	ZN	0.055	ppm	CH	02-JAN-01	180	6020
			AS	0.49	ppm	CH	02-JAN-01	180	6020
			CA	639.	ppm	MK	07-DEC-00	180	6010
			CD	0.038	ppm	CH	02-JAN-01	180	6020
			CL-	2879.	ppm	JN	30-NOV-00	28	325.2

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001857-011	07-NOV-00	EPRI-0011-119	CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	12030.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	2.1	ppm	CH	02-JAN-01	180	6020
			CU	0.17	ppm	CH	02-JAN-01		6020
			F-	0.92	ppm	EH	20-NOV-00	28	340.2
			FE	8.1	ppm	MK	07-DEC-00	180	6010
			HCO3	182.	ppm CaCO3	DC	10-NOV-00	14	310.1
			K	41.	ppm	MK	07-DEC-00	180	6010
			MG	434.	ppm	MK	07-DEC-00	180	6010
			NA	1296.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	173.	ppm	JN	06-DEC-00	28	353.2
			PB	0.031	ppm	CH	02-JAN-01	180	6020
			PH	7.4	pH	DC	10-NOV-00		150.1
			SE	0.20	ppm	CH	02-JAN-01	180	6020
			SO4=	2130.	ppm	JN	01-DEC-00	28	9036
			TDS	8473.	ppm	BD	10-NOV-00	7	160.1
			TSS	39.	ppm	BD	09-NOV-00		160.2
			ZN	0.45	ppm	CH	02-JAN-01	180	6020
L001857-012	07-NOV-00	EPRI-0011-229	AS	0.42	ppm	CH	02-JAN-01	180	6020
			CA	580.	ppm	MK	07-DEC-00	180	6010
			CD	0.038	ppm	CH	02-JAN-01	180	6020
			CL-	3031.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	12390.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	1.4	ppm	CH	02-JAN-01	180	6020
			CU	0.16	ppm	CH	02-JAN-01		6020
			F-	0.91	ppm	EH	20-NOV-00	28	340.2
			FE	5.5	ppm	MK	07-DEC-00	180	6010
			HCO3	189.	ppm CaCO3	DC	10-NOV-00	14	310.1
			K	40.	ppm	MK	07-DEC-00	180	6010
			MG	400.	ppm	MK	07-DEC-00	180	6010
			NA	1271.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	173.	ppm	JN	06-DEC-00	28	353.2
			PB	0.032	ppm	CH	02-JAN-01	180	6020
			PH	7.5	pH	DC	10-NOV-00		150.1
			SE	0.20	ppm	CH	02-JAN-01	180	6020
			SO4=	1984.	ppm	JN	01-DEC-00	28	9036
			TDS	8667.	ppm	BD	10-NOV-00	7	160.1

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	METHOD
L001857-012	07-NOV-00	EPRI-0011-229	TSS	36.	ppm	BD	09-NOV-00	160.2	
			ZN	0.45	ppm	CH	02-JAN-01	180 6020	
L001857-013	07-NOV-00	EPRI-0011-164	AS	0.015	ppm	CH	02-JAN-01	180 6020	
			CA	654.	ppm	MK	07-DEC-00	180 6010	
			CD	0.020	ppm	CH	02-JAN-01	180 6020	
			CL-	1546.	ppm	JN	30-NOV-00	28 325.2	
			CO3	<1.0	ppm	CaCO3	10-NOV-00	310.1	
			COND.	10660.	umhos/cm2	BD	08-NOV-00	28 120.1	
			CR	<0.010	ppm	CH	02-JAN-01	180 6020	
			CU	<0.025	ppm	CH	02-JAN-01	6020	
			F-	1.0	ppm	EH	20-NOV-00	28 340.2	
			FE	0.79	ppm	MK	07-DEC-00	180 6010	
			HCO3	280.	ppm	CaCO3	10-NOV-00	14 310.1	
			K	36.	ppm	MK	07-DEC-00	180 6010	
			MG	338.	ppm	MK	07-DEC-00	180 6010	
			NA	1445.	ppm	MK	07-DEC-00	180 6010	
			NO2/NO3	0.085	ppm	JN	30-NOV-00	28 353.2	
			PB	<0.003	ppm	CH	02-JAN-01	180 6020	
			PH	7.4	pH	DC	10-NOV-00	150.1	
			SE	0.52	ppm	CH	02-JAN-01	180 6020	
			SO4=	2747.	ppm	JN	01-DEC-00	28 9036	
			TDS	8418.	ppm	BD	10-NOV-00	7 160.1	
L001857-014	07-NOV-00	EPRI-0011-120	TSS	34.	ppm	BD	09-NOV-00	160.2	
			ZN	0.12	ppm	CH	02-JAN-01	180 6020	
			AS	1.7	ppm	MK	12-DEC-00	180 6010	
			CA	433.	ppm	MK	07-DEC-00	180 6010	
			CD	0.45	ppm	CH	02-JAN-01	180 6020	
			CL-	1018.	ppm	JN	30-NOV-00	28 325.2	
			CO3	<1.0	ppm	CaCO3	10-NOV-00	310.1	
			COND.	11640.	umhos/cm2	BD	08-NOV-00	28 120.1	
			CR	0.19	ppm	CH	02-JAN-01	180 6020	
			CU	0.57	ppm	CH	02-JAN-01	6020	
			F-	6.0	ppm	EH	20-NOV-00	28 340.2	
			FE	6.4	ppm	MK	07-DEC-00	180 6010	
			HCO3	600.	ppm	CaCO3	10-NOV-00	14 310.1	
			K	25.	ppm	MK	07-DEC-00	180 6010	
			MG	244.	ppm	MK	07-DEC-00	180 6010	

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LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID DAYS	METHOD
L001857-014	07-NOV-00	EPRI-0011-120	NA	2126.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	95.	ppm	JN	06-DEC-00	28	353.2
			PB	1.5	ppm	CH	02-JAN-01	180	6020
			PH	7.0	pH	DC	10-NOV-00		150.1
			SE	0.18	ppm	CH	02-JAN-01	180	6020
			SO4=	4254.	ppm	JN	01-DEC-00	28	9036
			TDS	9888.	ppm	BD	10-NOV-00	7	160.1
			TSS	29.	ppm	BD	09-NOV-00		160.2
			ZN	2.8	ppm	MK	07-DEC-00	180	6010
			AS	0.025	ppm	CH	02-JAN-01	180	6020
			CA	56.	ppm	MK	07-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	434.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
L001857-015	07-NOV-00	EPRI-0011-154	COND.	5240.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	2.1	ppm	EH	20-NOV-00	28	340.2
			FE	0.16	ppm	MK	07-DEC-00	180	6010
			HCO3	515.	ppm CaCO3	DC	10-NOV-00	14	310.1
			K	8.2	ppm	MK	07-DEC-00	180	6010
			MG	35	ppm	MK	07-DEC-00	180	6010
			NA	1029.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	13.	ppm	JN	30-NOV-00	28	353.2
			PB	0.004	ppm	CH	02-JAN-01	180	6020
			PH	8.0	pH	DC	10-NOV-00		150.1
			SE	0.045	ppm	CH	02-JAN-01	180	6020
			SO4=	1509.	ppm	JN	01-DEC-00	28	9036
L001857-016	07-NOV-00	EPRI-0011-230	TDS	3643.	ppm	BD	10-NOV-00	7	160.1
			TSS	6.4	ppm	BD	09-NOV-00		160.2
			ZN	0.024	ppm	CH	02-JAN-01	180	6020
			AS	<0.005	ppm	CH	02-JAN-01	180	6020
			CA	<1.0	ppm	MK	07-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	<1.0	ppm	JN	27-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	08-NOV-00	28	120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD PERIOD
L001857-016	07-NOV-00	EPRI-0011-230	CR	<0.010	ppm	CH	02-JAN-01	180
			CU	<0.025	ppm	CH	02-JAN-01	6020
			F-	<0.050	ppm	EH	20-NOV-00	28
			FE	<0.10	ppm	MK	07-DEC-00	180
			HCO3	<1.0	ppm	CaCO3	10-NOV-00	14
			K	2.3	ppm	MK	07-DEC-00	180
			MG	<1.0	ppm	MK	07-DEC-00	180
			NA	<2.0	ppm	MK	07-DEC-00	180
			NO2/NO3	<0.050	ppm	JN	30-NOV-00	28
			PB	<0.003	ppm	CH	02-JAN-01	180
			PH	5.5	pH	DC	10-NOV-00	159.1
			SE	<0.005	ppm	CH	02-JAN-01	180
			SO4=	<2.0	ppm	JN	29-NOV-00	28
			TDS	<10	ppm	BD	10-NOV-00	7
			TSS	<1.0	ppm	BD	09-NOV-00	160.1
			ZN	<0.020	ppm	CH	02-JAN-01	180
								6020
L001857-017	07-NOV-00	EPRI-0011-140	AS	0.023	ppm	CH	02-JAN-01	180
			CA	199	ppm	MK	07-DEC-00	180
			CD	<0.005	ppm	CH	02-JAN-01	180
			CL-	450	ppm	JN	30-NOV-00	28
			CO3	<1.0	ppm	CaCO3	10-NOV-00	310.1
			COND.	6350	umhos/cm2	BD	08-NOV-00	28
			CR	<0.010	ppm	CH	02-JAN-01	180
			CU	<0.025	ppm	CH	02-JAN-01	6020
			F-	2.7	ppm	EH	20-NOV-00	28
			FE	0.38	ppm	MK	07-DEC-00	180
			HCO3	270	ppm	DC	10-NOV-00	14
			K	303	ppm	CaCO3	10-NOV-00	310.1
			MG	97	ppm	MK	07-DEC-00	180
			NA	941	ppm	MK	07-DEC-00	180
			NO2/NO3	17	ppm	JN	30-NOV-00	28
			PB	<0.003	ppm	CH	02-JAN-01	180
			PH	7.8	pH	DC	10-NOV-00	150.1
			SE	0.87	ppm	CH	02-JAN-01	180
			SO4=	2325	ppm	JN	01-DEC-00	28
			TDS	4736	ppm	BD	10-NOV-00	7
			TSS	8.2	ppm	BD	09-NOV-00	160.1
			ZN	0.028	ppm	CH	02-JAN-01	180
								6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001857-018	07-NOV-00	EPRI-0011-118	AS	33.	ppm	MK	12-DEC-00	180	6010
			CA	398.	ppm	MK	07-DEC-00	180	6010
			CD	0.038	ppm	CH	02-JAN-01	180	6020
			CL-	607.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm	DC	10-NOV-00		310.1
			COND.	9800.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	7.4	ppm	EH	20-NOV-00	28	340.2
			FE	25.	ppm	MK	07-DEC-00	180	6010
			HCO3	712.	ppm	DC	10-NOV-00	14	310.1
			K	244.	ppm	MK	07-DEC-00	180	6010
			MG	116.	ppm	MK	07-DEC-00	180	6010
			NA	1528.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	10.	ppm	JN	30-NOV-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.3	pH	DC	10-NOV-00		150.1
			SE	0.051	ppm	CH	02-JAN-01	180	6020
			SO4=	3961.	ppm	JN	01-DEC-00	28	9036
			TDS	7400.	ppm	BD	10-NOV-00	7	160.1
			TSS	114.	ppm	BD	09-NOV-00		160.2
			ZN	30.	ppm	MK	07-DEC-00	180	6010
L001857-019	07-NOV-00	EPRI-0011-122	AS	37.	ppm	MK	12-DEC-00	180	6010
			CA	418.	ppm	MK	07-DEC-00	180	6010
			CD	0.70	ppm	CH	02-JAN-01	180	6020
			CL-	760.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm	DC	10-NOV-00		310.1
			COND.	10110.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	0.019	ppm	CH	02-JAN-01	180	6020
			CU	0.49	ppm	CH	02-JAN-01		6020
			F-	8.8	ppm	EH	20-NOV-00	28	340.2
			FE	13.	ppm	MK	07-DEC-00	180	6010
			HCO3	974.	ppm	DC	10-NOV-00	14	310.1
			K	269.	ppm	MK	07-DEC-00	180	6010
			MG	198.	ppm	MK	07-DEC-00	180	6010
			NA	1652.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	10.	ppm	JN	30-NOV-00	28	353.2
			PB	0.015	ppm	CH	02-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001857

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001857-019	07-NOV-00	EPRI 0011-122	PH	7.3	pH	DC	10-NOV-00	150.1	
			SE	0.12	ppm	CH	02-JAN-01	180	6020
			SO4=	3916.	ppm	JN	01-DEC-00	28	9036
			TDS	7939.	ppm	BD	10-NOV-00	7	160.1
			TSS	60.	ppm	BD	09-NOV-00		160.2
			ZN	12.	ppm	MK	07-DEC-00	180	6010
			AS	0.30	ppm	CH	02-JAN-01	180	6020
			CA	196.	ppm	MK	07-DEC-00	180	6010
			CD	0.26	ppm	CH	02-JAN-01	180	6020
			CL-	410.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	4640.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
L001857-020	07-NOV-00	EPRI-0011-114	CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	1.9	ppm	EH	20-NOV-00	28	340.2
			FE	1.2	ppm	MK	07-DEC-00	180	6010
			HCO3	262.	ppm CaCO3	DC	10-NOV-00	14	310.1
			K	53.	ppm	MK	07-DEC-00	180	6010
			MG	58.	ppm	MK	07-DEC-00	180	6010
			NA	793.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	13.	ppm	JN	30-NOV-00	28	353.2
			PB	0.010	ppm	CH	02-JAN-01	180	6020
			PH	7.7	pH	DC	10-NOV-00		150.1
			SE	0.92	ppm	CH	02-JAN-01	180	6020
			SO4=	1466.	ppm	JN	01-DEC-00	28	9036
			TDS	3341.	ppm	BD	10-NOV-00	7	160.1
L001857-021	03-NOV-00	EPRI-0011-171	TSS	40.	ppm	BD	09-NOV-00		160.2
			ZN	1.0	ppm	MK	07-DEC-00	180	6010
			AS	0.029.	ppm	CH	02-JAN-01	180	6020
			CA	340.	ppm	MK	07-DEC-00	180	6010
			CD	0.029	ppm	CH	02-JAN-01	180	6020
			CL-	949.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	6440.	umhos/cm2	BD	08-NOV-00	28	120.1
			CR	<0.010	ppm	CH	02-JAN-01	180	6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	0.99	ppm	EH	20-NOV-00	28	340.2

ASARCO TECHN. SERVICES CENTER

ANALYTICAL DATA REPORT

E1 Paso

Water and Solid Waste (Project 3220)

Batch No: L001857

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001857-021	03-NOV-00	EPRI-0011-171	FE	<0.10	ppm	MK	07-DEC-00	180	6010
			HCO3	155.	ppm	DC	10-NOV-00	14	310.1
			K	22.	ppm	MK	07-DEC-00	180	6010
			MG	156.	ppm	MK	07-DEC-00	180	6010
			NA	855.	ppm	MK	07-DEC-00	180	6010
			NO2/NO3	69.	ppm	JN	30-NOV-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.8	PH	DC	10-NOV-00		150.1
			SE	0.42	ppm	CH	02-JAN-01	180	6020
			SO4=	1870.	ppm	JN	01-DEC-00	28	9036
			TDS	4874.	ppm	BD	10-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	09-NOV-00		160.2
			ZN	0.035	ppm	CH	02-JAN-01	180	6020

PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

Approved

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001197-1		Matrix Spike	AS	96	%Recovery	CH	02-JAN-01		6020
			CD	90	%Recovery	CH	02-JAN-01		6020
			CL-	106	%Recovery	JN	27-NOV-00		325.2
			CR	88	%Recovery	CH	02-JAN-01		6020
			CU	81	%Recovery	CH	02-JAN-01		6020
			F-	97	%Recovery	EH	20-NOV-00		340.2
			FE	91	%Recovery	MK	07-DEC-00		6010
			NO2/NO3	SR>4XSA	%Recovery	JN	30-NOV-00		353.2
			PB	90	%Recovery	CH	02-JAN-01		6020
			SE	99	%Recovery	CH	02-JAN-01		6020
			SO4=	97	%Recovery	JN	29-NOV-00		9036
			ZN	82	%Recovery	CH	02-JAN-01		6020
			AS	<0.005	ppm	CH	02-JAN-01		6020
			CA	<1.0	ppm	MK	07-DEC-00		6010
			CD	<0.005	ppm	CH	02-JAN-01		6020
			CL-	<1.0	ppm	JN	27-NOV-00		325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
WG001197-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	08-NOV-00		120.1
			CR	<0.010	ppm	CH	02-JAN-01		6020
			CU	<0.025	ppm	CH	02-JAN-01		6020
			F-	<0.050	ppm	EH	20-NOV-00		340.2
			FE	<0.10	ppm	MK	07-DEC-00		6010
			HCO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			K	<2.0	ppm	MK	07-DEC-00		6010
			MG	<1.0	ppm	MK	07-DEC-00		6010
			NA	<2.0	ppm	MK	07-DEC-00		6010
			NO2/NO3	<0.050	ppm	JN	30-NOV-00		353.2
			PB	<0.003	ppm	CH	02-JAN-01		6020
			SE	<0.005	ppm	CH	02-JAN-01		6020
			SO4=	<2.0	ppm	JN	29-NOV-00		9036
			TDS	<10	ppm	BD	10-NOV-00		160.1
			TSS	<1.0	ppm	BD	09-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01		6020
WG001197-3		Lab Control Sample	AS	105	%Recovery	CH	02-JAN-01		6020
			CA	83	%Recovery	MK	07-DEC-00		6010
			CD	100	%Recovery	CH	02-JAN-01		6020
			CL-	92	%Recovery	JN	27-NOV-00		325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001197-3		Lab Control Sample	COND.	100	% Recovery	BD	08-NOV-00	120.1	
			CR	103	% Recovery	CH	02-JAN-01	6020	
			CU	100	% Recovery	CH	02-JAN-01	6020	
			F-	97	% Recovery	EH	20-NOV-00	340.2	
			FE	88	% Recovery	MK	07-DEC-00	6010	
			HCO3	97	% Recovery	DC	10-NOV-00	310.1	
			K	95	% Recovery	MK	07-DEC-00	6010	
			MG	88	% Recovery	MK	07-DEC-00	6010	
			NA	93	% Recovery	MK	07-DEC-00	6010	
			NO2/NO3	106	% Recovery	JN	30-NOV-00	353.2	
			PB	95	% Recovery	CH	02-JAN-01	6020	
			SE	106	% Recovery	CH	02-JAN-01	6020	
			SO4=	97	% Recovery	JN	29-NOV-00	9036	
			TDS	97	% Recovery	BD	10-NOV-00	160.1	
			TSS	104	% Recovery	BD	09-NOV-00	160.2	
			ZN	112	% Recovery	CH	02-JAN-01	6020	
WG001197-4		Duplicate	CL-	9.4	% RPD	JN	27-NOV-00	325.2	
			CO3	<1	% RPD	DC	10-NOV-00	310.1	
			COND.	<1	% RPD	BD	08-NOV-00	120.1	
			F-	2.0	% RPD	EH	20-NOV-00	340.2	
			HCO3	1.0	% RPD	DC	10-NOV-00	310.1	
			NO2/NO3	4.4	% RPD	JN	30-NOV-00	353.2	
			SO4=	<1	% RPD	JN	29-NOV-00	9036	
			TDS	1.2	% RPD	BD	10-NOV-00	160.1	
			TSS	<1	% RPD	BD	09-NOV-00	160.2	
			AS	1.7	% RPD	CH	02-JAN-01	6020	
			CD	<1	% RPD	CH	02-JAN-01	6020	
			CR	2.6	% RPD	CH	02-JAN-01	6020	
WG001197-5		Matrix Spike Duplicate	CU	<1	% RPD	CH	02-JAN-01	6020	
			FE	1.3	% RPD	MK	07-DEC-00	6010	
			PB	<1	% RPD	CH	02-JAN-01	6020	
			SE	1.3	% RPD	CH	02-JAN-01	6020	
			ZN	<1	% RPD	CH	02-JAN-01	6020	
			AS	0.005	ppm			6020	
			CA	1.0	ppm			6010	
			CD	0.005	ppm			6020	
WG001197-6		Reporting Limit							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001197-6		Reporting Limit	CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	unthos/cm2				120.1
			CR	0.010	ppm				6020
			CU	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				6020
			SO4=	2.0	ppm				9036
			TDS	10.	ppm				160.1
			TSS	1.0	ppm				160.2
			ZN	0.020	ppm				6020
WG001197-7		Matrix Spike	AS	89	%Recovery	MK	12-DEC-00		6010
			CD	93	%Recovery	CH	02-JAN-01		6020
			CL-	110	%Recovery	JN	30-NOV-00		325.2
			CR	90	%Recovery	CH	02-JAN-01		6020
			CU	76	%Recovery	CH	02-JAN-01		6020
			FE	87	%Recovery	MK	07-DEC-00		6010
			NO2/NO3	96	%Recovery	JN	30-NOV-00		353.2
			PB	89	%Recovery	CH	02-JAN-01		6020
			SE	99	%Recovery	CH	02-JAN-01		6020
			SO4=	92	%Recovery	JN	01-DEC-00		9036
			ZN	86	%Recovery	MK	07-DEC-00		6010
WG001197-8		Prep Blank	AS	<0.050	ppm	MK	12-DEC-00		6010
			CA	<1.0	ppm	MK	07-DEC-00		6010
			CD	<0.005	ppm	CH	02-JAN-01		6020
			CL-	<1.0	ppm	JN	30-NOV-00		325.2
			CO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			COND.	<5.0	unthos/cm2	BD	08-NOV-00		120.1
			CR	<0.010	ppm	CH	02-JAN-01		6020
			CU	<0.025	ppm	CH	02-JAN-01		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001197-8		Prep Blank	FE	<0.10	ppm	MK	07-DEC-00		6010
			HCO3	<1.0	ppm CaCO3	DC	10-NOV-00		310.1
			K	<2.0	ppm	MK	07-DEC-00		6010
			MG	<1.0	ppm	MK	07-DEC-00		6010
			NA	<2.0	ppm	MK	07-DEC-00		6010
			NO2/NO3	<0.050	ppm	JN	30-NOV-00		353.2
			PB	<0.003	ppm	CH	02-JAN-01		6020
			SE	<0.005	ppm	CH	02-JAN-01		6020
			SO4=	<2.0	ppm	JN	01-DEC-00		9036
			TDS	<10.	ppm	BD	10-NOV-00		160.1
			TSS	<1.0	ppm	BD	09-NOV-00		160.2
			ZN	<0.050	ppm	MK	07-DEC-00		6010
			AS	83	% Recovery	MK	12-DEC-00		6010
			CA	90	% Recovery	MK	07-DEC-00		6010
			CD	103	% Recovery	CH	02-JAN-01		6020
			CL-	94	% Recovery	JN	30-NOV-00		325.2
			COND.	100	% Recovery	BD	08-NOV-00		120.1
WG001197-9		Lab Control Sample	CR	95	% Recovery	CH	02-JAN-01		6020
			CU	90	% Recovery	CH	02-JAN-01		6020
			FE	94	% Recovery	MK	07-DEC-00		6010
			HCO3	99	% Recovery	DC	10-NOV-00		310.1
			K	101	% Recovery	MK	07-DEC-00		6010
			MG	93	% Recovery	MK	07-DEC-00		6010
			NA	103	% Recovery	MK	07-DEC-00		6010
			NO2/NO3	103	% Recovery	JN	30-NOV-00		353.2
			PB	104	% Recovery	CH	02-JAN-01		6020
			SE	101	% Recovery	CH	02-JAN-01		6020
			SO4=	100	% Recovery	JN	01-DEC-00		9036
			TDS	104	% Recovery	BD	10-NOV-00		160.1
			TSS	100	% Recovery	BD	09-NOV-00		160.2
			ZN	86	% Recovery	MK	07-DEC-00		6010
			CL-	3.5	% RPD	JN	30-NOV-00		325.2
			CO3	<1	% RPD	DC	10-NOV-00		310.1
WG001197-10		Duplicate	HCO3	<1	% RPD	DC	10-NOV-00		310.1
			NO2/NO3	14.	% RPD	JN	30-NOV-00		353.2
			SO4=	4.2	% RPD	JN	01-DEC-00		9036
			TDS	<1	% RPD	BD	10-NOV-00		160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001197

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001197-10		Duplicate	TSS	3.4	% RPD	BD	09-NOV-00	160.2	
WG001197-11		Matrix Spike Duplicate	AS	2.8	% RPD	MK	12-DEC-00	6010	
			CD	<1	% RPD	CH	02-JAN-01	6020	
			CR	<1	% RPD	CH	02-JAN-01	6020	
			CU	<1	% RPD	CH	02-JAN-01	6020	
			FE	5.9	% RPD	MK	07-DEC-00	6010	
			PB	2.7	% RPD	CH	02-JAN-01	6020	
			SE	<1	% RPD	CH	02-JAN-01	6020	
			ZN	2.8	% RPD	MK	07-DEC-00	6010	

[Signature]

Approved

[Signature]

Reviewer

HYDROMETRICS, INC.

CHAIN OF CUSTODY RECORD

3275 W. Ina Rd., Ste. 205 • Tucson, AZ 85710 (520) 544-3150 • FAX (520) 544-3190
P.O. Box 220182, El Paso, TX 79913 • (915) 532-3489 • FAX (915) 532-4897

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS								REMARKS	
0931VZ		ASARCO - EL PASO, TX		3		Commons UF/RAW	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											
11-3-00	1045			EPR1-0011-166	3	X			X						
	1115			EPR1-0011-156	3	X			X						
	1120			EPR1-0011-227	3	X			X						
	1300			EPR1-0011-143	3	X			X						
	1340			EPR1-0011-198	3	X			X						
	1400			EPR1-0011-199	3	X			X						
	1430			EPR1-0011-110	3	X			X						
	1515			EPR1-0011-228	3	X			X						
	1545			EPR1-0011-141	3	X			X						
	910			EPR1-0011-142	3	X			X						
	950			EPR1-0011-119	3	X			X						
	1000			EPR1-0011-229	3	X			X						
	1020			EPR1-0011-164	3	X			X						
	1050			EPR1-0011-120	3	X			X						
	1315			EPR1-0011-154	3	X			X						
Relinquished (Signature)		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS							
11/2/00		11/2/00		TSC-512, UT				Other							
Relinquished (Signature)		Received by: (Signature)		Remarks				Air Bill #							
11/2/00		11/2/00		11:00		11:00		11:00							
Relinquished (Signature)		Received for Laboratory by: (Signature)		Date/Time		Date/Time		Enclosed: <input checked="" type="checkbox"/> Parameter sheet w/detection limits							
								<input type="checkbox"/> QA/QC standard mixing instructions							
								<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

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HEORM-5

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001874-001	08-NOV-00	EPRI-0011-163	AS	3.7	ppm	MK	12-DEC-00	180	6010
			CA	392.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	304.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00	310.1	
			COND.	5460.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	0.032	ppm	CH	11-DEC-00		6020
			F-	2.4	ppm	EH	21-NOV-00	28	340.2
			FE	0.83	ppm	MK	12-DEC-00	180	6010
			HCO3	303.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	87.	ppm	MK	12-DEC-00	180	6010
			MG	139.	ppm	MK	12-DEC-00	180	6010
			NA	727.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	75.	ppm	JN	03-DEC-00	28	353.2
			PB	0.011	ppm	CH	02-JAN-01	180	6020
			PH	7.7	pH	DC	14-NOV-00		150.1
			SE	1.2	ppm	CH	02-JAN-01	180	6020
			SO4=	2093.	ppm	JN	01-DEC-00	28	9036
			TDS	4541.	ppm	BD	14-NOV-00	7	160.1
			TSS	43.	ppm	BD	15-NOV-00		160.2
			ZN	0.062	ppm	CH	02-JAN-01	180	6020
L001874-002	08-NOV-00	EPRI-0011-231	AS	<0.005	ppm	CH	02-JAN-01	180	6020
			CA	<1.0	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	<1.0	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00	310.1	
			COND.	<5.0	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	<0.050	ppm	EH	21-NOV-00	28	340.2
			FE	<0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	<1.0	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	<2.0	ppm	MK	12-DEC-00	180	6010
			MG	<1.0	ppm	MK	12-DEC-00	180	6010
			NA	<2.0	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	<0.050	ppm	JN	01-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZER	DATE METHOD
L001874-002	08-NOV-00	EPRI-0011-231	PH	5.1	PH	DC	14-NOV-00		150.1
			SE	<0.005	ppm	CH	02-JAN-01	180	6020
			SO4=	<2.0	ppm	JN	01-DEC-00	28	9036
			TDS	10.	ppm	BD	14-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	15-NOV-00		160.2
			ZN	0.039	ppm	CH	02-JAN-01	180	6020
			AS	0.079	ppm	CH	02-JAN-01	180	6020
			CA	82.	ppm	MK	12-DEC-00	180	6010
			CD	0.010	ppm	CH	02-JAN-01	180	6020
			CU	109.	ppm	JN	06-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	1546.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	0.054	ppm	CH	11-DEC-00		6020
			F-	0.91	ppm	EH	21-NOV-00	28	340.2
			FE	0.42	ppm	MK	12-DEC-00	180	6010
			HCO3	183.	ppm CaCO3	DC	14-NOV-00	14	310.1
L001874-003	08 NOV-00	EPRI-0011-150	K	4.3	ppm	MK	12-DEC-00	180	6010
			MG	37.	ppm	MK	12-DEC-00	180	6010
			NA	161.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	4.8	ppm	JN	01-DEC-00	28	353.2
			PB	0.067	ppm	CH	02-JAN-01	180	6020
			PH	7.8	PH	DC	14-NOV-00		150.1
			SE	0.011	ppm	CH	02-JAN-01	180	6020
			SO4=	373.	ppm	JN	01-DEC-00	28	9036
			TDS	1058.	ppm	BD	14-NOV-00	7	160.1
			TSS	14.	ppm	BD	15-NOV-00		160.2
			ZN	0.062	ppm	CH	02-JAN-01	180	6020
			AS	0.017	ppm	CH	02-JAN-01	180	6020
			CA	62.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	369.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	3850.	umhos/cm2	BD	14-NOV-00	28	120.1
L001874-004	08-NOV-00	EPRI-0011-149	CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	3.0	ppm	EH	21-NOV-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	TEST METHOD
L001874-004	08-NOV-00	EPRI-0011-149	FE	<0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	314.	ppm	DC	14-NOV-00	14	310.1
			K	8.3	ppm	MK	12-DEC-00	180	6010
			MG	56.	ppm	MK	12-DEC-00	180	6010
			NA	670.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	8.7	ppm	JN	01-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	8.0	pH	DC	14-NOV-00		150.1
			SE	0.043	ppm	CH	02-JAN-01	180	6020
			SO4=	1073.	ppm	JN	01-DEC-00	28	9036
			TDS	2704.	ppm	BD	14-NOV-00	7	160.1
			TSS	1.4	ppm	BD	15-NOV-00		160.2
			ZN	0.027	ppm	CH	02-JAN-01	180	6020
			AS	0.016	ppm	CH	02-JAN-01	180	6020
			CA	63.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	346.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm	CaCO3	14-NOV-00		310.1
			COND.	3840.	umbos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
L001874-005	08-NOV-00	EPRI-0011-232	CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	3.0	ppm	EH	21-NOV-00	28	340.2
			FE	<0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	304.	ppm	DC	14-NOV-00	14	310.1
			K	8.4	ppm	MK	12-DEC-00	180	6010
			MG	58.	ppm	MK	12-DEC-00	180	6010
			NA	679.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	8.5	ppm	JN	01-DEC-00	28	353.2
			PB	0.004	ppm	CH	02-JAN-01	180	6020
			PH	8.0	pH	DC	14-NOV-00		150.1
			SE	0.041	ppm	CH	02-JAN-01	180	6020
			SO4=	1124.	ppm	JN	01-DEC-00	28	9036
			TDS	2699.	ppm	BD	14-NOV-00	7	160.1
			TSS	1.2	ppm	BD	15-NOV-00		160.2
			ZN	0.028	ppm	CH	02-JAN-01	180	6020
			AS	0.015	ppm	CH	02-JAN-01	180	6020
			CA	34.	ppm	MK	12-DEC-00	180	6010
L001874-006	08-NOV-00	EPRI-0011-159							

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001874-006	08-NOV-00	EPRI-0011-159	CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	355.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	3240.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	3.7	ppm	EH	21-NOV-00	28	340.2
			FE	<0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	316.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	2.4	ppm	MK	12-DEC-00	180	6010
			MG	58.	ppm	MK	12-DEC-00	180	6010
			NA	554.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	8.9	ppm	JN	01-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	8.1	pH	DC	14-NOV-00		150.1
			SE	0.029	ppm	CH	02-JAN-01	180	6020
			SO4=	813.	ppm	JN	01-DEC-00	28	9036
			TDS	2192.	ppm	BD	14-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	15-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180	6020
L001874-007	08-NOV-00	EPRI-0011-158	AS	0.015	ppm	CH	02-JAN-01	180	6020
			CA	98.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	577.	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	4806.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.3	ppm	EH	21-NOV-00	28	340.2
			FE	0.18	ppm	MK	12-DEC-00	180	6010
			HCO3	320.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	12.	ppm	MK	12-DEC-00	180	6010
			MG	98.	ppm	MK	12-DEC-00	180	6010
			NA	799.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	13.	ppm	JN	03-DEC-00	28	353.2
			PB	0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.9	pH	DC	14-NOV-00		150.1
			SE	0.025	ppm	CH	02-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD
L001874-007	08-NOV-00	EPRI-0011-158	SO4=	1254.	ppm	JN	01-DEC-00 28	9036
			TDS	3410.	ppm	BD	14-NOV-00 7	160.1
			TSS	3.0	ppm	BD	15-NOV-00	160.2
			ZN	0.033	ppm	CH	02-JAN-01 180	6020
			AS	0.019	ppm	CH	02-JAN-01 180	6020
			CA	133.	ppm	MK	12-DEC-00 180	6010
			CD	<0.005	ppm	CH	02-JAN-01 180	6020
			CL-	455.	ppm	JN	30-NOV-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00	310.1
			COND.	4780.	umhos/cm2	BD	14-NOV-00 28	120.1
L001874-008	08-NOV-00	EPRI-0011-160	CR	<0.010	ppm	MK	12-DEC-00 180	6010
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	1.1	ppm	EH	21-NOV-00 28	340.2
			FE	3.2	ppm	MK	12-DEC-00 180	6010
			HCO3	496.	ppm CaCO3	DC	14-NOV-00 14	310.1
			K	12.	ppm	MK	12-DEC-00 180	6010
			MG	86.	ppm	MK	12-DEC-00 180	6010
			NA	792.	ppm	MK	12-DEC-00 180	6010
			NO2/NO3	12.	ppm	JN	03-DEC-00 28	353.2
			PB	0.005	ppm	CH	02-JAN-01 180	6020
			PH	7.8	pH	DC	14-NOV-00	150.1
			SE	0.015	ppm	CH	02-JAN-01 180	6020
			SO4=	1364.	ppm	JN	01-DEC-00 28	9036
			TDS	3436.	ppm	BD	14-NOV-00 7	160.1
			TSS	217.	ppm	BD	15-NOV-00	160.2
			ZN	0.032	ppm	CH	02-JAN-01 180	6020
			AS	0.022	ppm	CH	02-JAN-01 180	6020
			CA	91.	ppm	MK	12-DEC-00 180	6010
			CD	<0.005	ppm	CH	02-JAN-01 180	6020
L001874-009	08-NOV-00	EPRI-0011-157	CL-	459.	ppm	JN	04-DEC-00 28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00	310.1
			COND.	4900.	umhos/cm2	BD	14-NOV-00 28	120.1
			CR	0.026	ppm	MK	12-DEC-00 180	6010
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	1.8	ppm	EH	21-NOV-00 28	340.2
			FE	5.2	ppm	MK	12-DEC-00 180	6010
			HCO3	584.	ppm CaCO3	DC	14-NOV-00 14	310.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L001874-009	08-NOV-00	EPRI-0011-157	K	8.8	ppm	MK	12-DEC-00	180 6010
			MG	67.	ppm	MK	12-DEC-00	180 6010
			NA	895.	ppm	MK	12-DEC-00	180 6010
			NO2/NO3	8.1	ppm	JN	01-DEC-00	28 353.2
			PB	0.006	ppm	CH	02-JAN-01	180 6020
			PH	7.7	pH	DC	14-NOV-00	150.1
			SE	0.031	ppm	CH	02-JAN-01	180 6020
			SO4=	1225.	ppm	JN	01-DEC-00	28 9036
			TDS	3449.	ppm	BD	14-NOV-00	7 160.1
			TSS	232.	ppm	BD	15-NOV-00	160.2
			ZN	0.038	ppm	CH	02-JAN-01	180 6020
L001874-010	08-NOV-00	EPRI-0011-161	AS	0.16	ppm	CH	02-JAN-01	180 6020
			CA	96.	ppm	MK	12-DEC-00	180 6010
			CD	0.008	ppm	CH	02-JAN-01	180 6020
			CL-	284.	ppm	JN	04-DEC-00	28 325.2
			CO3	<1.0	ppm-CaCO3	DC	14-NOV-00	310.1
			COND.	3480.	umhos/cm2	BD	14-NOV-00	28 120.1
			CR	<0.010	ppm	MK	12-DEC-00	180 6010
			CU	0.34	ppm	CH	11-DEC-00	6020
			F-	1.4	ppm	EH	21-NOV-00	28 340.2
			FE	5.3	ppm	MK	12-DEC-00	180 6010
			HCO3	418.	ppm CaCO3	DC	14-NOV-00	14 310.1
			K	6.2	ppm	MK	12-DEC-00	180 6010
			MG	60.	ppm	MK	12-DEC-00	180 6010
			NA	548.	ppm	MK	12-DEC-00	180 6010
			NO2/NO3	<0.050	ppm	JN	03-DEC-00	28 353.2
			PB	0.15	ppm	CH	02-JAN-01	180 6020
			PH	7.9	pH	DC	14-NOV-00	150.1
			SE	<0.005	ppm	CH	02-JAN-01	180 6020
			SO4=	975.	ppm	JN	01-DEC-00	28 9036
			TDS	2458.	ppm	BD	14-NOV-00	7 160.1
			TSS	208.	ppm	BD	15-NOV-00	160.2
			ZN	0.13	ppm	CH	02-JAN-01	180 6020
L001874-011	08-NOV-00	EPRI-0011-162	AS	0.027	ppm	CH	02-JAN-01	180 6020
			CA	71.	ppm	MK	12-DEC-00	180 6010
			CD	<0.005	ppm	CH	02-JAN-01	180 6020
			CL-	580.	ppm	JN	04-DEC-00	28 325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FIELD DAYS	METHOD
L001874-011	08-NOV-00	EPRI-0011-162	CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	5880.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	2.2	ppm	EH	21-NOV-00	28	340.2
			FE	0.13	ppm	MK	12-DEC-00	180	6010
			HCO3	360.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	87.	ppm	MK	12-DEC-00	180	6010
			MG	68.	ppm	MK	12-DEC-00	180	6010
			NA	1036.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	12.	ppm	JN	03-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	8.0	pH	DC	14-NOV-00		150.1
			SE	0.28	ppm	CH	02-JAN-01	180	6020
			SO4=	1841.	ppm	JN	01-DEC-00	28	9036
			TDS	4212.	ppm	BD	14-NOV-00	7	160.1
			TSS	6.1	ppm	BD	15-NOV-00		160.2
			ZN	0.026	ppm	CH	02-JAN-01	180	6020
			AS	0.020	ppm	CH	02-JAN-01	180	6020
			CA	194.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	319.	ppm	JN	04-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	5300.	umhos/cm2	BD	14-NOV-00	28	120.1
L001874-012	09-NOV-00	EPRI-0011-146	CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	1.4	ppm	EH	21-NOV-00	28	340.2
			FE	0.15	ppm	MK	12-DEC-00	180	6010
			HCO3	448.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	14.	ppm	MK	12-DEC-00	180	6010
			MG	77.	ppm	MK	12-DEC-00	180	6010
			NA	916.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	3.1	ppm	JN	03-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.9	pH	DC	14-NOV-00		150.1
			SE	0.021	ppm	CH	02-JAN-01	180	6020
			SO4=	1927.	ppm	JN	01-DEC-00	28	9036
			TDS	4033.	ppm	BD	14-NOV-00	7	160.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	SOLID
L001874-012	09-NOV-00	EPRI-0011-146	TSS	4.3	ppm	BD	15-NOV-00	160.2
			ZN	0.024	ppm	CH	02-JAN-01	6020
L001874-013	09-NOV-00	EPRI-0011-147	AS	0.31	ppm	CH	02-JAN-01	6020
			CA	156.	ppm	MK	12-DEC-00	6010
			CD	<0.005	ppm	CH	02-JAN-01	6020
			CL-	113.	ppm	JN	04-DEC-00	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00	310.1
			COND.	2800.	umhos/cm2	BD	14-NOV-00	120.1
			CR	<0.010	ppm	MK	12-DEC-00	6010
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	2.0	ppm	EH	21-NOV-00	340.2
			FE	0.59	ppm	MK	12-DEC-00	6010
			HCO3	388.	ppm CaCO3	DC	14-NOV-00	14
			K	18.	ppm	MK	12-DEC-00	180
			MG	72.	ppm	MK	12-DEC-00	6010
			NA	323.	ppm	MK	12-DEC-00	180
			NO2/NO3	10.	ppm	JN	01-DEC-00	28
			PB	<0.003	ppm	CH	02-JAN-01	180
			PH	7.5	ppm	DC	14-NOV-00	150.1
			SE	0.26	ppm	CH	02-JAN-01	180
			SO4=	965.	ppm	JN	01-DEC-00	28
			TDS	2154.	ppm	BD	14-NOV-00	7
L001874-014	09-NOV-00	EPRI-0011-151	TSS	6.7	ppm	BD	15-NOV-00	160.2
			ZN	0.045	ppm	CH	02-JAN-01	6020
			AS	2.2	ppm	MK	12-DEC-00	180
			CA	73.	ppm	MK	12-DEC-00	180
			CD	<0.005	ppm	CH	02-JAN-01	180
			CL-	146.	ppm	JN	04-DEC-00	28
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00	310.1
			COND.	2590.	umhos/cm2	BD	14-NOV-00	28
			CR	<0.010	ppm	MK	12-DEC-00	180
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	3.7	ppm	EH	21-NOV-00	28
			FE	<0.10	ppm	MK	12-DEC-00	180
			HCO3	300.	ppm CaCO3	DC	14-NOV-00	14
			K	24.	ppm	MK	12-DEC-00	180
			MG	35.	ppm	MK	12-DEC-00	180

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID
L001874-014	09-NOV-00	EPRI-0011-151	NA	413.	ppm	MK	12-DEC-00	180
			NO2/NO3	5.4	ppm	JN	01-DEC-00	28
			PB	<0.003	ppm	CH	02-JAN-01	180
			PH	8.0	pH	DC	14-NOV-00	6020
			SE	0.17	ppm	CH	02-JAN-01	180
			SO4=	697.	ppm	JN	01-DEC-00	28
			TDS	1803.	ppm	BD	14-NOV-00	7
			TSS	3.1	ppm	BD	15-NOV-00	160.1
			ZN	<0.020	ppm	CH	02-JAN-01	180
			AS	2.2	ppm	MK	12-DEC-00	180
			CA	70.	ppm	MK	12-DEC-00	180
			CD	<0.005	ppm	CH	02-JAN-01	180
			CL-	157.	ppm	JN	04-DEC-00	28
			CO3	2.0	ppm CaCO3	DC	14-NOV-00	310.1
L001874-015	09-NOV-00	EPRI-0011-233	COND.	2580.	umhos/cm2	BD	14-NOV-00	28
			CR	<0.010	ppm	MK	12-DEC-00	180
			CU	<0.025	ppm	CH	11-DEC-00	6020
			F-	3.7	ppm	EH	21-NOV-00	28
			FE	<0.10	ppm	MK	12-DEC-00	180
			HCO3	291.	ppm CaCO3	DC	14-NOV-00	14
			K	23.	ppm	MK	12-DEC-00	180
			MG	34.	ppm	MK	12-DEC-00	180
			NA	387.	ppm	MK	12-DEC-00	180
			NO2/NO3	6.7	ppm	JN	01-DEC-00	28
			PB	<0.003	ppm	CH	02-JAN-01	180
			PH	8.4	pH	DC	14-NOV-00	150.1
			SE	0.17	ppm	CH	02-JAN-01	180
			SO4=	761.	ppm	JN	01-DEC-00	28
L001874-016	09-NOV-00	EPRI-0011-145	TDS	1805.	ppm	BD	14-NOV-00	7
			TSS	3.2	ppm	BD	15-NOV-00	160.1
			ZN	<0.020	ppm	CH	02-JAN-01	180
			AS	0.014	ppm	CH	02-JAN-01	180
			CA	38.	ppm	MK	12-DEC-00	180
			CD	<0.005	ppm	CH	02-JAN-01	180
			CL-	366.	ppm	JN	04-DEC-00	28
			CO3	26.	ppm CaCO3	DC	14-NOV-00	310.1
			COND.	4320.	umhos/cm2	BD	14-NOV-00	28
								120.1

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3270)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE HOLD	ANALYZED	DAYS	METHOD
L001874-016	09-NOV-00	EPRI-0011-145	CR	<0.010	ppm	MK	12-DEC-00	180		6010
			CU	<0.025	ppm	CH	11-DEC-00			6020
			F-	4.8	ppm	EH	21-NOV-00	28		340.2
			FE	0.19	ppm	MK	12-DEC-00	180		6010
			HCO3	349.	ppm	DC	14-NOV-00	14		310.1
			K	6.4	ppm	MK	12-DEC-00	180		6010
			MG	45.	ppm	MK	12-DEC-00	180		6010
			NA	813.	ppm	MK	12-DEC-00	180		6010
			NO2/NO3	7.7	ppm	JN	01-DEC-00	28		353.2
			PB	0.003	ppm	CH	02-JAN-01	180		6020
			PH	8.5	PH	DC	14-NOV-00			150.1
			SE	0.094	ppm	CH	02-JAN-01	180		6020
			SO4=	1191.	ppm	JN	01-DEC-00	28		9036
			TDS	3034.	ppm	BD	14-NOV-00	7		160.1
			TSS	12.	ppm	BD	15-NOV-00			160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180		6020
L001874-017	09-NOV-00	EPRI-0011-152	AS	0.007	ppm	CH	02-JAN-01	180		6020
			CA	35.	ppm	MK	12-DEC-00	180		6010
			CD	<0.005	ppm	CH	02-JAN-01	180		6020
			CL-	275.	ppm	JN	06-DEC-00	28		325.2
			CO3	28.	ppm	DC	14-NOV-00			310.1
			COND.	2640.	umhos/cm2	BD	14-NOV-00	28		120.1
			CR	<0.010	ppm	MK	12-DEC-00	180		6010
			CU	<0.025	ppm	CH	11-DEC-00			6020
			F-	2.7	ppm	EH	21-NOV-00	28		340.2
			FE	0.20	ppm	MK	12-DEC-00	180		6010
			HCO3	264.	ppm	DC	14-NOV-00	14		310.1
			K	7.6	ppm	MK	12-DEC-00	180		6010
			MG	26.	ppm	MK	12-DEC-00	180		6010
			NA	454.	ppm	MK	12-DEC-00	180		6010
			NO2/NO3	6.4	ppm	JN	01-DEC-00	28		353.2
			PB	<0.003	ppm	CH	02-JAN-01	180		6020
			PH	8.5	PH	DC	14-NOV-00			150.1
			SE	0.027	ppm	CH	02-JAN-01	180		6020
			SO4=	645.	ppm	JN	01-DEC-00	28		9036
			TDS	1745.	ppm	BD	14-NOV-00	7		160.1
			TSS	8.2	ppm	BD	15-NOV-00			160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180		6020

ASARCO TECHNICAL SERVICES CENTER
ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001874-018	09-NOV-00	EPRI-0011-234	AS	<0.005	ppm	CH	02-JAN-01	180	6020
			CA	<1.0	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	<1.0	ppm	JN	30-NOV-00	28	325.2
			CO3	<1.0	ppm	DC	14-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	<0.050	ppm	EH	21-NOV-00	28	340.2
			FE	<0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	<1.0	ppm	DC	14-NOV-00	14	310.1
			K	<2.0	ppm	MK	12-DEC-00	180	6010
			MG	<1.0	ppm	MK	12-DEC-00	180	6010
			NA	<2.0	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	<0.050	ppm	JN	01-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	5.1	pH	DC	14-NOV-00		150.1
			SE	<0.005	ppm	CH	02-JAN-01	180	6020
			SO4=	<2.0	ppm	JN	01-DEC-00	28	9036
			TDS	11.	ppm	BD	14-NOV-00	7	160.1
			TSS	<1.0	ppm	BD	15-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180	6020
L001874-019	09-NOV-00	EPRI-0011-144	AS	3.8	ppm	MK	12-DEC-00	180	6010
			CA	68.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	305.	ppm	JN	06-DEC-00	28	325.2
			CO3	<1.0	ppm	DC	14-NOV-00		310.1
			COND.	3400.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	3.5	ppm	EH	21-NOV-00	28	340.2
			FE	<0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	300.	ppm	DC	14-NOV-00	14	310.1
			K	48.	ppm	MK	12-DEC-00	180	6010
			MG	33.	ppm	MK	12-DEC-00	180	6010
			NA	495.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	9.5	ppm	JN	01-DEC-00	28	353.2
			PB	0.013	ppm	CH	02-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
L001874-019	09-NOV-00	EPRI-0011-144	PH	7.9	PH	DC	14-NOV-00	150.1	
			SE	0.22	ppm	CH	02-JAN-01	180	6020
			SO4=	898.	ppm	JN	01-DEC-00	28	9036
			TDS	2254.	ppm	BD	14-NOV-00	7	160.1
			TSS	4.0	ppm	BD	15-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180	6020
			AS	0.019	ppm	CH	02-JAN-01	180	6020
			CA	83.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	356.	ppm	JN	04-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	4000.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	2.4	ppm	EH	21-NOV-00	28	340.2
			FE	0.22	ppm	MK	12-DEC-00	180	6010
L001874-020	09-NOV-00	EPRI-0011-173	HCO3	323.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	15.	ppm	MK	12-DEC-00	180	6010
			MG	65.	ppm	MK	12-DEC-00	180	6010
			NA	653.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	7.5	ppm	JN	01-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.8	PH	DC	14-NOV-00		150.1
			SE	0.064	ppm	CH	02-JAN-01	180	6020
			SO4=	1246.	ppm	JN	01-DEC-00	28	9036
			TDS	2822.	ppm	BD	14-NOV-00	7	160.1
			TSS	9.4	ppm	BD	15-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180	6020
			AS	0.008	ppm	CH	02-JAN-01	180	6020
			CA	135.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	447.	ppm	JN	04-DEC-00	28	325.2
L001874-021	09-NOV-00	EPRI-0011-148	CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	4240.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
			F-	2.4	ppm	EH	21-NOV-00	28	340.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE		HOLD
							ANALYZED	CHRG	
L001874-021	09-NOV-00	EPRI-0011-148	FE	<0.10	ppm	MK	12-DEC-00	180	6010
			HCO3	346.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	23.	ppm	MK	12-DEC-00	180	6010
			MG	79.	ppm	MK	12-DEC-00	180	6010
			NA	626.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	8.6	ppm	JN	01-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	7.6	pH	DC	14-NOV-00		150.1
			SE	0.11	ppm	CH	02-JAN-01	180	6020
			SO4=	1210.	ppm	JN	01-DEC-00	28	9036
			TDS	3019.	ppm	BD	14-NOV-00	7	160.1
			TSS	2.5	ppm	BD	15-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180	6020
			AS	1.2	ppm	MK	12-DEC-00	180	6010
			CA	44.	ppm	MK	12-DEC-00	180	6010
			CD	<0.005	ppm	CH	02-JAN-01	180	6020
			CL-	263.	ppm	JN	04-DEC-00	28	325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	3360.	umhos/cm2	BD	14-NOV-00	28	120.1
			CR	<0.010	ppm	MK	12-DEC-00	180	6010
			CU	<0.025	ppm	CH	11-DEC-00		6020
L001874-022	09-NOV-00	EPRI-0011-172	F-	2.5	ppm	EH	21-NOV-00	28	340.2
			FE	0.11	ppm	MK	12-DEC-00	180	6010
			HCO3	337.	ppm CaCO3	DC	14-NOV-00	14	310.1
			K	10.	ppm	MK	12-DEC-00	180	6010
			MG	42.	ppm	MK	12-DEC-00	180	6010
			NA	610.	ppm	MK	12-DEC-00	180	6010
			NO2/NO3	5.6	ppm	JN	01-DEC-00	28	353.2
			PB	<0.003	ppm	CH	02-JAN-01	180	6020
			PH	8.1	pH	DC	14-NOV-00		150.1
			SE	0.050	ppm	CH	02-JAN-01	180	6020
			SO4=	943.	ppm	JN	01-DEC-00	28	9036
			TDS	2331.	ppm	BD	14-NOV-00	7	160.1
			TSS	1.4	ppm	BD	15-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01	180	6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: L001874

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
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PH is a field parameter therefore holding time cannot be met by the laboratory.
Digestion Methods for totals --- 3010 and 6020.

[Signature]

Approved

[Signature]

Reviewer

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001209

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	FOLD	DAIS	METHOD
WG001209-1		Matrix Spike	AS	95	%Recovery	CH	02-JAN-01			6020
			CD	98	%Recovery	CH	02-JAN-01			6020
			CL-	94	%Recovery	JN	04-DEC-00			325.2
			CR	90	%Recovery	MK	12-DEC-00			6010
			CU	94	%Recovery	CH	11-DEC-00			6020
			F	97	%Recovery	EH	21-NOV-00			340.2
			FE	90	%Recovery	MK	12-DEC-00			6010
			NO2/NO3	104	%Recovery	JN	01-DEC-00			353.2
			PB	102	%Recovery	CH	02-JAN-01			6020
			SE	95	%Recovery	CH	02-JAN-01			6020
			SO4=	98	%Recovery	JN	01-DEC-00			9036
			ZN	100	%Recovery	CH	02-JAN-01			6020
			AS	<0.005	ppm	CH	02-JAN-01			6020
			CA	<1.0	ppm	MK	12-DEC-00			6010
			CD	<0.005	ppm	CH	02-JAN-01			6020
			CL-	<1.0	ppm	JN	04-DEC-00			325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00			310.1
WG001209-2		Prep Blank	COND.	<5.0	umhos/cm2	BD	14-NOV-00			120.1
			CR	<0.010	ppm	MK	12-DEC-00			6010
			CU	<0.025	ppm	CH	11-DEC-00			6020
			F-	<0.050	ppm	EH	21-NOV-00			340.2
			FE	<0.10	ppm	MK	12-DEC-00			6010
			HCO3	<1.0	ppm CaCO3	DC	14-NOV-00			310.1
			K	<2.0	ppm	MK	12-DEC-00			6010
			MG	<1.0	ppm	MK	12-DEC-00			6010
			NA	<2.0	ppm	MK	12-DEC-00			6010
			NO2/NO3	<0.050	ppm	JN	01-DEC-00			353.2
			PB	<0.003	ppm	CH	02-JAN-01			6020
			SE	<0.005	ppm	CH	02-JAN-01			6020
			SO4=	<2.0	ppm	JN	01-DEC-00			9036
			TDS	<10.	ppm	BD	14-NOV-00			160.1
			TSS	<1.0	ppm	BD	15-NOV-00			160.2
			ZN	<0.020	ppm	CH	02-JAN-01			6020
WG001209-3		Lab Control Sample	AS	100	%Recovery	CH	02-JAN-01			6020
			CA	86	%Recovery	MK	12-DEC-00			6010
			CD	100	%Recovery	CH	02-JAN-01			6020
			CL-	95	%Recovery	JN	04-DEC-00			325.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001209

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	MOID DAYS	METHOD
WG001209-3		Lab Control Sample	COND.	100		%Recovery	BD	14-NOV-00	120.1
			CR	90		%Recovery	MK	12-DEC-00	6010
			CU	93		%Recovery	CH	11-DEC-00	6020
			F-	100		%Recovery	EH	21-NOV-00	340.2
			FE	90		%Recovery	MK	12-DEC-00	6010
			HCO3	99		%Recovery	DC	14-NOV-00	310.1
			K	90		%Recovery	MK	12-DEC-00	6010
			MG	90		%Recovery	MK	12-DEC-00	6010
			NA	90		%Recovery	MK	12-DEC-00	6010
			NO2/NO3	106		%Recovery	JN	01-DEC-00	353.2
			PB	102		%Recovery	CH	02-JAN-01	6020
			SE	105		%Recovery	CH	02-JAN-01	6020
			SO4=	99		%Recovery	JN	01-DEC-00	9036
			TDS	104		%Recovery	BD	14-NOV-00	160.1
			TSS	102		%Recovery	BD	15-NOV-00	160.2
			ZN	98		%Recovery	CH	02-JAN-01	6020
			CL-	3.4		% RPD	JN	04-DEC-00	325.2
			CO3	<1		% RPD	DC	14-NOV-00	310.1
			COND.	<1		% RPD	BD	14-NOV-00	120.1
			F-	<1		% RPD	EH	21-NOV-00	340.2
WG001209-4		Duplicate	HCO3	<1		% RPD	DC	14-NOV-00	310.1
			NO2/NO3	9.7		% RPD	JN	01-DEC-00	353.2
			SO4=	5.7		% RPD	JN	01-DEC-00	9036
			TDS	<1		% RPD	BD	14-NOV-00	160.1
			TSS	2.3		% RPD	BD	15-NOV-00	160.2
			AS	2.6		% RPD	CH	02-JAN-01	6020
			CD	2.6		% RPD	CH	02-JAN-01	6020
			CR	2.7		% RPD	MK	12-DEC-00	6010
			CU	2.7		% RPD	CH	11-DEC-00	6020
			FE	2.7		% RPD	MK	12-DEC-00	6010
WG001209-5		Matrix Spike Duplicate	PB	2.4		% RPD	CH	02-JAN-01	6020
			SE	<1		% RPD	CH	02-JAN-01	6020
			ZN	2.5		% RPD	CH	02-JAN-01	6020
			AS	0.005		ppm			6020
			CA	1.0		ppm			6010
WG001209-6		Reporting Limit	CD	0.005		ppm			6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 3220)

Batch No: WG001209

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001209-6		Reporting Limit	CL-	1.0	ppm				325.2
			CO3	1.0	ppm CaCO3				310.1
			COND.	5.0	umhos/cm2				120.1
			CR	0.010	ppm				6010
			CU	0.025	ppm				6020
			F-	0.050	ppm				340.2
			FE	0.10	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	0.050	ppm				353.2
			PB	0.003	ppm				6020
			SE	0.005	ppm				9036
			SO4=	2.0	ppm				160.1
			TDS	10.	ppm				160.2
			TSS	1.0	ppm				6020
			ZN	0.020	ppm				
WG001209-7		Matrix Spike	AS	88	%Recovery	MK	12-DEC-00		6010
			CD	99	%Recovery	CH	02-JAN-01		6020
			CL-	107	%Recovery	JN	30-NOV-00		325.2
			CR	90	%Recovery	MK	12-DEC-00		6010
			CU	93	%Recovery	CH	11-DEC-00		6020
			FE	88	%Recovery	MK	12-DEC-00		6010
			NO2/NO3	99	%Recovery	JN	01-DEC-00		353.2
			PB	95	%Recovery	CH	02-JAN-01		6020
			SE	94	%Recovery	CH	02-JAN-01		6020
			SO4=	97	%Recovery	JN	01-DEC-00		9036
			ZN	81	%Recovery	CH	02-JAN-01		6020
WG001209-8		Prep Blank	AS	<0.050	ppm	MK	12-DEC-00		6010
			CA	<1.0	ppm	MK	12-DEC-00		6010
			CD	<0.005	ppm	CH	02-JAN-01		6020
			CL-	<1.0	ppm	JN	30-NOV-00		325.2
			CO3	<1.0	ppm CaCO3	DC	14-NOV-00		310.1
			COND.	<5.0	umhos/cm2	BD	14-NOV-00		120.1
			CR	<0.010	ppm	MK	12-DEC-00		6010
			CU	<0.025	ppm	CH	11-DEC-00		6020

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste (Project 4220)

Batch No: WG001209

LAB NO.	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DAYS	METHOD
WG001209-8		Prep Blank	FE	<0.10	ppm	MK	12-DEC-00		6010
			HCO3	<1.0	ppm	CaCO3	14-NOV-00		310.1
			K	<2.0	ppm	MK	12-DEC-00		6010
			MG	<1.0	ppm	MK	12-DEC-00		6010
			NA	<2.0	ppm	MK	12-DEC-00		6010
			NO2/NO3	<0.050	ppm	JN	01-DEC-00		353.2
			PB	<0.003	ppm	CH	02-JAN-01		6020
			SE	<0.005	ppm	CH	02-JAN-01		6020
			SO4=	<2.0	ppm	JN	01-DEC-00		9036
			TDS	<10	ppm	BD	14-NOV-00		160.1
			TSS	<1.0	ppm	BD	15-NOV-00		160.2
			ZN	<0.020	ppm	CH	02-JAN-01		6020
			AS	88	% Recovery	MK	12-DEC-00		6010
			CA	88	% Recovery	MK	12-DEC-00		6010
			CD	97	% Recovery	CH	02-JAN-01		6020
			CL	95	% Recovery	JN	30-NOV-00		325.2
			COND.	100	% Recovery	BD	14-NOV-00		120.1
WG001209-9		Lab Control Sample	CR	94	% Recovery	MK	12-DEC-00		6010
			CU	95	% Recovery	CH	11-DEC-00		6020
			FE	93	% Recovery	MK	12-DEC-00		6010
			HCO3	99	% Recovery	DC	14-NOV-00		310.1
			K	95	% Recovery	MK	12-DEC-00		6010
			MG	93	% Recovery	MK	12-DEC-00		6010
			NA	95	% Recovery	MK	12-DEC-00		6010
			NO2/NO3	88	% Recovery	JN	01-DEC-00		353.2
			PB	105	% Recovery	CH	02-JAN-01		6020
			SE	99	% Recovery	CH	02-JAN-01		6020
			SO4=	98	% Recovery	JN	01-DEC-00		9036
			TDS	100	% Recovery	BD	14-NOV-00		160.1
			TSS	100	% Recovery	BD	15-NOV-00		160.2
			ZN	90	% Recovery	CH	02-JAN-01		6020
			AS	<1	% RPD	MK	12-DEC-00		6010
			CD	<1	% RPD	CH	02-JAN-01		6020
			CL	<1	% RPD	JN	30-NOV-00		325.2
WG001209-10		Duplicate	CO3	<1	% RPD	DC	14-NOV-00		310.1
			COND.	<1	% RPD	BD	14-NOV-00		120.1
			NO2/NO3	<1	% RPD	JN	03-DEC-00		353.2

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Water and Solid Waste Project 3220

Batch No: WG001209

LAB NO	DATE COLLECTED	DESCRIPTION	PARAMETER	VALUE	UNITS	ANALYST	DATE ANALYZED	HOLD DATE	ANALYSIS METHOD
WG001209-10		Duplicate	PB	2.5	% RPD	CH	02-JAN-01	6020	
			SE	2.3	% RPD	CH	02-JAN-01	6020	
			SO4=	1.3	% RPD	JN	01-DEC-00	9036	
			TDS	+/-prdl	% RPD	BD	14-NOV-00	160.1	
			TSS	+/-prdl	% RPD	BD	15-NOV-00	160.2	
WG001209-11		Matrix Spike Duplicate	CR	<1	% RPD	MK	12-DEC-00	6010	
			CU	2.7	% RPD	CH	11-DEC-00	6020	
			FE	2.7	% RPD	MK	12-DEC-00	6010	
			ZN	4.4	% RPD	CH	02-JAN-01	6020	

[Signature]
Approved

[Signature]
Reviewer

CHAIN OF CUSTODY RECORD

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

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
093102		EPR-0 - EL PASO, TX		3													
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	REMARKS				
11/8/00	1000			EPR1 0011-163	X				X								
11/8/00	800			EPR1 0011-231	X				X								
11/8/00	1045			EPR1 0011-150	X				X								
11/8/00	1120			EPR1 0011-149	X				X								
11/8/00	1150			EPR1 0011-232	X				X								
11/8/00	1300			EPR1 0011-157	X				X								
11/8/00	1320			EPR1 0011-158	X				X								
11/8/00	1345			EPR1 0011-160	X				X								
11/8/00	1410			EPR1 0011-157	X				X								
11/8/00	1520			EPR1 0011-161	X				X								
11/8/00	1530			EPR1 0011-162	X				X								
11/9/00	820			EPR1 0011-146	X				X								
11/9/00	830			EPR1 0011-147	X				X								
11/9/00	850			EPR1 0011-151	X				X								
11/9/00	900			EPR1 0011-233	X				X								
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		P.O. #		Shipped via: Bus, Fed Ex, UPS							
Douglas M. Solon		11/9/00 1600				TSC				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 <input type="checkbox"/> QA/QC standard mixing instructions <input checked="" type="checkbox"/> Cover letter <input type="checkbox"/> Other									

HFORM-15

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

Split Samples:
☒ Accepted ☐ Declined

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

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HFORM-1-4/95

Return results & electronic copy to:
Computer Dept. at address after 6 pages

Split Samples:
☐ Accepted ☐ Declined

Notes:

