Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EM-4	8/11/97																
EM-4	8/26/97	0.009		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.011		0.031	
EM-4	11/17/97	0.005 U		0.005 U		0.005 U		0.025 U		0.1 U		0.003 U		0.005 U		0.02 U	
EM-4	2/17/98	0.009		0.008		0.01 U		0.025 U		0.1 UJ/J4		0.003 U		0.005 U		0.02 UJ/J1	
EM-4	5/18/98	0.019		0.005 U		0.01 U		0.071		0.1 U		0.003 U		0.005 U		0.032	
EM-4	8/13/98	0.01		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.005 U		0.028	
EM-4	11/11/98	0.005 U		0.009		0.01 U		0.025 U		0.1 U		0.003 U		0.005 U		0.13	
EM-4	2/22/99	0.005 U		0.006		0.01 U		0.025 U		0.1 U		0.003 U		0.005 U		0.059	
EM-4	5/10/99	0.005 U		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.005 U		0.031 J4	
EM-4	5/10/99	0.005 U		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.005 U		0.035 J2	
EM-4	8/6/99	0.009 J4	0.007	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.18	0.003 U	0.007	0.005 U	0.005 U	0.033	0.022
EM-4	10/29/99		0.012		0.005 U		0.01 U		0.025 U		0.1 U		0.004		0.005 U		0.037
EM-4	1/25/00		0.005 U		0.005 U		0.01 U		0.025 U		0.1 UJ/J4		0.007 UJ		0.005 U		0.021
EM-4	4/26/00		0.01		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.005 U		0.023
EM-4	4/26/00		0.01		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.005 U		0.021
EM-4	8/3/00		0.005 U		0.005 U		0.01 U		0.025 U		0.12		0.005 U		0.006 UJ		0.02 U
EM-4	11/1/00		0.005 U		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.006		0.037 UJ
EM-4	2/9/01		0.007		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.005 UJ/J4		0.069
EM-4	5/7/01		0.005		0.005 U		0.01 U		0.029		0.15		0.003 U		0.005 U		0.095
EM-4	7/18/01	0.019	0.024	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.005 U	0.005 U	0.039	0.045
EM-4	10/31/01	0.04	0.045	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.15	0.003 U	0.006	0.005 U	0.005 U	0.039	0.035
EM-4	2/7/02	0.01	0.01	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.005 U	0.005 U	0.02 U	0.02 U
EM-4	5/1/02	0.014	0.012	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.006	0.005 U	0.005 U	0.02 U	0.037
EM-4	8/7/02	0.011	0.01	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.005 U	0.005 U	0.02 U	0.02 U
EM-4	8/7/02	0.011	0.013	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.006	0.005 U	0.02 U	0.02 U
EM-4	11/11/02																
EM-5	8/11/97																
EM-5	8/26/97	1.6		0.08		0.01 U		0.046		0.55		0.01		0.027		0.31	
EM-5	11/17/97	1.7		0.069		0.005 U		0.025 U		1.8		0.006		0.009		0.31	
EM-5	2/17/98	1.6		0.066		0.01 U		0.03		2.4		0.009		0.012		0.38	
EM-5	5/18/98	1.7		0.017		0.01 U		0.025		1.3		0.005		0.013		0.17	
EM-5	8/17/98	1.8		0.055		0.01 U		0.044		0.49		0.003		0.005 U		0.17	
EM-5	11/11/98	2		0.081		0.01 U		0.028		1		0.003 U		0.005 U		0.3	
EM-5	2/11/99	1.9		0.046		0.01 U		0.025 U		1.2		0.003		0.007		0.27	
EM-5	2/11/99	1.9		0.046		0.01 U		0.025 U		1.2		0.003		0.006		0.27	
EM-5	5/10/99	2.2		0.009		0.01 U		0.025 U		1.5		0.003		0.005 U		0.1 J4	
EM-5	8/6/99	2.4	2.3	0.016	0.017	0.01 U	0.01 U	0.025 U	0.025 U	0.64	0.72	0.003 U	0.003	0.008	0.007	0.11	0.11
EM-5	11/2/99		2.4		0.005		0.01 U		0.025 U		0.87 J2		0.006		0.005 U		0.061
EM-5	11/2/99		2.3		0.006		0.01 U		0.025 U		0.83 J2		0.009		0.005 U		0.063
EM-5	1/25/00		2.6		0.016		0.01 U		0.025 U		0.53 J4		0.012 UJ		0.006		0.072
EM-5	4/26/00		2.3		0.009		0.01 U		0.028		0.6		0.013		0.005 U		0.062
EM-5	8/4/00		1.6		0.006		0.01 U		0.025 U		0.83		0.013		0.005 U		0.059
EM-5	11/3/00		1.7		0.008		0.01 U		0.025 U		0.94		0.006		0.005 U		0.076 UJ
EM-5	2/14/01		1.8		0.009		0.01 U		0.025 U		1.2		0.008		0.005 U		0.11
EM-5	5/9/01		1.5		0.005 U		0.01 U		0.025 U		1.4		0.005		0.005 U		0.1
EM-5	7/19/01	1.5	1.5	0.005 U	0.006	0.01 U	0.01 U	0.025 U	0.025 U	1.2	1.4	0.003 U	0.005 J1	0.011	0.007	0.061	0.075
EM-5	11/1/01	1.5	1.5	0.005 U	0.006	0.01 U	0.01 U	0.025 U	0.025 U	1.1	1.5	0.003 U	0.009	0.006	0.005 U	0.05	0.059
EM-5	2/8/02	1.2	1.2	0.02	0.027 J4	0.01 U	0.01 UJ/J4	0.025 U	0.025 U	0.84	1.3 J4	0.003 U	0.008	0.005 U	0.006 J4	0.066	0.072
EM-5	5/2/02	1.1	1.2	0.01	0.015	0.01 U	0.01 U	0.025 U	0.025 U	0.9	1.7	0.003 U	0.006	0.015	0.016	0.06	0.078
EM-5	8/8/02	0.88	1	0.2	0.25	0.01 U	0.01 U	0.035	0.062	1	1.3	0.003 U	0.005	0.025	0.023	0.15	0.17

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EM-5	11/6/02	1	1	0.12	0.13	0.01 U	0.01 U	0.025 U	0.04	1.6	1.7	0.003 U	0.004	0.014	0.016	0.12	0.12
EM-5	11/6/02	0.97	1	0.12	0.13	0.01 U	0.011	0.025 U	0.045	1.6	1.7	0.003 U	0.004	0.013	0.016	0.11	0.11
EM-6	8/11/97	0.03		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.11		0.03	
EM-6	8/11/97	0.027		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.11		0.027	
EM-6	11/17/97	0.026		0.005 U		0.005 U		0.045		0.1 U		0.003 U		0.11		0.039	
EM-6	2/17/98	0.028		0.006		0.01 U		0.043		0.1 0.004		0.003 U		0.1		0.045	J
EM-6	5/18/98	0.025		0.005 U		0.01 U		0.045		0.1 U		0.003 U		0.099		0.052	
EM-6	5/18/98	0.024		0.005 U		0.01 U		0.044		0.1 U		0.003 U		0.098		0.044	
EM-6	8/17/98	0.021		0.005 U		0.01 U		0.043		0.1 U		0.003		0.12		0.037	
EM-6	11/11/98	0.031		0.006		0.01 U		0.063		0.1 U		0.003 U		0.076		0.12	
EM-6	2/11/99	0.024		0.007		0.01 U		0.041		0.1 U		0.003 U		0.097		0.087	
EM-6	5/10/99	0.025		0.007		0.01 U		0.052		0.1 U		0.005		0.07		0.099	J
EM-6	8/6/99	0.042 J	0.033	0.007	0.007	0.01 U	0.01 U	0.059	0.067	0.1 U	0.1 U	0.004	0.008	0.067	0.071	0.1	0.1
EM-6	8/6/99	0.033 J	0.032	0.007	0.007	0.01 U	0.01 U	0.06	0.065	0.1 U	0.1 U	0.004	0.009	0.076	0.07	0.099	0.1
EM-6	11/2/99		0.037		0.007		0.01 U		0.069		0.12 J		0.013		0.066		0.11
EM-6	1/25/00		0.024		0.005 U		0.01 U		0.025		0.1 0.004		0.012 UJ		0.083		0.024
EM-6	4/26/00		0.022		0.005 U		0.01 U		0.035		0.1 U		0.005		0.068		0.037
EM-6	8/4/00		0.022		0.005 U		0.01 U		0.031		1.2		0.008		0.072		0.026
EM-6	11/3/00		0.024		0.005 U		0.01 U		0.025 U		0.12		0.004		0.076		0.035 UJ
EM-6	2/14/01		0.027		0.005 U		0.01 U		0.025 U		0.1 U		0.007		0.08		0.05
EM-6	2/14/01		0.025		0.005 U		0.01 U		0.025 U		0.1 U		0.007		0.078		0.051
EM-6	5/9/01		0.025		0.005 U		0.01 U		0.025 U		0.1 U		0.003		0.078		0.051
EM-6	7/19/01	0.04	0.042	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.004 J	0.088	0.088	0.039	0.032 J
EM-6	11/1/01	0.052	0.05	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.085	0.075	0.03	0.035
EM-6	2/8/02	0.044	0.04	0.005 U	0.005 0.004	0.01 U	0.01 0.004	0.025 U	0.025 U	0.1 U	0.1 0.004	0.003 U	0.003	0.062	0.075 J	0.028	0.032
EM-6	5/2/02	0.04	0.041	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.004	0.074	0.07	0.02 U	0.038
EM-6	8/8/02	0.031	0.034	0.007	0.007	0.01 U	0.01 U	0.025 U	0.027	0.1 U	0.1 U	0.003 U	0.004	0.069	0.074	0.029	0.037
EM-6	11/4/02																
EM-7	11/17/97	1.7		0.021		0.008		0.067		0.35		0.038		0.13		0.11	
EM-7	2/19/98	2.1		0.009		0.01 U		0.055		0.34 J		0.03		0.055		0.078	J
EM-7	5/7/98	1.8		0.018		0.01 U		0.033		0.2		0.039		0.055		0.11	
EM-7	8/20/98	2.3		0.019		0.01 U		0.042		0.16		0.032		0.037		0.1	
EM-7	11/11/98	2.1		0.014		0.01 U		0.025 U		0.29		0.019		0.02		0.079	
EM-7	2/24/99	2		0.011		0.01 U		0.049		0.18		0.025		0.051		0.093	
EM-7	5/12/99	2.4		0.005		0.01 U		0.025 U		0.27		0.011		0.006		0.039	
EM-7	8/6/99	2.4	2.2	0.023	0.073	0.01 U	0.018	0.056	0.16	0.17	1.4	0.034	0.63	0.03	0.037	0.073	0.31
EM-7	10/30/99		3.3		0.26		0.036		0.81		2.9		1.5		0.077		0.8 J
EM-7	1/31/00		2.1		0.29		0.043		1.3		4		2		0.071		1
EM-7	2/14/01																
EM-7	5/9/01																
EP-100	10/20/99		0.008		0.022		0.01 U		0.025 U		0.34		0.007		0.42		0.13
EP-100	1/26/00		0.02		0.043		0.01 U		0.034		7.3		0.01		0.42		0.24
EP-100	4/28/00		0.019		0.031		0.01 U		0.039		2.1 J		0.009		0.54		0.22 J
EP-100	8/7/00		0.014		0.027		0.01 U		0.03		1.9		0.005		0.52		0.18
EP-100	11/7/00		0.015		0.02		0.01 0.004		0.025 U		0.79 J		0.003 U		0.52		0.12
EP-100	2/20/01		0.016		0.019		0.01 U		0.025		1.9		0.004		0.58		0.22
EP-100	5/9/01		0.021		0.032		0.01 U		0.025 U		2.3		0.007		0.58		0.43
EP-100	7/20/01	0.023	0.023	0.015	0.015	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.81	0.003 U	0.003	0.54	0.55	0.12	0.13
EP-100	11/5/01	0.029	0.027	0.013	0.012	0.01 U	0.01 U	0.025 U	0.033	0.1 U	1.3	0.003 U	0.003 U	0.58	0.53	0.099	0.09
EP-100	2/12/02	0.023	0.025	0.023	0.021	0.01 U	0.015 J	0.025 U	0.028 J	0.1 U	2.6 J	0.003 U	0.007 J	0.51	0.5	0.2	0.21

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EP-100	5/9/02	0.08	0.1	0.015	0.015	0.01 U	0.019	0.025 U	0.051	0.1 U	1.6	0.003 U	0.007	0.59	0.55	0.14	0.18
EP-100	8/12/02	0.015	0.038	0.016	0.016	0.01 U	0.01 U	0.025 U	0.026	0.1 U	0.51	0.003 U	0.007	0.52	0.53	0.16	0.17
EP-100	11/11/02																
EP-101	10/21/99		7.2		0.78		0.01 U		0.028		2.6		0.015		2.3		0.16
EP-101	1/25/00		4.5		0.72		0.01 U		0.025 U		1.6 J		0.018 UJ		2.8		0.048
EP-101	4/26/00		6.3		1.1		0.01 U		0.025 U		0.64		0.035		3.5		0.1
EP-101	8/4/00		6.8		1.3		0.01 U		0.026		2.1		0.012		3.4		0.13
EP-101	11/2/00		7.3		1.7		0.01 U		0.029		1.8 J		0.012		3.3		0.34
EP-101	2/9/01		6.3		1.4		0.01 U		0.025 U		0.31		0.004		2.4		0.25
EP-101	5/8/01		4.7		1.6		0.01 U		0.025 U		0.55		0.005		1.7 J		0.32
EP-101	7/18/01	5.3	5.2	1.5	1.6	0.01 U	0.01 U	0.025	0.029	0.1 U	0.95	0.003 U	0.007 UJ	1.7	1.9	0.28	0.32
EP-101	10/31/01	5.8	5.4	1.6	1.5	0.01 U	0.01 U	0.025 U	0.03	0.1 U	3.4	0.003 U	0.02	1.5	1.5	0.24	0.23
EP-101	2/7/02	4.9	5	1.7	1.8	0.01 U	0.01 U	0.025 U	0.051	0.1 U	5.7	0.003 U	0.032	1.3	1.4	0.3	0.32 J
EP-101	5/2/02	5.3	5.1	1.2	1.2	0.01 U	0.01 U	0.025 U	0.027	0.65	1.7	0.008	0.011	1.1	1	0.2	0.25
EP-101	8/7/02	5.1	5.5	1.5	1.7	0.01 U	0.01 U	0.032	0.052	0.1 U	1	0.003 U	0.009	1.3	1.4	0.35	0.39
EP-101	11/5/02	5.5	5.4	1.9	1.8	0.01 U	0.01 U	0.025 U	0.039	0.1 U	1.2	0.003 U	0.008	1.1	1.1	0.4	0.38
EP-102	10/21/99		0.21		0.05		0.01 U		0.025 U		0.1 U		0.004		5		0.094
EP-102	1/25/00		0.21		0.075		0.01 U		0.025 U		0.48 J		0.012 UJ		4.8		0.045
EP-102	4/26/00		0.26		0.095		0.01 U		0.025 U		1.4		0.012		3.7		0.069
EP-102	8/4/00		0.28		0.099		0.01 U		0.025 U		1.2		0.009		3.6		0.053
EP-102	11/3/00		0.24		0.053		0.01 U		0.025 U		1.1		0.007		2.4		0.063 UJ
EP-102	2/9/01		0.38		0.095		0.01 U		0.025 U		1.4		0.012		4		0.077
EP-102	5/8/01		0.4		0.11		0.01 U		0.025 U		0.96		0.006		5.7 J		0.11
EP-102	7/18/01	0.3	0.3	0.13	0.17	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.2	0.003 U	0.01 UJ	6.8	6.4	0.048	0.07
EP-102	10/31/01	0.46	0.4	0.17	0.17	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.2	0.003 U	0.007	6.7	6.4	0.04	0.046
EP-102	2/7/02	0.38	0.45	0.15	0.18	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.9	0.003 U	0.01	7.9	8.3	0.021	0.04 J
EP-102	5/2/02	0.32	0.38	0.13	0.12	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.85	0.003 U	0.007	5.3	4.7	0.035	0.076
EP-102	8/7/02	0.38	0.44	0.092	0.096	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.46	0.003 U	0.004	6.8	7.5	0.047	0.051
EP-102	11/11/02																
EP-103	10/21/99		0.005		0.005 U		0.01 U		0.025 U		0.15		0.003 U		0.22		0.027
EP-103	1/24/00		0.011		0.005 U		0.01 U		0.025 U		0.55		0.013 UJ		0.16		0.02
EP-103	4/26/00		0.016		0.005 U		0.01 U		0.025 U		1.3		0.01		0.19		0.036
EP-103	8/4/00		0.023		0.007		0.01 U		0.025 U		0.28		0.003 U		0.23		0.02 U
EP-103	11/2/00		0.008		0.005 U		0.01 U		0.025 U		0.33 J		0.003 U		0.27		0.029 UJ
EP-103	2/12/01		0.022		0.005 U		0.01 U		0.025 U		0.14		0.003 U		0.29		0.047
EP-103	5/8/01		0.019		0.007		0.01 U		0.025 U		0.06		0.003 U		0.26 J		0.041
EP-103	7/19/01	0.044	0.04	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 UJ	0.27	0.27	0.02 U	0.02 U
EP-103	11/1/01	0.062	0.059	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.33	0.003 U	0.007	0.2	0.21	0.02 U	0.02
EP-103	2/3/02	0.023	0.021	0.012	0.013 J	0.01 U	0.01 UJ	0.025 U	0.025 U	0.1 U	0.18 J	0.003 U	0.003 U	0.24	0.24	0.02 U	0.024
EP-103	5/1/02	0.026	0.024	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.005	0.27	0.32	0.02 U	0.027
EP-103	8/7/02	0.023	0.023	0.01	0.01	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.26	0.27	0.02 U	0.026
EP-103	11/11/02																
EP-104	10/21/99		0.071		0.005 U		0.01 U		0.025 U		0.41		0.006		0.11		0.02 U
EP-104	1/24/00		0.08		0.005 U		0.01 U		0.025 U		0.9		0.015 UJ		0.093		0.023
EP-104	4/26/00		0.072		0.005 U		0.01 U		0.025 U		2.2		0.015		0.085		0.043
EP-104	8/3/00		0.082		0.005 U		0.01 U		0.025 U		0.63		0.008		0.096		0.026
EP-104	11/1/00		0.091		0.005 U		0.01 U		0.025 U		1.4		0.011		0.097		0.066 UJ
EP-104	2/12/01		0.084		0.005 U		0.01 U		0.025 U		0.2		0.003		0.1		0.041
EP-104	2/12/01		0.087		0.005 U		0.01 U		0.025 U		0.15		0.003		0.11		0.048
EP-104	5/8/01		0.081		0.005 U		0.01 U		0.025 U		0.62		0.005		0.1 J		0.072

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-104	7/18/01	0.091		0.095		0.013		0.013		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.36		0.003	u	0.006	uu	0.11		0.11		0.027		0.035	
EP-104	10/31/01	0.093		0.085		0.005		0.005		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.14		0.003	u	0.006		0.095		0.087		0.022		0.02	
EP-104	2/8/02	0.091		0.092		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	2.8	u	0.003	u	0.024		0.094		0.1	u	0.027		0.048	
EP-104	5/1/02	0.082		0.077		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.19		0.003	u	0.004		0.09		0.19		0.02	u	0.039	
EP-104	8/8/02	0.084		0.086		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1		0.003	u	0.003	u	0.094		0.094		0.023		0.023	
EP-104	8/8/02	0.085		0.085		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.095		0.092		0.02	u	0.024	
EP-104	11/5/02	0.088		0.086		0.038		0.034		0.01	u	0.01	u	0.025	u	0.027		0.1	u	0.17		0.003	u	0.003	u	0.086		0.085		0.018		0.042	
EP-105	10/21/99			0.3				0.005	u			0.01	u			0.025	u			0.91				0.012				0.068				0.055	
EP-105	1/25/00			0.4				0.005	u			0.01	u			0.078				5.7	u			0.076				0.034				0.18	
EP-105	4/26/00			0.051				0.005	u			0.01	u			0.025	u			0.57				0.017				0.005	u			0.049	
EP-105	8/4/00			0.6				0.005	u			0.01	u			0.045				1.2				0.018				0.039				0.089	
EP-105	11/1/00			0.099				0.005	u			0.01	u			0.036				0.59				0.012				0.034				0.083	uu
EP-105	2/14/01			0.84				0.005	u			0.01	u			0.025	u			0.3				0.008				0.034				0.078	
EP-105	5/9/01			0.17				0.005	u			0.01	u			0.2				8.7				0.1				0.025	u			0.39	
EP-105	7/19/01	0.94		0.97		0.005	u	0.005	u	0.01	u	0.01	u	0.026		0.025	u	0.1	u	0.15		0.003	u	0.005	u	0.057		0.067		0.057		0.067	
EP-105	11/1/01	0.21		0.23		0.005	u	0.006		0.01	u	0.011		0.026		0.29		0.1	u	26		0.003	u	0.34		0.04		0.047		0.081		0.67	
EP-105	2/11/02	0.21		0.23		0.005	u	0.005	u	0.01	u	0.01	u	0.049		0.13		0.1	u	6.2		0.003	u	0.094		0.019		0.023	u	0.082		0.26	
EP-105	5/2/02	0.22		0.22		0.005	u	0.005	u	0.01	u	0.01	u	0.034		0.069		0.1	u	2.4		0.003	u	0.034		0.032		0.033		0.083		0.18	
EP-105	8/8/02	0.17		0.21		0.005	u	0.005	u	0.01	u	0.01	u	0.031		0.057		0.1	u	1.5		0.003	u	0.018		0.03		0.037		0.08		0.13	
EP-105	11/25/02	0.15		0.23		0.005	u	0.005	u	0.01	u	0.01	u	0.028		0.23		0.1	u	13		0.003	u	0.16		0.032		0.028		0.064		0.48	
EP-106	10/21/99			0.005	u			0.005	u			0.01	u			0.025	u			3.1				0.004				0.087				0.053	
EP-106	1/25/00			0.007				0.005	u			0.01	u			0.025	u			0.6	u			0.014	uu			0.11				0.022	
EP-106	4/26/00			0.005	u			0.005	u			0.01	u			0.025	u			0.4				0.003	u			0.1				0.02	u
EP-106	8/2/00			0.006				0.005	u			0.01	u			0.025	u			0.43				0.006				0.11				0.02	u
EP-106	11/2/00			0.007				0.005	u			0.01	u			0.025	u			0.83	u			0.003	u			0.12				0.041	uu
EP-106	2/12/01			0.017				0.015				0.01	u			0.025	u			0.98				0.006				0.12				0.067	
EP-106	5/9/01			0.014				0.005	u			0.01	u			0.025	u			0.69				0.003	u			0.12	u			0.1	
EP-106	7/18/01	0.05		0.049		0.073		0.07		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.53		0.52		0.052		0.057	
EP-106	10/31/01	0.041		0.037		0.017		0.017		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.31		0.003	u	0.003	u	0.12		0.098		0.020		0.024	
EP-106	2/8/02	0.019		0.019		0.017		0.017	u	0.01	u	0.01	uuu	0.025	u	0.025	u	0.1	u	0.1	uuu	0.003	u	0.005		0.1		0.13	u	0.021		0.021	
EP-106	5/1/02	0.015		0.015		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.27		0.003	u	0.003	u	0.097		0.096		0.02	u	0.019	
EP-106	8/8/02	0.01		0.014		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.5		0.003	u	0.003	u	0.11		0.12		0.024		0.03	
EP-106	11/7/02	0.98		1.3		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	1.3		2.1		0.003	u	0.003	u	0.009		0.012		0.034		0.03	
EP-106	11/11/02																																
EP-107	10/21/99			0.015				0.005	u			0.01	u			0.025	u			0.18				0.003	u			0.49				0.027	
EP-107	1/24/00			0.012				0.005	u			0.01	u			0.025	u			0.1	u			0.009	uu			0.42				0.02	u
EP-107	4/25/00			0.022				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.44				0.039	
EP-107	8/3/00			0.022				0.005	u			0.01	u			0.025	u			0.1	u			0.005	u			0.45				0.024	
EP-107	11/3/00			0.029				0.029				0.01	u			0.025	u			0.1	u			0.003	u			0.42				0.035	uu
EP-107	2/12/01			0.03				0.005				0.01	u			0.025	u			0.1	u			0.003	u			0.45				0.074	
EP-107	5/8/01			0.026				0.006				0.01	u			0.025	u			0.1	u			0.003	u			0.45	u			0.073	
EP-107	7/17/01	0.019		0.022		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.28		0.003	u	0.004		0.12		0.11		0.028		0.069	
EP-107	10/31/01	0.066		0.055		0.041		0.039		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.005		0.49		0.47		0.033		0.028	
EP-107	2/20/02	0.057		0.066		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.12		0.003	u	0.003	u	0.49		0.38	u	0.036		0.037	
EP-107	5/1/02	0.039		0.035		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.43		0.42		0.02	u	0.042	
EP-107	8/20/02	0.028		0.029		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.42		0.45		0.029		0.034	
EP-107	8/20/02	0.03		0.028		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.41		0.46		0.02		0.02	u
EP-107	11/11/02																																
EP-108	10/26/99			0.7	u			0.005	u			0.01	uuu			0.025	u			2.3	uuu			0.004	u			0.037	uuu			0.06	
EP-108	1/28/00			1.4				0.005	u			0.01	u			0.025	u			0.52				0.006				0.046				0.034	

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-108	5/2/00			1.2				0.005	U			0.01	U			0.025	U			0.49				0.006				0.043				0.027	
EP-108	8/9/00			1.3				0.005	U			0.01	U			0.025	U			0.12				0.005				0.05				0.021	
EP-108	11/9/00			1.2				0.005	U			0.01	U			0.025	U			0.11				0.003	U			0.05				0.02	U
EP-108	2/15/01			1.1				0.005	U			0.01	U			0.025	U			0.51				0.004				0.049				0.014	
EP-108	5/14/01			1.1				0.005	U			0.01	U			0.025	U			0.57	J4			0.007				0.043				0.031	
EP-108	7/25/01	1.2		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.48		0.003	U	0.003		0.045		0.045	J2	0.02	U	0.023	J4
EP-108	11/12/01	1.1		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.65		0.003	U	0.009		0.043		0.057		0.02	U	0.037	
EP-108	2/19/02	1.1		1.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.027		0.1	U	0.18		0.003	U	0.008		0.046		0.048		0.02	U	0.023	
EP-108	5/7/02	1.1		1		0.005	U	0.005	U	0.01	U	0.022		0.025	U	0.074		0.1	U	0.63		0.003	U	0.008		0.044		0.04		0.02	U	0.038	
EP-108	8/20/02	1.2		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.18		0.003	U	0.003	U	0.041		0.04		0.02	U	0.02	U
EP-108	11/13/02	0.94		0.95		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.32		0.003	U	0.003	U	0.039		0.04		0.02	U	0.02	U
EP-108	11/13/02	0.94		0.93		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.28		0.003	U	0.003	U	0.039		0.039		0.02	U	0.02	U
EP-109	10/26/99			0.007	J4			0.005	U			0.01	U,J4			0.025	U			0.91	J2,J4			0.003	U,J4			0.063	J2,J4			0.02	
EP-109	1/28/00			0.014				0.005	U			0.01	U			0.025	U			1.2				0.039				0.064				0.026	
EP-109	5/2/00			0.016	UJ1			0.005	U			0.01	U			0.025	U			0.76				0.006				0.063				0.026	
EP-109	8/9/00			0.011				0.005	U			0.01	U			0.025	U			0.16				0.003	U			0.056				0.022	
EP-109	11/9/00			0.019				0.005	U			0.01	U			0.025	U			0.22				0.003	U			0.064				0.02	U
EP-109	2/15/01			0.014				0.005	U			0.01	U			0.025	U			0.89				0.005				0.078				0.069	
EP-109	5/14/01			0.013				0.005	U			0.01	U			0.025	U			0.19	J4			0.003	U			0.072				0.026	
EP-109	7/25/01	0.033		0.026		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.28		0.003	U	0.003	U	0.067		0.07	J4	0.02	U	0.023	J4
EP-109	11/12/01	0.042		0.048		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.046		0.056		0.02	U	0.02	U
EP-109	2/15/02	0.01		0.01		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.047		0.047		0.02	U	0.02	U
EP-109	5/7/02	0.021		0.021		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.4		0.003	U	0.005		0.056		0.048		0.02	U	0.025	
EP-109	8/14/02	0.018		0.02		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.23		0.003	U	0.003	U	0.05		0.048		0.021		0.02	U
EP-109	11/11/02																																
EP-110	10/29/99			0.005	U			0.005	U			0.01	U			0.025	U			1.3	J2			0.013				0.017				0.02	U
EP-110	1/24/00			0.009				0.005	U			0.01	U			0.025	U			0.78				0.02	UJ1			0.017	UJ1			0.048	
EP-110	4/25/00			0.006				0.005	U			0.01	U			0.025	U			0.38				0.008				0.016				0.028	
EP-110	8/2/00			0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.005	U			0.017				0.02	U
EP-110	10/31/00			0.008				0.005	U			0.01	U			0.025	U			0.15	J4			0.003	U			0.016				0.047	UJ1,J4
EP-110	2/8/01			0.008				0.005	U			0.01	U			0.025	U			0.14				0.004				0.017				0.037	UJ1
EP-110	5/7/01			0.007				0.005	U			0.01	U			0.025	U			0.13				0.003	U			0.015				0.044	
EP-110	7/17/01	0.013		0.013		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.12		0.003	U	0.003	U	0.016		0.016		0.026		0.032	
EP-110	10/30/01	0.012		0.012		0.005	U,UJ4	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.15		0.003	U	0.003	U,UJ4	0.017		0.015	J4	0.02	U,UJ4	0.021	
EP-110	2/7/02	0.012		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.41		0.003	U	0.007		0.017		0.024		0.02	U	0.02	U
EP-110	2/7/02	0.012		0.011		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.5		0.003	U	0.008		0.017		0.024		0.02	U	0.02	J4
EP-110	4/30/02	0.013		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.004		0.016		0.016		0.02	U	0.02	U
EP-110	8/6/02	0.014		0.013		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.018		0.018		0.027		0.028	
EP-110	11/11/02																																
EP-111	10/28/99			0.97				0.005	U			0.01	U			0.039				15				0.047				0.01				0.13	J2
EP-111	1/29/00			0.91				0.005	U			0.01	U			0.025	U			2				0.003	U			0.005	U			0.02	U
EP-111	5/2/00			0.83				0.005	U			0.01	U			0.025	U			1.4				0.004				0.01				0.02	U
EP-111	8/14/00			0.97				0.005	U			0.01	U			0.025	U			1.6				0.003	U			0.007				0.02	U
EP-111	11/10/00			1.1				0.005	U			0.01	U			0.025	U			1.6				0.003				0.007				0.023	
EP-111	11/10/00			1.1				0.005	U			0.01	U			0.025	U			1.4				0.003				0.007				0.024	
EP-111	2/21/01			0.98				0.005	U			0.01	U			0.025	U			1.6				0.003	U			0.014				0.047	J4
EP-111	5/15/01			0.95				0.005	U			0.01	U			0.025	U			1.6				0.003	U			0.005				0.02	U
EP-111	7/31/01	0.98		0.93		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.3		1.4		0.003	U	0.003	U	0.011		0.008		0.02	U,J4	0.025	J4
EP-111	11/13/01	1		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.3		1.4		0.003	U	0.003	U	0.021		0.021		0.02	U	0.02	U
EP-111	2/20/02	1.1		0.95		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.5		1.5		0.003	U	0.003	U	0.005	U	0.009	J4	0.02	U	0.02	U

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-111	5/11/02	1	1.1	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.4	1.5	0.001 U	0.001 U	0.027	0.01	0.041	0.019
EP-111	8/16/02	1.1	1.1	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.3	1.4	0.003 U	0.005 U	0.010	0.015	0.02 U	0.02 U
EP-111	8/16/02	1.1	1.2	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.4	1.3	0.003 U	0.003 U	0.015	0.017	0.02 U	0.02 U
EP-112	10/28/99		0.012		0.005 U		0.01 U		0.025 U		11		0.015		0.012		0.096 J
EP-112	1/29/00		0.013		0.005 U		0.01 U		0.025 U		0.48		0.003 U		0.007		0.02 U
EP-112	5/2/00		0.013 UH		0.005 U		0.01 U		0.025 U		0.32		0.003		0.016		0.02 U
EP-112	8/14/00		0.015		0.005 U		0.01 U		0.025 U		0.42		0.003 U		0.016		0.02 U
EP-112	8/14/00		0.014		0.005 U		0.01 U		0.025 U		0.38		0.003 U		0.013		0.02 U
EP-112	11/10/00		0.03		0.005 U		0.01 U		0.025 U		0.29		0.003 U		0.012		0.02 U
EP-112	2/21/01		0.027		0.005 U		0.01 U		0.025 U		0.22		0.003 U		0.022		0.046 UH
EP-112	5/15/01		0.012		0.005 U		0.01 U		0.025 U		0.22		0.003 U		0.01		0.022
EP-112	7/31/01	0.03	0.029	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.21	0.25	0.003 U	0.003 U	0.018	0.018	0.02 U	0.02 U
EP-112	11/13/01	0.038	0.041	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.23	0.28	0.003 U	0.003 U	0.076	0.026	0.02 U	0.02 U
EP-112	2/20/02	0.029	0.025	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.13	0.17	0.003 U	0.003 U	0.005 U	0.017 U	0.02 U	0.02 U
EP-112	5/11/02	0.025	0.023	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.14	0.003 U	0.003 U	0.035	0.036	0.023	0.02 U
EP-112	8/16/02	0.019	0.017	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.15	0.18	0.003 U	0.003 U	0.025	0.024	0.02 U	0.02 U
EP-112	11/7/02	0.022	0.023	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1	0.003 U	0.003 U	0.022	0.023	0.024 U	0.02 U
EP-113	10/28/99		0.005		0.005 U		0.01 U		0.025 U		4.5 J		0.009		0.005 U		0.051
EP-113	1/29/00		0.005 U		0.005 U		0.01 U		0.025 U		1.3		0.003		0.005 U		0.02 U
EP-113	5/2/00		0.006 UH		0.005 U		0.01 U		0.025 U		0.77		0.003 U		0.006		0.02 U
EP-113	8/14/00		0.005		0.005 U		0.01 U		0.025 U		0.67		0.003 U		0.005 U		0.02 U
EP-113	11/10/00		0.015		0.005 U		0.01 U		0.025 U		0.72		0.003 U		0.005 U		0.02 U
EP-113	2/21/01		0.016		0.005 U		0.01 U		0.025 U		0.51		0.003 U		0.007		0.045 UH
EP-113	5/15/01		0.007		0.005 U		0.01 U		0.025 U		0.48		0.003 U		0.005 U		0.02 U
EP-113	7/31/01	0.013	0.013	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.66	0.78	0.003 U	0.003 U	0.005	0.005	0.02 U	0.02 U
EP-113	11/13/01	0.018	0.023	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.59	0.74	0.003 U	0.003 U	0.007	0.007	0.02 U	0.02 U
EP-113	2/20/02	0.013	0.008	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.44	0.62	0.003 U	0.003 U	0.005 U	0.005 UH	0.02 U	0.02 U
EP-113	5/11/02	0.012	0.011	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.66	0.79	0.003 U	0.003 U	0.007	0.005	0.02 U	0.02 U
EP-113	5/11/02	0.012	0.012	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.63	0.78	0.003 U	0.003 U	0.008	0.014	0.02 U	0.02 U
EP-113	8/16/02	0.01	0.01	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.6	0.64	0.003 U	0.003 U	0.006	0.007	0.02 U	0.02 U
EP-113	11/7/02	0.011	0.011	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.65	0.72	0.003 U	0.003 U	0.005 U	0.006	0.02 U	0.02 U
EP-114	11/18/99		118		0.13		0.019		0.044		58		0.02		0.06		35
EP-114	1/31/00		214		2.7		0.16		11		361		6.6		0.12		75
EP-114	5/4/00		203		2.6		0.11		2.3		266		2.1		0.05 U		56
EP-114	8/14/00		240		1.7		0.066		1.6		210		1.1		0.063		51
EP-114	11/10/00		250		2.2		0.062		0.95		172		0.53		0.01 U		51
EP-114	5/4/01		292		3		0.044		1.5		173		0.87		0.17		109
EP-114	7/16/01	227	280	0.12	2.2	0.01 U	0.15	0.025 U	0.87	47	325	0.003 U	0.41	0.062	0.14	6.5	76
EP-114	10/30/01	314	323	0.1 H	1	0.01 U	0.11	0.025 U	0.34	48	174	0.003 U	0.18	0.049	0.056 H	7.2	39
EP-114	2/5/02	287	320	0.078	4	0.01 U	0.2	0.025 U	0.61	45	390	0.003 U	0.24	0.11	0.18	6.3	110
EP-114	4/29/02	277	290	0.087	3.7	0.01 U	0.19	0.025 U	0.4	44	398	0.003 U	0.23	0.1 U	0.12	7.5	118
EP-114	8/5/02	283	301	0.27	0.93	0.01 U	0.037	0.025 U	0.087	45	117	0.003 U	0.065	0.1 U	0.1 U	10	29
EP-114	11/4/02	318	316	0.14	0.84	0.01 U	0.03	0.025 U	0.12	48	101	0.01 U	0.12	0.02 U	0.02 U	8.4	24
EP-115	11/22/99		0.28		1.1		0.01 U		0.49		2.8		0.18		0.08		0.8
EP-115	1/31/00		0.26		0.19		0.01 U		0.14		0.87		0.03		0.42		0.34
EP-115	5/4/00		0.25		0.15		0.01 U		0.18		1.5 J4		0.084		0.11		0.29
EP-115	8/14/00		0.25		0.14		0.01 U		0.18		0.48		0.037		0.31		0.24
EP-115	11/10/00		0.45		0.17		0.01 U		0.42		0.93		0.19		1.7		0.5
EP-115	2/23/01																
EP-115	5/4/01																

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-115	7/16/01	0.29	0.29	0.13	0.13	0.01 u	0.01 u	0.14	0.2	0.1 u	0.65	0.025	0.077	0.1	0.11	0.19	0.45 u
EP-115	10/30/01																
EP-115	2/20/02																
EP-115	4/29/02																
EP-115	8/5/02																
EP-115	11/4/02																
EP-116	11/18/99		2.3		1.2		0.032		3.7		41		2		0.47		6
EP-116	1/31/00		4.9		1.5		0.044		6.9		90		4.1		0.42		4.4
EP-116	5/4/00		3.3		0.66		0.022		1.9		32		1.4		0.29		2.1
EP-116	8/14/00		3.1		0.4		0.01 u		5.6		11		0.55		0.19		2.4
EP-116	11/10/00		1.5		0.8		0.01 u		15		17		1.1		0.21		6.3
EP-116	2/22/01		6		1.6		0.069		38		77		4.2		0.37		7.4
EP-116	5/4/01		6.2		1.4		0.039		30		72		3.7		0.32		7.4
EP-116	7/16/01	3.2	11	0.37	3.2	0.01 u	0.12	1.5	70	0.1 u	170	0.02	9.5	0.25	0.36	2.6	15
EP-116	10/30/01	3.3	5.6	0.23 J4	1	0.01 u	0.04	0.61	20	0.1 u	50	0.011	2.7 J4	0.2	0.3 J4	1.5 J4	5.7
EP-116	10/30/01	3.1	5.3	0.31 J4	0.86	0.01 u	0.035	0.74	17	0.1 u	44	0.014	2.1 J4	0.24	0.24 J4	1.7 J4	4.9
EP-116	2/20/02	3	5.3	0.33	1.1	0.01 u	0.031	1.3	13	0.1 u	45	0.016	2.3	0.18	0.19 J4	2.5 J4	5.7
EP-116	4/29/02	3.5	11	0.28	3.5	0.01 u	0.15	1.1	58	0.1 u	173	0.019	9.9	0.16	0.35	1.9	15
EP-116	8/5/02	0.043	4.7	2.5	3	0.01 u	0.046	29	92	0.1 u	57	0.13	8.6	0.22	0.31	26	33
EP-116	11/4/02	2.8	5.1	0.25	0.9	0.01 u	0.02	2	25	0.1 u	36	0.012	0.2	0.21	0.31	1.9	5.5
EP-117	11/18/99		6		0.2		0.01 u		0.086		5.4		0.28		1.1		0.2
EP-117	1/31/00		11		2.7		0.16		2.1		228		10		1.1		3.4
EP-117	5/4/00		7.2		0.89		0.062		0.51		73		3.5		1.1		1.1
EP-117	8/14/00		5.8		0.54		0.028		0.35		37		1.8		0.95		0.79
EP-117	11/10/00		6.1		0.67		0.033		0.47		42		2.4		0.87		0.85
EP-117	2/22/01		6.4		1.2		0.064		0.77		78		4.1		1.3		1.0
EP-117	5/4/01		11		1.7		0.055		4.5		129		4.5		1.2		3.2
EP-117	7/16/01	6.6	7.4	0.12	0.66	0.01 u	0.034	0.025 u	0.4	0.1 u	46	0.007	2	1.3	1.1	0.11	0.97
EP-117	10/30/01	5.8	8.5	0.097 J4	1.1	0.01 u	0.11	0.025 u	1.3	0.1 u	124	0.009	6.9	1.1	1.1	0.055 u	2
EP-117	2/5/02	6.1	9.9	0.1	2.2	0.01 u	0.14	0.025 u	1.6	0.1 u	177	0.008	10	1.2	1.2	0.059	3.4
EP-117	4/29/02	6.1	7.1	0.092	0.88	0.01 u	0.032	0.025 u	0.63	0.1 u	68	0.006	3.3	1	1.1	0.043	1.3
EP-117	8/5/02	6	6.5	0.098	0.35	0.01 u	0.019	0.025 u	0.21	0.1 u	18	0.005	0.7	1.1	1	0.065	0.43
EP-117	11/4/02	6.1	6.2	0.12	0.23	0.01 u	0.01 u	0.025 u	0.075	0.1 u	7.6	0.004	0.41	1.1	1	0.15	0.35
EP-118	11/18/99		0.22		0.009		0.052		0.14		184		0.17		0.29		0.46
EP-118	1/31/00		0.43		0.071		0.27		1.2		868		2.5		0.28		1.7
EP-118	5/4/00		0.21		0.019		0.058		0.38		184		0.66		0.25		0.47
EP-118	8/14/00		0.22		0.005 u		0.01		0.073		37		0.12		0.3		0.11
EP-118	11/10/00		3		0.012		0.035		0.3		103		0.36		0.87		0.2
EP-118	2/22/01		1.4		0.061		0.27		1.2		784		1.4		0.39		2.3
EP-118	5/4/01		0.52		0.014		0.079		0.39		256		0.49		0.32		0.71
EP-118	7/17/01	0.18	0.45	0.005 u	0.026	0.01 u	0.073	0.025 u	0.77	0.1 u	369	0.003 u	1.1	0.28	0.28	0.02 u	1.1
EP-118	10/29/01	0.15	0.21	0.005 u	0.009	0.01 u	0.034	0.025 u	0.17	0.1 u	98	0.003 u	0.36	0.29	0.29	0.02 u	0.22
EP-118	2/5/02	0.22	0.93	0.005 u	0.038	0.01 u	0.26	0.025 u	1	0.1 u	767	0.003 u	0.88	0.35	0.35	0.02 u	2.2
EP-118	4/29/02	1.4	2.8	0.005 u	0.074	0.01 u	0.26	0.025 u	1.4	0.1 u	804	0.003 u	1.9	1.1	1.3	0.02 u	2.7
EP-118	8/5/02	1.7	2.1	0.011	0.073	0.01 u	0.025	0.038	1.6	0.1 u	57	0.013	1.9	1.3	1.2	0.041	1
EP-118	11/4/02	0.43	0.51	0.005 u	0.014	0.01 u	0.01 u	0.025 u	0.25	0.1 u	31	0.003 u	0.41	0.27	0.27	0.044	0.29
EP-119	5/15/01		2		0.005 u		0.01 u		0.025 u		0.27		0.003 u		0.26		0.020
EP-119	7/27/01	2.2	2.2	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.26	0.28 J4	0.046	0.045 J4
EP-119	7/27/01	2.2	2.3	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.26	0.28 J4	0.048	0.051 J4
EP-119	11/14/01	2.2	2.1	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	19	0.003 u	0.003 u	0.22	0.24	0.02 u	0.02

Appendix II

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Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-119	2/13/02	2.1		1.9		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.9		0.003	U	0.008		0.19		0.18		0.012		0.04	
EP-119	5/9/02	2.1		2.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.072		0.1	U	0.13		0.003	U	0.004		0.2		0.16		0.02	U	0.02	U
EP-119	8/13/02	2.1		2.4		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.19		0.2		0.026		0.001	
EP-119	11/12/02	2.1		2.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.32		0.003	U	0.003	U	0.17		0.16		0.02	U	0.02	U
EP-119	11/12/02	2.1		2.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.35		0.003	U	0.003	U	0.17		0.16		0.02	U	0.02	U
EP-12	11/3/97	1.3				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.9				0.022			
EP-12	2/3/98	1.2				0.005	U			0.01	U			0.025	0.004			0.15	J			0.003	U			1.7				0.02	0.020		
EP-12	5/20/98	1				0.005	U			0.01	U			0.031				0.1	U			0.004	U			0.57				0.031			
EP-12	8/27/98	1.5				0.019				0.01	U			0.025	U			0.58				0.003	U			0.47				0.02			
EP-12	11/16/98	1.6				0.005	U			0.01	U			0.025	U			0.75				0.003	U			0.29				0.021			
EP-12	2/25/99	1.8				0.005	U			0.01	U			0.025	U			4.7				0.003	U			0.53				0.02	U		
EP-12	5/14/99	2.4				0.005	U			0.01	U			0.025	U			0.74				0.003	U			0.26	U			0.024			
EP-12	5/14/99	2.7				0.005	U			0.01	U			0.025	U			0.76				0.003	U			0.32	U			0.035			
EP-12	8/11/99	1.7		2		0.005	U	0.005	U	0.01	U	0.01		0.025	U	0.025	U	0.75		1.4	J	0.003	U	0.004		0.2		0.48		0.024	0.0	0.02	U
EP-12	10/29/99			3.3				0.005	U			0.015				0.031				0.44	J2			0.021				0.42				0.02	U
EP-12	2/8/00			2.3				0.005	U			0.01	U			0.025	U			1.6				0.009				0.26				0.02	U
EP-12	2/8/00			2.6				0.005	U			0.011				0.025	U			1.5				0.011				0.28				0.021	
EP-12	5/9/00			2				0.005	U			0.017				0.038				2.8				0.024				0.61				0.032	0.012
EP-12	8/16/00			1.8				0.005	U			0.028				0.044				3.7				0.028				0.71	J			0.038	J
EP-12	11/14/00			2.1				0.005	U			0.011				0.045				3.6				0.028				0.43				0.038	J
EP-12	2/26/01			0.92				0.005	U			0.01	U			0.025	U			0.92				0.015	J			0.1				0.032	J
EP-12	5/17/01			0.83				0.005	U			0.01	U			0.025	U			1.2				0.005				0.069				0.02	U
EP-12	7/30/01	0.71		0.96		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.17		2.5		0.003		0.01		0.032		0.097		0.02	0.004	0.024	J
EP-12	11/19/01	1.3		1.4		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.52		2.5		0.003	U	0.015		0.1		0.12		0.03		0.03	
EP-12	2/21/02	1.3		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.41		2.9	J	0.003	U	0.011		0.003		0.14		0.02	U	0.02	0.01
EP-12	5/14/02	0.49		0.89		0.005	U	0.005	U	0.01	U	0.013		0.025	U	0.025	U	0.11		1		0.003	U	0.003		0.052		0.045		0.02	U	0.02	U
EP-12	8/21/02	0.63		0.72		0.005	U	0.005	U	0.015		0.027		0.025	U	0.025	U	0.1	U	0.28		0.003	U	0.003	U	0.071		0.087		0.02	U	0.027	
EP-12	11/25/02	1		1.3		0.005	U	0.005	U	0.012		0.01	U	0.025	U	0.025	U	0.18		0.75		0.003	U	0.004		0.076		0.11		0.02	U	0.02	U
EP-120	5/7/01			0.27				0.005	U			0.01	U			0.025	U			0.17				0.003	U			0.058	J			0.036	
EP-120	8/1/01	0.35		0.35		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.57		0.003	U	0.003	U	0.15		0.15		0.02	U	0.023	
EP-120	8/1/01	0.35		0.36		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.55		0.003	U	0.003	U	0.15		0.15		0.02	U	0.02	U
EP-120	11/12/01	0.38		0.4		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.4		0.003	U	0.003		0.11		0.11		0.02	U	0.027	
EP-120	2/19/02	0.29		0.29		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.01		0.1	U	0.33		0.003	U	0.005		0.27		0.25		0.022		0.039	
EP-120	5/7/02	0.29		0.28		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.035		0.1	U	0.61		0.003	U	0.009		0.088		0.074		0.02	U	0.043	
EP-120	8/20/02	0.25		0.26		0.005	U	0.005	U	0.01	U	0.01	U	0.035		0.012		0.1	U	0.29		0.003	U	0.004		0.29		0.26		0.036		0.051	
EP-120	11/13/02																																
EP-121	5/7/01			0.59				0.005	U			0.01	U			0.025	U			0.8				0.01				0.031	J			0.046	
EP-121	8/1/01	0.57		0.6		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.97		0.003	U	0.003	U	0.032		0.031		0.02	U	0.02	
EP-121	11/19/01	0.64		0.62		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.9		0.003	U	0.005		0.027		0.026		0.02	U	0.03	
EP-121	2/20/02	0.59		0.52		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.42		0.003	U	0.003	U	0.002		0.021	J	0.024		0.02	U
EP-121	5/14/02	0.55		0.63		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.46		0.003	U	0.003	U	0.026		0.023		0.02	U	0.02	U
EP-121	8/20/02	0.5		0.48		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.49		0.003	U	0.003	U	0.026		0.025		0.02	U	0.02	U
EP-121	11/13/02	0.5		0.49		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.58		0.003	U	0.003	U	0.025		0.024		0.02	U	0.023	
EP-122	5/14/01			2.1				0.005	U			0.01	U			0.025	U			1.1	J			0.003	U			0.19				0.02	U
EP-122	7/27/01	2.2		2.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.18		0.19	J	0.079		0.079	J
EP-122	11/13/01	2.4		2.3		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.38		0.003	U	0.003	U	0.16		0.17		0.02	U	0.02	U
EP-122	2/19/02	2.1		2.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.15		0.15		0.02	U	0.043	
EP-122	5/11/02	2.3		2.5		0.008		0.007		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.13		0.003	U	0.003	U	0.16		0.15		0.028		0.031	
EP-122	8/15/02	2.3		2.5		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.15		0.16		0.02	U	0.02	U
EP-122	11/7/02	2.2		2.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.24		0.24		0.02	U	0.02	U

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-123	5/8/01		1.5		0.005 U		0.01 U		0.025 U		1.4		0.005		0.082		0.014
EP-123	7/25/01	1.7	1.7	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.72	0.003 U	0.003 U	0.073	0.074 J	0.02 U	0.02 0.001
EP-123	11/12/01	1.5	1.7	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1	0.003 U	0.003 U	0.063	0.077	0.02 U	0.02 U
EP-123	2/15/02	1.6	1.6	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.37	0.069	0.02 U	0.02 U
EP-123	5/7/02	1.6	1.5	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.15	0.003 U	0.003 U	0.07	0.058	0.02 U	0.02 U
EP-123	8/14/02	3	3	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.074	0.074	0.02 U	0.02 U
EP-123	11/13/02	1.9	1.9	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.065	0.064	0.02 U	0.02 U
EP-124	5/16/01		7.1		0.024		0.018		0.087		22		0.19		0.005 U		0.16
EP-124	7/27/01	10	9.8	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.79	0.008	0.018	0.005	0.005 J	0.03	0.044 J
EP-124	11/19/01																
EP-124	2/21/02	11	12	0.005 U	0.016	0.01 U	0.032	0.025 U	0.1	0.1 U	15	0.005	0.15	0.011	0.018	0.0374	1.7
EP-124	5/11/02	11	11	0.005 U	0.007	0.01 U	0.01 U	0.025 U	0.066	0.1 U	5.4	0.005	0.067	0.005 U	0.005 U	0.041	0.12
EP-124	8/22/02	10	9.9	0.005 U	0.005	0.01 U	0.01 U	0.025 U	0.045	0.19	4	0.003	0.059	0.009	0.019	0.028	0.089
EP-124	11/25/02	7.8	7.8	0.005 U	0.01	0.01 U	0.01 U	0.025 U	0.064	0.79	7.8	0.003 U	0.068	0.009	0.01	0.033	0.1
EP-125	5/3/01		0.013		0.005 U		0.01 U		0.025 U		1.2		0.003 U		0.04 J		0.22
EP-125	7/19/01	0.026	0.04	0.005 U	0.005 U	0.01 U	0.087	0.025 U	0.092	0.1 U	81	0.003 U	0.11	0.21	0.2	0.93	1.5 J
EP-125	11/1/01	0.042	0.056	0.005 U	0.009	0.01 U	0.03	0.025 U	0.072	0.22	55	0.003 U	0.18	0.18	0.18	1.4	3.1
EP-125	2/11/02	0.038	0.041	0.005 U	0.005 U	0.01 U	0.018	0.025 U	0.029	0.1 U	20	0.003 U	0.035	0.19	0.22 J	2.7	2.6
EP-125	5/7/02	0.031	0.035	0.005 U	0.005 U	0.01 U	0.014	0.028	0.048	0.1 U	15	0.003 U	0.023	0.22	0.19	1	3.1
EP-125	8/9/02	0.016	0.017	0.005	0.005	0.01 U	0.01 U	0.025	0.042	0.1 U	3.1	0.003 U	0.014	0.27	0.31	2.5	2.5
EP-125	11/14/02																
EP-126	5/8/01		0.021		0.005 U		0.01 U		0.025 U		1.8		0.009		0.91		0.083
EP-126	7/19/01	0.039	0.042	0.006	0.006	0.057	0.051	0.025 U	0.025 U	0.1 U	1.1	0.003 U	0.004 J	1.2	1.3	0.05	0.064 J
EP-126	11/1/01	0.045	0.034	0.006	0.005 U	0.079	0.075	0.025 U	0.025 U	0.1 U	0.32	0.003 U	0.006	1	0.99	0.051	0.058
EP-126	2/12/02	0.068	0.068	0.005 U	0.005 U	0.039	0.051 J	0.025 U	0.025 0.001 J	0.1 U	0.21 J	0.003 U	0.003 0.004	0.98	0.98	0.047	0.055
EP-126	5/7/02	0.051	0.044	0.01	0.009	0.14	0.14	0.025 U	0.025 U	0.1 U	0.29	0.003 U	0.003 U	1	0.89	0.02 U	0.035
EP-126	8/9/02	0.02	0.018	0.007	0.007	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.004	0.65	0.65	0.043	0.049
EP-126	11/14/02																
EP-127	5/8/01		2.5		0.005 U		0.01 U		0.025 U		1.3		0.003 U		0.028		0.032
EP-127	7/31/01	2.5	2.5	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.1	1.5	0.003 U	0.003 U	0.024	0.02	0.021 J	0.026 J
EP-127	11/13/01	1.9	2.1	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.64	0.78	0.003 U	0.003 U	0.033	0.035	0.02 U	0.02 U
EP-127	2/20/02	2	2	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.49	0.66	0.003 U	0.003 U	0.005 U	0.012 J	0.021	0.02 U
EP-127	5/11/02	2.1	2.3	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.6	0.78	0.003 U	0.003	0.03	0.036	0.045	0.044
EP-127	8/16/02	2.7	3	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.85	0.97	0.003 U	0.003 U	0.029	0.029	0.02 U	0.02 U
EP-127	11/7/02	2.5	2.5	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.46	0.63	0.003 U	0.003 U	0.016	0.018	0.033	0.03
EP-128	5/8/01		0.61		0.005 U		0.01 U		0.025 U		1		0.003		0.005 U		0.033
EP-128	7/31/01	0.74	0.68	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.52	0.68	0.003 U	0.003 U	0.01	0.007	0.02	0.02 0.001
EP-128	11/13/01	0.61	0.71	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.47	0.85	0.003 U	0.003 U	0.018	0.019	0.02 U	0.02 U
EP-128	2/20/02	0.61	0.55	0.006	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.45	0.65	0.003 U	0.003 U	0.005 U	0.007 J	0.02 U	0.02 U
EP-128	2/20/02	0.6	0.56	0.006	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.4	0.68	0.003 U	0.003 U	0.005 U	0.007 J	0.02 U	0.02 U
EP-128	5/11/02	0.68	0.77	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.75	1.1	0.003 U	0.003 U	0.02	0.028	0.031	0.028
EP-128	8/16/02	0.71	0.75	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.56	0.63	0.003 U	0.003 U	0.018	0.019	0.045	0.02 U
EP-128	11/7/02	0.66	0.7	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.45	0.7	0.003 U	0.003 U	0.01	0.014	0.03	0.024
EP-128	11/7/02	0.66	0.69	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.39	0.74	0.003 U	0.003 U	0.011	0.012	0.028	0.027
EP-129	5/11/01		0.011		0.005 U		0.01 U		0.025 U		8.6		0.007 0.01		0.028		0.063 0.01
EP-129	7/24/01	0.007	0.008	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	2.6	0.003 U	0.003 U	0.038	0.036	0.02 U	0.028
EP-129	11/2/01	0.011	0.012	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.95	0.003 U	0.003 U	0.036	0.037	0.022	0.023
EP-129	2/14/02	0.011 J	0.011	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.59	0.003 U	0.003 U	0.032	0.031 J	0.02 U	0.023
EP-129	5/8/02	0.009	0.011	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	2	0.003 U	0.004	0.035	0.033	0.02 U	0.022
EP-129	8/19/02	0.007	0.008	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	2.3	0.003 U	0.003 U	0.033	0.034	0.02 U	0.02 U

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-129	11/11/02																
EP-13	8/7/97	49		0.82		0.01 u		0.025 u		0.1 u		0.008		7		0.052 u	
EP-13	11/6/97	46		0.8		0.01 u		0.025 u		0.15		0.003 u		6.7		0.033	
EP-13	2/17/98	48		0.68		0.01 u		0.027		0.1	0.004	0.003 u		6.1		0.025 u	
EP-13	5/7/98	36		0.71		0.01 u		0.025		0.1 u		0.003 u		5.7		0.059	
EP-13	8/6/98	36		0.7		0.01 u		0.025 u		0.1 u		0.003 u		5.4		0.1	
EP-13	11/4/98	39 u		0.77		0.01 u		0.025 u		0.1 u		0.003 u		5.7		0.072	
EP-13	2/8/99	36		0.74		0.01 u		0.025 u		0.1 u		0.003 u		5.1		0.1	
EP-13	5/6/99	38		0.65		0.01 u		0.025 u		0.1 u		0.007		5.1		0.077	
EP-13	8/3/99	39	38	0.66	0.66	0.01 u	0.01 u	0.048	0.050	0.1 u	0.4	0.003 u	0.009	5.9	5.7	0.067	0.068 u
EP-13	10/28/99		31		0.38		0.01 u		0.025 u		0.47 u		0.01		4.4 u		0.03
EP-13	1/25/00		34		0.53		0.01 u		0.025 u		0.47 u		0.025 u		4.5		0.02
EP-13	4/26/00		32		0.57		0.01 u		0.025 u		0.25		0.008		5.3		0.028
EP-13	8/4/00		17		0.36		0.01 u		0.03		0.65		0.017		3.1		0.034
EP-13	11/2/00		29		0.56		0.01 u		0.025 u		0.25 u		0.009		5.3		0.05 u
EP-13	2/9/01		1.6		0.005 u		0.01 u		0.025 u		0.1		0.004		0.32 u		0.019
EP-13	5/8/01		25		0.54		0.01 u		0.025 u		0.27		0.006		4.5 u		0.078
EP-13	7/18/01	30	28	0.47	0.52	0.01 u	0.01 u	0.028	0.026	0.1 u	0.22	0.003 u	0.006 u	4.5	4.6	0.041	0.045
EP-13	10/31/01	32	31	0.58	0.59	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.33	0.003 u	0.01	4.4	4.4	0.026	0.021
EP-13	2/7/02	26	23	0.48	0.47	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.26	0.003 u	0.006	4	4	0.02 u	0.02 u
EP-13	5/2/02	25	22	0.51	0.41	0.01 u	0.01 u	0.025 u	0.025 u	0.2	0.1 u	0.008	0.009	3.9	3.3	0.02 u	0.045
EP-13	8/7/02	28	30	0.49	0.56	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.14	0.003 u	0.005	4.8	5.6	0.027	0.049
EP-13	11/5/02	23	26	0.48	0.52	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.12	0.003 u	0.003	4	4.4	0.037	0.013
EP-130	6/8/01	0.44	0.56	0.005 u	0.005 u	0.015	0.01 u	0.025 u	0.025 u	0.48	2.6	0.003 u	0.005	0.36	0.25	0.05	0.088
EP-130	7/26/01	0.13	0.16	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025	0.11	9.4	0.003	0.033	0.24	0.22 u	0.053	0.072 u
EP-130	7/26/01	0.13	0.16	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025	0.1 u	9.9	0.003	0.034	0.24	0.23 u	0.053	0.075 u
EP-130	11/12/01	0.11	0.13	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.052	0.1 u	5.4	0.003 u	0.017	0.2	0.28	0.049	0.068
EP-130	2/11/02	0.29	0.29	0.006	0.005	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	1.3	0.003 u	0.007	0.23	0.25 u	0.043	0.016
EP-130	2/11/02	0.31	0.3	0.005	0.005	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	1.4	0.003 u	0.007	0.22	0.23 u	0.04	0.038
EP-130	5/2/02	0.35	0.42	0.013	0.012	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	1.2	0.003 u	0.008	0.25	0.26	0.038	0.054
EP-130	8/8/02	0.21	0.25	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	4.4	0.003 u	0.012	0.27	0.28	0.048	0.07
EP-130	11/11/02																
EP-131	6/8/01	0.91	0.9	0.005 u	0.005 u	0.012	0.011	0.025 u	0.025 u	0.57	0.79	0.003 u	0.005	0.15	0.098	0.021	0.048
EP-131	7/26/01	1.2	1.3	0.005 u	0.005	0.01 u	0.01 u	0.025 u	0.028	0.1 u	3	0.003 u	0.02	0.099	0.1 u	0.024	0.048 u
EP-131	11/12/01	1.2	1.2	0.005 u	0.012	0.01 u	0.014	0.025 u	0.031	0.1 u	11	0.003 u	0.038	0.09	0.1	0.02 u	0.1
EP-131	11/12/01	1.2	1.2	0.005 u	0.012	0.01 u	0.014	0.025 u	0.025 u	0.1 u	11	0.003 u	0.04	0.091	0.1	0.02 u	0.1
EP-131	2/11/02	1.2	1.1	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	2.4	0.003 u	0.01	0.094	0.099 u	0.02 u	0.026
EP-131	5/2/02	1.2	1.2	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.89	0.003 u	0.007	0.11	0.11	0.02 u	0.02 u
EP-131	8/8/02	1.2	1.4	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.65	0.003 u	0.004	0.11	0.11	0.02 u	0.027
EP-131	11/11/02																
EP-132	6/8/01	1.5	1.5	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.91	0.003 u	0.022	0.27	0.2	0.02 u	0.021
EP-132	6/8/01	1.5	1.5	0.005 u	0.005 u	0.01 u	0.01	0.025 u	0.025 u	0.1	0.9	0.003 u	0.018	0.27	0.2	0.02 u	0.021
EP-132	7/27/01	1.9	2	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.75	0.003 u	0.003 u	0.27	0.28 u	0.02 u	0.021 u
EP-132	11/13/01	1.7	1.8	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	4.1	0.003 u	0.008	0.23	0.26	0.02 u	0.035
EP-132	2/19/02	1.8	1.8	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	1.1	0.003 u	0.003 u	0.21	0.22	0.02 u	0.02 u
EP-132	5/9/02	2	2	0.005 u	0.005 u	0.01 u	0.015	0.025 u	0.025 u	0.1 u	1	0.003 u	0.005	0.26	0.22	0.02 u	0.02 u
EP-132	8/13/02	2.1	2.3	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.44	0.003 u	0.003 u	0.21	0.26	0.025	0.03
EP-132	11/12/02	2.1	2	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.68	0.003 u	0.003 u	0.2	0.22	0.02 u	0.024
EP-133	12/16/02	2.2	2.1	<0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	1.9	2.4	0.003 u	0.006	0.15	0.14	0.04	0.026
EP-134	12/18/02	0.8	0.89	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.027	0.13	3.2	0.003 u	0.025	0.019	0.028	0.05	0.052

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-135	12/17/02	2.7		3		0.005	U	0.005	U	0.01	U	0.01		0.025	U	0.025	U	0.1	U	3.2		0.003	U	0.003		0.21		0.2		0.072		0.064	
EP-136	12/18/02	0.1		0.09		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.5		2		0.003	U	0.004		0.012		0.017		0.047		0.042	
EP-137	12/18/02	0.77		0.77		0.016		0.054		0.01	U	0.01	U	0.025	U	0.026		0.15		2.7		0.003	U	0.025		0.49		0.46		0.12		0.18	
EP-14	11/5/97	1.1				0.005	U			0.01	U			0.025	U			0.1				0.003	U			0.35				0.02	U		
EP-14	2/17/98	1.3				0.005	U			0.01	U			0.025	U			0.17	J4			0.004				0.3				0.02	U,J4		
EP-14	5/7/98	1.4				0.005	U			0.01	U			0.025	U			0.15				0.004				0.23				0.040			
EP-14	8/6/98	2.5				0.005	U			0.01	U			0.025	U			0.11				0.003	U			0.084				0.032			
EP-14	11/4/98	2.2	H			0.005	U			0.01	U			0.025	U			0.18				0.003				0.18				0.022			
EP-14	2/8/99	1.7				0.005	U			0.01	U			0.025	U			0.29				0.003				0.3				0.031			
EP-14	5/6/99	1.7				0.005	U			0.01	U			0.025	U			0.18				0.006				0.25				0.02	U		
EP-14	8/3/99	2.1		2.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.57		0.9		0.003	U	0.008		0.22		0.19		0.038		0.055	J2
EP-14	10/28/99			1.4				0.005	U			0.01	U			0.025	U			0.18	J2			0.003	U			0.2	J2			0.02	U
EP-14	1/25/00			1.5				0.005	U			0.01	U			0.025	U			0.18	J4			0.01	U,J1			0.21				0.01	
EP-14	4/26/00			1.3				0.005	U			0.01	U			0.025	U			0.12				0.005				0.19				0.028	
EP-14	8/4/00			1.3				0.005	U			0.01	U			0.025	U			0.28				0.004				0.19				0.02	U
EP-14	8/4/00			1.3				0.005	U			0.01	U			0.025	U			0.33				0.004				0.19				0.03	
EP-14	11/2/00			1.4				0.005	U			0.01	U			0.025	U			0.41	J4			0.004				0.2				0.035	U,H
EP-14	2/9/01			23				0.52				0.01	U			0.025	U			0.44				0.013				4.1				0.091	
EP-14	5/8/01			1.4				0.005	U			0.01	U			0.025	U			0.14				0.004				0.32	J4			0.047	
EP-14	7/18/01	1.5		1.5		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.33		0.39		0.003		0.004	U,J1	0.34		0.33		0.02	U	0.02	U
EP-14	10/31/01	1.6		1.6		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.18		0.19		0.003	U	0.005		0.32		0.28		0.02	U	0.02	U
EP-14	2/7/02	1.7		1.6		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003		0.31		0.31		0.02	U	0.02	U
EP-14	5/2/02	1.4		1.4		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.11		0.13		0.003	U	0.004		0.24		0.2		0.02	U	0.033	
EP-14	5/2/02	1.4		1.4		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.12		0.003	U	0.004		0.24		0.21		0.02	U	0.031	
EP-14	8/7/02	1.6		1.7		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.14		0.003	U	0.003	U	0.25		0.26		0.02	U	0.045	
EP-14	11/5/02	1.6		1.6		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.28		0.28		0.035		0.02	U
EP-15	8/7/97	0.076				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.17				0.022	J2		
EP-15	11/6/97	0.013				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.16				0.021			
EP-15	2/17/98	0.031				0.016				0.01	U			0.025	U			0.1	U,J4			0.003	U			0.16				0.02	U,J4		
EP-15	5/7/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.2				0.031			
EP-15	8/10/98	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.17				0.031			
EP-15	11/5/98	0.007	J4			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.14				0.048			
EP-15	2/8/99	0.025				0.015				0.01	U			0.025	U			0.1	U			0.003	U			0.12				0.045			
EP-15	2/8/99	0.028				0.014				0.01	U			0.025	U			0.1	U			0.003	U			0.12				0.06			
EP-15	5/5/99	0.008				0.005				0.01	U			0.025	U			0.1	U			0.003	U			0.15				0.066			
EP-15	8/3/99	0.012		0.014		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.74		0.003	U	0.003	U	0.17		0.15		0.02	U	0.021	J2
EP-15	8/3/99	0.012		0.014		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.74		0.003	U	0.003	U	0.17		0.15		0.02	U	0.022	J2
EP-15	10/28/99			0.021				0.012				0.01	U			0.025	U			1.2	J2			0.004				0.12	J2			0.02	U
EP-15	1/24/00			0.009				0.005	U			0.01	U			0.025	U			3.6				0.01	U,J1			0.14				0.02	U
EP-15	4/26/00			0.007				0.005	U			0.01	U			0.025	U			2.8				0.004				0.13				0.029	
EP-15	8/3/00			0.007				0.005	U			0.01	U			0.025	U			1.7				0.005	U			0.14				0.02	U
EP-15	11/2/00			0.008				0.005	U			0.01	U			0.025	U			2.1	J4			0.003				0.21				0.041	U,H
EP-15	11/2/00			0.009				0.005	U			0.01	U			0.025	U			1.4	J4			0.003	U			0.32				0.033	U,H
EP-15	2/12/01			0.011				0.005	U			0.01	U			0.025	U			1.6				0.003	U			0.27				0.06	
EP-15	5/8/01			0.013				0.008				0.01	U			0.025	U			2.4				0.004				0.23	J4			0.065	
EP-15	7/19/01	0.015		0.013		0.005		0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.8		0.003	U	0.003	U,J4	0.23		0.2		0.022		0.026	
EP-15	11/1/01	0.026		0.029		0.005		0.006		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.7		0.003	U	0.005		0.16		0.16		0.02	U	0.028	
EP-15	11/1/01	0.031		0.034		0.006		0.006		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.7		0.003	U	0.003	U	0.18		0.16		0.02	U	0.02	U
EP-15	2/3/02	0.017		0.021		0.015		0.015	J4	0.01	U	0.01	U,J4	0.025	U	0.025	U	0.1	U	1.6	J4	0.003	U	0.003	U	0.15		0.18	J4	0.02	U	0.021	
EP-15	5/1/02	0.014		0.014		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.7		0.003	U	0.004		0.22		0.18		0.02	U	0.035	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-15	8/7/02	0.011		0.01		0.005	U	0.005		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.1		0.003	U	0.003	U	0.21		0.22		0.02	U	0.029	
EP-15	11/11/02																																
EP-20	8/7/97	1.2				0.036				0.01	U			0.025	U			0.1	U			0.003	U			0.38				0.057	J2		
EP-20	11/3/97	1.2				0.04				0.01	U			0.026				0.1	U			0.003	U			0.35				0.059			
EP-20	2/3/98	0.96				0.048				0.01	U			0.036	J4			0.11	J4			0.003	U			0.37				0.003	J4		
EP-20	5/6/98	0.85				0.042				0.01	U			0.03				0.1	U			0.003	U			0.34				0.098			
EP-20	8/6/98	0.87				0.038				0.01	U			0.025	U			0.1	U			0.003	U			0.35				0.096			
EP-20	11/4/98	0.92	J4			0.034				0.01	U			0.025	U			0.1	U			0.003	U			0.37				0.051			
EP-20	2/4/99	0.79	J4			0.039				0.01	U			0.025	U			0.1	U			0.003	U			0.35				0.039	UJ		
EP-20	5/4/99	0.92				0.048				0.01	U			0.025	U			0.1	U			0.003	U			0.37				0.025			
EP-20	8/2/99	1		1.1		0.03		0.03		0.01	U	0.01	U	0.025	U	0.026		0.1	U	0.9		0.003	U	0.005	UJ	0.37		0.35		0.044		0.046	J2
EP-20	10/26/99			0.75	J4			0.03				0.01	UJ,J4			0.025	U			1.6	J4,J4			0.003	J4			0.27	J2			0.04	
EP-20	1/31/00			0.97				0.076				0.01	U			0.025	U			1.7				0.004				0.28				0.06	
EP-20	1/31/00			0.9				0.066				0.01	U			0.025	U			1.9				0.007				0.29				0.055	
EP-20	5/4/00			0.76				0.068				0.01	U			0.025	U			0.46	J4			0.003	U			0.3				0.042	UJ
EP-20	5/4/00			0.78				0.063				0.01	U			0.025	U			0.96	J4			0.003	U			0.31				0.037	UJ
EP-20	8/2/00			0.76				0.047				0.01	U			0.025	U			0.72				0.005	U			0.3				0.036	
EP-20	10/30/00			0.85				0.07				0.01	U			0.025	U			0.5	J4			0.003	UJ,J4			0.34				0.093	UJ,J4
EP-20	2/22/01			0.98				0.093				0.01	U			0.025	U			3.4				0.006				0.32				0.065	
EP-20	5/16/01			0.93				0.087				0.01	U			0.025	U			2.8	J4			0.006				0.34				0.04	
EP-20	5/16/01			0.92				0.091				0.01	U			0.025	U			2.1	J4			0.004				0.34				0.039	
EP-20	7/17/01	0.97		0.96		0.063		0.073		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	6.8		0.003	U	0.011		0.39		0.35		0.032		0.055	
EP-20	7/17/01	0.96		0.96		0.063		0.073		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	6.5		0.003	U	0.011		0.39		0.35		0.031		0.055	
EP-20	10/29/01	1		1.1		0.082		0.089		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.8		0.003	U	0.004		0.38		0.37		0.037		0.08	
EP-20	2/5/02	1.4		1.4		0.14		0.14		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.7	J4	0.003	U	0.004		0.31		0.28		0.036		0.072	UJ
EP-20	2/5/02	1.3		1.3		0.13		0.15		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.1	J4	0.003	U	0.004		0.32		0.26		0.035		0.076	UJ
EP-20	4/29/02	1.4		1.4		0.16		0.18		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	4.4		0.003	U	0.009		0.25		0.31		0.024		0.061	
EP-20	4/29/02	1.4		1.4		0.15		0.17		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	4.7		0.003	U	0.01		0.35		0.34		0.022		0.06	
EP-20	8/5/02	1.3		1.3		0.084		0.081		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.3		0.003	U	0.013		0.4		0.38		0.044		0.086	
EP-20	11/4/02	1.2		1.2		0.11		0.11		0.01	U	0.01	U	0.025	U	0.026		0.1	U	0.94		0.003	U	0.003		0.31		0.3		0.1		0.13	
EP-20	11/4/02	1.2		1.2		0.1		0.11		0.01	U	0.01	U	0.025	U	0.027		0.1	U	0.82		0.003	U	0.003		0.31		0.3		0.1		0.13	
EP-21	11/18/97	0.067				0.005	U			0.01	U			0.025	U			0.39				0.003	U			0.073				0.031			
EP-21	2/18/98	0.062	J4			0.005	U			0.01	U			0.025	U			0.17	J4,J4			0.003	U			0.095				0.038	J4		
EP-21	5/21/98	0.052				0.005	U			0.01	U			0.025	U			0.34				0.004	U			0.018				0.028			
EP-21	8/24/98	0.032				0.005	U			0.01	U			0.025	U			0.32				0.003	U			0.019				0.02			
EP-21	11/16/98	0.034				0.005	U			0.01	U			0.025	U			0.2				0.003	U			0.016				0.026			
EP-21	2/24/99	0.033				0.005	U			0.01	U			0.025	U			0.21				0.003	U			0.015				0.02	U		
EP-21	8/10/99	0.022		0.042		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.03		0.83		1.3	J4	0.003	U	0.016		0.005	U	0.017		0.031	UJ	0.079	UJ
EP-21	11/3/99			0.15				0.012				0.01	U			0.13				8.7				0.078	J4			0.015				1	
EP-21	2/1/00			0.064	J4			0.005	U			0.01	U			0.025	U			1.8	J4			0.007				0.071				0.15	
EP-21	5/8/00			0.062				0.005	U			0.01	U			0.034				1.7				0.013				0.025				0.28	J2
EP-21	8/16/00			0.068	J4			0.005	U			0.01	U			0.025	U			1.2				0.004				0.01	J4			0.35	J4
EP-21	8/16/00			0.054	J4			0.005	U			0.01	U			0.025	U			1				0.005				0.01	J4			0.2	J4
EP-21	11/14/00			0.036				0.005	U			0.01	U			0.026				0.83				0.005				0.013				0.19	J4
EP-21	11/14/00			0.038				0.005	U			0.01	U			0.025	U			1				0.004				0.012				0.24	J4
EP-21	2/26/01			0.067				0.011				0.01	U			0.076				4.9				0.029	J4			0.012				0.91	
EP-21	2/26/01			0.061				0.009				0.01	U			0.067				4.5				0.023	J4			0.012				0.79	
EP-21	5/16/01			0.037				0.005	U			0.01	U			0.025	U			1.9	J4			0.006				0.01				0.32	
EP-21	7/30/01	0.01		0.039		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.2		2.4	J4	0.003	U	0.006		0.005		0.01		0.02	U	0.38	
EP-21	11/15/01	0.012		0.1		0.005	U	0.021		0.01	U	0.01	U	0.025	U	0.15		0.79		11		0.003	U	0.015		0.005	U	0.006		0.02	U	1.8	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-21	2/21/02	0.013		0.025		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.23		1.3	J4	0.003	U	0.008		0.037		0.041		1.021		0.1	
EP-21	5/14/02	0.009		0.056		0.005	U	0.13		0.01	U	0.028		0.025	U	0.98		0.3		71		0.003	U	0.003	U	0.011		0.011		0.02	U	10	
EP-21	8/21/02	0.009		0.057		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.037		0.29		2.6		0.003	U	0.008		0.008		0.018		0.02	U	0.51	
EP-21	11/25/02	0.007		0.24		0.005	U	0.061		0.01	U	0.014		0.025	U	0.33		0.1	U	26		0.003	U	0.12		0.006		0.017		0.02	U	3.1	
EP-22	8/15/97	0.035				0.006				0.01	U			0.031				0.1	U			0.016				0.33				0.04			
EP-22	11/18/97	0.044	UJ1			0.005	U			0.01	U			0.025	U			0.1	U			0.006				0.11				0.91			
EP-22	2/18/98	0.035	J4			0.005				0.01	U			0.035				0.1	UJ1,UJ4			0.018				0.59				2.1			
EP-22	6/10/98	0.096				0.044				0.019				0.034				0.11				0.044				0.54				5.9			
EP-22	8/24/98	0.011				0.005	U			0.01	U			0.025	U			0.14				0.003	U			0.073				0.089			
EP-22	11/16/98	0.008				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.054				0.057			
EP-22	1/26/00			1.2				0.011				0.012				0.037				12				0.1				0.11				0.26	
EP-22	4/28/00			1.2				0.009				0.01	U			0.046				3.7	J4			0.075				0.21				0.36	J2
EP-22	8/7/00			1.5				0.013				0.01	U			0.036				0.87				0.006				0.53				0.41	
EP-22	11/3/00			2.6				0.009				0.01	U			0.026				0.19				0.003	U			1.1				0.23	
EP-22	2/14/01			3.4				0.009.				0.01	U			0.029				0.14				0.004				1.6				0.52	
EP-22	5/9/01			3				0.007				0.01	U			0.039				0.62				0.015				1.8				0.47	
EP-22	7/19/01	3.7		3.9		0.006		0.007		0.01	U	0.01	U	0.051		0.074		0.1	U	1.1		0.003	U	0.045	J4	.6		1.8		0.46		0.5	J4
EP-22	11/5/01	3.8		3.8		0.006		0.005		0.01	U	0.01	U	0.071		0.11		0.1	U	1.5		0.003	U	0.032		1.3		1.2		0.6		0.59	
EP-22	2/12/02	3.9		3.8		0.005	U	0.005		0.01	U	0.01	U,UJ4	0.065		0.092	J4	0.1	U	0.83	J4	0.003	U	0.03	J4	1		0.9		0.55		0.6	
EP-22	5/7/02	4.4		4		0.005		0.005	U	0.01	U	0.01	U	0.076		0.083		0.1	U	0.46		0.003	U	0.013		0.96		0.87		0.57		0.6	
EP-22	8/9/02	4.6		5.2		0.01		0.012		0.01	U	0.01	U	0.089		0.13		0.1	U	0.89		0.003	U	0.031		0.96		1.1		0.7		0.73	
EP-22	11/6/02	5.7		5.8		0.012		0.013		0.01	U	0.01	U	0.12		0.16		0.1	U	0.91		0.005	U	0.024		0.94		0.91		0.60		0.67	
EP-23	8/11/97	2.5				0.005	U			0.01	U			0.025	U			0.65				0.003	U			0.027				0.027			
EP-23	11/4/97	4				0.005	U			0.01	U			0.025	U			0.46				0.003	U			0.023				0.028			
EP-23	2/4/98	1.5				0.005	U			0.01	U			0.025	U,UJ4			0.25	J4			0.003	U			0.019				0.02	UJ4		
EP-23	5/11/98	4.2				0.005	U			0.01	U			0.025	U			0.63				0.003	U			0.011				0.015			
EP-23	8/12/98	1.6				0.005	U			0.01	U			0.025	U			0.49				0.003	U			0.009				0.023			
EP-23	11/5/98	2.5	J4			0.005	U			0.01	U			0.025	U			0.34	J4			0.003	U			0.005	U			0.02	U		
EP-23	2/11/99	0.81				0.005	U			0.01	U			0.025	U			0.33				0.003	U			0.011				0.02	U		
EP-23	5/7/99	1.9				0.005	U			0.01	U			0.025	U			0.26				0.003	U			0.005	U			0.02	J4		
EP-23	5/14/99	4.9				0.005	U			0.01	U			0.025	U			0.34				0.003	U			0.008	J4			0.02	U		
EP-23	8/4/99	8.8		9.4		0.005	U	0.005	U	0.01	U	0.01	U,UJ4	0.025	U	0.039	J4	0.49		0.78	J4	0.003	U	0.02	J4	0.005	U	0.009		0.02	U	0.099	
EP-23	10/30/99			11				0.008				0.01	U			0.24				0.93				0.088				0.013				0.14	J2
EP-23	2/1/00			3.1	J4			0.006				0.01	U			0.15				1.1	UJ1,J4			0.081				0.012				0.1	
EP-23	5/3/00			2.6				0.005				0.01	U			0.14				0.8				0.06				0.015				0.075	
EP-23	8/16/00			4.7				0.007				0.01	U			0.26				1.1				0.077				0.009	J4			0.1	J4
EP-23	11/13/00			7				0.005	U			0.01	U			0.15				1.1				0.043				0.011				0.074	UJ1
EP-23	2/21/01			8.6				0.016				0.01	U			0.45				1.4				0.16				0.013				0.33	
EP-23	5/10/01			5.2				0.012				0.01	U			0.18				6.5				0.12				0.005				0.11	
EP-23	7/20/01	0.77		0.96		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.04		0.37		1.2		0.003	U	0.02		0.013		0.018		0.02	U	0.035	
EP-23	11/14/01	1.2		1.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.038		0.48		1.1		0.003	U	0.028		0.006		0.014		0.02	U	0.028	
EP-23	2/21/02	0.89		0.65		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.036		0.47		1.3	J4	0.003	U	0.013		0.017		0.019		0.02	U	0.034	UJ1
EP-23	5/10/02	1.2		1.4		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.088		0.54		1.5		0.003	U	0.013		0.022		0.022		0.044		0.051	
EP-23	8/14/02	1.2		1.3		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.22		1.4		0.003	U	0.011		0.011		0.01		0.02	U	0.02	U
EP-23	11/12/02	0.96		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.55		1.2		0.003	U	0.008		0.014		0.015		0.024		0.033	
EP-24	8/15/97	0.47				0.005	U			0.01	U			0.025	U			4.4				0.003	U			0.014				0.035			
EP-24	11/18/97	0.071				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.079				0.02	U		
EP-24	2/18/98	0.031	J4			0.005	U			0.01	U			0.025	U			0.2	J4,J4			0.003	U			0.005	U			0.02	UJ4		
EP-24	5/21/98	0.38				0.005	U			0.01	U			0.12				0.81				0.004	U			0.005	U			0.33			
EP-24	8/24/98	0.06				0.005	U			0.01	U			0.025	U			0.35				0.003	U			0.01	U			0.02	U		

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-24	11/16/98	0.062		0.005 U		0.01 U		0.025 U		0.16		0.003 U		0.005 U		0.02 U	
EP-24	2/11/99	0.17		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.005		0.02 U	
EP-24	5/14/99	0.097		0.005 U		0.01 U		0.025 U		0.69		0.003 U		0.33 J		0.02 U	
EP-24	8/10/99	0.006	0.013	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.17 J	0.003 U	0.003 U	0.005 U	0.005 U	0.02 U	0.02 U
EP-24	11/3/99		0.007		0.005 U		0.01 U		0.022		1.4		0.009 J		0.005 U		0.024
EP-24	2/1/00		0.006 J		0.005 U		0.01 U		0.025 U		0.43 UJ,J		0.008		0.006		0.02 U
EP-24	5/8/00		0.028		0.005 U		0.01 U		0.025 U		0.14		0.003		0.013		0.02 U
EP-24	8/16/00		0.042 J		0.005 U		0.01 U		0.025 U		0.57		0.003 U		0.005 UJ,J		0.02 UJ,J
EP-24	11/14/00		0.01		0.005 U		0.01 U		0.025 U		0.53		0.004		0.005 U		0.024 J,UJ
EP-24	2/26/01		0.005 U		0.005 U		0.01 U		0.025 U		0.11		0.01 J		0.005 U		0.02 U
EP-24	5/16/01		0.055		0.005 U		0.01 U		0.025 U		0.1 UJ,J		0.003 U		0.005 U		0.02 U
EP-24	7/30/01	0.022	0.042	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.27 J	0.003	0.003 U	0.005 U	0.005 U	0.02 U	0.02 U
EP-24	11/15/01	0.033	0.048	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.12	0.3	0.003 U	0.003 U	0.005 U	0.005 U	0.02 U	0.02 U
EP-24	2/21/02	0.008	0.041	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.081	0.1 U	3.7	0.003 U	0.017	0.015	0.025	0.02 U	0.038 U
EP-24	5/10/02	0.4	0.67	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.47	1.7	0.003 U	0.012	0.005 U	0.005 U	0.11	0.13
EP-24	8/14/02	0.51	0.6	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.5	1.3	0.003 U	0.01	0.005 U	0.005 U	0.079	0.098
EP-24	11/12/02	0.13	0.26	0.005 U	0.007	0.01 U	0.01 U	0.025 U	0.025 U	0.36	1.2	0.003 U	0.006	0.005 U	0.005 U	0.07	0.094
EP-25	8/15/97	3		0.005 U		0.01 U		0.025 U		2.6		0.003 U		0.17		0.021	
EP-25	11/19/97	3.5		0.005 U		0.01 U		0.025 U		1.8		0.011		0.079		0.037	
EP-25	2/18/98	3.1		0.005 U		0.01 U		0.025 U		4 J		0.003 U		0.044		0.02 UJ,J	
EP-25	5/21/98	2.6		0.005 U		0.01 U		0.028		5.8		0.004 U		0.083		0.039	
EP-25	8/24/98	5.1		0.005 U		0.01 U		0.025 U		9.7		0.003 U		0.051		0.02 U	
EP-25	11/16/98	2.4		0.005 U		0.01 U		0.025 U		3		0.003 U		0.053		0.02 U	
EP-25	5/14/99	1		0.005 U		0.01 U		0.025 U		26		0.003 U		0.84 J		0.022	
EP-25	8/11/99	0.82	1.1	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	8	8.2 J	0.003 U	0.009	0.073	0.15	0.024 UJ,J	0.033
EP-25	11/3/99		7.8		0.005 U		0.01 U		0.06		6.7		0.052 J		0.3		0.038
EP-25	11/3/99		6.7		0.005 U		0.01 U		0.041		5.2		0.034 J		0.35		0.026
EP-25	2/8/00		4		0.006		0.01 U		0.14		7.5		0.12		0.22		0.1
EP-25	5/8/00		15		0.005 U		0.01 U		0.025 U		2.2		0.025		0.44		0.024 UJ,J
EP-25	8/16/00		6.5		0.005 U		0.01 U		0.011		1		0.012		0.13 J		0.026 J
EP-25	11/14/00		12		0.005 U		0.01 U		0.025 U		1		0.011		0.18		0.025 J,UJ
EP-25	2/26/01		4.8		0.005 U		0.01 U		0.025 U		1.1		0.009 J		0.088		0.064 UJ
EP-25	5/16/01		8		0.005 U		0.01 U		0.025 U		1.1 J		0.011		0.1		0.02 U
EP-25	7/30/01	2.8	7.4	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.3 J	0.003 U	0.007	0.11	0.16	0.02 U	0.027
EP-25	11/15/01	2.4	18	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.069	0.1 U	13	0.003 U	0.047	0.023	0.097	0.02 U	0.063
EP-25	2/21/02	0.21	38	0.005 U	0.013	0.01 U	0.01 U	0.025 U	0.18	0.1 U	9.9	0.003 U	0.1	0.1	0.94	0.024	0.13
EP-25	5/14/02	1.7	11	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.12	5.1	0.003 U	0.005	0.05	0.05	0.02 U	0.02 U
EP-25	8/21/02	3	10	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.13	0.21	7.9	0.003 U	0.063	0.022	0.17	0.02 U	0.098
EP-25	11/25/02	6.3	11	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.15	0.74	7.1	0.003 U	0.088	0.019	0.16	0.02 U	0.085
EP-26	8/11/97	0.32		0.62		0.01 U		0.21		0.12		0.036		0.079		9	
EP-26	11/4/97	0.32		1.5		0.01 U		0.16		0.1 U		0.01		0.27		4.2	
EP-26	2/4/98	0.58		0.18		0.01 U		0.042 J		0.1 UJ,J		0.01		0.05		0.56	
EP-26	5/7/98	0.45		0.18		0.01 U		0.025		0.1 U		0.007		0.059		0.57	
EP-26	8/12/98	0.38		0.28		0.01 U		0.037		0.1 U		0.005		0.065		1.2	
EP-26	11/4/98	0.28 J		0.44		0.01 U		0.026		0.1 U		0.003		0.23		1.5	
EP-26	2/4/99	0.38 J		0.15		0.01 U		0.025 U		0.1 U		0.004		0.057		0.52	
EP-26	5/5/99	0.31		0.73		0.01 U		0.039		0.1 U		0.01		0.23		2.3	
EP-26	8/4/99	0.23	0.28 J	3.5	2.5	0.01 U	0.01 UJ,J	0.082	0.28 J	0.1 U	2.2 J	0.015	0.1	0.64	0.56	7.1	5.4
EP-26	1/26/00		0.085		0.29		0.01 U		0.057		17		0.12		0.74		0.53
EP-26	4/28/00		0.31		0.29		0.01 U		0.025 U		16 J		0.014		1.1		0.87 J

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-26	8/7/00			0.38				0.35				0.01	U			0.025	U			0.89				0.008				1.1				1.2	
EP-26	11/7/00			0.3				0.26				0.01	0.004			0.025	U			1.2	J			0.01				0.92				1	
EP-26	2/20/01			0.26				0.21				0.01	U			0.025	U			0.57				0.006				1.1				0.74	
EP-26	5/10/01			0.26				0.34				0.01	U			0.025	U			0.76				0.006				1.1				0.95	
EP-26	5/10/01			0.28				0.35				0.01	U			0.025	U			0.76				0.006				1.1				0.98	
EP-26	7/26/01	0.39		0.38		0.43		0.41		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.5	J	0.003	U	0.003	U	1.3		1.1		1.4		1.6	
EP-26	11/12/01	0.21		0.23		0.23		0.24		0.01	U	0.01	U	0.025	U	0.085		0.1	U	0.92		0.003		0.008		0.96		1.1		0.6		0.64	
EP-26	2/13/02	0.25		0.27		0.21		0.21		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.34		0.003	U	0.003		1.1		0.94		0.6		0.72	
EP-26	2/13/02	0.25		0.26		0.22		0.21		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.32		0.003	U	0.003		1.1		0.98		0.63		0.7	
EP-26	5/9/02	0.32		0.31		0.3		0.28		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.61		0.003	U	0.005		0.99		0.91		0.98		1.1	
EP-26	8/12/02	0.4		0.45		0.41		0.43		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.11		0.003	U	0.003	U	1.2		1.3		1.5		1.7	
EP-26	11/6/02	0.25		0.24		0.23		0.22		0.01	U	0.01	U	0.027		0.025	U	0.1	U	0.41		0.005		0.005		0.98		0.95		0.78		0.72	
EP-29	8/7/97	0.31				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.2				0.022	U		
EP-29	11/3/97	0.48				0.005	U			0.01	U			0.025	U			1.8				0.003	U			0.12				0.03			
EP-29	2/3/98	0.29				0.005	U			0.01	U			0.025	0.004			0.11	J			0.003	U			0.19				0.02	0.16		
EP-29	5/6/98	0.21				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.16				0.021			
EP-29	8/6/98	0.26				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.24				0.028			
EP-29	11/4/98	0.31	J			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.02	U		
EP-29	2/3/99	0.26				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.15				0.03			
EP-29	5/4/99	0.3				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.13				0.02	U		
EP-29	5/4/99	0.31				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.12				0.02	U		
EP-29	8/2/99	0.26		0.26		0.005	U	0.005	U	0.01	U	0.014		0.025	U	0.025	U	0.1	U	7.2		0.003	U	0.008	UJ	0.12		0.11		0.02	U	0.029	U
EP-29	10/26/99			0.27	J			0.005	U			0.03	J			0.027				14	UJ			0.013	J			0.13	U			0.01	
EP-29	1/31/00			0.33				0.005	U			0.03				0.025	U			10				0.01				0.18				0.025	
EP-29	5/4/00			0.38				0.005	U			0.057				0.037				52				0.034				0.21				0.059	UJ
EP-29	8/2/00			0.28				0.005	U			0.01				0.025	U			13				0.009				0.13				0.042	
EP-29	10/30/00			0.28				0.005	U			0.01	U			0.025	U			4.3	J			0.007	J			0.15				0.041	UJ
EP-29	2/22/01			0.32				0.005	U			0.089				0.025	U			28				0.018				0.17				0.051	
EP-29	5/16/01			0.27				0.005	U			0.01	U			0.025	U			0.1	0.004			0.003	U			0.16				0.02	U
EP-29	7/17/01	0.27		0.28		0.005	U	0.005	U	0.01	U	0.015		0.025	U	0.025	U	0.1	U	14		0.003	U	0.01		0.16		0.14		0.02	U	0.037	
EP-29	10/29/01	0.25		0.31		0.005	U	0.005	U	0.01	U	0.037		0.025	U	0.025	U	0.16		17		0.003	U	0.013		0.16		0.17		0.02	U	0.045	
EP-29	2/5/02	0.27		0.37		0.005	U	0.005	U	0.01	U	0.025		0.025	U	0.047		0.1	U	59		0.003	U	0.04		0.15		0.23		0.02	U	0.16	
EP-29	4/29/02	0.25		0.43		0.005	U	0.005	U	0.01	U	0.059		0.025	U	0.042		0.1	U	62		0.003	U	0.039		0.18		0.2		0.02	U	0.11	
EP-29	8/5/02	0.25		0.27		0.005	U	0.005	U	0.01	U	0.013		0.025	U	0.025	U	0.1	U	7.3		0.003	U	0.014		0.16		0.15		0.02	U	0.029	
EP-29	11/4/02	0.24		0.26		0.005	U	0.005	U	0.01	U	0.023		0.025	U	0.025	U	0.1	U	2		0.003	U	0.014		0.15		0.15		0.027		0.066	
EP-35	8/7/97	0.4				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			1.4				0.026	U		
EP-35	11/3/97	0.4				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			6.7				0.022			
EP-35	2/3/98	0.37				0.005	U			0.01	U			0.025	0.004			0.1	J			0.003	U			4.1				0.021	U		
EP-35	5/6/98	0.62				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			2.5				0.049			
EP-35	8/6/98	0.26				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			2.5				0.025			
EP-35	11/4/98	0.59	J			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			1.5				0.024			
EP-35	2/4/99	0.51	J			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			2.9				0.02	U		
EP-35	5/4/99	0.58				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			2				0.02	U		
EP-35	8/2/99	0.82		0.78		0.005	U	0.005	U	0.01	U	0.015		0.025	U	0.025	U	0.1	U	1.6		0.003	U	0.009	UJ	2		1.7		0.02	U	0.027	J
EP-35	10/26/99			0.67	J			0.005	U			0.011	J			0.026				2.8	UJ			0.012	J			1.3	J			0.02	
EP-35	1/31/00			0.92				0.005	U			0.028				0.046				9.8				0.033				0.96				0.044	
EP-35	5/4/00			0.51				0.005	U			0.016				0.025	U			1.5	J			0.008				1.2				0.02	U
EP-35	8/2/00			0.62				0.005	U			0.036				0.025	U			1.9				0.011				1.1				0.039	
EP-35	10/30/00			0.73				0.005	U			0.012				0.025	U			1.1	J			0.007	J			1.2				0.047	UJ
EP-35	2/22/01			0.65				0.005	U			0.034				0.033				6.8				0.028				0.86				0.053	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-35	5/16/01		0.67		0.005 U		0.044		0.025 U		1.9 J		0.008		0.96		0.022
EP-35	7/17/01	0.59	0.68	0.005 U	0.005 U	0.01 U	0.074	0.025 U	0.025 U	0.1 U	3.2	0.003 U	0.013	0.98	0.92	0.02 U	0.031
EP-35	10/29/01	0.76	0.8	0.005 U	0.005 U	0.01 U	0.044	0.025 U	0.025 U	0.1 U	4.9	0.003 U	0.017	0.73	0.73	0.02 U	0.046
EP-35	2/5/02	0.45	0.69	0.005 U	0.005 U	0.01 U	0.026	0.025 U	0.025 U	0.1 U	9.8	0.003 U	0.017	0.62	0.63	0.02 U	0.071 UJ
EP-35	4/29/02	0.63	0.76	0.005 U	0.005 U	0.01 U	0.15	0.025 U	0.028	0.1 U	3.7	0.003 U	0.015	0.64	0.56	0.02 U	0.037
EP-35	8/5/02	0.55	0.58	0.005 U	0.005 U	0.01 U	0.042	0.025 U	0.025 U	0.1 U	0.69	0.003 U	0.009	0.71	0.68	0.02 U	0.02
EP-35	11/4/02	0.4	0.69	0.005 U	0.005 U	0.01 U	0.042	0.025 U	0.028	0.1 U	1.9	0.003 U	0.011	0.61	0.57	0.02	0.099
EP-4	8/6/97	0.16		0.005 U		0.01 U		0.025 U		1.1		0.003 U		0.005 U		0.02 U	
EP-4	11/4/97	0.14		0.005 U		0.01 U		0.025 U		0.85		0.003 U		0.005 U		0.02 U	
EP-4	2/4/98	0.068		0.005 U		0.01 U		0.025 UJ		0.91		0.003 U		0.005		0.02 UJ	
EP-4	5/5/98	0.085		0.005 U		0.01 U		0.025 U		1.3		0.003 U		0.005 U		0.02	
EP-4	8/5/98	0.14		0.005 U		0.01 U		0.025 U		1.4		0.003 U		0.005 U		0.02	
EP-4	2/3/99	0.08 J		0.005 U		0.01 U		0.025 U		0.29		0.003 U		0.005 U		0.02 U	
EP-4	5/5/99	0.086		0.005 U		0.01 U		0.025 U		0.68		0.003 U		0.005 U		0.02 U	
EP-4	8/2/99	0.15	0.13	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.9	2.2	0.003 U	0.015 UJ	0.005 U	0.005 U	0.02 U	0.025 U
EP-4	10/25/99		0.16		0.005 U		0.012		0.18		13 J		0.086		0.005 U		0.14
EP-4	1/29/00		0.13		0.005 U		0.01 U		0.025 U		7.5		0.057		0.005 U		0.074
EP-4	4/24/00		0.12		0.005 U		0.01 U		0.14		10		0.077		0.005 U		0.098
EP-4	8/1/00		0.14		0.005 U		0.01 U		0.025		3.2		0.016 UJ		0.005 U		0.025 UJ
EP-4	10/30/00		0.13		0.005 U		0.01 U		0.039		2.8 J		0.023 J		0.005 U		0.068 UJ,J
EP-4	10/30/00		0.14		0.005 U		0.01 U		0.029		2 J		0.017 J		0.005 U		0.062 UJ,J
EP-4	2/5/01		0.072		0.005 U		0.01 U		0.045		3.3		0.022		0.005 U		0.042 J
EP-4	5/4/01		0.075		0.005 U		0.01 U		0.26		22		0.1		0.005 U		0.17
EP-4	7/16/01	0.095	0.11	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.047	0.63	6.6	0.003 U	0.038	0.005 U	0.005 U	0.02 U	0.09
EP-4	10/29/01	0.1	0.14	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.98	2.9	0.003 U	0.01	0.005 U	0.005 U	0.02 U	0.04
EP-4	2/6/02	0.07	0.099 J	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.047	0.44	7.2	0.003 U	0.038	0.005 U	0.005 U	0.02 U	0.082 J
EP-4	4/29/02	0.073	0.079	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.041	0.4	4.8	0.003 U	0.03	0.005 U	0.005 U	0.02 U	0.03
EP-4	8/5/02	0.09	0.097	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.034	0.39	2	0.003 U	0.017	0.007	0.008	0.02 U	0.032
EP-4	11/4/02																
EP-43	11/3/97	0.78		0.005 U		0.01 U		0.025 U		1.1		0.003 U		0.053		0.02 U	
EP-43	2/3/98	1.2		0.005 U		0.01 U		0.025 UJ,J		0.17 J		0.003 U		0.15		0.02 UJ,J	
EP-43	5/20/98	0.72		0.005 U		0.01 U		0.025 U		1.6		0.004 U		0.52		0.02 U	
EP-43	8/27/98	0.78		0.005 U		0.01 U		0.025 U		0.15		0.003 U		0.61		0.04	
EP-43	11/16/98	7		0.005 U		0.01 U		0.025 U		9		0.003 U		0.094		0.02	
EP-43	2/25/99	1.3		0.005 U		0.01 U		0.025 U		0.48 J		0.003 U		0.17		0.02 U	
EP-43	2/25/99	1.1		0.005 U		0.01 U		0.025 U		0.77 J		0.003 U		0.19		0.02 U	
EP-43	5/14/99	0.37		0.005 U		0.01 U		0.025 U		0.96		0.003 U		0.14 J		0.020	
EP-43	8/11/99	0.33	0.32	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.8	1.7 J	0.003 U	0.003 U	0.27	0.27	0.02 U	0.02 U
EP-43	8/11/99	0.32	0.33	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.7	1.7 J	0.003 U	0.003 U	0.26	0.28	0.023 UJ	0.02 U
EP-43	10/29/99		1		0.005 U		0.01 U		0.027		1.7 J		0.015		0.15		0.03
EP-43	2/8/00		1.3		0.005 U		0.054		0.035		2.4		0.023		0.12		0.028
EP-43	8/16/00		1.4		0.005 U		0.046		0.069		2.1		0.011		0.14 J		0.054 J
EP-43	11/14/00		1.1		0.005 U		0.01 U		0.025 U		0.1		0.006		0.05		0.028 J,UJ
EP-43	2/26/01		0.62		0.005 U		0.01 U		0.025 U		0.4		0.004 J		0.078		0.022 UJ
EP-43	5/17/01		0.81		0.005 U		0.014		0.025 U		0.7		0.015		0.051		0.018
EP-43	7/30/01	0.24	0.44	0.005 U	0.005 U	0.01 U	0.031	0.025 U	0.026	0.24 J	1.2	0.006	0.022	0.01	0.011	0.028 J	0.05 J
EP-43	11/19/01	0.35	0.4	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.41	0.73	0.003 U	0.006	0.007	0.010	0.02 U	0.031
EP-43	2/21/02	0.71	0.83	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.12	0.62 J	0.003 U	0.009	0.037	0.056	0.02 U	0.039 UJ
EP-43	5/14/02	0.2	0.18	0.005 U	0.005 U	0.01 U	0.01	0.025 U	0.025 U	0.17	0.65	0.003 U	0.009	0.013	0.014	0.02 U	0.041
EP-43	8/21/02	0.59	0.86	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.17	0.33	0.003 U	0.009	0.013	0.031	0.02	0.029

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-44	10/26/99		3.1		0.005 U		0.01 U,UJ		0.036		1.1 J,UJ		0.028 J		0.089 J,UJ		0.12
EP-49	11/19/97	207		43		0.24		5.1		1732		0.11		0.11		379	
EP-49	2/19/98	464		43		0.047		0.089		2381		0.014		0.14		1900	
EP-49	5/21/98	274		43		0.1		0.044		1609		0.004 U		0.19		1138	
EP-49	8/27/98	417		40		0.05 U		0.1 U		1833		0.048		0.1 U		1480	
EP-49	11/16/98	294		38		0.037		0.025		1541		0.003 U		0.1 U		975	
EP-49	2/25/99	320		26		0.05 U		0.025 U		1266		0.003 U		0.25		789	
EP-49	5/14/99	354		29		0.011		0.031		1548		0.005		0.12 U		1003	
EP-49	11/2/99		221		13		0.023		1.2		631 J		0.78		0.11		420
EP-49	1/29/00		40		0.28		0.017		0.045		49		0.023		0.056		59
EP-49	4/28/00		42		0.053		0.01 U		0.025 U		29		0.007		0.1		35 J
EP-49	8/7/00		34		0.088		0.02		0.025		21		0.007		0.05		32
EP-49	11/7/00		33		0.038		0.01 U,UJ		0.025 U		25		0.003 U		0.051		30
EP-49	2/20/01		26		0.034		0.014		0.025 U		9.5		0.006		0.11		19
EP-49	2/20/01		26		0.033		0.011		0.025 U		9.4		0.006		0.12		19
EP-49	5/10/01		17		0.038		0.02 U		0.025 U		1.6		0.003		0.089		11
EP-49	7/26/01	21	11	0.035	0.15	0.01 U	0.01 U	0.025 U	0.11	0.83	1.7 J	0.003 U	0.003 U	0.14	0.14	10	16
EP-49	11/15/01	19	18	0.06	0.063	0.01 U	0.01 U	0.025 U	0.025 U	0.4	0.54	0.003 U	0.003 U	0.19	0.21	9.7	10
EP-49	11/15/01	18	18	0.059	0.061	0.01 U	0.01 U	0.025 U	0.025	0.38	0.56	0.003 U	0.003 U	0.18	0.21	9.4	10
EP-49	2/20/02	19	18	0.074	0.066	0.01 U	0.01 U	0.025 U	0.025 U	0.13	0.16	0.003 U	0.003 U	0.18	0.25 J	9.8	10
EP-49	8/13/02	13	15	0.023	0.033	0.01 U	0.01 U	0.025 U	0.037	0.15	1.6	0.003 U	0.005	0.18	0.26	9.3	10
EP-49	8/13/02	12	15	0.024	0.032	0.01 U	0.01 U	0.025 U	0.031	0.26	1.7	0.003 U	0.006	0.18	0.26	9.6	10
EP-49	11/25/02	0.45	0.83	0.005 U	0.005 U	0.01 U	0.014	0.025 U	0.025 U	0.19	0.8	0.003 U	0.01	0.017	0.027	0.02 U	0.022
EP-5	8/6/97	0.047		0.005 U		0.016		0.025 U		0.31		0.003 U		0.005 U		0.02 U	
EP-5	11/4/97	0.033		0.005 U		0.01 U		0.025 U		0.1 U		0.01		0.033		0.027	
EP-5	2/4/98	0.059		0.005 U		0.01 U		0.025 U,UJ		0.21 J		0.003 U		0.005		0.021 J	
EP-5	5/5/98	0.05		0.005 U		0.01 U		0.025 U		0.21		0.003		0.005 U		0.057	
EP-5	8/5/98	0.056		0.005 U		0.01 U		0.025 U		0.86		0.003 U		0.005 U		0.028	
EP-5	11/3/98	0.069 J		0.005 U		0.01 U		0.03		0.16		0.005		0.005 U		0.033	
EP-5	2/3/99	0.037 J		0.005 U		0.01 U		0.025 U		0.11		0.003		0.005 U		0.029	
EP-5	5/5/99	0.054		0.005 U		0.01 U		0.025 U		0.1 U		0.006		0.005 U		0.032	
EP-5	8/2/99	0.061	0.057	0.005 U	0.005 U	0.012	0.01 U	0.025 U	0.025 U	0.1	1.5	0.003 U	0.018 UJ	0.005 U	0.005	0.02 U	0.037 J
EP-5	10/25/99		0.042		0.005 U		0.01 U		0.055		0.43 J		0.013		0.15 J		0.04
EP-5	4/24/00		0.044		0.005 U		0.01 U		0.13		0.19		0.009 UJ		0.027		0.03
EP-5	8/1/00		0.13		0.005 U		0.01 U		0.047		0.46		0.017 UJ		0.006		0.03 UJ
EP-5	10/31/00		0.08		0.005 U		0.01 U		0.055		3.1 J		0.039		0.019		0.078 UJ,J
EP-5	2/5/01		0.064		0.005 U		0.01 U		0.078		1.5		0.029		0.013		0.044 J
EP-5	5/4/01		0.095		0.005		0.01 U		0.16		1.8		0.027		0.005 U		0.061
EP-5	7/16/01	0.1	0.1	0.005 U	0.005 U	0.01 U	0.01 U	0.029	0.053	0.21	0.54	0.005	0.016	0.005 U	0.005 U	0.028	0.1
EP-5	10/29/01	0.12	0.12	0.005 U	0.005 U	0.01 U	0.01 U	0.049	0.059	0.32	2.2	0.006	0.031	0.005 U	0.007	0.03	0.091
EP-5	2/6/02	0.068	0.062 J	0.005 U	0.005 U	0.01 U	0.01 U	0.068	0.068	0.1 U	0.64 J	0.003 U	0.012	0.015	0.019	0.02 U	0.051 J
EP-5	4/29/02	0.12	0.098	0.005 U	0.006	0.01 U	0.01 U	0.089	0.14	0.1 U	1.9	0.005	0.038	0.006	0.006	0.02 U	0.061
EP-5	8/5/02	0.14	0.12	0.005 U	0.005 U	0.01 U	0.01 U	0.076	0.11	0.1 U	0.53	0.006	0.015	0.008	0.008	0.02 U	0.033
EP-5	11/4/02	0.11	0.1	0.005 U	0.005	0.01 U	0.01 U	0.075	0.079	0.1 U	2	0.003 U	0.026	0.005	0.005 U	0.049	0.072
EP-51	8/11/97																
EP-51	8/26/97	0.033		0.034		0.029		0.076		1.4		0.003 U		0.22		0.53	
EP-51	11/6/97	0.29		0.18		0.031		0.19		2.2		0.003 U		0.16		4.3	
EP-51	11/6/97	0.28		0.21		0.022		0.19		2.2		0.003 U		0.19		5.1	
EP-51	2/12/98	10		3.9		0.01 U		5.6		1.8		0.003 U		0.17		61	
EP-51	5/11/98	0.26		0.15		0.01 U		0.44		0.54		0.003 U		0.13		2.2	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-51	8/12/98	0.25				0.076				0.01	U			0.3				0.98				0.003	U			0.24				1			
EP-51	11/5/98	0.079	J4			0.062				0.013				0.26				2				0.003	U			0.25				0.97			
EP-51	11/5/98	0.11	J4			0.061				0.014				0.24				2				0.003	U			0.25				0.96			
EP-51	2/9/99	0.12				0.078				0.017				0.094				3.2	J2			0.003	U			0.23				1			
EP-51	2/9/99	0.11				0.075				0.016				0.077				2.6	J4			0.003	U			0.23				1			
EP-51	5/6/99	0.3				0.049				0.01	U			0.098				1.5				0.003	U			0.25				0.71			
EP-51	8/4/99	0.44		0.37	J4	0.034		0.035		0.01	U	0.1	J4	0.049		0.051	J4	0.1	U	0.31	J4	0.003	U	0.004	J4	0.23		0.23		0.35		0.35	
EP-51	8/4/99	0.46		0.55	J4	0.033		0.033		0.01	U	0.51	J4	0.047		0.084	J04	0.1	U	1.3	J2	0.003	U	0.012	J1	0.24		0.24		0.31		0.33	
EP-51	11/2/99			0.97				0.034				3				0.25				4.2				0.038				0.29				0.5	
EP-51	1/26/00			1.2				0.031				4.7				0.24				6.2				0.051				0.23				0.43	
EP-51	4/28/00			0.56				0.031				1.5				0.2				2.3	J4			0.02				0.27				0.46	J2
EP-51	8/7/00			0.75				0.029				4.3				0.19				5.1				0.039				0.27				0.43	
EP-51	8/7/00			0.88				0.03				5.5				0.21				5.9				0.047				0.27				0.47	
EP-51	11/7/00			0.48				0.038				2.1	J4			0.17				8.1	J4			0.031				0.2				0.45	
EP-51	11/7/00			0.42				0.038				1.4	J4			0.16				5.5	J4			0.032				0.2				0.45	
EP-51	2/16/01			0.37				0.034				1.6				0.24				9.8				0.015				0.22				0.69	
EP-51	5/10/01			0.34				0.038				0.99				0.18				2.6				0.011				0.22				0.49	
EP-51	7/20/01	0.14		0.29		0.038		0.041		0.077		1.5		0.091		0.17		4.1		5.8		0.003	U	0.014		0.18		0.19		0.48		0.56	
EP-51	11/5/01	0.11		0.3		0.043		0.04		0.024		2.2		0.11		0.19		1.5		3.9		0.003	U	0.015		0.18		0.18		0.47		0.44	
EP-51	2/12/02	0.13		0.27		0.043		0.042		0.022		1.3		0.11		0.19		2.8		4	J4	0.003	U	0.017	J4	0.17		0.18		0.47		0.54	
EP-51	5/9/02	0.16		0.37		0.046		0.044		0.01	U	1.4		0.13		0.35		0.47		4.7		0.003	U	0.035		0.2		0.2		0.62		0.83	
EP-51	8/12/02	0.13		0.22		0.053		0.052		0.01	U	0.51		0.14		0.21		0.5		1.9		0.003	U	0.009		0.17		0.17		0.69		0.69	
EP-51	11/6/02	0.12		0.25		0.048		0.048		0.017		0.99		0.16		0.24		0.61		2.6		0.003	U	0.007		0.16		0.15		0.53		0.58	
EP-52	11/6/97	0.97				0.64				0.017				0.53				0.55				0.044				0.36				2.6			
EP-52	2/12/98	1.6				0.71				0.01	U			0.45				0.55				0.043				0.3				3.6			
EP-52	8/12/98	1.6				0.56				0.01	U			0.69				0.1	U			0.05				0.34				2.6			
EP-52	8/12/98	1.7				0.59				0.01	U			0.7				0.1	U			0.051				0.36				2.8			
EP-52	11/5/98	1.7	J4			0.6				0.01	U			0.59				0.1	U			0.13				0.35				2.9			
EP-52	2/9/99	0.23				0.59				0.032				0.41				1.7	J4			0.021				0.25				3.9			
EP-52	5/6/99	0.81				1.9				0.057				0.35				2.5				0.031				0.38				3.1			
EP-52	8/5/99	1		1.4		0.51		0.51		0.024		0.16		0.36		0.39		0.59		2.2		0.041		0.44		0.28		0.29		2.1		2.7	
EP-52	10/29/99			1.6				0.45				0.097				0.5				2.1	J2			0.75				0.25				2.2	
EP-52	1/26/00			1.5				0.43				0.041				0.44				1.2				0.51				0.21				1.7	
EP-52	4/28/00			1.5				0.51				0.12				0.64				2.8	J4			0.96				0.24				2.5	J2
EP-52	8/7/00			1.3				0.43				0.12				0.54				3.1				0.83				0.18				2.7	
EP-52	11/7/00			1.7				0.45				0.19	J4			0.57				6.4	J4			1.5				0.18				2.8	
EP-52	2/20/01			1.5				0.36				0.18				0.59				5.9				1.4				0.2				2.2	
EP-52	5/10/01			1.7				0.45				0.32				0.57				11				1.6				0.17				3.5	
EP-52	7/20/01	0.22		0.81		0.4		0.4		0.01	U	0.072		0.3		0.42		0.19		4		0.05		0.68		0.17		0.17		2.3		2.3	
EP-52	11/5/01	0.25		0.61		0.42		0.49		0.011		0.063		0.31		0.45		0.1	U	2.4		0.061		0.58		0.2		0.23		3.3		3.1	
EP-52	2/12/02	0.17		0.69		0.41		0.41		0.018		0.072	J4	0.26		0.41		0.3		3.2	J4	0.056		0.67		0.17		0.17		3.4		3.2	
EP-52	5/9/02	0.11		0.82		0.42		0.4		0.01	U	0.2		0.3		0.61		0.23		5.6		0.032		0.9		0.17		0.15		3.4		3.3	
EP-52	8/12/02	0.2		0.61		0.42		0.42		0.01	U	0.052		0.36		0.43		0.17		2.2		0.046		0.66		0.16		0.19		3.1		3.2	
EP-53	8/11/97	51				1.3				0.01	U			0.025	U			0.1	U			0.003	U			0.76				3.6			
EP-53	2/4/98	63				1.4				0.01	U			0.032	J4			0.1	U.004			0.003	U			1.7				4.3			
EP-53	6/10/98	63				1.3				0.01	U			0.025	U			0.1	U			0.003	U			1.4				4.2			
EP-53	8/12/98	62				1.4				0.01	U			0.025	U			0.1	U			0.003	U			1.2				4.5			
EP-53	11/5/98	56	J4			1.6				0.01	U			0.025	U			0.1	U.004			0.003	U			2				5.2			
EP-53	2/4/99	55				1.7				0.01	U			0.025	U			0.1	U			0.003	U			1.4				5.7			
EP-53	5/5/99	54				1.4				0.01	U			0.025	U			0.1	U			0.003	U			1.1				4.6			

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-53	8/4/99	44	42	0.46	0.46	0.01 u	0.01 u 0.014	0.025 u	0.025 u 0.014	0.1 u	1.7 u	0.003 u	0.004 u	0.78	0.62	1.2	1.1
EP-53	10/26/99		55		1.8		0.01 u 0.014		0.041		7 J2,34		0.006 u		1.7 J2		5.5
EP-53	2/1/00		45		1.2		0.01 u		0.04		13 u		0.011		1.1		4
EP-53	5/3/00		32		0.38		0.01 u		0.025 u		8.8		0.007		0.53		1.1
EP-53	8/16/00		35		1.3		0.01 u		0.043		6.6		0.008		2.1 J1		3.4
EP-53	11/13/00		49		1.4		0.01 u		0.027		6.7		0.006		1.2		4.7
EP-53	2/21/01		37		1		0.01 u		0.025 u		3.8		0.003 u		1.1		3.6
EP-53	5/10/01		32		0.47		0.02 u		0.034		39		0.019		0.66		2.2
EP-53	7/10/01	30	27	0.19	0.22	0.01 u	0.01 u	0.025 u	0.026	0.1 u	10 u	0.003 u	0.008	0.64	0.52	0.91	0.95
EP-53	11/13/01	22	22	0.072	0.094	0.01 u	0.01 u	0.025 u	0.039	0.1 u	4.6	0.003 u	0.019	0.54	0.66	0.25	0.36
EP-53	2/13/02	19	18	0.086	0.1	0.01 u	0.011	0.025	0.036	0.1 u	4.5	0.003 u	0.006	0.54	0.55	0.5	0.7
EP-53	5/10/02	22	22	0.050	0.061	0.01 u	0.01 u	0.04	0.041	0.15	1.7	0.003 u	0.004	0.52	0.51	0.2	0.27
EP-53	8/14/02	32	35	0.38	0.39	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.3	0.003 u	0.005	3.2	3.6	0.86	0.89
EP-53	11/6/02	21	23	0.16	0.18	0.01 u	0.01 u	0.034	0.053	0.1 u	0.89	0.003 u	0.003 u	0.89	0.92	0.75	0.78
EP-54	8/11/97																
EP-54	8/25/97	22		5.7		0.01 u		0.18		13		0.003 u		0.075		113	
EP-54	11/6/97	29		4.5		0.01 u		0.57		14		0.003 u		0.071		94	
EP-54	2/12/98	27		2		0.01 u		0.21		2.3		0.003 u		0.065		41	
EP-54	5/11/98	50		1.5		0.01 u		0.12		3.4		0.011		0.082		32	
EP-54	8/12/98	59		0.84		0.01 u		0.06		2.1		0.035		0.065		17	
EP-54	11/5/98	50 J4		0.7		0.01 u		0.086		0.24 J4		0.007		0.11		12	
EP-54	2/9/99	50		0.55		0.01 u		0.066		0.36 J4		0.004		0.098		10	
EP-54	5/6/99	56		0.53		0.01 u		0.059		0.22		0.005		0.07		9.2	
EP-54	5/7/99	47		0.47		0.01 u		0.089		0.1 u		0.003 u		0.11		8	
EP-54	8/4/99	50	45	0.49	0.47	0.01 u	0.015 J4	0.1	0.12 J4	0.16	2.9 J4	0.003 u	0.007 J4	0.17	0.13	9.8	9.4
EP-54	10/29/99		49		0.86		0.013		0.62		11 J2		0.019		0.21		10
EP-54	1/26/00		57		0.57		0.016		0.38		16		0.022		0.12		12
EP-54	4/28/00		42		0.6		0.01 u		0.36		6.9 J4		0.011		0.16		10 J2
EP-54	8/7/00		34		0.66		0.02		0.55		14		0.018		0.13		11
EP-54	11/7/00		37		0.7		0.019 J4		0.49		13 J4		0.015		0.12		12
EP-54	2/20/01		25		0.45		0.01 u		0.22		2.8		0.008		0.12		9.8
EP-54	5/10/01		37		0.67		0.02 u		0.067		21		0.04		0.11		10
EP-54	7/26/01	22	26	0.34	0.45	0.01 u	0.01	0.13	0.37	0.1 u	7.8 J4	0.003 u	0.013	0.16	0.16	6.9	7.9
EP-54	11/5/01	24	26	0.34	0.42	0.01 u	0.01 u	0.19	0.36	0.1 u	5.2	0.003 u	0.015	0.13	0.14	8.6	8.4
EP-54	2/13/02	21	27	0.42	0.53	0.01 u	0.015	0.18	0.51	0.1 u	9.6	0.003 u	0.016	0.11	0.12	8.5	9.1
EP-54	5/10/02	17	24	0.19	0.31	0.01 u	0.01 u	0.055	0.19	1.1	8.6	0.003 u	0.013	0.18	0.17	6.8	8.5
EP-54	8/13/02	16	20	0.32	0.48	0.01 u	0.01 u	0.25	0.5	0.1 u	5.7	0.003 u	0.016	0.14	0.15	6.9	7.1
EP-54	11/6/02	17	37	0.4	0.79	0.011	0.033	0.25	1.1	0.1 u	23	0.003 u	0.033	0.12	0.15	8.5	11
EP-55	8/15/97	62		0.13		0.01 u		0.025 u		229		0.02		0.28		200	
EP-55	11/19/97	39		0.043		0.01 u		0.025 u		130		0.003 u		0.24		82	
EP-55	2/12/98	57		0.042		0.01 u		0.025 u		99		0.003 u		0.19		71	
EP-55	5/20/98	56		0.013		0.01 u		0.025 u		84		0.004 u		0.18		13	
EP-55	8/27/98	61		0.008		0.01 u		0.025 u		77		0.003 u		0.068		35	
EP-55	11/16/98	40		0.005 u		0.01 u		0.025		71		0.003 u		0.1 u		27	
EP-55	2/11/99	55		0.005 u		0.01 u		0.025 u		95		0.003 u		0.079		41	
EP-55	5/14/99	26		0.005 u		0.01 u		0.025 u		52		0.003 u		0.1 u		30	
EP-55	8/10/99	25	29	0.005 u	0.19	0.01 u	0.01 u	0.025 u	0.033	35	45 J4	0.003 u	0.028	0.026	0.052	12	27
EP-55	10/29/99		36		0.58		0.011		0.11		57 J2		0.13		0.17		51
EP-55	2/7/00		54		0.16		0.01 u		0.031		46		0.031		0.15		29
EP-55	5/4/00		54		1.3		0.026		0.28		67		0.6		0.27		102

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-55	8/16/00			63				0.56				0.01	U			0.064				41				0.14				0.12	H			11	
EP-55	11/14/00			51				0.38				0.01	U			0.027				31				0.08				0.11				32	
EP-55	2/22/01			60				0.84				0.019				0.18				50				0.59				0.2				77	
EP-55	5/11/01			63				2.3				0.02	U			0.17				89				0.44				0.36				177	
EP-55	7/26/01	43		92		0.005	U	8.7		0.01	U	0.09		0.025	U	0.28		16		292	H	0.003	U	1.1		0.027		0.43		4.4		923	
EP-55	11/14/01																																
EP-55	5/10/02																																
EP-56	8/11/97																																
EP-56	8/26/97	1.9				0.004				0.01	U			0.025	U			0.1	U			0.003				0.048				0.026			
EP-56	11/4/97	2.9				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.057				0.022			
EP-56	2/4/98	2.2				0.005	U			0.01	U			0.027	H			0.1	U,UH			0.003	U			0.048				0.025	H		
EP-56	5/7/98	1.9				0.005	U			0.01	U			0.025				0.1	U			0.003				0.058				0.034			
EP-56	8/12/98	1.5				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.036				0.021			
EP-56	11/4/98	1	H			0.005	U			0.01	U			0.025	U			0.1	U			0.003				0.018				0.02	U		
EP-56	2/4/99	0.74	H			0.005	U			0.01	U			0.025	U			0.1	U			0.004				0.011				0.037	UH		
EP-56	2/4/99	1.3	H			0.005	U			0.01	U			0.025	U			0.1	U			0.004				0.013				0.032	UH		
EP-56	5/4/99	1.5				0.005	U			0.01	U			0.025	U			0.1	U			0.005				0.015				0.037			
EP-56	8/4/99	2.8		2.2	H	0.005	U	0.005	U	0.01	U	0.01	U,UH	0.025	U	0.025	U,UH	0.1	U	2.9	H	0.004		0.01	H	0.026		0.021		0.02	U	0.049	
EP-56	10/26/99			0.33	H			0.005	U			0.01	H			0.047				14	J,H			0.016	H			0.041	J,H			0.05	
EP-56	10/26/99			0.43	H			0.005	U			0.022	H			0.064				28	J,H			0.026	H			0.031	J,H			0.06	
EP-56	2/1/00			2.7	H			0.005	U			0.012				0.028				29	H			0.017				0.05				0.045	
EP-56	2/1/00			2.1	H			0.005	U			0.012				0.03				23	H			0.015				0.051				0.041	
EP-56	5/3/00			1.2				0.005	U			0.014				0.034				32				0.026				0.015				0.055	
EP-56	8/16/00			1.4				0.005	U			0.063				0.064				77				0.036				0.035	H			0.11	H
EP-56	11/13/00			2.5				0.005	U			0.021				0.033				25				0.02				0.016				0.053	UH
EP-56	2/22/01			2.1				0.005	U			0.064				0.071				73				0.035				0.029				0.23	
EP-56	5/10/01			3.1				0.005	U			0.15				0.15				235				0.099				0.028				0.57	
EP-56	7/26/01	3		3		0.005	U	0.005	U	0.01	U	0.02		0.025	U	0.038		0.01	U	60	H	0.003	U	0.038		0.002		0.027		0.02	U	0.089	
EP-56	11/14/01	2.4		2.4		0.005	U	0.005	U	0.01	U	0.014		0.025	U	0.025		0.1	U	14		0.003	U	0.009		0.026		0.028		0.02	U	0.036	
EP-56	2/13/02	2.7		2.7		0.005	U	0.005	U	0.01	U	0.067		0.025	U	0.034		0.1	U	55		0.003	U	0.034		0.024		0.022		0.02	U	0.078	
EP-56	5/9/02	2.8		3		0.018		0.019		0.01	U	0.029		0.025	U	0.049		0.1	U	15		0.003	U	0.012		0.043		0.046		0.035		0.13	
EP-56	8/12/02	3		3.3		0.034		0.037		0.01	U	0.01	U	0.025	U	0.028		0.1	U	3.6		0.003	U	0.009		0.04		0.038		0.12		0.14	
EP-56	11/12/02	3		3		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.027		0.41		4.5		0.003	U	0.005		0.034		0.033		0.02	U	0.022	
EP-57	8/16/97	1.1				0.005	U			0.01	U			0.025	U			0.5				0.003	U			0.33				0.027			
EP-57	11/14/97	0.97				0.005	U			0.01	U			0.025	U			0.28				0.003	U			0.005	U			0.02	U		
EP-57	2/18/98	0.98	H			0.005	U			0.01	U			0.025	U			0.1	H,UH			0.003	U			0.005	U			0.022	H		
EP-57	5/18/98	0.79				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
EP-57	8/24/98	0.6				0.005	U			0.01	U			0.025	U			0.28				0.003	U			0.01	U			0.02	U		
EP-57	11/16/98	0.52				0.005	U			0.01	U			0.025	U			0.25				0.003	U			0.005	U			0.02	U		
EP-57	2/24/99	0.56				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.028				0.02	U		
EP-57	5/13/99	0.35				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.04				0.02	U		
EP-57	8/10/99	0.25		0.29		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.27		3.1	H	0.003	U	0.003		0.005	U	0.006		0.02	U	0.02	U
EP-57	11/3/99			0.5				0.005	U			0.01	U			0.025	U			6.7				0.012	H			0.005	U			0.03	
EP-57	2/7/00			0.43				0.005	U			0.01	U			0.025	U			0.79				0.004				0.015				0.02	U
EP-57	5/8/00			0.37				0.005	U			0.01	U			0.025	U			1.2				0.006				0.01				0.02	U
EP-57	8/15/00			0.35	H			0.005	U			0.01	U			0.025	U			0.59				0.003	U			0.005	U			0.02	U
EP-57	11/13/00			0.25				0.005	U			0.01	U			0.025	U			1.4				0.003				0.005	U			0.02	U
EP-57	2/23/01			0.41				0.005	U			0.01	U			0.025	U			2.8	H			0.003	UH			0.005	U			0.034	UH
EP-57	5/16/01			0.32				0.005	U			0.01	U			0.025	U			0.93	H			0.003	U			0.005	U			0.02	U
EP-57	7/30/01	0.17		0.38		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U,UH	2.4		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U,UH	0.02	U,UH

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-57	11/15/01	0.038	0.058	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	2	0.003 U	0.082	0.005 U	0.005 U	0.02 U	0.02
EP-57	2/21/02	0.32	0.23	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.7 J	0.003 U	0.003 U	0.024	0.028	0.02 U	0.02 U
EP-57	5/14/02	0.09	0.083	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.87	0.003 U	0.003 U	0.005	0.007	0.02 U	0.02 U
EP-57	8/21/02	0.067	0.39	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.8	0.003 U	0.003 U	0.005 U	0.014	0.02 U	0.023
EP-57	11/25/02																
EP-58	8/16/97	1.4		0.005 U		0.01 U		0.025 U		2.7		0.003 U		0.16		0.022	
EP-58	11/14/97	4.8		0.005 U		0.01 U		0.025 U		0.98		0.003 U		0.027		0.024	
EP-58	2/18/98	4.2		0.005 U		0.01 U		0.025 U		0.9 U		0.003 U		0.027		0.02 U	
EP-58	5/18/98	4.5		0.005 U		0.011		0.025 U		0.9		0.003 U		0.034		0.023	
EP-58	8/24/98	4.1		0.005 U		0.01 U		0.025 U		1.4		0.003 U		0.046		0.05	
EP-58	11/16/98	3.7		0.005 U		0.01 U		0.025 U		1		0.003 U		0.036		0.02 U	
EP-58	2/24/99	3.7		0.005 U		0.01 U		0.025 U		1		0.003 U		0.03		0.02 U	
EP-58	5/13/99	5.1		0.005 U		0.01 U		0.025 U		0.91		0.003 U		0.034		0.02 U	
EP-58	8/10/99	4.1	4	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.7	2.1 J	0.003 U	0.004	0.019	0.037	0.02 U	0.02 U
EP-58	11/3/99		4.2		0.005 U		0.02		0.11		30		0.082 J		0.1		0.15
EP-58	2/7/00		3.4		0.005 U		0.01 U		0.025 U		7.6		0.016		0.16		0.031
EP-58	5/8/00		3.6		0.005 U		0.01 U		0.025 U		4.2		0.013		0.069		0.033 UJ
EP-58	5/8/00		3.7		0.005 U		0.01 U		0.025 U		3.9		0.01		0.065		0.034 UJ
EP-58	8/15/00		3.1 J		0.005 U		0.01 U		0.025 U		2.1		0.006		0.025		0.02 U
EP-58	8/15/00		5.8 J		0.005 U		0.01 U		0.025 U		2		0.005		0.024		0.02 U
EP-58	11/13/00		3.4		0.005 U		0.01 U		0.025 U		1.7		0.003		0.027		0.02 U
EP-58	2/23/01		3.2		0.005 U		0.01 U		0.025 U		1.2 J		0.003 U		0.053		0.033 UJ
EP-58	2/23/01		3.5		0.005 U		0.01 U		0.025 U		0.97 J		0.003 U		0.053		0.038 UJ
EP-58	5/16/01		3.7		0.005 U		0.01 U		0.025 U		0.5 J		0.003 U		0.029		0.02 U
EP-58	7/30/01	3.2	3.3	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.98	2.9	0.003 U	0.008	0.11	0.1	0.023 J	0.034 U
EP-58	11/15/01	4	3.8	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025	2	2.5	0.003 U	0.003 U	0.037	0.032	0.02 U	0.02 U
EP-58	2/21/02	4.4	3.7	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.9	1.9 J	0.003 U	0.003 U	0.064	0.06	0.02 U	0.02 U
EP-58	2/21/02	3.8	3.9	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.9	2.5 J	0.003 U	0.003 U	0.063	0.072	0.02 U	0.027 UJ
EP-58	5/14/02	4	4.5	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.78	1.6	0.003 U	0.003 U	0.038	0.038	0.02 U	0.02 U
EP-58	8/21/02	4.6	4.3	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.1	1.4	0.003 U	0.003 U	0.091	0.11	0.02 U	0.029
EP-58	8/21/02	4.5	4.2	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	1.1	1.5	0.003 U	0.003 U	0.11	0.11	0.02 U	0.029
EP-58	11/25/02	4.9	5	0.005 U	0.005 U	0.01 U	0.01 U	0.025	0.026	1.8	2	0.003 U	0.003 U	0.087	0.081	0.027	0.031
EP-58	11/25/02	4.8	4.8	0.005 U	0.005 U	0.01 U	0.01 U	0.026	0.025 U	2.2	1.9	0.003 U	0.003 U	0.09	0.088	0.028	0.026
EP-59	8/9/97	3.6		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.18		0.022 U	
EP-59	11/5/97	3.8		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.21		0.021	
EP-59	2/5/98	3.4		0.005 U		0.01 U		0.025 U		0.1 J		0.003 U		0.23		0.02 U	
EP-59	5/8/98	3.1		0.005		0.01 U		0.025 U		0.1 U		0.003 U		0.29		0.043	
EP-59	8/10/98	3.2		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.32		0.046	
EP-59	8/10/98	3.2		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.12		0.039	
EP-59	11/9/98	2.9		0.007		0.01 U		0.025 U		0.1 0.034		0.003 U		0.33		0.22	
EP-59	2/10/99	2.6		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.28		0.045	
EP-59	2/10/99	2.6		0.005 U		0.01 U		0.025 U		0.11		0.003 U		0.29		0.053	
EP-59	5/6/99	3.1		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.29		0.039	
EP-59	8/3/99	2.8	2.7	0.005 U	0.005 U	0.01 U	0.012	0.025 U	0.025 U	0.1 U	0.22	0.003 U	0.003 U	0.31	0.28	0.02	0.02 U
EP-59	10/27/99		2.6		0.005 U		0.12		0.062		2.1 J		0.019 UJ		0.22 U		0.05
EP-59	1/28/00		2.9		0.005 U		0.032		0.025 U		0.44		0.003		0.26		0.039
EP-59	5/3/00		2.4		0.005 U		0.023		0.025 U		0.28		0.003		0.25		0.02 U
EP-59	8/10/00		2.3		0.005 U		0.027		0.025 U		0.38		0.003 U		0.23		0.02 U
EP-59	8/10/00		2.4		0.005 U		0.026		0.025 U		0.34		0.003 U		0.24		0.02 U
EP-59	10/31/00		2.5		0.005 U		0.031		0.025 U		0.44 J		0.004		0.28		0.041 UJ

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-59	2/21/01		2.5		0.005		0.018		0.025 U		0.14		0.001 U		0.11		0.11 UJ
EP-59	2/21/01		2.2		0.005		0.01		0.025 U		0.16		0.003 U		0.20		0.1 UJ
EP-59	5/15/01		2.2		0.005 U		0.01		0.025 U		0.1 U		0.003 U		0.25		0.11
EP-59	7/27/01	2.1	2	0.005 U	0.005 U	0.01 U	0.05	0.025 U	0.025 U	0.18	0.67 J	0.003 U	0.003 U	0.24	0.21	0.058	0.064
EP-59	11/14/01	2.3	2.3	0.005 U	0.005 U	0.01 U	0.015	0.025 U	0.025 U	0.1 U	0.18	0.003 U	0.003 U	0.24	0.25	0.02 U	0.02 U
EP-59	11/14/01	2.3	2.3	0.005 U	0.005 U	0.01 U	0.014	0.025 U	0.025 U	0.1 U	0.17	0.003 U	0.003 U	0.23	0.24	0.02 U	0.02 U
EP-59	2/13/02	2.1	2	0.011	0.01	0.01 U	0.018	0.025 U	0.025 U	0.1 U	0.14	0.003 U	0.003 U	0.2	0.19	0.089	0.08
EP-59	5/9/02	2.1	1.9	0.005 U	0.005 U	0.01 U	0.026	0.025 U	0.025 U	0.1 U	0.26	0.003 U	0.003 U	0.22	0.17	0.02 U	0.02 U
EP-59	5/9/02	2.2	2.2	0.005 U	0.005 U	0.01 U	0.031	0.025 U	0.025 U	0.1 U	0.3	0.003 U	0.003 U	0.23	0.19	0.02 U	0.02 U
EP-59	8/13/02	2.1	2.4	0.005 U	0.005 U	0.01 U	0.02	0.025 U	0.025 U	0.1 U	0.32	0.003 U	0.003 U	0.23	0.25	0.14	0.14
EP-59	11/12/02	2	2	0.005 U	0.005 U	0.01 U	0.024	0.025 U	0.025 U	0.1 U	0.34	0.003 U	0.003 U	0.2	0.2	0.02 U	0.02 U
EP-6	8/6/97	0.032		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.033		0.021 U	
EP-6	11/4/97	0.031		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.049		0.024	
EP-6	2/4/98	0.023		0.005 U		0.01 U		0.025 UJ		0.1 UJ		0.003 U		0.009		0.02 UJ	
EP-6	5/5/98	0.021		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.01		0.044	
EP-6	8/5/98	0.024		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.034		0.046	
EP-6	11/3/98	0.025	J	0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.035		0.022	
EP-6	2/3/99	0.014	J	0.005 U		0.01 U		0.025 U		0.23		0.003 U		0.008		0.02 U	
EP-6	5/5/99	0.023		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.007		0.025	
EP-6	5/5/99	0.023		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.007		0.029	
EP-6	8/2/99	0.021	0.027	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.12	0.003 U	0.003 U	0.043	0.028	0.02 U	0.02 U
EP-6	10/25/99		0.018		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.039 J		0.02
EP-6	1/29/00		0.02		0.005 U		0.01 U		0.031		0.39		0.016		0.042		0.03
EP-6	4/24/00		0.022		0.005 U		0.01 U		0.025 U		0.1 U		0.004 UJ		0.054		0.029
EP-6	8/1/00		0.027		0.005 U		0.01 U		0.025 U		0.1 U		0.023 UJ		0.057		0.02 U
EP-6	10/30/00		0.032		0.005 U		0.01 U		0.025 U		0.1 UJ		0.003 UJ		0.038		0.047 UJ
EP-6	2/5/01		0.026		0.005 U		0.01 U		0.025 U		0.1 U		0.004		0.064		0.02 UJ
EP-6	5/4/01		0.033		0.007		0.01 U		0.025 U		0.16		0.01		0.068		0.027
EP-6	7/16/01	0.03	0.034	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.038	0.03	0.02 U	0.035
EP-6	10/25/01	0.018	0.02	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.21	0.003 U	0.003 U	0.037	0.054	0.02 U	0.047
EP-6	2/6/02	0.022	0.023 J	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.15	0.24 J	0.003 U	0.003 U	0.045	0.046	0.02 U	0.02 U
EP-6	4/29/02	0.021	0.02	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.18	0.003 U	0.004	0.038	0.037	0.02 U	0.02 U
EP-6	8/5/02	0.028	0.029	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.18	0.003 U	0.003 U	0.096	0.098	0.02 U	0.02 U
EP-6	11/4/02	0.008	0.027	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.9	0.003 U	0.003 U	0.085	0.075	0.05	0.055
EP-60	8/8/97	0.007		0.005 U		0.011		0.025 U		0.38		0.003 U		0.24		0.026 U	
EP-60	11/5/97	0.005 U		0.005 U		0.01 U		0.025 U		0.8		0.003 U		0.24		0.021	
EP-60	2/5/98	0.009		0.005 U		0.01 U		0.034		0.4 J		0.003 U		0.26		0.027	
EP-60	5/8/98	0.008		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.24		0.032	
EP-60	8/10/98	0.007		0.005 U		0.01 U		0.025 U		0.13		0.003 U		0.24		0.055	
EP-60	11/9/98	0.009		0.005 U		0.01 U		0.025 U		0.1 UJ		0.003 U		0.23		0.15	
EP-60	2/10/99	0.009		0.005		0.01 U		0.025 U		1.3		0.003 U		0.25		0.059	
EP-60	5/6/99	0.007		0.005 U		0.01 U		0.025 U		0.16 J		0.003 U		0.2		0.027	
EP-60	8/3/99	0.006	0.008	0.005 U	0.005 U	0.01 U	0.05	0.025 U	0.025 U	0.18	0.46	0.003 U	0.003 U	0.22	0.21	0.02 U	0.029
EP-60	10/27/99		0.01		0.005 U		0.26		0.025 U		2 J		0.003 U		0.18 J		0.02 U
EP-60	1/28/00		0.008		0.005 U		0.06		0.025 U		1.1		0.003 U		0.19		0.02 U
EP-60	5/3/00		0.009		0.005 U		0.43		0.025 U		1.9		0.003 U		0.21		0.021
EP-60	8/10/00		0.012		0.005 U		0.91		0.025		4.8		0.006 UJ		0.21		0.02
EP-60	10/31/00		0.012		0.005 U		0.97		0.025 U		3.9 J		0.003 U		0.2		0.038 UJ
EP-60	2/21/01		0.021		0.005 U		0.29		0.025 U		1.8		0.003 U		0.21		0.083 UJ
EP-60	5/15/01		0.012		0.005 U		0.28		0.025 U		2		0.003 U		0.21		0.057

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-60	7/27/01	0.022		0.025		0.005	U	0.005	U	0.01	U	0.63		0.025	U	0.025	U	0.1	U	3	J	0.003	U	0.003	U	0.2		0.21		0.063		0.071	
EP-60	11/14/01	0.019		0.019		0.005	U	0.005	U	0.01	U	0.2		0.025	U	0.025	U	0.1	U	1.6		0.003	U	0.003	U	0.18		0.2		0.02	U	0.02	U
EP-60	2/13/02	0.012		0.014		0.005	U	0.005	U	0.01	U	0.5		0.025	U	0.025	U	0.1	U	3.2		0.003	U	0.003	U	0.18		0.18		0.024		0.031	
EP-60	5/9/02	0.017		0.018		0.005	U	0.005	U	0.01	U	0.44		0.025	U	0.034		0.1	U	2.9		0.003	U	0.003	U	0.26		0.21		0.02	U	0.026	
EP-60	8/13/02	0.014		0.014		0.005	U	0.005	U	0.01	U	0.13		0.025	U	0.025	U	0.1	U	1.2		0.003	U	0.003	U	0.2		0.22		0.036		0.057	
EP-61	8/16/97	0.005	U			0.005	U			0.01	U			0.025	U			1.4				0.003	U			0.42				0.021			
EP-61	11/14/97	0.011				0.005	U			0.01	U			0.025	U			1.2				0.003	U			0.38				0.021			
EP-61	2/18/98	0.025	J4			0.005	U			0.01	U			0.025	U			0.35	UJ4			0.003	U			0.36				0.02	UJ4		
EP-61	2/18/98	0.015	J4			0.005	U			0.01	U			0.025	U			1	J4			0.003	U			0.35				0.02	UJ4		
EP-61	5/18/98	0.008				0.005	U			0.01	U			0.025	U			0.18				0.003	U			0.31				0.022			
EP-61	8/24/98	0.011				0.005	U			0.01	U			0.025	U			0.13				0.003	U			0.26				0.022			
EP-61	11/16/98	0.008				0.005	U			0.01	U			0.025	U			0.11				0.003	U			0.29				0.02			
EP-61	2/24/99	0.073				0.005	U			0.011				0.025	U			0.18				0.003	U			0.22				0.02	U		
EP-61	5/13/99	0.011				0.005	U			0.015				0.025	U			0.26				0.003	U			0.29				0.02	U		
EP-61	8/10/99	0.014		0.014		0.005	U	0.005	U	0.014		0.02		0.025	U	0.025	U	0.3		1.9	J4	0.003	U	0.003	U	0.3		0.31		0.02	U	0.02	U
EP-61	11/3/99			0.039				0.005	U			0.021				0.091				14				0.035	J4			0.37				0.065	
EP-61	2/7/00			0.026				0.005	U			0.01	U			0.025	U			0.29				0.003	U			0.34				0.02	U
EP-61	5/8/00			0.013				0.005	U			0.01	U			0.025	U			0.51				0.004				0.32				0.021	UJ
EP-61	8/15/00			0.007	J4			0.005	U			0.01	U			0.025	U			0.24				0.003	U			0.21				0.02	U
EP-61	11/13/00			0.01				0.005	U			0.01	U			0.025	U			0.1	U			0.004				0.32				0.02	U
EP-61	11/13/00			0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.33				0.02	U
EP-61	2/21/01			0.011				0.005	U			0.01	U			0.025	U			0.38	J4			0.003	U			0.29				0.036	UJ
EP-61	5/16/01			0.023				0.005	U			0.01	U			0.025	U			0.5	J4			0.003	U			0.31				0.02	U
EP-61	7/30/01	0.011		0.008		0.005	U	0.005	U	0.014		0.012		0.025	U	0.025	U	0.2	J4	0.48		0.003	U	0.003	U	0.3		0.29		0.02	UJ4	0.02	UJ4
EP-61	11/15/01	0.013		0.012		0.005	U	0.005	U	0.01	U	0.031		0.025	U	0.025	U	0.1	U	2.3		0.003	U	0.046		0.32		0.34		0.02	U	0.02	U
EP-61	2/21/02	0.025		0.036		0.005	U	0.005	U	0.01	U	0.13		0.025	U	0.025	U	0.27		8.2		0.003	U	0.004		0.34		0.35		0.02	U	0.03	UJ
EP-61	5/14/02	0.014		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.34		0.79		0.003	U	0.003	U	0.26		0.3		0.02	U	0.02	U
EP-61	5/14/02	0.013		0.012		0.005	U	0.005	U	0.01	U	0.018		0.025	U	0.025	U	0.3		1.1		0.003	U	0.003	U	0.29		0.27		0.02	U	0.02	U
EP-61	8/21/02	0.018		0.031		0.005	U	0.005	U	0.01	U	0.071		0.025	U	0.025	U	0.33		18		0.003	U	0.011		0.34		0.39		0.02	U	0.063	
EP-62	8/9/97	1.1				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.36				0.021	U		
EP-62	11/5/97	1.2				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.39				0.023			
EP-62	2/5/98	0.84				0.005	U			0.01	U			0.026				0.1	J4			0.003	U			0.39				0.023			
EP-62	5/8/98	0.96				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.38				0.039			
EP-62	8/10/98	1.2				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.26				0.069			
EP-62	11/9/98	0.99				0.011				0.01	U			0.025	U			0.1	UJ4			0.003	U			0.36				0.14			
EP-62	2/10/99	0.77				0.024				0.01	U			0.025	U			0.1	U			0.003	U			0.27				0.13			
EP-62	5/6/99	0.83				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.28				0.039			
EP-62	8/3/99	0.77		0.75		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.14		0.003	U	0.003	U	0.31		0.29		0.028		0.031	
EP-62	10/27/99			0.56				0.005	U			0.01	U			0.025	U			0.57	J2			0.003	U			0.19	J2			0.02	
EP-62	1/28/00			0.82				0.005	U			0.01	U			0.025	U			0.24				0.003	U			0.26				0.02	U
EP-62	5/3/00			0.87				0.005	U			0.01	U			0.025	U			0.1	U			0.004				0.28				0.02	U
EP-62	8/10/00			1.1				0.005	U			0.01	U			0.025	U			0.14				0.003	U			0.28				0.02	U
EP-62	10/31/00			1.4				0.005	U			0.01	U			0.025	U			0.28	J4			0.003	U			0.29				0.038	UJ4
EP-62	2/21/01			1.1				0.01				0.01	U			0.025	U			0.31				0.003	U			0.31				0.11	UJ
EP-62	5/15/01			1.3				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.31				0.056	
EP-62	7/27/01	1.1		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.24	J4	0.003	U	0.003	U	0.26		0.24		0.073		0.079	
EP-62	11/14/01	1.6		1.5		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.25		0.003	U	0.003	U	0.26		0.29		0.02	U	0.02	U
EP-62	2/13/02	1.3		1.2		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.14		0.003	U	0.003	U	0.25		0.24		0.033		0.036	
EP-62	5/9/02	1.2		1.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.3		0.003	U	0.003	U	0.21		0.22		0.02	U	0.02	U
EP-62	8/13/02	1.6		1.7		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.28		0.27		0.069		0.072	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-62	11/12/02	1.5	1.5	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.12	0.003 U	0.004 U	0.24	0.24	0.025	0.023
EP-63	8/9/97	0.019		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.23		0.022 J	
EP-63	11/5/97	0.021		0.005 U		0.01 U		0.025 U		0.11		0.003 U		0.21		0.025	
EP-63	2/5/98	0.02		0.005 U		0.01 U		0.029		0.2 J4		0.003 U		0.2		0.03	
EP-63	5/8/98	0.022		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.22		0.052	
EP-63	8/10/98	0.02		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.24		0.006	
EP-63	11/9/98	0.025		0.005 U		0.01 U		0.025 U		0.1 U,J4		0.003 U		0.24		0.11	
EP-63	2/10/99	0.027		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.21		0.039	
EP-63	5/6/99	0.02		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.16		0.028	
EP-63	5/6/99	0.018		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.17		0.038 J	
EP-63	8/3/99	0.021	0.022	0.005 U	0.005 U	0.012	0.01 U	0.025 U	0.025 U	0.1 U	0.55	0.003 U	0.007	0.23	0.24	0.023	0.041
EP-63	10/27/99		0.024		0.005 U		0.01 U		0.035		0.64 J2		0.006 UJ1		0.14 J2		0.02
EP-63	1/28/00		0.022		0.005 U		0.01 U		0.025 U		0.1 U		0.003		0.12		0.02 U
EP-63	5/3/00		0.025		0.005 U		0.021		0.025 U		0.17		0.007		0.14		0.057
EP-63	5/3/00		0.026		0.005 U		0.02		0.025 U		0.33		0.004		0.14		0.024
EP-63	8/10/00		0.021		0.005 U		0.022		0.025 U		0.89		0.01 UJ1		0.2		0.021
EP-63	10/31/00		0.023		0.005 U		0.027		0.026		1 J4		0.013		0.17		0.089 UJ1,J4
EP-63	2/21/01		0.041		0.005 U		0.057		0.031		2.5		0.027		0.077		0.13 UJ1
EP-63	5/15/01		0.03		0.005 U		0.16		0.037		3.6		0.034		0.099		0.091
EP-63	5/15/01		0.028		0.005 U		0.16		0.035		4.1		0.036		0.094		0.094
EP-63	7/27/01	0.041	0.047	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U,J4	0.003 U	0.003 U	0.18	0.18	0.032	0.03
EP-63	11/14/01	0.043	0.039	0.005 U	0.005 U	0.01 U	0.052	0.025 U	0.031	0.1 U	0.53	0.003 U	0.006	0.096	0.096	0.02 U	0.02 U
EP-63	2/13/02	0.037	0.037	0.005 U	0.005 U	0.01 U	0.081	0.025 U	0.025 U	0.1 U	0.52	0.003 U	0.007	0.086	0.084	0.037	0.012
EP-63	5/9/02	0.036	0.04	0.005 U	0.005 U	0.01 U	0.073	0.025 U	0.041	0.1 U	0.86	0.003 U	0.01	0.071	0.073	0.02 U	0.027
EP-63	8/13/02	0.032	0.032	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.2	0.003 U	0.006	0.079	0.076	0.057	0.067
EP-64	8/9/97	0.025		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.5		0.025 J	
EP-64	11/5/97	0.048		0.005 U		0.01 U		0.025 U		0.1		0.003 U		0.7		0.03	
EP-64	2/5/98	0.043		0.005 U		0.01 U		0.049		0.1 J4		0.003 U		0.65		0.024	
EP-64	5/8/98	0.041		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.61		0.053	
EP-64	8/10/98	0.04		0.005		0.01 U		0.025 U		0.1 U		0.003 U		0.6		0.067	
EP-64	11/9/98	0.045		0.014		0.01 U		0.025 U		0.1 U,J4		0.003 U		0.58		0.32	
EP-64	2/10/99	0.039		0.011		0.01 U		0.025 U		0.1 U		0.003 U		0.48		0.084	
EP-64	5/6/99	0.038		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.49		0.043	
EP-64	8/3/99	0.036	0.038	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.51	0.003 U	0.003 U	0.51	0.48	0.026	0.027
EP-64	10/27/99		0.049		0.005 U		0.01 U		0.01		0.39 J2		0.004 UJ1		0.39 J2		0.02
EP-64	1/28/00		0.043		0.005 U		0.01 U		0.025 U		0.76		0.003		0.52		0.02 U
EP-64	5/3/00		0.052		0.005 U		0.01 U		0.025 U		0.14		0.005		0.5		0.02 U
EP-64	8/10/00		0.049		0.005 U		0.01 U		0.025 U		0.17		0.003 U		0.5		0.02 U
EP-64	10/31/00		0.051		0.005 U		0.01 U		0.025 U		0.19 J4		0.003 U		0.53		0.052 UJ1,J4
EP-64	2/21/01		0.096		0.009		0.019		0.025 U		1.5		0.004		0.49		0.088 UJ1
EP-64	5/15/01		0.057		0.005 U		0.01 U		0.025 U		0.17		0.003 U		0.54		0.062
EP-64	7/27/01	0.1	0.11	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U,J4	0.003 U	0.003 U	0.5	0.46	0.043	0.049
EP-64	11/14/01	0.13	0.13	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.036	0.1 U	0.23	0.003 U	0.003 U	0.44	0.47	0.02 U	0.02 U
EP-64	2/13/02	0.086	0.098	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.71	0.003 U	0.003 U	0.46	0.46	0.02 U	0.026
EP-64	5/9/02	0.11	0.1	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.071	0.1 U	0.38	0.003 U	0.005	0.43	0.41	0.02 U	0.02 U
EP-64	8/13/02	0.12	0.13	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.004	0.45	0.51	0.1	0.13
EP-64	11/12/02	0.077	0.08	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.14	0.003 U	0.003 U	0.46	0.45	0.031	0.029
EP-65	8/16/97	0.005 U		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.33		0.02 U	
EP-65	11/14/97	0.013		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.29		0.02 U	
EP-65	2/18/98	0.009 J4		0.005 U		0.01 U		0.025 U		0.1 U,J4,J4		0.003 U		0.2		0.02 U,J4	

Appendix II

Cummulative List of Grounudwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-65	5/18/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.16				0.02	U		
EP-65	8/24/98	0.006				0.005	U			0.01	U			0.025	U			0.27				0.003	U			0.14				0.02	U		
EP-65	11/16/98	0.007				0.005	U			0.01	U			0.025	U			0.12				0.003	U			0.15				0.02	U		
EP-65	2/24/99	0.007				0.005	U			0.01	U			0.025	U			0.14				0.003	U			0.17				0.02	U		
EP-65	2/24/99	0.008				0.005	U			0.01	U			0.025	U			0.12				0.003	U			0.18				0.02	U		
EP-65	5/13/99	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.3				0.02	U		
EP-65	8/10/99	0.006		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.5		0.57	J4	0.003	U	0.003	U	0.17		0.18		0.021	U	0.02	U
EP-65	8/10/99	0.005		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.3		0.56	J4	0.003	U	0.003	U	0.17		0.19		0.02	U	0.02	U
EP-65	11/3/99			0.033				0.005	U			0.01	U			0.026				0.67				0.007	J4			0.24				0.02	U
EP-65	2/7/00			0.02				0.005	U			0.01	U			0.025	U			0.17				0.003	U			0.2				0.02	U
EP-65	2/7/00			0.018				0.005	U			0.01	U			0.025	U			0.23				0.003	U			0.2				0.02	U
EP-65	5/8/00			0.012				0.005	U			0.01	U			0.025	U			0.12				0.003	U			0.22				0.02	U
EP-65	8/15/00			0.006	J4			0.005	U			0.01	U			0.025	U			0.5				0.003				0.18				0.02	U
EP-65	11/13/00			0.005	U			0.005	U			0.01	U			0.025	U			0.1				0.003	U			0.22				0.02	U
EP-65	2/23/01			0.006				0.005	U			0.01	U			0.025	U			0.21	J4			0.003	U			0.21				0.038	U
EP-65	5/16/01			0.059				0.005	U			0.01	U			0.025	U			0.1	UJ4			0.003	U			0.22				0.02	U
EP-65	7/30/01	0.006		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	UJ4	0.35		0.003	U	0.003	U	0.26		0.25		0.02	UJ4	0.02	UJ4
EP-65	7/30/01	0.005		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	UJ4	0.19		0.003	U	0.003	U	0.26		0.25		0.021	U	0.02	UJ4
EP-65	11/15/01	0.008		0.006		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.12		0.003	U	0.003	U	0.23		0.25		0.02	U	0.02	U
EP-65	2/21/02	0.018		0.036		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.14		0.27	UJ4	0.003	U	0.003	U	0.28		0.25		0.02	U	0.02	U
EP-65	5/14/02	0.007		0.008		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.16		0.003	U	0.003	U	0.24		0.23		0.02	U	0.02	U
EP-65	8/21/02	0.007		0.009		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.17		0.003	U	0.003	U	0.26		0.27		0.02	U	0.023	
EP-65	11/25/02																																
EP-66	8/8/97	13				0.005	U			0.011				0.025	U			0.1	U			0.003	U			0.26				0.046	J2		
EP-66	11/5/97	11				0.005	U			0.01	U			0.025	U			0.15				0.003	U			0.26				0.027			
EP-66	2/3/98	9.7				0.005	U			0.01	U			0.032				0.1	J4			0.003	U			0.26				0.024			
EP-66	5/8/98	10				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.25				0.039			
EP-66	8/10/98	11				0.007				0.01	U			0.025	U			0.1	U			0.003	U			0.3				0.002			
EP-66	11/9/98	8.6				0.078				0.01	U			0.066				0.1	UJ4			0.003	U			0.24				0.03			
EP-66	2/10/99	9.1				0.034				0.01	U			0.025	U			0.1	U			0.003	U			0.2				0.22			
EP-66	5/6/99	9.9				0.011				0.01	U			0.025	U			0.1	U			0.003	U			0.2				0.094			
EP-66	8/4/99	10		9.6		0.005	U	0.012		0.01	U	0.01	UJ4	0.025	U	0.026	J4	0.1	U	0.22	J4	0.003	U	0.004		0.28		0.28		0.022		0.045	
EP-66	10/27/99			6.1				0.005	U			0.01	U			0.025	U			0.82	J2			0.004	UJ1			0.22	J2			0.03	
EP-66	1/28/00			10				0.005	U			0.01	U			0.025	U			0.8				0.003				0.21				0.02	U
EP-66	5/3/00			8.8				0.005	U			0.01	U			0.025	U			0.3				0.003	U			0.28				0.022	
EP-66	8/10/00			8.5				0.005	U			0.01	U			0.025	U			0.17				0.006	UJ1			0.29				0.021	
EP-66	10/31/00			8.1				0.005	U			0.01	U			0.026				0.54	J4			0.005				0.31				0.065	UJ1
EP-66	2/21/01			7.5				0.011				0.01	U			0.025	U			0.49				0.003				0.26				0.093	UJ1
EP-66	5/15/01			8.8				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.29				0.024	
EP-66	7/27/01	8.6		8.4		0.005	U	0.005	U	0.01	U	0.01	U	0.026		0.029		0.1	U	0.1	UJ4	0.003	U	0.003	U	0.31		0.3		0.042		0.051	
EP-66	11/14/01	7.5		7.4		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.039		0.1	U	0.26		0.003	U	0.003	U	0.26		0.3		0.021		0.023	
EP-66	2/13/02	7.8		8.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.16		0.003	U	0.003	U	0.21		0.22		0.02	U	0.021	
EP-66	5/9/02	5.2		6.2		0.005	U	0.005	U	0.01	U	0.01	U	0.034		0.1		0.1	U	0.61		0.003	U	0.007		0.19		0.19		0.02	U	0.022	
EP-66	8/13/02	10		11		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.026		0.1	U	0.14		0.003	U	0.003	U	0.35		0.19		0.047		0.071	
EP-66	11/12/02	7.3		7.9		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.24		0.26		0.035		0.035	
EP-67	8/12/97	0.015				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.14				0.022			
EP-67	11/7/97	0.042				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.15				0.038			
EP-67	2/11/98	0.015	J4			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.13				0.02			
EP-67	2/11/98	0.015	J4			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.13				0.02	U		
EP-67	5/12/98	0.015				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.14				0.028			

Appendix II

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Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-67	8/13/98	0.013				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.15				0.031			
EP-67	11/10/98	0.021				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.12				0.08			
EP-67	2/10/99	0.016				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.13				0.043			
EP-67	5/7/99	0.02				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.11				0.031	J4		
EP-67	8/5/99	0.02		0.023		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.21		0.003	U	0.003	U	0.12		0.1		0.037		0.023	
EP-67	10/28/99			0.017				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.12				0.02	U
EP-67	1/24/00			0.009				0.005	U			0.01	U			0.025	U			0.12				0.011	UJ1			0.1				0.02	U
EP-67	4/24/00			0.02				0.005	U			0.01	U			0.025	U			0.12				0.009	UJ1			0.11				0.051	
EP-67	8/2/00			0.01				0.005	U			0.01	U			0.025	U			0.1	U			0.005	U			0.094				0.02	U
EP-67	8/2/00			0.011				0.005	U			0.01	U			0.025	U			0.1	U			0.009				0.097				0.02	U
EP-67	10/31/00			0.01				0.005	U			0.01	U			0.025	U			0.21	J4			0.003				0.1				0.057	UJ4
EP-67	2/8/01			0.014				0.005	U			0.01	U			0.025	U			0.1				0.003	U			0.11				0.03	UJ
EP-67	2/8/01			0.015				0.005	U			0.01	U			0.025	U			0.11				0.004				0.11				0.039	UJ
EP-67	5/7/01			0.018				0.005	U			0.01	U			0.025	U			0.11				0.003	U			0.1				0.059	
EP-67	7/17/01	0.026		0.028		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.096		0.09		0.02		0.025	
EP-67	10/30/01	0.022		0.02		0.005	U,UJ4	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.22		0.1	U	0.003	U	0.003	U,UJ4	0.085		0.079	J4	0.02	UJ4	0.03	
EP-67	2/6/02	0.023		0.022	J4	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.81	J4	0.003	U	0.003	U	0.09		0.095		0.02	U	0.02	U
EP-67	4/30/02	0.034		0.034		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.38		0.003	U	0.003	U	0.077		0.068		0.02	U	0.02	U
EP-67	8/6/02	0.021		0.024		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.034		0.1	U	0.23		0.003	U	0.003	U	0.077		0.077		0.025		0.022	
EP-67	8/6/02	0.02		0.025		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.23		0.003	U	0.003	U	0.077		0.079		0.025		0.023	
EP-67	11/11/02																																
EP-68	8/14/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.31				0.024			
EP-68	8/14/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.33				0.02	U		
EP-68	11/11/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.32				0.023			
EP-68	2/11/98	0.005	U,UJ4			0.005	U			0.016				0.025	U			0.1	U			0.003	U			0.28				0.02	U		
EP-68	5/13/98	0.009				0.005	U			0.012				0.025	U			0.1	U			0.003	U			0.33				0.02			
EP-68	5/13/98	0.01				0.005	U			0.012				0.025	U			0.1	U			0.003	U			0.34				0.02	U		
EP-68	8/13/98	0.007				0.005	U			0.016				0.025	U			0.1	U			0.003	U			0.25				0.031			
EP-68	11/9/98	0.009				0.005				0.012				0.025	U			0.1	U,UJ4			0.003	U			0.26				0.071			
EP-68	2/18/99	0.005	U			0.005	U			0.01				0.025	U			0.1	U			0.003	U			0.16				0.062			
EP-68	5/10/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.17				0.03	J4		
EP-68	8/5/99	0.005		0.005		0.005	U	0.005	U	0.013		0.01		0.025	U	0.025	U	0.1	U	0.42		0.003	U	0.003	U	0.25		0.24		0.02		0.02	U
EP-68	10/28/99			0.005	U			0.005	U			0.01	U			0.025	U			0.36				0.003	U			0.29				0.02	U
EP-68	1/25/00			0.005	U			0.005	U			0.014				0.025	U			2.5	J4			0.01	UJ1			0.27				0.02	U
EP-68	1/25/00			0.005				0.005	U			0.016				0.025	U			4.6	J4			0.01	UJ1			0.26				0.02	U
EP-68	4/24/00			0.005				0.005	U			0.012				0.025	U			0.25				0.003	U			0.27				0.025	
EP-68	4/24/00			0.005				0.005	U			0.011				0.025	U			0.29				0.003	U			0.27				0.029	
EP-68	8/2/00			0.005	U			0.005	U			0.01	U			0.025	U			0.47				0.005	U			0.23				0.02	U
EP-68	10/31/00			0.005	U			0.005	U			0.011				0.025	U			0.51	J4			0.003	U			0.21				0.057	UJ4
EP-68	2/9/01			0.008				0.005	U			0.01	U			0.025	U			0.72				0.004				0.33	J4			0.054	
EP-68	5/7/01			0.006				0.005	U			0.01	U			0.025	U			0.49				0.003	U			0.25				0.06	
EP-68	7/17/01	0.011		0.013		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.44		0.003	U	0.003	U	0.28		0.28		0.02	U	0.02	U
EP-68	10/30/01	0.013		0.012		0.005	U,UJ4	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.18		0.003	U	0.003	U,UJ4	0.24		0.25	J4	0.02	U,UJ4	0.023	
EP-68	2/6/02	0.027		0.033	J4	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.41	J4	0.003	U	0.003	U	0.32		0.33		0.02	U	0.02	U
EP-68	5/1/02	0.013		0.014		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.28		0.003	U	0.003	U	0.21		0.22		0.02	U	0.02	U
EP-68	8/6/02	0.007		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.41		0.003	U	0.003	U	0.27		0.27		0.02	U	0.02	
EP-68	11/11/02																																
EP-7	8/6/97	0.064				0.005	U			0.01	U			0.025	U			1				0.003	U			0.005	U			0.02	U		
EP-7	11/4/97	0.084				0.005	U			0.01	U			0.025	U			1.2				0.003	U			0.005	U			0.02	U		
EP-7	2/4/98	0.076				0.005	U			0.01	U			0.025	U,UJ4			1.7				0.003	U			0.005	U			0.02	U,UJ4		

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-7	5/5/98	0.056				0.005	U			0.01	U			0.025	U			1.5				0.003	U			0.005	U			0.028			
EP-7	8/5/98	0.065				0.005	U			0.01	U			0.025	U			1.4				0.003	U			0.005	U			0.024			
EP-7	11/3/98	0.049	J4			0.005	U			0.01	U			0.025	U			0.74				0.003	U			0.005	U			0.02	U		
EP-7	2/3/99	0.044	J4			0.005	U			0.01	U			0.025	U			0.58				0.003	U			0.005	U			0.02	U		
EP-7	2/3/99	0.056	J4			0.005	U			0.01	U			0.025	U			0.85				0.003	U			0.005	U			0.02	U		
EP-7	5/5/99	0.065				0.005	U			0.01	U			0.025	U			1.4				0.003	U			0.005	U			0.025			
EP-7	8/2/99	0.064		0.063		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.5		1.6		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
EP-7	10/25/99			0.12				0.005	U			0.01	U			0.025	U			5.8	J2			0.003	U			0.005	UJ02			0.03	
EP-7	10/25/99			0.12				0.005	U			0.01	U			0.025	U			5.5	J2			0.003	U			0.005	UJ02			0.02	
EP-7	1/29/00			0.097				0.005	U			0.01	U			0.025	U			3.5				0.003	U			0.005	U			0.02	U
EP-7	1/29/00			0.095				0.005	U			0.01	U			0.025	U			3				0.005				0.005	U			0.02	U
EP-7	4/24/00			0.068				0.005	U			0.01	U			0.025	U			1.8				0.003	U			0.005	U			0.02	
EP-7	8/1/00			0.069				0.005	U			0.01	U			0.025	U			1.3				0.006	UJ			0.005	U			0.02	UJ
EP-7	8/1/00			0.077				0.005	U			0.01	U			0.025	U			1.4				0.005	U			0.005	U			0.02	U
EP-7	10/30/00			0.077				0.005	U			0.01	U			0.025	U			1.3	J4			0.003	UJ04			0.006				0.045	UJ04
EP-7	2/5/01			0.056				0.005	U			0.01	U			0.025	U			1.5				0.006				0.005	U			0.049	J4
EP-7	2/5/01			0.066				0.005	U			0.01	U			0.025	U			1.6				0.003				0.005	U			0.02	UJ04
EP-7	5/4/01			0.075				0.005	U			0.01	U			0.025	U			2.5				0.003	U			0.005	U			0.029	
EP-7	5/4/01			0.068				0.005	U			0.01	U			0.025	U			2.4				0.003	U			0.005	U			0.026	
EP-7	7/16/01	0.058		0.076		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.98		2		0.003	U	0.004		0.005	U	0.005	U	0.02	U	0.041	
EP-7	7/16/01	0.049		0.068		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.85		1.9		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.039	
EP-7	10/29/01	0.052		0.068		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.6		2.3		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.036	
EP-7	10/29/01	0.053		0.072		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.6		2.4		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.037	
EP-7	2/6/02	0.053		0.063	J4	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.74		1.6	J4	0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.044	J4
EP-7	2/6/02	0.052		0.077	J4	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.72		2.1	J4	0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.048	J4
EP-7	4/29/02	0.061		0.073		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.1		1.2		11		0.003	U	0.045		0.005	U	0.005	U	0.02	U	0.059	
EP-7	8/5/02	0.087		0.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.3		2.1		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
EP-7	8/5/02	0.077		0.1		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.1		2.1		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
EP-7	11/4/02	0.051		0.055		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.58		1.5		0.003	U	0.003	U	0.005	U	0.005	U	0.028		0.03	
EP-70	8/12/97																																
EP-70	8/26/97	2				0.01				0.01	U			0.025	U			0.1	U			0.003	U			0.24				0.15			
EP-70	8/26/97	1.9				0.01				0.01	U			0.025	U			0.1	U			0.003	U			0.26				0.13			
EP-70	11/7/97	1.7				0.013				0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.18			
EP-70	2/11/98	1.4				0.014				0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.2			
EP-70	5/12/98	1.2				0.012				0.01	U			0.025	U			0.1	U			0.003	U			0.21				0.19			
EP-70	8/13/98	1.2				0.013				0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.21			
EP-70	11/10/98	1				0.015				0.01	U			0.025	U			0.1	U			0.003	U			0.21				0.23			
EP-70	11/10/98	1				0.014				0.01	U			0.025	U			0.1	U			0.003	U			0.2				0.23			
EP-70	2/10/99	0.83				0.014				0.01	U			0.025	U			0.1	U			0.003	U			0.18				0.24			
EP-70	5/7/99	0.83				0.009				0.01	U			0.025	U			0.1	U			0.003	U			0.19				0.14	J		
EP-70	8/5/99	0.72		0.75		0.009		0.009		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.18		0.19		0.16		0.13	
EP-70	10/28/99			0.8				0.009				0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.14	J2
EP-70	1/24/00			0.63				0.007				0.01	U			0.025	U			0.1	U			0.01	UJ1			0.19				0.12	
EP-70	1/24/00			0.64				0.008				0.01	U			0.025	U			0.1	U			0.009	UJ1			0.19				0.12	
EP-70	4/25/00			0.59				0.007				0.01	U			0.025	U			0.12				0.003	U			0.2				0.12	
EP-70	8/3/00			0.56				0.006				0.01	U			0.025	U			0.1	U			0.005	U			0.19				0.12	
EP-70	11/1/00			0.57				0.006				0.01	U			0.025	U			0.1	U			0.003	U			0.21				0.15	UJ1
EP-70	11/1/00			0.58				0.006				0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.15	UJ1
EP-70	2/9/01			0.56				0.005				0.01	U			0.025	U			0.1	U			0.003	U			0.22	J4			0.16	
EP-70	5/7/01			0.6				0.005				0.01	U			0.025	U			0.1	U			0.003	U			0.21				0.17	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-70	7/18/01	0.73	0.73	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.12	0.003 u	0.003 u	0.21	0.21	0.11	0.097
EP-70	10/31/01	0.84	0.81	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.21	0.19	0.089	0.089
EP-70	10/31/01	0.84	0.79	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.22	0.2	0.087	0.09
EP-70	2/7/02	0.88	0.84	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.22	0.24	0.085	0.078 u
EP-70	5/1/02	0.88	0.93	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.17	0.17	0.098	0.12
EP-70	8/7/02	0.9	0.96	0.006	0.006	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.21	0.22	0.1	0.1
EP-70	11/11/02																
EP-71	8/12/97	0.16		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.28		0.02 u	
EP-71	11/7/97	0.19		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.32		0.027	
EP-71	2/11/98	0.14		0.005 u		0.01 u		0.025		0.1 u		0.012		0.26		0.027	
EP-71	5/12/98	0.13		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.27		0.023	
EP-71	8/13/98	0.14		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.29		0.025	
EP-71	11/10/98	0.13		0.006		0.01 u		0.025 u		0.1 u		0.003 u		0.23		0.081	
EP-71	2/10/99	0.12		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.21		0.025	
EP-71	8/5/99	0.13	0.12	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.24	0.24	0.026	0.02
EP-71	10/28/99		0.12		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.23		0.02 u
EP-71	1/24/00		0.11		0.005 u		0.01 u		0.025 u		0.1 u		0.008 uu		0.2		0.02 u
EP-71	4/24/00		0.11		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.22		0.026
EP-71	8/3/00		0.11		0.005 u		0.01 u		0.025 u		0.1		0.005 u		0.21		0.02 u
EP-71	8/3/00		0.11		0.005 u		0.01 u		0.025 u		0.1 u		0.005 u		0.21		0.02 u
EP-71	11/1/00		0.11		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.23		0.035 uu
EP-71	2/9/01		0.093		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.19 u		0.022
EP-71	2/9/01		0.11		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.24 u		0.032
EP-71	5/7/01		0.11		0.005 u		0.01 u		0.025 u		0.14		0.003 u		0.24		0.044
EP-71	7/18/01	0.11	0.12	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.24	0.26	0.02 u	0.02
EP-71	7/18/01	0.12	0.12	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.25	0.25	0.02 u	0.021
EP-71	10/31/01	0.12	0.11	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.23	0.21	0.02 u	0.02 u
EP-71	2/7/02	0.13	0.13	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.24	0.26	0.02 u	0.02 u
EP-71	5/1/02	0.13	0.12	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.22	0.18	0.02 u	0.028
EP-71	5/1/02	0.13	0.12	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.17	0.18	0.02 u	0.02 u
EP-71	8/6/02	0.14	0.13	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.23	0.23	0.02 u	0.02 u
EP-71	11/11/02																
EP-72	8/12/97	0.48		0.21		0.01 u		0.025 u		0.1 u		0.003 u		0.51		0.45	
EP-72	11/7/97	0.49		0.2		0.01 u		0.025 u		0.1 u		0.003 u		0.38		0.47	
EP-72	2/11/98	0.5		0.21		0.01 u		0.025 u		0.1 u		0.003 u		0.36		0.53	
EP-72	5/13/98	0.5		0.22		0.01 u		0.025 u		0.1 u		0.003 u		0.19		0.54	
EP-72	8/13/98	0.49		0.2		0.01 u		0.025 u		0.1 u		0.003 u		0.43		0.54	
EP-72	11/10/98	0.45		0.2		0.01 u		0.025 u		0.1 u		0.003 u		0.42		0.47	
EP-72	1/24/00		0.065		0.005 u		0.01 u		0.025 u		0.86		0.011 uu		1.8		0.053
EP-72	4/25/00		0.069		0.005 u		0.01 u		0.025 u		0.28		0.003		6		0.056
EP-72	8/3/00		0.05 u		0.005 u		0.01 u		0.025 u		0.19		0.005 u		0		0.044
EP-72	11/1/00		0.14		0.005 u		0.01 u		0.025 u		0.22		0.007		5.2		0.068 uu
EP-72	2/9/01		0.14		0.006		0.01 u		0.025 u		0.12		0.003 u		4.1		0.11
EP-72	5/7/01		0.093		0.005 u		0.01 u		0.034		0.14		0.003 u		9.4		0.13
EP-72	7/18/01	0.094	0.17	0.005 u	0.005 u	0.01 u	0.01 u	0.041	0.035	0.1 u	0.1 u	0.003 u	0.003 u	16	15	0.078	0.074
EP-72	10/31/01	0.27	0.23	0.005	0.005	0.01 u	0.01 u	0.027	0.025 u	0.1 u	0.12	0.003 u	0.004	13	13	0.064	0.086
EP-72	2/7/02	0.21	0.21	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	7.3	7.4	0.03	0.037 u
EP-72	5/1/02	0.26	0.24	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	7.9	7.2	0.042	0.056
EP-72	8/7/02	0.24	0.23	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	8.7	10	0.059	0.059
EP-72	11/11/02																

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-73	8/12/97	0.031		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		1.1		0.01	
EP-73	11/13/97	0.033		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		1.1		0.033	
EP-73	2/12/98	0.023 J4		0.005 U		0.01 U		0.025 U		0.1 U		0.004		1.2		0.022	
EP-73	5/11/98	0.11		0.01		0.01 U		0.025 U		0.1 U		0.003 U		1.3		0.15	
EP-73	8/17/98	0.031		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		1.2		0.043	
EP-73	11/5/98	0.039 J4		0.012		0.01 U		0.025 U		0.1 0.034		0.003 U		1.1		0.19	
EP-73	2/9/99	0.038		0.005		0.01 U		0.025 U		0.1 0.034		0.003 U		0.93		0.067	
EP-73	5/7/99	0.037		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		1		0.04 U	
EP-73	5/7/99	0.034		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		1		0.038 U	
EP-73	8/5/99	0.027	0.026	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.15	0.003 U	0.003 U	1.1	0.96	0.029	0.024
EP-73	10/29/99		0.061		0.005 U		0.01 U		0.025 U		0.1 U		0.039		1.1		0.054
EP-73	1/26/00		0.019		0.005 U		0.01 U		0.025 U		0.28		0.003 U		0.91		0.02 U
EP-73	4/28/00		0.1		0.005		0.01 U		0.025 U		0.1 J4		0.003 U		0.95		0.14 J2
EP-73	8/7/00		0.027		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.84		0.025
EP-73	11/7/00		0.023		0.005 U		0.01 0.034		0.025 U		0.38 J4		0.003 U		0.87		0.028
EP-73	2/16/01		0.03		0.005 U		0.01 U		0.025 U		0.46		0.003		1		0.06 U
EP-73	5/9/01		0.031		0.005 U		0.01 U		0.025 U		0.5		0.003 U		0.93		0.08
EP-73	7/20/01	0.041	0.054	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.35	0.003 U	0.004	0.89	0.9	0.031	0.034
EP-73	7/20/01	0.041	0.055	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.32	0.003 U	0.004	0.89	0.9	0.031	0.035
EP-73	11/5/01	0.051	0.06	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.91	0.89	0.027	0.026
EP-73	2/12/02	0.041	0.04	0.005 U	0.005 U	0.01 U	0.01 0.034	0.025 U	0.025 0.034	0.1 U	0.17 J4	0.003 U	0.003 0.034	0.81	0.84	0.037	0.041
EP-73	5/7/02	0.061	0.056	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.44	0.003 U	0.003 U	0.75	0.74	0.02 U	0.022
EP-73	8/12/02	0.026	0.022	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.81	0.9	0.035	0.044
EP-73	8/12/02	0.029	0.025	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.003 U	0.84	0.92	0.037	0.045
EP-73	11/11/02																
EP-74	8/13/97	0.12		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.44		0.02	
EP-75	8/12/97	12		0.036		0.01 U		0.054		0.1 U		0.003		3.3		0.15	
EP-75	11/13/97	21		0.019		0.01 U		0.051		0.1 U		0.003		4		0.16	
EP-75	2/6/98	18		0.022		0.01 U		0.086		0.3 J4		0.001 U		4.49		0.14	
EP-75	5/11/98	17		0.041		0.01 U		0.1		0.1 U		0.005		5.1		0.15	
EP-75	8/17/98	18		0.005 U		0.01 U		0.042		0.1 U		0.003 U		3.7		0.14	
EP-75	11/5/98	18 J4		0.025		0.01 U		0.058		0.13 J4		0.007		5.4		0.14	
EP-75	2/22/99	17		0.01		0.01 U		0.061		0.1 U		0.003		3.8		0.21	
EP-75	5/10/99	18		0.009		0.01 U		0.075		1.2		0.003 U		4		0.102 U	
EP-75	8/6/99	17	16	0.005	0.005	0.01 U	0.01 U	0.066	0.066	0.1 U	0.37	0.003	0.01	3.8	3.6	0.11	0.094
EP-75	1/26/00		14		0.005 U		0.01 U		0.051		1.5		0.023		3.3		0.084
EP-75	4/28/00		16		0.007		0.01 U		0.069		0.87 J4		0.006		4.8		0.15 J2
EP-75	8/7/00		11		0.005		0.01 U		0.049		0.47		0.006		3.4		0.1
EP-75	11/7/00		9.4		0.009		0.01 0.034		0.062		0.63 J4		0.018		2.7		0.1
EP-75	2/14/01		13		0.007		0.01 U		0.025		0.45		0.003		4.4		0.14
EP-75	5/9/01		14		0.006		0.01 U		0.028		0.49		0.003		4.7		0.15
EP-75	7/20/01	15	15	0.006	0.006	0.01 U	0.01 U	0.066	0.062	0.1 U	0.56	0.003 U	0.016	4.3	4.2	0.077	0.086
EP-75	11/5/01	16	16	0.006	0.005	0.01 U	0.01 U	0.051	0.06	0.1 U	0.13	0.003 U	0.003 U	4.2	3.9	0.078	0.073
EP-75	2/12/02	17	17	0.005 U	0.006	0.01 U	0.01 0.034	0.04	0.044 J4	0.1 U	0.31 J4	0.003 U	0.003 0.034	4.2	4.3	0.091	0.098
EP-75	2/12/02	17	16	0.005 U	0.007	0.01 U	0.036 J4	0.038	0.074 J4	0.1 U	1.3 J4	0.003 U	0.017 J4	4.3	4	0.088	0.1
EP-75	5/7/02	18	18	0.005 U	0.005 U	0.01 U	0.01 U	0.053	0.053	0.1 U	0.35	0.003 U	0.004	3.6	3.5	0.11	0.099
EP-75	8/9/02	15	17	0.005	0.007	0.01 U	0.01 U	0.027	0.04	0.1 U	0.14	0.003 U	0.008	3.6	4.8	0.091	0.12
EP-75	8/9/02	15	18	0.006	0.007	0.01 U	0.01 U	0.026	0.036	0.1 U	0.15	0.003 U	0.008	3.6	5.2	0.083	0.12
EP-75	11/6/02	14	17	0.016	0.017	0.01 U	0.01 U	0.025 U	0.04	0.1 U	0.1 U	0.003 U	0.003 U	3.5	3.8	0.091	0.091
EP-76	8/12/97	0.48		0.005 U		0.01 U		0.025 U		0.1 U		0.007		0.14		0.16	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-76	11/11/97	0.48		0.005 U		0.01 U		0.025 U		0.1 U		0.004		0.17		0.078	
EP-76	2/6/98	0.54		0.005 U		0.01 U		0.025 U		0.1 U		0.005		0.13		0.07	
EP-76	5/11/98	0.41		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.14		0.085	
EP-76	8/17/98	0.42		0.005 U		0.01 U		0.025 U		0.1 U		0.008		0.16		0.073	
EP-76	11/5/98	2.3 J		0.01		0.01 U		0.05		0.1 UJ		0.023		0.51		0.15	
EP-76	2/22/99	0.77		0.005 U		0.01 U		0.025 U		0.1 U		0.005		0.16		0.054	
EP-76	5/10/99	1.7		0.005 U		0.01 U		0.025 U		0.56		0.004		0.36		0.057 J	
EP-76	1/26/00		1.3		0.005 U		0.01 U		0.025 U		0.1 U		0.011		0.18		0.052
EP-76	4/28/00		0.92		0.005 U		0.01 U		0.025 U		0.1 UJ		0.01		0.15		0.077 J
EP-76	8/7/00		1.1		0.005 U		0.01 U		0.025 U		0.3		0.007		0.15		0.084
EP-76	11/7/00		1.4		0.005 U		0.01 UJ		0.025 U		0.17 J		0.01		0.21		0.055
EP-76	2/14/01		1.5		0.005 U		0.01 U		0.025 U		0.18		0.014		0.22		0.12
EP-76	5/9/01		1.3		0.005 U		0.01 U		0.025 U		0.1 U		0.006		0.19		0.11
EP-76	7/20/01	1.1	1	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003	0.007	0.17	0.17	0.045	0.054
EP-76	11/5/01	0.94	0.92	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025	0.1 U	0.13	0.003	0.009	0.15	0.14	0.057	0.071
EP-76	11/5/01	0.92	0.94	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025	0.1 U	0.12	0.003	0.009	0.14	0.14	0.052	0.082
EP-76	2/12/02	0.81	0.76	0.005 U	0.005 U	0.01 U	0.01 UJ	0.025 U	0.025 UJ	0.1 U	0.1 UJ	0.003	0.007 J	0.11	0.1	0.054 J	0.062
EP-76	5/2/02	0.54	0.51	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.005	0.088	0.08	0.035	0.049
EP-76	5/7/02	0.53	0.51	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.006	0.087	0.08	0.033	0.05
EP-76	8/9/02	0.83	0.87	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003	0.005	0.19	0.2	0.058	0.072
EP-76	11/6/02	0.36	0.37	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.1 U	0.003 U	0.004	0.12	0.12	0.05	0.054
EP-77	8/12/97	5.6		0.012		0.01 U		0.025 U		0.1 U		0.006		0.034		0.025	
EP-77	11/13/97	6		0.013		0.01 U		0.025 U		0.1 U		0.005		0.019		0.022	
EP-77	11/13/97	5.7		0.012		0.01 U		0.025 U		0.1 U		0.005		0.024		0.022	
EP-77	2/12/98	5.7		0.015		0.01 U		0.025 U		0.1 U		0.005		0.007		0.024	
EP-77	5/13/98	5.4		0.016		0.01 U		0.025 U		0.1 U		0.005		0.018		0.031	
EP-77	8/17/98	6.1		0.018		0.01 U		0.025 U		0.1 U		0.005		0.019		0.037	
EP-77	11/11/98	6.8		0.02		0.01 U		0.025 U		0.1 U		0.003 U		0.014		0.063	
EP-77	2/11/99	6.2		0.016		0.01 U		0.025 U		0.1 U		0.005		0.025		0.023	
EP-77	5/7/99	7.6		0.011		0.01 U		0.025 U		0.1 U		0.004		0.015		0.025 J	
EP-77	8/5/99	7.2	6	0.01	0.01	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.55	0.003	0.01	0.025	0.023	0.024	0.016
EP-77	10/29/99		5.8		0.008		0.01 U		0.029		7.4 J		0.015		0.022		0.03
EP-77	10/29/99		6		0.008		0.01 U		0.025 U		6.2 J		0.012		0.022		0.027
EP-77	1/25/00		7.7		0.012		0.01 U		0.025 U		0.51 J		0.012 UJ		0.023		0.02 U
EP-77	4/28/00		6.5		0.009		0.01 U		0.027		4.5 J		0.01		0.031		0.11 J
EP-77	4/28/00		6.6		0.009		0.01 U		0.025 U		3.4 J		0.008		0.028		0.081 J
EP-77	8/4/00		6.4		0.007		0.01 U		0.025 U		3.7		0.008		0.015		0.022
EP-77	11/3/00		6.2		0.008		0.01 U		0.025 U		0.46		0.003		0.021		0.025 UJ
EP-77	2/12/01		3.3		0.005 U		0.01 U		0.025 U		3.8		0.007		0.013		0.05
EP-77	5/9/01		1.5		0.005 U		0.01 U		0.025 U		6.6		0.008		0.013 J		0.065
EP-77	5/9/01		1.5		0.005 U		0.01 U		0.025 U		8		0.008		0.01 J		0.059
EP-77	7/19/01	5.4	5.5	0.005 U	0.005	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.74	0.003 U	0.004 J	0.022	0.018	0.02 U	0.025
EP-77	11/1/01	8.2	7.8	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	0.25	0.003 U	0.005	0.015	0.011	0.02 U	0.02 U
EP-77	2/8/02	5.4	5.5	0.005	0.005 J	0.01 U	0.01 UJ	0.025 U	0.025 U	0.1 U	1.1 J	0.003 U	0.007	0.008	0.013 J	0.02 U	0.02 U
EP-77	5/2/02	5.4	5.4	0.032	0.03	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	1.3	0.003 U	0.004	0.022	0.02	0.02 U	0.036
EP-77	8/8/02	4.6	4.6	0.005 U	0.005 U	0.01 U	0.01 U	0.025 U	0.025 U	0.1 U	2.1	0.003 U	0.007	0.018	0.022	0.041	0.041
EP-77	11/6/02	4.5	4.5	0.019	0.027	0.01 U	0.01 U	0.025 U	0.031	0.1 U	1.3	0.003 U	0.005 U	0.018	0.017	0.029	0.032
EP-78	8/13/97	6.3		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.35		0.023	
EP-78	11/18/97	5.6		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.24		0.02 U	
EP-78	11/18/97	5.6		0.005 U		0.01 U		0.025 U		0.1 U		0.003 U		0.24		0.02 U	

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l	As T mg/l	Cd Dis mg/l	Cd T mg/l	Cr Dis mg/l	Cr T mg/l	Cu Dis mg/l	Cu T mg/l	Fe Dis mg/l	Fe T mg/l	Pb Dis mg/l	Pb T mg/l	Se Dis mg/l	Se T mg/l	Zn Dis mg/l	Zn T mg/l
EP-78	2/6/98	5.9		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.22		0.02 u	
EP-78	5/14/98	5.6		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.21		0.02 u	
EP-78	8/19/98	5.4		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.25		0.025	
EP-78	11/11/98	6.4		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.74		0.033	
EP-78	2/18/99	4.7		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.2		0.029	
EP-78	5/11/99	5.5		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.22		0.026	
EP-78	5/11/99	5.9		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.22		0.028	
EP-78	8/9/99	5.9	5.2	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.26	0.003 u	0.007 u	0.68	0.57 u	0.02 u	0.01
EP-78	10/31/99		4.6		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.3		0.02 u
EP-78	1/28/00		4.8		0.005 u		0.01 u		0.025 u		0.62		0.009		0.24		0.036
EP-78	5/2/00		4		0.005 u		0.01 u		0.025 u		0.21		0.004		0.2		0.222
EP-78	8/9/00		3.5		0.005 u		0.01 u		0.025 u		0.49		0.006		0.47		0.033
EP-78	11/9/00		3.8		0.005 u		0.01 u		0.025 u		0.1 u		0.013		0.22		0.02 u
EP-78	2/15/01		3.7		0.005 u		0.01 u		0.025 u		0.11		0.003 u		0.21		0.048
EP-78	5/14/01		3.9		0.005 u		0.01 u		0.025 u		0.91 J4		0.012		0.16		0.06
EP-78	7/25/01	3.4	3.5	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.52 J1	0.003 u	0.007	0.27	0.23	0.02 u	0.043
EP-78	11/12/01	4.2	4.1	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.16	0.003 u	0.003 u	0.22	0.23	0.02 u	0.021
EP-78	2/15/02	3.5	3.6	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.18	0.003 u	0.005	0.19	0.18	0.02 u	0.02 u
EP-78	5/7/02	3.2	3	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.38	0.003 u	0.009	0.21	0.18	0.02 u	0.025
EP-78	8/14/02	3.8	3.7	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.2	0.003 u	0.005	0.61	0.6	0.02 u	0.02 u
EP-78	11/13/02	3.6	3.6	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.12	0.003 u	0.003 u	0.36	0.31	0.02 u	0.02
EP-79	8/13/97	0.011		0.005 u		0.012		0.025 u		0.1 u		0.003 u		0.17		0.03 u	
EP-79	11/18/97	0.01 U01		0.005 u		0.012		0.025 u		0.1 u		0.003 u		0.19		0.02 u	
EP-79	2/6/98	0.007		0.005 u		0.01		0.025 u		0.1 J4		0.003 u		0.18		0.02 u	
EP-79	5/14/98	0.008		0.005 u		0.011		0.025 u		0.1 u		0.003 u		0.17		0.02 u	
EP-79	8/19/98	0.01		0.005 u		0.012		0.025 u		0.1 u		0.003 u		0.17		0.026	
EP-79	11/11/98	0.009		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.15		0.05	
EP-79	2/18/99	0.005 u		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.092		0.03	
EP-79	5/11/99	0.026		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.14		0.024	
EP-79	8/9/99	0.008	0.007	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 0.00	0.14	0.12 u	0.02 u	0.02 u
EP-79	10/31/99		0.009		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.12		0.02 u
EP-79	1/28/00		0.006		0.005 u		0.01		0.025 u		0.8		0.004		0.11		0.024
EP-79	1/28/00		0.006		0.005 u		0.011		0.025 u		0.9		0.006		0.11		0.025
EP-79	5/2/00		0.008 U01		0.005 u		0.011		0.025 u		0.13		0.003 u		0.12		0.02 u
EP-79	8/9/00		0.007		0.005 u		0.01 u		0.025 u		0.32		0.003 u		0.11		0.02 u
EP-79	11/9/00		0.014		0.005 u		0.01 u		0.025 u		0.19		0.003		0.094		0.02 u
EP-79	2/15/01		0.01		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.11		0.042
EP-79	5/14/01		0.008		0.005 u		0.01 u		0.025 u		3.2		0.003 u		0.092		0.02 u
EP-79	7/25/01	0.02	0.024	0.005 u	0.005 u	0.01 u	0.011	0.025 u	0.025 u	0.1 u	1.3 u	0.003 u	0.003 u	0.11	0.1	0.02 u	0.023
EP-79	11/13/01	0.021	0.028	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.2	0.003 u	0.003 u	0.092	0.11	0.02 u	0.02 u
EP-79	2/15/02	0.011	0.018	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.15	0.003 u	0.006	0.1	0.1	0.02 u	0.02 u
EP-79	5/7/02	0.017	0.02	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.94	0.003 u	0.005	0.1	0.085	0.02 u	0.02 u
EP-79	8/14/02	0.011	0.01	0.005 u	0.005 u	0.01 u	0.01 u	0.025 u	0.025 u	0.1 u	0.1 u	0.003 u	0.003 u	0.085	0.084	0.022	0.02 u
EP-79	11/11/02																
EP-80	8/13/97	0.019		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.017		0.02 u	
EP-80	11/17/97	0.018		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.041		0.02 u	
EP-80	2/5/98	0.018		0.005 u		0.01 u		0.025 u		0.1 J4		0.003 u		0.039		0.02 u	
EP-80	5/13/98	0.02		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.039		0.023	
EP-80	8/19/98	0.014		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.005 u		0.03	
EP-80	11/11/98	0.016		0.005 u		0.01 u		0.025 u		0.1 u		0.003 u		0.022		0.08	

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-80	2/18/99	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.046				0.052			
EP-80	5/11/99	0.015				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.039				0.022			
EP-80	8/9/99	0.016		0.015		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.46		0.003	U	0.003	U,UJ	0.006		0.005	UJ,UJ	0.027		0.02	U
EP-80	10/27/99			0.015				0.005	U			0.01	U			0.025	U			0.54	J2			0.003	U			0.032	J2			0.02	U
EP-80	1/28/00			0.016				0.005	U			0.01	U			0.025	U			0.38				0.004				0.024				0.02	U
EP-80	5/2/00			0.017	UJ			0.005	U			0.01	U			0.025	U			0.67				0.006				0.017				0.023	
EP-80	8/10/00			0.013				0.005	U			0.01	U			0.025	U			0.26				0.003	U			0.005	U			0.02	U
EP-80	11/9/00			0.02				0.005	U			0.01	U			0.025	U			0.15				0.003	U			0.021				0.024	
EP-80	2/16/01			0.025				0.005	U			0.01	U			0.025	U			0.47				0.003	U			0.015				0.082	UJ
EP-80	5/14/01			0.013				0.005	U			0.01	U			0.025	U			0.79	J4			0.003	U			0.007				0.027	
EP-80	7/25/01	0.021		0.02		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.27	J4	0.003	U	0.003	U	0.009		0.01		0.023		0.027	
EP-80	11/13/01	0.033		0.039		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.67		0.003	U	0.003	U	0.01		0.018		0.02	U	0.022	
EP-80	2/19/02	0.03		0.027		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.006		0.018		0.018		0.02	U	0.02	U
EP-80	5/11/02	0.034		0.031		0.011		0.01		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.61		0.003	U	0.003		0.006		0.005	U	0.064		0.069	
EP-80	8/15/02	0.015		0.016		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.1		0.003	U	0.004		0.005	U	0.005	U	0.023		0.02	U
EP-80	11/7/02	0.014		0.014		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.21		0.003	U	0.003	U	0.013		0.017		0.02		0.02	U
EP-81	8/13/97	0.21				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.02	U		
EP-81	11/17/97	0.19				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.21				0.025			
EP-81	2/3/98	0.32				0.005	U			0.01	U			0.025	U			0.1	J4			0.003	U			0.21				0.025			
EP-81	5/14/98	0.24				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.21				0.021			
EP-81	8/19/98	0.25				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.26				0.038			
EP-81	11/11/98	0.089				0.006				0.01	U			0.025	U			0.1	U			0.003	U			0.24				0.11			
EP-81	2/18/99	0.21				0.007				0.01	U			0.025	U			0.1	U			0.003	U			0.19				0.11			
EP-81	5/11/99	0.24				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.24				0.071			
EP-81	8/9/99	0.4		0.36		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.15		0.003	U	0.005	J4	0.25		0.26	J4	0.045		0.032	
EP-81	10/27/99			0.26				0.005	U			0.01	U			0.025	U			0.38	J2			0.003	U			0.21	J2			0.02	U
EP-81	1/28/00			0.64				0.005	U			0.011				0.025	U			2.1				0.006				0.26				0.032	
EP-81	5/2/00			0.58				0.005	U			0.01	U			0.025	U			2.3				0.01				0.27				0.067	
EP-81	8/9/00			0.78				0.005	U			0.01	U			0.025	U			0.32				0.003	U			0.28				0.024	
EP-81	11/9/00			0.31				0.005	U			0.01	U			0.025	U			0.59				0.003	U			0.26				0.045	
EP-81	2/16/01			0.53				0.006				0.01	U			0.025	U			0.58				0.003	U			0.29				0.11	UJ
EP-81	5/14/01			0.33				0.005	U			0.01	U			0.025	U			0.61	J4			0.003				0.29				0.047	
EP-81	7/25/01	0.55		0.48		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U,J4	0.003	U	0.003	U	0.31		0.28		0.05		0.054	
EP-81	11/13/01	0.62		0.65		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.11		0.003	U	0.003	U	0.27		0.3		0.02	U	0.033	
EP-81	2/19/02	0.55		0.56		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.66		0.003	U	0.004		0.24		0.23		0.02	U	0.02	U
EP-81	5/10/02	0.59		0.68		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.2		0.003	U	0.005		0.29		0.28		0.18		0.19	
EP-81	8/15/02	0.25		0.23		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.5		0.003	U	0.005		0.31		0.3		0.027		0.029	
EP-81	11/13/02																																
EP-82	8/13/97	0.016				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.27				0.02	U		
EP-82	11/18/97	0.011	UJ			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.21				0.02	U		
EP-82	2/11/98	0.006	J4			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.17				0.024			
EP-82	5/14/98	0.01				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.18				0.022			
EP-82	8/19/98	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.18				0.027			
EP-82	11/11/98	0.01				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.22				0.042			
P-82	2/18/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.13				0.038			
P-82	5/11/99	0.01				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.18				0.038			
P-82	8/9/99	0.01		0.009		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U,UJ	0.17		0.15	J4	0.022		0.02	U
P-82	10/31/99			0.011				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.11				0.02	U
P-82	1/27/00			0.006				0.005	U			0.01	U			0.025	U			0.33				0.004				0.12				0.02	U
P-82	5/2/00			0.009	UJ			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.13				0.02	U

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-82	8/9/00			0.009				0.005	u			0.01	u			0.025	u			0.11				0.003	u			0.058				0.02	u
EP-82	11/9/00			0.008				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.11				0.02	u
EP-82	2/15/01			0.01				0.005	u			0.01	u			0.025	u			0.1				0.003	u			0.12				0.03	
EP-82	5/14/01			0.009				0.005	u			0.01	u			0.025	u			0.11	u			0.003	u			0.1				0.022	
EP-82	7/25/01	0.014		0.019		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u,j4	0.003	u	0.003	u	0.14		0.13		0.025		0.026	
EP-82	11/12/01	0.019		0.022		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.46		0.003	u	0.004		0.11		0.14		0.02	u	0.02	u
EP-82	2/15/02	0.012		0.01		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.12		0.12		0.02	u	0.027	
EP-82	5/7/02	0.017		0.019		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.18		0.003	u	0.003	u	0.13		0.13		0.02	u	0.02	u
EP-82	8/14/02	0.014		0.013		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.18		0.18		0.02	u	0.02	u
EP-82	11/11/02																																
EP-83	8/13/97	0.01				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.033				0.027			
EP-83	11/18/97	0.005	u,j1			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.037				0.02	u		
EP-83	2/6/98	0.006				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.044				0.02	u		
EP-83	5/13/98	0.01				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.054				0.02	u		
EP-83	8/19/98	0.006				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.044				0.026			
EP-83	11/12/98	0.008				0.009				0.01	u			0.025	u			0.1	u			0.003	u			0.038				0.14			
EP-83	2/22/99	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.039				0.035			
EP-83	2/22/99	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.04				0.033			
EP-83	5/11/99	0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.045				0.026			
EP-83	8/9/99	0.006		0.005		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	0.011	0.047		0.042	u	0.02		0.02	u
EP-83	10/30/99			0.007				0.005	u			0.01	u			0.025	u			1.8				0.003				0.044				0.02	u
EP-83	10/30/99			0.008				0.005	u			0.01	u			0.025	u			2				0.003				0.046				0.023	u
EP-83	1/27/00			0.006				0.005	u			0.01	u			0.025	u			0.25				0.003	u			0.036				0.02	u
EP-83	1/27/00			0.005				0.005	u			0.01	u			0.025	u			0.27				0.003				0.04				0.02	u
EP-83	5/1/00			0.008				0.005	u			0.01	u			0.025	u			0.37				0.005	u,j1			0.048				0.02	u,j2
EP-83	8/9/00			0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.042				0.02	u
EP-83	11/8/00			0.017				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.043				0.027	u,j1
EP-83	11/8/00			0.016				0.005	u			0.01	u			0.025	u			0.1	u			0.004				0.041				0.028	u,j1
EP-83	2/14/01			0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.039				0.053	
EP-83	5/11/01			0.01				0.005	u			0.01	u			0.025	u			0.33				0.003	u			0.041				0.027	u,j1
EP-83	7/24/01	0.014		0.014		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.25		0.005	u	0.012		0.04		0.041		0.02	u	0.02	u
EP-83	11/2/01	0.019		0.02		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.58		0.003	u	0.003	u	0.042		0.045		0.02	u	0.021	
EP-83	2/14/02	0.005	u,j4	0.005		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.015		0.04		0.04		0.02	u	0.055	
EP-83	5/8/02	0.013		0.015		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.66		0.003	u	0.005		0.044		0.039		0.02	u	0.02	u
EP-83	8/19/02	0.006		0.006		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.005	u	0.042		0.04		0.02	u	0.02	u
EP-83	11/11/02																																
EP-84	8/13/97	0.1				0.007				0.01	u			0.026				0.1	u			0.009				0.036				0.042			
EP-84	11/18/97	0.041	u,j1			0.007				0.01	u			0.025	u			0.1	u			0.01				0.031				0.035			
EP-84	2/6/98	0.035				0.007				0.01	u			0.037				0.1	u			0.018				0.023				0.048			
EP-84	5/13/98	0.034				0.006				0.01	u			0.025	u			0.1	u			0.006				0.029				0.052			
EP-84	8/13/98	0.03				0.006				0.01	u			0.025	u			0.1	u			0.027				0.024				0.046			
EP-84	11/12/98	0.031				0.009				0.01	u			0.025	u			0.1	u			0.016				0.021				0.046			
EP-84	2/22/99	0.022				0.008				0.01	u			0.025	u			0.1	u			0.013				0.021				0.046			
EP-84	5/11/99	0.024				0.006				0.01	u			0.025	u			0.1	u			0.013				0.024				0.044			
EP-84	8/9/99	0.097		0.095		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025		0.1	u	0.11		0.008		0.025	j4	0.019		0.017	u	0.025		0.02	u
EP-84	10/30/99			0.031				0.006				0.01	u			0.025	u			0.1	u			0.027				0.026				0.035	u
EP-84	1/27/00			0.029				0.007				0.01	u			0.046				0.5				0.087				0.023				0.047	
EP-84	5/1/00			0.04				0.005				0.01	u			0.025	u			0.1	u			0.017	u,j1			0.029				0.066	u,j2
EP-84	5/1/00			0.041				0.006				0.01	u			0.025	u			0.1	u			0.02	u,j1			0.029				0.067	u,j2
EP-84	8/9/00			0.036				0.013				0.01	u			0.025	u			0.1	u			0.026				0.018				0.081	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-84	8/9/00			0.035				0.013				0.01	u			0.025	u			0.1	u			0.02				0.019				0.008	
EP-84	11/8/00			0.079				0.01				0.01	u			0.054				0.42				0.067				0.011				0.062	uu
EP-84	2/14/01			0.025				0.005				0.01	u			0.025	u			0.1	u			0.029				0.016				0.059	
EP-84	5/11/01			0.043				0.008				0.01	u			0.025	u			0.1	u			0.02	uu			0.019				0.071	uu
EP-84	5/11/01			0.041				0.008				0.01	u			0.025	u			0.1	u			0.019	uu			0.019				0.072	uu
EP-84	7/24/01	0.026		0.027		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.013		0.019		0.02		0.02		0.031		0.04	
EP-84	11/2/01	0.031		0.031		0.005		0.005		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.014		0.022		0.021		0.025		0.03		0.034	
EP-84	2/14/02	0.026	u	0.023		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.012		0.022		0.023	u	0.025	u	0.021		0.026	
EP-84	2/14/02	0.02	u	0.021		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.012		0.022		0.018	u	0.018	u	0.021		0.026	
EP-84	5/8/02	0.026		0.026		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.012		0.027		0.022		0.02		0.02	u	0.026	
EP-84	8/19/02	0.025		0.027		0.005		0.005		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.013		0.019		0.021		0.023		0.022		0.02	u
EP-84	8/19/02	0.025		0.028		0.005		0.005		0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.014		0.02		0.022		0.024		0.02		0.02	u
EP-84	11/11/02																																
EP-85	8/13/97	3.1				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.22				0.02	u		
EP-85	11/17/97	3.2				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.19				0.02	u		
EP-85	2/5/98	2.9				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.15				0.02	u		
EP-85	5/14/98	2.8				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.16				0.025			
EP-85	8/19/98	2.7				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.16				0.019			
EP-85	8/19/98	2.7				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.16				0.032			
EP-85	11/11/98	3.1				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.24				0.033			
EP-85	2/18/99	2.5				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.16				0.029			
EP-85	2/18/99	2.6				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.16				0.044			
EP-85	5/11/99	2.9				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.17				0.02	u		
EP-85	8/9/99	2.8		2.6		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.015	u	0.2		0.18	u	0.02		0.02	u
EP-85	8/9/99	2.8		2.6		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.004	u	0.2		0.16	u	0.02	u	0.023	
EP-85	10/27/99			2.4				0.005	u			0.01	u			0.025	u			0.1	u			0.004	uu			0.18	u			0.02	u
EP-85	10/27/99			2.5				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.19	u			0.02	u
EP-85	1/28/00			2.3				0.005	u			0.01	u			0.025	u			0.1	u			0.003				0.15				0.02	u
EP-85	5/2/00			2.2				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.14				0.021	
EP-85	5/2/00			2.2				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.14				0.02	u
EP-85	8/9/00			2.6				0.005	u			0.01	u			0.025	u			0.44				0.006				0.18				0.02	u
EP-85	11/9/00			2.2				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.17				0.02	u
EP-85	11/9/00			2.2				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.17				0.02	u
EP-85	2/16/01			2.3				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.15				0.039	uu
EP-85	2/16/01			2.3				0.005	u			0.01	u			0.025	u			0.11				0.004				0.16				0.051	uu
EP-85	5/14/01			2.1				0.005	u			0.01	u			0.025	u			0.12	u			0.004				0.13				0.02	u
EP-85	7/25/01	2.1		2.2		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.13		0.14	u	0.02	u	0.02	u,uu
EP-85	11/13/01	2.4		2.5		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.073		0.083		0.02	u	0.02	u
EP-85	2/19/02	1.5		1.5		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.12		0.11		0.02	u	0.02	u
EP-85	2/19/02	1.5		1.5		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.12		0.11		0.02	u	0.02	u
EP-85	5/10/02	1.7		1.7		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.15		0.12		0.051		0.075	
EP-85	5/10/02	1.8		1.8		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.15		0.12		0.072		0.075	
EP-85	8/15/02	1.9		2		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.19		0.19		0.02	u	0.02	u
EP-85	8/15/02	1.9		1.9		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.003	u	0.19		0.19		0.02	u	0.02	u
EP-85	11/13/02	1.8		1.8		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.1	u	0.003	u	0.001	u	0.24		0.25		0.02	u	0.02	u
EP-86	8/13/97	0.011				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.043				0.02	u		
EP-86	11/18/97	0.007	uu			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.038				0.02	u		
EP-86	2/5/98	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.029				0.02	u		
EP-86	5/14/98	0.008				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.041				0.02			
EP-86	8/19/98	0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.038				0.025			

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-86	11/12/98	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.001	U			0.031				0.018			
EP-86	11/12/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.001	U			0.027				0.019			
EP-86	2/18/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.02				0.049			
EP-86	5/11/99	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.031				0.025			
EP-86	8/9/99	0.008		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.41		0.003	U	0.004	J4	0.034		0.03	J4	0.02	U	0.02	U
EP-86	10/31/99			0.005	U			0.005	U			0.01	U			0.025	U			0.17				0.003	U			0.033				0.02	U
EP-86	10/31/99			0.005	U			0.005	U			0.01	U			0.025	U			0.16				0.003	U			0.034				0.02	U
EP-86	1/27/00			0.005				0.005	U			0.01	U			0.025	U			0.66				0.006				0.031				0.02	U
EP-86	5/2/00			0.008	UJ1			0.005	U			0.01	U			0.025	U			0.22				0.005				0.03				0.02	U
EP-86	8/9/00			0.005	U			0.005	U			0.01	U			0.025	U			0.21				0.003	U			0.028				0.02	U
EP-86	11/9/00			0.007				0.005	U			0.01	U			0.025	U			0.2				0.003	U			0.027				0.02	U
EP-86	2/15/01			0.009				0.005	U			0.01	U			0.025	U			0.21				0.003	U			0.029				0.027	
EP-86	2/15/01			0.01				0.005	U			0.01	U			0.025	U			0.23				0.003	U			0.029				0.047	
EP-86	5/14/01			0.006				0.005	U			0.01	U			0.025	U			0.7	J4			0.004				0.027				0.02	U
EP-86	7/25/01	0.013		0.011		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.2		0.003	U	0.003	U	0.031		0.032	J4	0.02	U	0.023	J4
EP-86	7/25/01	0.014		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.17		0.003	U	0.003	U	0.031		0.033	J4	0.02	U	0.02	UJ1
EP-86	11/13/01	0.022		0.029		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.19		0.003	U	0.003	U	0.029		0.036		0.02	U	0.02	U
EP-86	11/13/01	0.019		0.027		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.21		0.003	U	0.003	U	0.026		0.037		0.02	U	0.02	U
EP-86	2/15/02	0.007		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.14		0.003	U	0.004		0.03		0.032		0.02	U	0.02	U
EP-86	5/7/02	0.021		0.019		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.26		0.003	U	0.005		0.031		0.025		0.02	U	0.02	U
EP-86	8/14/02	0.013		0.013		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.03		0.012		0.02	U	0.02	U
EP-86	8/14/02	0.012		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.029		0.03		0.02	U	0.02	U
EP-86	11/11/02																																
EP-87	9/15/97	0.054				0.005	U			0.016				0.033				0.1	U			0.006				0.005	U			0.03			
EP-87	11/18/97	0.033	UJ1			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
EP-87	8/10/99	0.029		0.027		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3	J4	0.003	U	0.007		0.005	U	0.005	U	0.032	UJ1	0.02	U
EP-88	8/12/97	0.02				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.004				0.025			
EP-88	11/11/97	0.017				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.029				0.026			
EP-88	2/12/98	0.017	J4			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.011				0.031			
EP-88	5/11/98	0.032				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.029				0.027			
EP-88	8/17/98	0.027				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.024				0.016			
EP-88	11/11/98	0.016				0.012				0.01	U			0.025	U			0.1	U			0.003	U			0.055				0.17			
EP-88	2/11/99	0.028				0.008				0.01	U			0.025	U			0.1	U			0.003	U			0.018				0.072			
EP-88	5/7/99	0.017				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.032				0.037	J4		
EP-88	8/5/99	0.021		0.024		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.7		0.003	U	0.01		0.038		0.035		0.025		0.002	
EP-88	10/30/99			0.022				0.005	U			0.01	U			0.025	U			0.51				0.003	U			0.055				0.021	U
EP-88	1/26/00			0.012				0.005	U			0.01	U			0.025	U			0.69				0.004				0.06				0.022	
EP-88	1/26/00			0.013				0.005	U			0.01	U			0.025	U			0.75				0.004				0.057				0.021	
EP-88	4/28/00			0.053				0.004				0.01	U			0.025	U			1.5	J4			0.012				0.040				0.006	U
EP-88	8/4/00			0.027				0.005	U			0.01	U			0.025	U			0.1				0				0.041				0.02	U
EP-88	11/7/00			0.025				0.005	U			0.01	UJ14			0.025	U			0.16	J4			0.004				0.045				0.024	
EP-88	2/14/01			0.021				0.005	U			0.01	U			0.025	U			0.91				0.004				0.067				0.036	
EP-88	5/9/01			0.028				0.005	U			0.01	U			0.025	U			0.21				0.003	U			0.047				0.067	
EP-88	7/19/01	0.025		0.024		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.95		0.003	U	0.004	J4	0.04		0.087		0.02	U	0.026	J4
EP-88	11/1/01	0.042		0.041		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.71		0.003	U	0.008		0.057		0.054		0.057		0.054	
EP-88	2/11/02	0.041		0.043		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.22		0.003	U	0.003	U	0.06		0.064		0.02	U	0.02	U
EP-88	5/2/02	0.047		0.048		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.62		0.003	U	0.006		0.055		0.057		0.02	U	0.02	U
EP-88	8/9/02	0.041		0.057		0.005	U	0.005		0.01	U	0.017		0.025	U	0.031		0.1	U	3.4		0.003	U	0.026		0.064		0.087		0.02	U	0.057	
EP-88	11/14/02																																
EP-89	8/12/97	0.01				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.026				0.02			

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-89	11/13/97	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.018				0.02	U		
EP-89	2/11/98	0.005	U,UJ4			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.013				0.02	U		
EP-89	5/13/98	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.026				0.02	U		
EP-89	8/13/98	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.028				0.038			
EP-89	11/10/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.015				0.046			
EP-89	2/10/99	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.023				0.037			
EP-89	5/7/99	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.016				0.022	J4		
EP-89	8/5/99	0.009		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.005		0.02		0.024		0.026		0.029	
EP-89	8/5/99	0.009		0.011		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.004		0.019		0.024		0.022		0.025	
EP-89	10/28/99			0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.016	J2			0.02	U
EP-89	10/28/99			0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.004				0.016	J2			0.02	U
EP-89	1/24/00			0.007				0.005	U			0.01	U			0.025	U			0.12				0.015	UJ1			0.019	UJ1			0.02	U
EP-89	4/25/00			0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.004				0.018				0.041	
EP-89	4/25/00			0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.005				0.017				0.023	
EP-89	8/2/00			0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.019				0.017				0.02	U
EP-89	10/31/00			0.005	U			0.005	U			0.01	U			0.025	U			0.16	J4			0.006				0.019				0.038	UJ1,J4
EP-89	10/31/00			0.007				0.005	U			0.01	U			0.025	U			0.11	J4			0.007				0.024				0.049	UJ1,J4
EP-89	2/8/01			0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.005				0.018				0.046	UJ1
EP-89	5/7/01			0.005				0.005	U			0.01	U			0.025	U			0.14				0.003				0.017				0.04	
EP-89	5/7/01			0.005				0.005	U			0.01	U			0.025	U			0.11				0.003	U			0.016				0.038	
EP-89	7/17/01	0.012		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.016		0.017		0.02	U	0.023	
EP-89	10/30/01	0.01		0.011		0.005	U,UJ3	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.17		0.003	U	0.009	J4	0.02		0.017	J1	0.02	UJ1,J4	0.026	
EP-89	2/7/02	0.008		0.008		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003		0.017		0.024		0.02	U	0.02	J4
EP-89	4/30/02	0.01		0.01		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.004		0.012		0.017		0.017		0.02	U	0.02	U
EP-89	4/30/02	0.011		0.01		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.12		0.004		0.005		0.018		0.018		0.02	U	0.02	U
EP-89	8/6/02	0.007		0.008		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.019		0.022		0.02	U	0.025	
EP-89	11/11/02																																
EP-9	5/7/98	0.39				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.17				0.022			
EP-90	12/12/97	0.15				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.69				0.19			
EP-90	2/17/98	0.18				0.005	U			0.01	U			0.025	U			0.1	U,UJ4			0.003	U			0.75				0.02	UJ4		
EP-90	5/13/98	0.17				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.86				0.027			
EP-90	8/17/98	0.21				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.51				0.04			
EP-90	11/5/98	0.17	J4			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.61				0.054			
EP-90	2/11/99	0.15				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.42				0.02	U		
EP-90	5/10/99	0.13				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.86				0.038	J4		
EP-90	8/5/99	0.16		0.17		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.048		0.1	U	1.4		0.003	U	0.019		1.1		1		0.025		0.054	
EP-90	10/30/99			0.14				0.005	U			0.01	U			0.025	U			0.22				0.003	U			1.1				0.02	U
EP-90	1/24/00			0.12				0.005	U			0.01	U			0.025	U			2				0.011	UJ1			1.2				0.02	U
EP-90	4/26/00			0.12				0.006				0.01	U			0.025	U			3.2				0.005				1.2				0.028	
EP-90	8/4/00			0.13				0.01				0.01	U			0.025	U			1.6				0.003				1.2				0.02	U
EP-90	11/3/00			0.14				0.008				0.01	U			0.025	U			0.97				0.003	U			1.5				0.027	UJ1
EP-90	11/3/00			0.14				0.008				0.01	U			0.025	U			0.98				0.003	U			1.5				0.025	UJ1
EP-90	2/12/01			0.14				0.005	U			0.01	U			0.025	U			1.4				0.006				1.4				0.018	
EP-90	5/8/01			0.14				0.016				0.01	U			0.025	U			5.4				0.004				1.2	J1			0.068	
EP-90	7/19/01	0.14		0.15		0.01		0.011		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	6.2		0.003	U	0.014	J1	1.1		1.1		0.023		0.037	
EP-90	7/19/01	0.14		0.14		0.01		0.011		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	5.7		0.003	U	0.003	UJ1,J4	1.1		1.1		0.02		0.035	
EP-90	11/1/01	0.15		0.15		0.007		0.009		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	4.4		0.003	U	0.004		0.71		0.69		0.02		0.03	
EP-90	2/8/02	0.17		0.17		0.032		0.042	J4	0.01	U	0.033	J4	0.025	U	0.025	U	0.1	U	4.6	J4	0.003	U	0.004		0.47		0.52	J4	0.02	U	0.025	
EP-90	2/8/02	0.17		0.17		0.032		0.033	J4	0.01	U	0.01	U,UJ4	0.025	U	0.025	U	0.1	U	2.5	J4	0.003	U	0.004		0.47		0.52	J4	0.02	U	0.027	
EP-90	5/1/02	0.15		0.15		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.3		0.003	U	0.008		0.46		0.37		0.02	U	0.029	

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-90	8/7/02	0.16		0.16		0.013		0.013		0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.6		0.003	U	0.003	U	0.51		0.56		0.02	U	0.035	
EP-90	11/11/02																																
EP-93	10/13/99			0.005				0.005	U			0.01	U			0.025	U			11				0.008				0.017				0.053	
EP-93	1/27/00			0.031				0.005	U			0.14				0.044				61				0.033				0.044				0.1	
EP-93	5/1/00			0.017				0.005	U			0.013				0.025	U			3.1				0.006	UJ			0.037				0.048	UJ,UJ
EP-93	8/9/00			0.01				0.005	U			0.016				0.025	U			9.3				0.009				0.029				0.041	
EP-93	11/8/00			0.022				0.005	U			0.026				0.025	U			5.2				0.006				0.031				0.038	UJ
EP-93	2/14/01			0.015				0.005	U			0.01	U			0.025	U			3.9				0.005				0.041				0.072	
EP-93	5/11/01			0.019				0.005	U			0.01	U			0.025	U			5.1				0.005	UJ			0.034				0.063	UJ
EP-93	7/24/01	0.033		0.03		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	4.3		0.003	U	0.012		0.04		0.038		0.029		0.044	
EP-93	11/2/01	0.051		0.045		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.8		0.003	U	0.003	U	0.039		0.041		0.0244		0.03	
EP-93	2/15/02	0.013		0.016		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.3		0.003	U	0.003		0.04		0.045		0.024	U	0.027	
EP-93	5/8/02	0.028		0.029		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.47		0.003	U	0.006		0.048		0.044		0.02	U	0.02	U
EP-93	8/19/02	0.008		0.009		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.5		0.003	U	0.003	U	0.036		0.038		0.02	U	0.02	U
EP-93	11/11/02																																
EP-94	10/13/99			0.007				0.005	U			0.01	U			0.025	U			2.2				0.008				0.027				0.075	
EP-94	1/27/00			0.014				0.005	U			0.01	U			0.025	U			0.5				0.007				0.021				0.028	
EP-94	5/1/00			0.014				0.005	U			0.01	U			0.025	U			0.21				0.026				0.035				0.014	UJ,UJ
EP-94	8/9/00			0.009				0.005	U			0.01	U			0.025	U			0.11				0.005	U			0.026				0.028	
EP-94	11/8/00			0.015				0.005	U			0.01	U			0.025	U			0.18				0.003				0.025				0.033	UJ
EP-94	2/14/01			0.013				0.005	U			0.01	U			0.025	U			0.19				0.003	U			0.029				0.048	
EP-94	5/11/01			0.016				0.005	U			0.01	U			0.025	U			0.25				0.005				0.026				0.054	UJ
EP-94	7/24/01	0.015		0.015		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.2		0.003	U	0.003	U	0.029		0.03		0.021		0.026	
EP-94	11/2/01	0.024		0.026		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.029		0.029		0.025		0.027	
EP-94	2/15/02	0.013		0.014		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.03		0.034		0.02	U	0.022	
EP-94	2/15/02	0.013		0.013		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.031		0.031		0.02	U	0.02	U
EP-94	5/8/02	0.015		0.016		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.14		0.003	U	0.007		0.031		0.029		0.02	U	0.02	U
EP-94	8/19/02	0.007		0.008		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.026		0.029		0.02	U	0.02	U
EP-94	11/11/02																																
EP-95	10/26/99			0.006	J			0.005	U			0.01	0.034			0.025	U			1.2	0.34			0.003	U			0.022	0.24			0.02	U
EP-95	1/27/00			0.009				0.005	U			0.01	U			0.025	U			0.13				0.003	U			0.031				0.02	U
EP-95	5/1/00			0.014				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.035				0.03	UJ,U
EP-95	8/9/00			0.011				0.005	U			0.01	U			0.025	U			0.14				0.003	U			0.027				0.02	U
EP-95	11/8/00			0.015				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.029				0.02	U
EP-95	2/14/01			0.015				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.028				0.031	
EP-95	5/11/01			0.013				0.005	U			0.01	U			0.025	U			0.14				0.003	U			0.026				0.02	U
EP-95	7/24/01	0.017		0.017		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.029		0.03		0.02	U	0.02	U
EP-95	7/24/01	0.017		0.018		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.004		0.029		0.03		0.02	U	0.02	U
EP-95	11/2/01	0.018		0.021		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.029		0.028		0.02	U	0.02	U
EP-95	11/2/01	0.018		0.021		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.03		0.028		0.02	U	0.02	U
EP-95	2/14/02	0.009	J	0.011		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.026	J	0.026	J	0.02	U	0.05	
EP-95	5/8/02	0.017		0.017		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.029		0.028		0.02	U	0.02	U
EP-95	5/8/02	0.017		0.017		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.029		0.028		0.02	U	0.02	U
EP-95	8/19/02	0.011		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.029		0.032		0.02	U	0.02	U
EP-95	11/11/02																																
EP-96	10/13/99			0.005				0.005	U			0.01	U			0.025	U			12				0.017				0.019				0.053	
EP-96	1/27/00			0.007				0.005	U			0.021				0.025	U			3.6				0.01				0.015				0.042	
EP-96	5/1/00			0.012				0.005	U			0.011				0.025	U			7.4				0.014	UJ			0.019				0.056	UJ,U
EP-96	8/9/00			0.008				0.005	U			0.01	U			0.025	U			4.2				0.007				0.017				0.034	
EP-96	11/8/00			0.019				0.005	U			0.01	U			0.025	U			3.2				0.005				0.015				0.032	UJ

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
EP-96	2/14/01			0.014				0.005	U			0.01	U			0.025	U			1.1				0.003	U			0.025				0.095	
EP-96	5/11/01			0.023				0.003	U			0.01	U			0.025	U			1.1				0.006	UJ			0.024				0.078	UJ
EP-96	7/24/01	0.044		0.039		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.4		0.003	U	0.007		0.027		0.025		0.02	U	0.03	
EP-96	11/2/01	0.031		0.027		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.91		0.003	U	0.003	U	0.026		0.028		0.028		0.026	
EP-96	2/15/02	0.011		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.47		0.003	U	0.005		0.024		0.029		0.02	U	0.02	
EP-96	5/8/02	0.022		0.022		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.28		0.003	U	0.003	U	0.026		0.025		0.02	U	0.02	U
EP-96	8/19/02	0.009		0.009		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.36		0.003	U	0.003	U	0.025		0.026		0.02	U	0.02	U
EP-97	10/18/99			0.16				0.019				0.01	U			0.23				8.3				0.085				0.02				0.16	
EP-97	1/27/00			0.14				0.013				0.01	U			0.19				4.7				0.13				0.008				0.16	
EP-97	5/1/00			0.11				0.008				0.01	U			0.11				1.4				0.054				0.015				0.11	UJ
EP-97	8/9/00			0.15				0.009				0.01	U			0.19				0.45				0.024				0.009				0.095	
EP-97	11/8/00			0.16				0.008				0.01	U			0.34				5.3				0.15				0.005	U			0.13	UJ
EP-97	2/14/01			0.12				0.012				0.01	U			0.22				4.3				0.18				0.006				0.21	
EP-97	5/14/01			0.2				0.023				0.015				0.32				22				0.69				0.005	U			0.31	
EP-97	7/24/01	0.14		0.15		0.011		0.012		0.01	U	0.01	U	0.29		0.32		0.1	U	0.51		0.017		0.035		0.093		0.096		0.11		0.14	
EP-97	11/2/01	0.17		0.16		0.011		0.012		0.01	U	0.01	U	0.2		0.27		0.1	U	2.3		0.02		0.077		0.011		0.015		0.098		0.14	
EP-97	2/14/02	0.12		0.12		0.005	U	0.005		0.01	U	0.01	U	0.1		0.13		0.1	U	0.48		0.012		0.038		0.005	U	0.005	UJ	0.054		0.062	
EP-97	5/8/02	0.13		0.13		0.005		0.005		0.01	U	0.01	U	0.078		0.096		0.1	U	1.1		0.009		0.044		0.01		0.013		0.032		0.056	
EP-97	8/19/02	0.23		0.23		0.01		0.011		0.01	U	0.01	U	0.088		0.18		0.14		2		0.03		0.072		0.013		0.016		0.089		0.1	
EP-97	11/11/02																																
EP-98	10/18/99			0.018				0.005	U			0.01	U			0.035				11				0.026				0.36				0.044	
EP-98	1/27/00			0.027				0.005	U			0.01	U			0.044				3.9				0.027				0.65				0.048	
EP-98	5/1/00			0.037				0.005	U			0.01	U			0.029				0.43				0.003	UJ			0.97				0.041	UJ
EP-98	8/9/00			0.021				0.005	U			0.01	U			0.025	U			0.3				0.004				0.46				0.032	
EP-98	11/8/00			0.027				0.005	U			0.01	U			0.025	U			0.13				0.003	U			0.28				0.026	UJ
EP-98	2/14/01			0.022				0.005	U			0.01	U			0.025	U			0.29				0.006				0.47				0.07	
EP-98	5/14/01			0.031				0.005	U			0.01	U			0.031				0.61	J			0.01				0.09				0.066	
EP-98	5/14/01			0.032				0.005	U			0.01	U			0.032				0.38	J			0.008				0.09				0.073	
EP-98	7/24/01	0.037		0.037		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.006		0.5		0.5		0.023		0.023	
EP-98	11/2/01	0.038		0.041		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.027		0.1	U	0.13		0.003	U	0.003	U	0.28		0.26		0.026		0.026	
EP-98	2/14/02	0.02	J	0.023		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.1	U	0.003	U	0.003	U	0.39		0.2	J	0.021		0.021	
EP-98	5/8/02	0.044		0.038		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025		0.1	U	0.47		0.003	U	0.01		0.4		0.34		0.02	U	0.03	
EP-98	8/19/02	0.017		0.016		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.37		0.003	U	0.006		0.34		0.36		0.02	U	0.02	U
EP-98	11/11/02																																
EP-99	10/18/99			5.4				0.005	U			0.01	U			0.042				13				0.15				0.99				0.29	
EP-99	8/9/00			6.5				0.005	U			0.01	U			0.058				2.2				0.036				1.1				0.095	
EP-99	11/8/00			3.7				0.005	U			0.01	U			0.032				0.83				0.011				1.2				0.062	UJ
EP-99	2/22/01			6.5				0.007				0.016				0.36				22				0.3				1.1				0.73	
EP-99	5/9/01																																
EP-99	7/26/01																																
EP-99	11/5/01																																
EP-99	2/13/02																																
EP-99	5/10/02																																
EP-99	8/14/02																																
SEP-1	8/15/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-1	11/10/97	0.82				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.16				0.02	U		
SEP-1	2/13/98	0.62				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.12				0.02	U		
SEP-1	5/20/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.004	U			0.005	U			0.02	U		
SEP-1	8/11/98	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-1	2/19/99	0.008				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.025			

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
SEP-1	5/12/99	0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-1	8/20/99	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-1	11/1/99			0.007				0.005	u			0.01	u			0.025	u			0.2				0.005				0.005	u			0.067	[illegible]
SEP-1	1/31/00			0.005	u			0.005	u			0.01	u			0.025	u			1.1				0.003	u			0.005	u			0.02	u
SEP-1	5/9/00			0.007				0.005	u			0.01	u			0.025	u			1.7				0.007				0.005	u			0.03	[illegible]
SEP-1	8/14/00			0.005	u			0.005	u			0.01	u			0.025	u			5.9				0.006				0.005	u			0.034	
SEP-1	8/14/00			0.005	u			0.005	u			0.01	u			0.025	u			5.6				0.005				0.005	u			0.024	
SEP-1	11/10/00			0.005	u			0.005	u			0.01	u			0.025	u			7.7				0.014				0.005	u			0.035	
SEP-1	2/23/01			0.005	u			0.005	u			0.01	u			0.025	u			1.6				0.003	u			0.005	u			0.033	[illegible]
SEP-1	5/16/01			0.005	u			0.005	u			0.01	u			0.025	u			3	u			0.003	u			0.005	u			0.02	u
SEP-1	7/31/01	0.005	u	0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	2.4		0.003	u	0.004		0.005	u	0.005	u	0.02	[illegible]	0.024	u
SEP-1	7/31/01	0.005	u	0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	2.4		0.003	u	0.004		0.005	u	0.005	u	0.02	[illegible]	0.028	u
SEP-1	11/16/01	0.005		0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.66		0.003	u	0.003	u	0.005	u	0.005	u	0.02	u	0.02	u
SEP-1	2/22/02	0.008		0.008		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.38		0.003	u	0.004		0.005	u	0.005	u	0.02	u	0.02	u
SEP-1	5/13/02	0.005	u	0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	1.7		0.003	u	0.003		0.005	u	0.005	u	0.02	u	0.02	u
SEP-1	5/13/02	0.005	u	0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	1.8		0.003	u	0.003	u	0.005	u	0.005	u	0.02	u	0.02	u
SEP-1	8/21/02	0.005		0.006		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	3.3		0.003	u	0.003	u	0.005	u	0.005		0.02	u	0.025	
SEP-1	11/13/02	0.005	u	0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.26		0.003	u	0.003	u	0.005	u	0.005	u	0.02	u	0.02	u
SEP-10	8/15/97	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	8/15/97	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	11/19/97	0.007				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	2/13/98	0.006				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	5/19/98	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	5/19/98	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	8/18/98	0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	11/18/98	0.007				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	2/19/99	0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	5/13/99	0.005				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	8/20/99	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-10	11/1/99			0.013				0.005	u			0.01	u			0.025	u			0.59				0.008				0.005	u			0.045	[illegible]
SEP-10	2/14/00			0.012				0.005	u			0.01	u			0.025	u			0.79	u			0.003	u			0.005				0.02	u
SEP-10	5/10/00			0.009				0.005	u			0.01	u			0.025	u			1.4				0.005				0.005	u			0.026	[illegible]
SEP-10	5/10/00			0.01				0.005	u			0.01	u			0.025	u			1.2				0.006				0.005	u			0.03	[illegible]
SEP-10	8/21/00			0.005	u			0.005	u			0.01	u			0.025	u			8.1				0.008				0.005	u			0.039	[illegible]
SEP-10	11/15/00			0.019				0.005	u			0.01	u			0.025	u			0.74				0.003	u			0.008				0.039	
SEP-10	2/28/01			0.005				0.005	u			0.01	u			0.025	u			2.9				0.003				0.005	u			0.023	
SEP-10	5/17/01			0.005	u			0.005	u			0.01	u			0.025	u			1.7				0.003	u			0.005	u			0.02	u
SEP-10	7/31/01	0.005	u	0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	2.7		0.003	u	0.005		0.005	u	0.005	u	0.02	u	0.02	u
SEP-10	11/16/01	0.007		0.006		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.52		0.003	u	0.003	u	0.005	u	0.005	u	0.02	u	0.02	u
SEP-10	2/22/02	0.01		0.011		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.45		0.003	u	0.003	u	0.005	u	0.005	u	0.02	u	0.025	
SEP-10	5/14/02	0.005	u	0.005	u	0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	1.5		0.003	u	0.003	u	0.005	u	0.005	u	0.02	u	0.02	u
SEP-10	8/22/02	0.006		0.007		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	3.2		0.003	u	0.003		0.005	u	0.006		0.02	u	0.023	
SEP-10	12/16/02	0.009		0.01		0.005	u	0.005	u	0.01	u	0.01	u	0.025	u	0.025	u	0.1	u	0.55		0.003	u	0.003	u	0.005	u	0.005	u	0.02	u	0.02	u
SEP-11	8/15/97	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-11	11/10/97	0.009				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.021			
SEP-11	2/13/98	0.006				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02			
SEP-11	5/19/98	0.005	u			0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-11	8/18/98	0.006				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-11	11/18/98	0.007				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		
SEP-11	11/18/98	0.007				0.005	u			0.01	u			0.025	u			0.1	u			0.003	u			0.005	u			0.02	u		

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
SEP-11	2/19/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02			
SEP-11	5/13/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-11	5/13/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-11	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-11	11/2/99			0.01				0.005	U			0.01	U			0.025	U			0.73	J1			0.005				0.005	U			0.02	U
SEP-11	2/14/00			0.014				0.005	U			0.01	U			0.025	U			0.47	J4			0.013				0.005				0.029	
SEP-11	5/10/00			0.008				0.005	U			0.01	U			0.025	U			1.4				0.003				0.005	U			0.024	U/J2
SEP-11	8/21/00			0.005	U			0.005	U			0.01	U			0.025	U			8.2				0.009				0.005	U			0.039	[illegible]
SEP-11	11/15/00			0.013				0.005	U			0.01	U			0.025	U			0.67				0.003	U			0.007				0.035	
SEP-11	11/15/00			0.013				0.005	U			0.01	U			0.025	U			0.66				0.003	U			0.007				0.04	
SEP-11	2/28/01			0.005				0.005	U			0.01	U			0.025	U			2.9				0.004				0.005	U			0.023	
SEP-11	5/17/01			0.005	U			0.005	U			0.01	U			0.025	U			2.1				0.003	U			0.005	U			0.02	U
SEP-11	7/31/01	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3		0.003	U	0.005		0.005	U	0.005	U	0.02	U	0.023	
SEP-11	11/16/01	0.015		0.009		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.43		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-11	2/22/02	0.009		0.01		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.56		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.031	
SEP-11	5/14/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.6		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-11	8/22/02	0.007		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.4		0.003	U	0.004		0.005	U	0.005	U	0.02	U	0.028	
SEP-11	12/16/02	0.008		0.008		0.005	U	0.005	U	0.01	U	0.013		0.025	U	0.025	U	0.1	U	0.15		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-12	8/15/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	11/10/97	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	2/13/98	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	5/19/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	8/20/98	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	11/18/98	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	2/19/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	5/13/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-12	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.18	J4			0.003	U			0.005	U			0.02			
SEP-12	11/1/99			0.019				0.005	U			0.01	U			0.025	U			0.54				0.005				0.005	U			0.061	J2
SEP-12	11/1/99			0.019				0.005	U			0.01	U			0.025	U			0.44				0.006				0.006				0.026	J2
SEP-12	2/14/00			0.013				0.005	U			0.01	U			0.025	U			0.66	J4			0.003	U			0.005				0.02	U
SEP-12	5/10/00			0.008				0.005	U			0.01	U			0.025	U			1.2				0.004				0.005	U			0.027	U/J2
SEP-12	8/21/00			0.005	U			0.005	U			0.01	U			0.025	U			10				0.013				0.005	U			0.04	[illegible]
SEP-12	11/15/00			0.014				0.005	U			0.01	U			0.025	U			0.84				0.004				0.005	U			0.034	
SEP-12	2/28/01			0.007				0.005	U			0.01	U			0.025	U			2.5				0.003				0.005	U			0.02	U
SEP-12	5/17/01			0.005				0.005	U			0.01	U			0.025	U			1.9				0.003	U			0.005	U			0.02	U
SEP-12	8/1/01	0.005		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.1		0.003	U	0.004		0.005	U	0.005	U	0.02	U	0.026	
SEP-12	11/16/01	0.008		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.28		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-12	2/22/02	0.011		0.011		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.56		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-12	5/14/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.2		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-12	8/22/02	0.007		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.3		0.003	U	0.003		0.005	U	0.007		0.02	U	0.026	
SEP-12	12/16/02	0.018		0.02		0.005	U	0.005	U	0.01	U	0.016		0.025	U	0.025	U	0.1	U	0.3		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-13	8/15/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	11/10/97	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	2/13/98	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	5/19/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	8/20/98	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	8/20/98	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	11/18/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	2/19/99	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	5/13/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
SEP-13	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-13	11/1/99			0.02				0.005	U			0.01	U			0.025	U			0.53				0.006				0.006				0.079	J,B
SEP-13	2/14/00			0.014				0.005	U			0.01	U			0.025	U			0.46	J4			0.003				0.005				0.02	U
SEP-13	2/14/00			0.013				0.005	U			0.01	U			0.025	U			0.6	J4			0.003	U			0.005				0.02	U
SEP-13	5/10/00			0.008				0.005	U			0.01	U			0.025	U			1.2				0.003	U			0.005	U			0.023	UB,B
SEP-13	8/21/00			0.005	U			0.005	U			0.01	U			0.025	U			9.7				0.008				0.005	U			0.04	UB
SEP-13	8/21/00			0.005	U			0.005	U			0.01	U			0.025	U			9.6				0.007				0.005	U			0.036	UB
SEP-13	11/15/00			0.015				0.005	U			0.01	U			0.025	U			1.3				0.009				0.005				0.043	
SEP-13	2/28/01			0.008				0.005	U			0.01	U			0.025	U			2				0.003	U			0.005	U			0.02	U
SEP-13	2/28/01			0.008				0.005	U			0.01	U			0.025	U			2				0.003	U			0.005	U			0.02	U
SEP-13	5/17/01			0.005				0.005	U			0.01	U			0.025	U			1.7				0.003	U			0.005	U			0.02	U
SEP-13	8/1/01	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.1		0.003	U	0.005		0.005	U	0.005	U	0.02	U	0.022	
SEP-13	11/16/01	0.009		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.25		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-13	2/22/02	0.011		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.46		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-13	5/14/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.4		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-13	8/22/02	0.008		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.2		0.003	U	0.004		0.005	U	0.005		0.02	U	0.023	
SEP-13	12/16/02	0.022		0.024		0.005	U	0.005	U	0.025		0.01	U	0.025	U	0.025	U	0.1	U	0.42		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-14	11/12/98	0.057				0.005	U			0.01	U			0.04				0.1	U			0.004				0.005	U			0.02	U		
SEP-14	8/11/99	0.045				0.005	U			0.01	U			0.065				0.14				0.011				0.005	U			0.025	UB		
SEP-14	8/21/00			0.058				0.005	U			0.01	U			0.25				3.3				0.073				0.006				0.14	
SEP-14	11/14/00			0.038				0.005	U			0.01	U			0.39				2.8				0.087				0.005	U			0.23	
SEP-14	11/14/00			0.035				0.005	U			0.01	U			0.32				2.3				0.076				0.005	U			0.19	
SEP-14	6/27/01			0.094				0.005				0.01	U			1.2				9.1				0.37				0.005	U			1.3	
SEP-14	6/27/01			0.096				0.005				0.01	U			1.2				9.8				0.38				0.005	U			1.3	
SEP-2	8/15/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	11/10/97	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	2/13/98	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	5/19/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	8/18/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	11/18/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	2/19/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.026			
SEP-2	2/19/99	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	5/13/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-2	11/1/99			0.024				0.005	U			0.01	U			0.025	U			0.74				0.012				0.008				0.056	J,B
SEP-2	2/14/00			0.013				0.005	U			0.01	U			0.025	U			0.48	J4			0.003	U			0.005				0.02	U
SEP-2	5/10/00			0.007				0.005	U			0.01	U			0.025	U			1.2				0.007				0.005	U			0.028	UB,B
SEP-2	8/21/00			0.005				0.005	U			0.01	U			0.025	U			9				0.019				0.005	U			0.03	UB
SEP-2	11/15/00			0.014				0.005	U			0.01	U			0.025	U			1.4				0.004				0.006				0.043	
SEP-2	2/28/01			0.007				0.005	U			0.01	U			0.025	U			2.8				0.003				0.005	U			0.023	
SEP-2	5/17/01			0.005				0.005	U			0.01	U			0.025	U			2.1				0.003	U			0.005	U			0.026	
SEP-2	5/17/01			0.005				0.005	U			0.01	U			0.025	U			2.1				0.003				0.005	U			0.02	U
SEP-2	7/31/01	0.005		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.9		0.003	U	0.009		0.005	U	0.005	U	0.02	U	0.024	J4
SEP-2	11/16/01	0.011		0.009		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.53		0.003	U	0.006		0.005	U	0.005	U	0.02	U	0.02	U
SEP-2	2/22/02	0.011		0.011		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.54		0.003	U	0.003		0.005	U	0.005	U	0.02	U	0.024	
SEP-2	5/14/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.5		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-2	5/14/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.4		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-2	8/22/02	0.007		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.4		0.003	U	0.004		0.005	U	0.005		0.02	U	0.023	
SEP-2	8/22/02	0.007		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.3		0.003	U	0.003		0.005	U	0.005	U	0.02	U	0.024	
SEP-2	12/16/02	0.018		0.018		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.34		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U

Appendix H

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
SEP-2	12/16/02	0.017		0.018		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.3		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-3	8/18/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.022			
SEP-3	11/19/97	0.81				0.008				0.01	U			0.025	U			0.1	U			0.003	U			0.2				0.02	U		
SEP-3	2/13/98	0.53				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.11				0.022			
SEP-3	5/20/98	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.004	U			0.005	U			0.02	U		
SEP-3	8/11/98	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-3	8/11/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-3	5/12/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-3	5/12/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-3	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-3	11/1/99			0.006				0.005	U			0.01	U			0.025	U			0.27	J2			0.005				0.005	U			0.067	U
SEP-3	1/31/00			0.005	U			0.005	U			0.01	U			0.025	U			1.2				0.003	U			0.005	U			0.02	U
SEP-3	5/9/00			0.007				0.005	U			0.01	U			0.025	U			1.9				0.003				0.005	U			0.029	UB02
SEP-3	8/14/00			0.005	U			0.005	U			0.01	U			0.025	U			6				0.005				0.005	U			0.025	
SEP-3	11/10/00			0.005	U			0.005	U			0.01	U			0.025	U			3.4				0.005				0.005	U			0.028	
SEP-3	2/23/01			0.005	U			0.005	U			0.01	U			0.025	U			1.8				0.003	UB			0.005	U			0.028	UB
SEP-3	5/16/01			0.005	U			0.005	U			0.01	U			0.025	U			2.4	H			0.003	U			0.005	U			0.02	
SEP-3	8/1/01	0.005		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.8		0.003	U	0.004		0.005	U	0.005	U	0.02	U	0.021	
SEP-3	8/1/01	0.005		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.1		0.003	U	0.004		0.005	U	0.005	U	0.02	U	0.021	
SEP-3	11/16/01	0.007		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.42		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-3	2/22/02	0.011		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.38		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.024	
SEP-3	5/13/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.6		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-3	8/21/02	0.006		0.007		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.4		0.003	U	0.006		0.005	U	0.01		0.02	U	0.029	
SEP-3	11/13/02	0.005	U	0.006		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.29		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-4	8/15/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	11/10/97	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	2/13/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	5/19/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	8/20/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	11/18/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	2/19/99	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	5/13/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-4	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.025			
SEP-4	11/1/99			0.018				0.005	U			0.01	U			0.025	U			0.54	J2			0.007				0.005	U			0.064	U
SEP-4	2/14/00			0.016				0.005	U			0.01	U			0.025	U			0.34	J			0.003	U			0.006				0.02	U
SEP-4	5/10/00			0.008				0.005	U			0.01	UB			0.025	U			1.1				0.003	U			0.005	U			0.02	U
SEP-4	8/21/00			0.005	U			0.005	U			0.013				0.025	U			12				0.009				0.005	U			0.046	UB1
SEP-4	11/15/00			0.019				0.005	U			0.01	U			0.025	U			1.5				0.008				0.005				0.045	
SEP-4	2/28/01			0.008				0.005	U			0.01	U			0.025	U			2.2				0.003	U			0.005	U			0.02	U
SEP-4	5/17/01			0.005				0.005	U			0.01	U			0.025	U			1.8				0.003	U			0.005	U			0.02	U
SEP-4	7/31/01	0.005		0.006		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.1		0.003	U	0.005		0.005	U	0.005	U	0.02	UB04	0.02	UB04
SEP-4	11/16/01	0.009		0.008		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.34		0.003	U	0.003		0.005	U	0.005	U	0.02	U	0.02	U
SEP-4	2/22/02	0.011		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.53		0.003	U	0.003		0.005	U	0.005	U	0.02	U	0.025	
SEP-4	2/22/02	0.012		0.013		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.57		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-4	5/14/02	0.005		0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.7		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-4	8/22/02	0.007		0.009		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.2		0.003	U	0.004		0.005	U	0.006		0.02	U	0.025	
SEP-4	12/16/02	0.022		0.024		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.68		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-6	8/18/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-6	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.46	J4			0.003	U			0.005	U			0.02	U		
SEP-6	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	J4			0.003	U			0.005	U			0.02	U		

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
SEP-6	11/1/99			0.006				0.005	U			0.01	U			0.025	U			0.2	U			0.005				0.005	U			0.062	U
SEP-6	1/31/00			0.005	U			0.005	U			0.01	U			0.025	U			1.2				0.005				0.005	U			0.02	U
SEP-6	5/9/00			0.007				0.005	U			0.01	U			0.025	U			2				0.004				0.005	U			0.027	UJ U
SEP-6	5/9/00			0.007				0.005	U			0.01	U			0.025	U			1.9				0.003	U			0.005	U			0.022	UJ U
SEP-6	8/14/00			0.005	U			0.005	U			0.01	U			0.025	U			5.8				0.006				0.005	U			0.026	
SEP-6	11/10/00			0.005	U			0.005	U			0.01	U			0.025	U			7				0.005				0.005	U			0.03	
SEP-6	2/23/01			0.005	U			0.005	U			0.01	U			0.025	U			1.7				0.003	U			0.005	U			0.041	UJ
SEP-6	2/23/01			0.005	U			0.005	U			0.01	U			0.025	U			1.9				0.003	UJ			0.005	U			0.035	UJ
SEP-6	5/16/01			0.005	U			0.005	U			0.01	U			0.025	U			2.7	J			0.003	U			0.005	U			0.02	U
SEP-6	8/1/01	0.005		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.2		0.003	U	0.004		0.005	U	0.005	U	0.02	U	0.024	
SEP-6	11/16/01	0.007		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.5		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-6	2/22/02	0.011		0.012		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.35		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.039	
SEP-6	5/13/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.7		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-6	8/21/02	0.006		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.1		0.003	U	0.003		0.005	U	0.005	U	0.02	U	0.024	
SEP-6	8/21/02	0.006		0.006		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.9		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	
SEP-6	11/13/02	0.005		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.36		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-6	11/13/02	0.005		0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.3		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-7	8/18/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02			
SEP-7	11/10/97	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-7	2/13/98	0.015				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-7	5/20/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.004	U			0.005	U			0.02	U		
SEP-7	8/11/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-7	11/18/98	0.007				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.024			
SEP-7	2/19/99	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.025			
SEP-7	5/12/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-7	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-7	11/1/99			0.007				0.005	U			0.01	U			0.025	U			0.19				0.006				0.005	U			0.049	U U
SEP-7	1/31/00			0.005	U			0.005	U			0.01	U			0.025	U			1				0.004				0.005	U			0.04	
SEP-7	5/9/00			0.007				0.005	U			0.01	U			0.025	U			2				0.006				0.005	U			0.03	UJ U
SEP-7	8/14/00			0.005	U			0.005	U			0.01	U			0.025	U			6.3				0.005				0.005	U			0.043	
SEP-7	11/10/00			0.005	U			0.005	U			0.01	U			0.025	U			8.7				0.006				0.005	U			0.028	
SEP-7	2/23/01			0.005	U			0.005	U			0.01	U			0.025	U			1.9				0.004	UJ			0.005	U			0.037	UJ
SEP-7	5/16/01			0.005	U			0.005	U			0.01	U			0.025	U			2.2	J			0.003	U			0.005	U			0.02	U
SEP-7	5/16/01			0.005	U			0.005	U			0.01	U			0.025	U			3.4	J			0.003	U			0.005	U			0.02	U
SEP-7	7/31/01	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.8		0.003	U	0.003		0.005	U	0.005	U	0.02	U UJ	0.02	U UJ
SEP-7	11/16/01	0.006		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.55		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-7	11/16/01	0.006		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.56		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-7	2/22/02	0.009		0.01		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.32		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-7	5/13/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.8		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-7	8/21/02	0.005		0.006		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	3.2		0.003	U	0.003	U	0.005	U	0.008		0.02	U	0.024	
SEP-7	11/13/02	0.005	U	0.005	U	0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.3		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-8	8/18/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-9	8/15/97	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.025			
SEP-9	11/10/97	0.011				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.025			
SEP-9	2/13/98	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.035			
SEP-9	5/19/98	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.035			
SEP-9	8/18/98	0.006				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.024			
SEP-9	11/18/98	0.01				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.034			
SEP-9	2/19/99	0.009				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.033			
SEP-9	5/12/99	0.005				0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		

Appendix II

Cummulative List of Groundwater and Surface Water Quality Results
Phase IV RI
El Paso Asarco Smelter

Sample ID	Sample Date	As Dis mg/l		As T mg/l		Cd Dis mg/l		Cd T mg/l		Cr Dis mg/l		Cr T mg/l		Cu Dis mg/l		Cu T mg/l		Fe Dis mg/l		Fe T mg/l		Pb Dis mg/l		Pb T mg/l		Se Dis mg/l		Se T mg/l		Zn Dis mg/l		Zn T mg/l	
SEP-9	8/20/99	0.005	U			0.005	U			0.01	U			0.025	U			0.1	U			0.003	U			0.005	U			0.02	U		
SEP-9	11/1/99			0.006				0.005	U			0.01	U			0.025	U			0.17				0.006				0.005	U			0.02	U,UJ4
SEP-9	2/14/00			0.008				0.005	U			0.01	U			0.025	U			0.66	J4			0.003	U			0.005	U			0.023	
SEP-9	5/10/00			0.011				0.005	U			0.01	U			0.025	U			0.92				0.026				0.005	U			0.036	UJ1,J2
SEP-9	8/21/00			0.007				0.005	U			0.01	U			0.025	U			4.6				0.007				0.005	U			0.046	UJ1
SEP-9	11/15/00			0.01				0.005	U			0.01	U			0.025	U			0.53				0.003	U			0.005	U			0.05	
SEP-9	2/28/01			0.006				0.005	U			0.01	U			0.025	U			3				0.003	U			0.005	U			0.029	
SEP-9	5/17/01			0.007				0.005	U			0.01	U			0.025	U			1.4				0.003	U			0.005	U			0.025	
SEP-9	7/31/01	0.006		0.005		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	1.3		0.1	U	0.003		0.003	U	0.005	U	0.005	U	0.02	U,UJ4	0.02	U,UJ4
SEP-9	11/16/01	0.008		0.006		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.49		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U
SEP-9	2/22/02	0.009		0.01		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	0.3		0.003	U	0.003		0.005	U	0.005	U	0.02	U	0.02	U
SEP-9	5/14/02	0.006		0.006		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	1.2		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	
SEP-9	8/22/02	0.008		0.008		0.005	U	0.005	U	0.01	U	0.01	U	0.025	U	0.025	U	0.1	U	2.6		0.003	U	0.003	U	0.005	U	0.007		0.02	U	0.028	
SEP-9	12/16/02	0.005		0.005		0.005	U	0.005	U	0.014		0.01	U	0.025	U	0.025	U	0.1	U	0.24		0.003	U	0.003	U	0.005	U	0.005	U	0.02	U	0.02	U

Note:

J The associated numerical value is an estimated quantity because quality control criteria were not met
J2 calibration range exceeded or significant deviation from known values. Possible bias.
J3 Holding time not met. Indicates low bias.
J4 Other QC outside control limits

U Undetected. Below method detection limits.

UJ The material was analyzed for, but was not detected above the associated value.
UJ1 Blank contamination. Indicates possible high bias and/or false positive.
UJ2 Calibration range exceeded or significant deviation from known value.
UJ3 Holding times not met. Indicates low bias.
UJ4 Other QC outside control limits.

R Quality control indicates that the data are unusable (compound may or may not be present). Resampling and/or reanalysis is necessary for verification.
A Anomalous data. No apparent explanation for discrepancy in data. (Not an EPA code).

Dis Dissolved Metals
T Total Metals

APPENDIX I

APPENDIX I

STATISTICAL EVALUATIONS: THE SHAPIRO-WILKS TEST OF NORMALITY AND THE MANN KENDALL TEST FOR TREND

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
n	$x_{(1)}$ (3)	$x_{(n-i+1)}$ (3)	$x_{(n-i+1)}-x_{(i)}$	a_i (5)	b_i (5)	LN ($x_{(1)}$) (3)	LN ($x_{(n-i+1)}$) (3)	LN ($x_{(n-i+1)}$)-LN ($x_{(i)}$)	a_i (5)	b_i (5)
	EM-2					EM-2				
X_1	0.46	1.9	1.44	0.5251	0.756144	-0.776528789	0.641853886	1.418382676	0.5251	0.7447927
X_2	0.46	1.4	0.94	0.3318	0.311892	-0.776528789	0.336472237	1.113001026	0.3318	0.3692937
X_3	0.48	1.1	0.62	0.246	0.15252	-0.733969175	0.09531018	0.829279355	0.246	0.2040027
X_4	0.56	1	0.44	0.1802	0.079288	-0.579818495	0	0.579818495	0.1802	0.1044833
X_5	0.57	0.83	0.26	0.124	0.03224	-0.562118918	-0.186329578	0.37578934	0.124	0.0465979
X_6	0.6	0.8	0.2	0.0727	0.01454	-0.510825624	-0.223143551	0.287682072	0.0727	0.0209145
X_7	0.68	0.74	0.06	0.024	0.00144	-0.385662481	-0.301105093	0.084557388	0.024	0.0020294
X_8	0.74	0.68	-0.06			-0.301105093	-0.385662481	-0.084557388		
X_9	0.8	0.6	-0.2			-0.223143551	-0.510825624	-0.287682072		
X_{10}	0.83	0.57	-0.26			-0.186329578	-0.562118918	-0.37578934		
X_{11}	1	0.56	-0.44			0	-0.579818495	-0.579818495		
X_{12}	1.1	0.48	-0.62			0.09531018	-0.733969175	-0.829279355		
X_{13}	1.4	0.46	-0.94			0.336472237	-0.776528789	-1.113001026		
X_{14}	1.9	0.46	-1.44			0.641853886	-0.776528789	-1.418382676		
X_{15}										
X_{16}										
count (n)	14					14				
Minimum	0.46					-0.776528789				
Maximum	1.9					0.641853886				
average (x)	0.83					-0.28				
SD	0.41					0.43				
(5) b	1.3481					1.4921				
(5) W	0.82879					0.92979				
(7) $W_{0.05,n}$	0.874					0.874				
Data	Not-Normal Distributed					Log Normal Distributed				
	$x_{(1)}$ (3)	$x_{(n-i+1)}$ (3)	$x_{(n-i+1)}-x_{(i)}$	a_i (5)	b_i (5)	LN ($x_{(1)}$) (3)	LN ($x_{(n-i+1)}$) (3)	LN ($x_{(n-i+1)}$)-LN ($x_{(i)}$)	a_i (5)	b_i (5)
	EP-106					EP-106				
X_1	0.005	1.3	1.295	0.5359	0.6939905	-5.298317367	0.262364264	5.560681631	0.5359	2.9799693
X_2	0.005	0.049	0.044	0.3325	0.01463	-5.298317367	-3.015934981	2.282382386	0.3325	0.7588921
X_3	0.006	0.037	0.031	0.2412	0.0074772	-5.11599581	-3.296837366	1.819158443	0.2412	0.438781
X_4	0.007	0.019	0.012	0.1707	0.0020484	-4.96184513	-3.9633163	0.99852883	0.1707	0.1704489
X_5	0.007	0.017	0.01	0.1099	0.001099	-4.96184513	-4.074541935	0.887303195	0.1099	0.0975146
X_6	0.014	0.015	0.001	0.0539	0.0000539	-4.268697949	-4.199705078	0.068992871	0.0539	0.0037187
X_7	0.014	0.014	0	0	0	-4.268697949	-4.268697949	0	0	0
X_8	0.015	0.014	-0.001			-4.199705078	-4.268697949	-0.068992871		
X_9	0.017	0.007	-0.01			-4.074541935	-4.96184513	-0.887303195		
X_{10}	0.019	0.007	-0.012			-3.9633163	-4.96184513	-0.99852883		
X_{11}	0.037	0.006	-0.031			-3.296837366	-5.11599581	-1.819158443		
X_{12}	0.049	0.005	-0.044			-3.015934981	-5.298317367	-2.282382386		
X_{13}	1.3	0.005	-1.295			0.262364264	-5.298317367	-5.560681631		
X_{14}										
X_{15}										
X_{16}										
count (n)	13					13				
Minimum	0.005					-5.298317367				
Maximum	1.3					0.262364264				
average (x)	0.12					-4.04				
SD	0.36					1.48				
(5) b	0.7193					4.4493				
(6) W	0.33965					0.75351				
(7) $W_{0.05,n}$	0.866					0.866				
Data	Not-Normal Distributed					Not Log Normal Distributed				

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)	$LN(x_{(i)})$ (1)	$LN(x_{(n-i+1)})$ (2)	$LN(x_{(n-i+1)})-LN(x_{(i)})$	a_i (3)	b_i (4)
	EP-116					EP-116				
X_1	1.5	11	9.5	0.5359	5.09105	0.405465108	2.397895273	1.992430165	0.5475	1.0908555
X_2	2.3	11	8.7	0.3325	2.89275	0.832909123	2.397895273	1.564986615	0.3325	0.5203579
X_3	3.1	6.2	3.1	0.2412	0.74772	1.131402111	1.824549292	0.693147181	0.2347	0.1626816
X_4	3.3	6	2.7	0.1707	0.46089	1.193922468	1.791759469	0.597837001	0.1586	0.0948169
X_5	4.7	5.6	0.9	0.1099	0.09891	1.547562509	1.722766598	0.175204089	0.0922	0.0161538
X_6	4.9	5.3	0.4	0.0539	0.02156	1.589235205	1.667706821	0.078471615	0.0303	0.0023777
X_7	5.1	5.1	0	0	0	1.62924054	1.62924054	0		
X_8	5.3	4.9	-0.4			1.667706821	1.589235205	-0.078471615		
X_9	5.6	4.7	-0.9			1.722766598	1.547562509	-0.175204089		
X_{10}	6	3.3	-2.7			1.791759469	1.193922468	-0.597837001		
X_{11}	6.2	3.1	-3.1			1.824549292	1.131402111	-0.693147181		
X_{12}	11	2.3	-8.7			2.397895273	0.832909123	-1.564986615		
X_{13}	11	1.5	-9.5							
X_{14}										
X_{15}										
X_{16}										
count (n)	13					12				
Minimum	1.5					0.405465108				
Maximum	11					2.397895273				
average (x)	5.38					1.48				
SD	2.87					0.52				
(5) b	9.3129					1.8872				
(6) W	0.87502					1.20001				
(7) $W_{0.05,n}$	0.866					0.866				
Data	Normal Distributed					Log Normal Distributed				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)	$LN(x_{(i)})$ (1)	$LN(x_{(n-i+1)})$ (2)	$LN(x_{(n-i+1)})-LN(x_{(i)})$	a_i (3)	b_i (4)
	EP-14					EP-14				
X_1	1.3	2.3	1	0.5251	0.5251	0.262364264	0.832909123	0.570544858	0.5251	0.2995931
X_2	1.3	2.1	0.8	0.3318	0.26544	0.262364264	0.741937345	0.47957308	0.3318	0.1591223
X_3	1.4	1.7	0.3	0.246	0.0738	0.336472237	0.530628251	0.194156014	0.246	0.0477624
X_4	1.4	1.6	0.2	0.1802	0.03604	0.336472237	0.470003629	0.133531393	0.1802	0.0240624
X_5	1.4	1.6	0.2	0.124	0.0248	0.336472237	0.470003629	0.133531393	0.124	0.0165579
X_6	1.4	1.6	0.2	0.0727	0.01454	0.336472237	0.470003629	0.133531393	0.0727	0.0097077
X_7	1.5	1.5	0	0.024	0	0.405465108	0.405465108	0	0.024	0
X_8	1.5	1.5	0			0.405465108	0.405465108	0		
X_9	1.6	1.4	-0.2			0.470003629	0.336472237	-0.133531393		
X_{10}	1.6	1.4	-0.2			0.470003629	0.336472237	-0.133531393		
X_{11}	1.6	1.4	-0.2			0.470003629	0.336472237	-0.133531393		
X_{12}	1.7	1.4	-0.3			0.530628251	0.336472237	-0.194156014		
X_{13}	2.1	1.3	-0.8			0.741937345	0.262364264	-0.47957308		
X_{14}	2.3	1.3	-1			0.832909123	0.262364264	-0.570544858		
X_{15}										
X_{16}										
count (n)	14					14				
Minimum	1.3					0.262364264				
Maximum	2.3					0.832909123				
average (x)	1.58					0.44				
SD	0.29					0.17				
(5) b	0.9397					0.5568				
(6) W	0.80020					0.85004				
(7) $W_{0.05,n}$	0.874					0.874				
Data	Not-Normal Distributed					Not Log Normal Distributed				

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)} - x_{(i)}$	a_i (3)	b_j (4)	$LN(x_{(i)})$ (1)	$LN(x_{(n-i+1)})$ (2)	$LN(x_{(n-i+1)}) - LN(x_{(i)})$	a_i (3)	b_j (4)
	EP-23					EP-23				
X_1	0.65	11	10.35	0.5251	5.434785	-0.430782916	2.397895273	2.828678189	0.5251	1.4853389
X_2	0.96	9.4	8.44	0.3318	2.800392	-0.040821995	2.240709689	2.281531684	0.3318	0.7570122
X_3	1.1	8.6	7.5	0.246	1.845	0.09531018	2.151762203	2.056452023	0.246	0.5058872
X_4	1.2	7	5.8	0.1802	1.04516	0.182321557	1.945910149	1.763588592	0.1802	0.3177987
X_5	1.3	5.2	3.9	0.124	0.4836	0.262364264	1.648658626	1.386294361	0.124	0.1719005
X_6	1.4	4.7	3.3	0.0727	0.23991	0.336472237	1.547562509	1.211090272	0.0727	0.0880463
X_7	2.6	3.1	0.5	0.024	0.012	0.955511445	1.131402111	0.175890666	0.024	0.0042214
X_8	3.1	2.6	-0.5			1.131402111	0.955511445	-0.175890666		
X_9	4.7	1.4	-3.3			1.547562509	0.336472237	-1.211090272		
X_{10}	5.2	1.3	-3.9			1.648658626	0.262364264	-1.386294361		
X_{11}	7	1.2	-5.8			1.945910149	0.182321557	-1.763588592		
X_{12}	8.6	1.1	-7.5			2.151762203	0.09531018	-2.056452023		
X_{13}	9.4	0.96	-8.44			2.240709689	-0.040821995	-2.281531684		
X_{14}	11	0.65	-10.35			2.397895273	-0.430782916	-2.828678189		
X_{15}										
X_{16}										
count (n)	14					14				
Minimum	0.65					-0.430782916				
Maximum	11					2.397895273				
average (x)	4.16					1.03				
SD	3.55					0.96				
(5) b	11.8608					3.3302				
(6) W	0.86077					0.92084				
(7) $W_{0.05,n}$	0.874					0.874				
Data	Not-Normal Distributed					Log Normal Distributed				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)} - x_{(i)}$	a_i (3)	b_j (4)	$LN(x_{(i)})$ (1)	$LN(x_{(n-i+1)})$ (2)	$LN(x_{(n-i+1)}) - LN(x_{(i)})$	a_i (3)	b_j (4)
	EP-25					EP-25				
X_1	1.1	38	36.9	0.5251	19.37619	0.09531018	3.63758616	3.54227598	0.5251	1.8600491
X_2	4	18	14	0.3318	4.6452	1.386294361	2.890371758	1.504077397	0.3318	0.4990529
X_3	4.8	15	10.2	0.246	2.5092	1.568615918	2.708050201	1.139434283	0.246	0.2803008
X_4	6.5	12	5.5	0.1802	0.9911	1.871802177	2.48490665	0.613104473	0.1802	0.1104814
X_5	7.4	11	3.6	0.124	0.4464	2.00148	2.397895273	0.396415273	0.124	0.0491555
X_6	7.8	11	3.2	0.0727	0.23264	2.054123734	2.397895273	0.343771539	0.0727	0.0249922
X_7	8	10	2	0.024	0.048	2.079441542	2.302585093	0.223143551	0.024	0.0053554
X_8	10	8	-2			2.302585093	2.079441542	-0.223143551		
X_9	11	7.8	-3.2			2.397895273	2.054123734	-0.343771539		
X_{10}	11	7.4	-3.6			2.397895273	2.00148	-0.395415273		
X_{11}	12	6.5	-5.5			2.48490665	1.871802177	-0.613104473		
X_{12}	15	4.8	-10.2			2.708050201	1.568615918	-1.139434283		
X_{13}	18	4	-14			2.890371758	1.386294361	-1.504077397		
X_{14}	38	1.1	-36.9			3.63758616	0.09531018	-3.54227598		
X_{15}										
X_{16}										
count (n)	14					14				
Minimum	1.1					0.09531018				
Maximum	38					3.63758616				
average (x)	11.04					2.13				
SD	8.92					0.81				
(5) b	28.2487					2.8294				
(6) W	0.77185					0.93261				
(7) $W_{0.05,n}$	0.874					0.874				
Data	Not-Normal Distributed					Log Normal Distributed				

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(1)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)} - x_{(1)}$	a_i (3)	b_j (4)	LN ($x_{(1)}$) (1)	LN ($x_{(n-i+1)}$) (2)	LN ($x_{(n-i+1)}$) - LN ($x_{(1)}$)	a_i (3)	b_j (4)
	EP-49					EP-49				
X_1	0.83	221	220.17	0.5475	120.54308	-0.186329578	5.398162702	5.58449228	0.5475	3.0575095
X_2	11	42	31	0.3325	10.3075	2.397895273	3.737669618	1.339774345	0.3325	0.445475
X_3	15	40	25	0.2347	5.8675	2.708050201	3.688879454	0.980829253	0.2347	0.2302006
X_4	17	34	17	0.1586	2.6962	2.833213344	3.526360525	0.693147181	0.1586	0.1099331
X_5	18	33	15	0.0922	1.383	2.890371758	3.496507561	0.606135804	0.0922	0.0558857
X_6	18	26	8	0.0303	0.2424	2.890371758	3.258096538	0.36772478	0.0303	0.0111421
X_7	26	18	-8			3.258096538	2.890371758	-0.36772478		
X_8	33	18	-15			3.496507561	2.890371758	-0.606135804		
X_9	34	17	-17			3.526360525	2.833213344	-0.693147181		
X_{10}	40	15	-25			3.688879454	2.708050201	-0.980829253		
X_{11}	42	11	-31			3.737669618	2.397895273	-1.339774345		
X_{12}	221	0.83	-220.17			5.398162702	-0.186329578	-5.58449228		
X_{13}										
X_{14}										
X_{15}										
X_{16}										
count (n)	12					12				
Minimum	0.83					-0.186329578				
Maximum	221					5.398162702				
average (x)	39.65					3.05				
SD	58.42					1.28				
(5) b	141.0397					3.9101				
(6) W	0.52987					0.85043				
(7) $W_{0.05,n}$	0.859					0.859				
Data	Not-Normal Distributed					Not Log Normal Distributed				
	$x_{(1)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)} - x_{(1)}$	a_i (3)	b_j (4)	LN ($x_{(1)}$) (1)	LN ($x_{(n-i+1)}$) (2)	LN ($x_{(n-i+1)}$) - LN ($x_{(1)}$)	a_i (3)	b_j (4)
	EP-51					EP-51				
X_1	0.22	1.2	0.98	0.5251	0.514598	-1.514127733	0.182321557	1.696449289	0.5251	0.8908055
X_2	0.25	0.97	0.72	0.3318	0.238896	-1.386294361	-0.030459207	1.355835154	0.3318	0.4498661
X_3	0.27	0.75	0.48	0.246	0.11808	-1.30933332	-0.287682072	1.021651248	0.246	0.2513262
X_4	0.29	0.56	0.27	0.1802	0.048654	-1.237874356	-0.579818495	0.658055861	0.1802	0.1185817
X_5	0.3	0.48	0.18	0.124	0.02232	-1.203972804	-0.733969175	0.470003629	0.124	0.0582805
X_6	0.34	0.37	0.03	0.0727	0.002181	-1.078809661	-0.994252273	0.084557388	0.0727	0.0061473
X_7	0.37	0.37	0	0.024	0	-0.994252273	-0.994252273	0	0.024	0
X_8	0.37	0.37	0			-0.994252273	-0.994252273	0		
X_9	0.37	0.34	-0.03			-0.994252273	-1.078809661	-0.084557388		
X_{10}	0.48	0.3	-0.18			-0.733969175	-1.203972804	-0.470003629		
X_{11}	0.56	0.29	-0.27			-0.579818495	-1.237874356	-0.658055861		
X_{12}	0.75	0.27	-0.48			-0.287682072	-1.30933332	-1.021651248		
X_{13}	0.97	0.25	-0.72			-0.030459207	-1.386294361	-1.355835154		
X_{14}	1.2	0.22	-0.98			0.182321557	-1.514127733	-1.696449289		
X_{15}										
X_{16}										
count (n)	14					14				
Minimum	0.22					-1.514127733				
Maximum	1.2					0.182321557				
average (x)	0.48					-0.37				
SD	0.29					0.52				
(5) b	0.9447					1.7750				
(6) W	0.79210					0.90921				
(7) $W_{0.05,n}$	0.874					0.874				
Data	Not-Normal Distributed					Log Normal Distributed				

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)
	EM-5					EP-111				
X_1	1	2.6	1.6	0.5251	0.84016	0.83	1.2	0.37	0.5475	0.202575
X_2	1	2.4	1.4	0.3318	0.46452	0.91	1.1	0.19	0.3325	0.063175
X_3	1.2	2.3	1.1	0.246	0.2706	0.93	1.1	0.17	0.2347	0.039899
X_4	1.2	2.3	1.1	0.1802	0.19822	0.95	1.1	0.15	0.1586	0.02379
X_5	1.5	1.8	0.3	0.124	0.0372	0.95	0.98	0.03	0.0922	0.002766
X_6	1.5	1.7	0.2	0.0727	0.01454	0.97	0.97	0	0.0303	0
X_7	1.5	1.6	0.1	0.024	0.0024	0.97	0.97	0		
X_8	1.6	1.5	-0.1			0.98	0.95	-0.03		
X_9	1.7	1.5	-0.2			1.1	0.95	-0.15		
X_{10}	1.8	1.5	-0.3			1.1	0.93	-0.17		
X_{11}	2.3	1.2	-1.1			1.1	0.91	-0.19		
X_{12}	2.3	1.2	-1.1			1.2	0.83	-0.37		
X_{13}	2.4	1	-1.4							
X_{14}	2.6	1	-1.6							
X_{15}										
X_{16}										
count (n)	14					12				
Minimum	1					0.83				
Maximum	2.6					1.2				
average (x)	1.69					1.00				
SD	0.53					0.10				
(5) b	1.8276					0.3322				
(6) W	0.91838					0.92668				
(7) $W_{0.05,n}$	0.874					0.866				
Data	Normal Distributed					Normal Distributed				

	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)
	EP-114					EP-12				
X_1	118	323	205	0.5475	112.2375	0.72	3.3	2.58	0.5251	1.354758
X_2	203	320	117	0.3325	38.9025	0.83	2.3	1.47	0.3318	0.487746
X_3	214	316	102	0.2347	23.9394	0.89	2.1	1.21	0.246	0.29766
X_4	240	301	61	0.1586	9.6746	0.92	2	1.08	0.1802	0.194616
X_5	250	292	42	0.0922	3.8724	0.96	2	1.04	0.124	0.12896
X_6	280	290	10	0.0303	0.303	1.2	1.8	0.6	0.0727	0.04362
X_7	290	280	-10			1.3	1.4	0.1	0.024	0.0024
X_8	292	250	-42			1.4	1.3	-0.1		
X_9	301	240	-61			1.8	1.2	-0.6		
X_{10}	316	214	-102			2	0.96	-1.04		
X_{11}	320	203	-117			2	0.92	-1.08		
X_{12}	323	118	-205			2.1	0.89	-1.21		
X_{13}						2.3	0.83	-1.47		
X_{14}						3.3	0.72	-2.58		
X_{15}										
X_{16}										
count (n)	12					14				
Minimum	118					0.72				
Maximum	323					3.3				
average (x)	262.25					1.55				
SD	60.81					0.73				
(5) b	188.9294					2.5098				
(6) W	0.87748					0.90108				
(7) $W_{0.05,n}$	0.866					0.874				
Data	Normal Distributed					Normal Distributed				

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)
	EP-13					EP-132				
X_1	1.6	38	36.4	0.5251	19.11364	1.5	2.3	0.8	0.6233	0.49864
X_2	17	34	17	0.3318	5.6406	1.8	2	0.2	0.3031	0.06062
X_3	22	32	10	0.246	2.46	1.8	2	0.2	0.1401	0.02802
X_4	23	31	8	0.1802	1.4416	2	2	0	0	0
X_5	25	31	6	0.124	0.744	2	1.8	-0.2		
X_6	26	30	4	0.0727	0.2908	2	1.8	-0.2		
X_7	28	29	1	0.024	0.024	2.3	1.5	-0.8		
X_8	29	28	-1							
X_9	30	26	-4							
X_{10}	31	25	-6							
X_{11}	31	23	-8							
X_{12}	32	22	-10							
X_{13}	34	17	-17							
X_{14}	38	1.6	-36.4							
X_{15}										
X_{16}										
count (n)	14					7				
Minimum	1.6					1.5				
Maximum	38					2.3				
average (x)	26.26					1.91				
SD	8.88					0.25				
(5) b	29.7146					0.5873				
(6) W	0.86190					0.93577				
(7) $W_{0.05,n}$	0.803					0.803				
Data	Normal Distributed					Normal Distributed				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)
	EP-20					EP-22				
X_1	0.75	1.4	0.65	0.5251	0.341315	1.2	5.8	4.6	0.5475	2.5185
X_2	0.76	1.4	0.64	0.3318	0.212352	1.2	5.2	4	0.3325	1.33
X_3	0.76	1.3	0.54	0.246	0.13284	1.5	4	2.5	0.2347	0.58675
X_4	0.86	1.2	0.34	0.1802	0.061268	2.6	3.9	1.3	0.1586	0.20618
X_5	0.93	1.1	0.17	0.124	0.02108	3.4	3.8	0.4	0.0922	0.03688
X_6	0.96	1.1	0.14	0.0727	0.010178	3	3.8	0.8	0.0303	0.02424
X_7	0.97	0.98	0.01	0.024	0.00024	3.9	3.4	-0.5		
X_8	0.98	0.97	-0.01			3.8	3	-0.8		
X_9	1.1	0.96	-0.14			3.8	2.6	-1.2		
X_{10}	1.1	0.93	-0.17			4	1.5	-2.5		
X_{11}	1.2	0.86	-0.34			5.2	1.2	-4		
X_{12}	1.3	0.76	-0.54			5.8	1.2	-4.6		
X_{13}	1.4	0.76	-0.64							
X_{14}	1.4	0.75	-0.65							
X_{15}										
X_{16}										
count (n)	14					12				
Minimum	0.75					1.2				
Maximum	1.4					5.8				
average (x)	1.03					3.28				
SD	0.23					1.47				
(5) b	0.7793					4.7026				
(6) W	0.92105					0.92695				
(7) $W_{0.05,n}$	0.874					0.859				
Data	Normal Distributed					Normal Distributed				

Appendix I

Statistical Evaluation; Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)
	EP-53					EP-54				
X_1	18	55	37	0.5251	19.4287	20	57	37	0.5251	19.4287
X_2	22	49	27	0.3318	8.9586	24	49	25	0.3318	8.295
X_3	22	45	23	0.246	5.658	25	45	20	0.246	4.92
X_4	23	42	19	0.1802	3.4238	26	42	16	0.1802	2.8832
X_5	27	37	10	0.124	1.24	26	37	11	0.124	1.364
X_6	32	35	3	0.0727	0.2181	27	37	10	0.0727	0.727
X_7	32	35	3	0.024	0.072	34	37	3	0.024	0.072
X_8	35	32	-3			37	34	-3		
X_9	35	32	-3			37	27	-10		
X_{10}	37	27	-10			37	26	-11		
X_{11}	42	23	-19			42	26	-16		
X_{12}	45	22	-23			45	25	-20		
X_{13}	49	22	-27			49	24	-25		
X_{14}	55	18	-37			57	20	-37		
X_{15}										
X_{16}										
count (n)	14					14				
Minimum	18					20				
Maximum	55					57				
average (x)	33.86					34.71				
SD	11.04					10.79				
(5) b	38.9992					37.6899				
(6) W	0.96036					0.93897				
(7) $W_{0.05,n}$	0.874					0.874				
Data	Normal Distributed					Normal Distributed				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)
	EP-55					EP-55				
X_1	29	92	63	0.5888	37.0944	0.33	3.3	2.97	0.5251	1.559547
X_2	36	63	27	0.3244	8.7588	1.2	3.1	1.9	0.3318	0.63042
X_3	51	63	12	0.1976	2.3712	1.4	3	1.6	0.246	0.3936
X_4	54	60	6	0.0947	0.5682	2.1	3	0.9	0.1802	0.16218
X_5	54	54	0	0	0	2.2	3	0.8	0.124	0.0992
X_6	60	54	-6			2.4	2.7	0.3	0.0727	0.02181
X_7	63	51	-12			2.5	2.7	0.2	0.024	0.0048
X_8	63	36	-27			2.7	2.5	-0.2		
X_9	92	29	-63			2.7	2.4	-0.3		
X_{10}						3	2.2	-0.8		
X_{11}						3	2.1	-0.9		
X_{12}						3	1.4	-1.6		
X_{13}						3.1	1.2	-1.9		
X_{14}						3.3	0.33	-2.97		
X_{15}										
X_{16}										
count (n)	9					14				
Minimum	29					0.33				
Maximum	92					3.3				
average (x)	55.78					2.35				
SD	17.93					0.85				
(5) b	48.7926					2.8716				
(6) W	0.92579					0.87789				
(7) $W_{0.05,n}$	0.829					0.874				
Data	Normal Distributed					Normal Distributed				

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)
	EP-57					EP-59				
X_1	0.058	0.5	0.442	0.5359	0.2368678	1.9	2.9	1	0.5251	0.5251
X_2	0.083	0.43	0.347	0.3325	0.1153775	2	2.7	0.7	0.3318	0.23226
X_3	0.23	0.41	0.18	0.2412	0.043416	2	2.6	0.6	0.246	0.1476
X_4	0.25	0.39	0.14	0.1707	0.023898	2	2.5	0.5	0.1802	0.0901
X_5	0.29	0.38	0.09	0.1099	0.009891	2.2	2.5	0.3	0.124	0.0372
X_6	0.32	0.37	0.05	0.0539	0.002695	2.3	2.4	0.1	0.0727	0.00727
X_7	0.35	0.35	0	0	0	2.3	2.4	0.1	0.024	0.0024
X_8	0.37	0.32	-0.05			2.4	2.3	-0.1		
X_9	0.38	0.29	-0.09			2.4	2.3	-0.1		
X_{10}	0.39	0.25	-0.14			2.5	2.2	-0.3		
X_{11}	0.41	0.23	-0.18			2.5	2	-0.5		
X_{12}	0.43	0.083	-0.347			2.6	2	-0.6		
X_{13}	0.5	0.058	-0.442			2.7	2	-0.7		
X_{14}						2.9	1.9	-1		
X_{15}										
X_{16}										
count (n)	13					14				
Minimum	0.058					1.9				
Maximum	0.5					2.9				
average (x)	0.31					2.34				
SD	0.13					0.30				
(5) b	0.4321					1.0419				
(6) W	0.92241					0.95891				
(7) $W_{0.05,n}$	0.866					0.874				
Data	Normal Distributed					Normal Distributed				
	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)	$x_{(i)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_j (4)
	EP-62					EP-70				
X_1	0.56	1.7	1.14	0.5251	0.598614	0.56	0.96	0.4	0.5359	0.21436
X_2	0.75	1.5	0.75	0.3318	0.24885	0.56	0.93	0.37	0.3325	0.123025
X_3	0.82	1.5	0.68	0.246	0.16728	0.57	0.84	0.27	0.2412	0.065124
X_4	0.87	1.4	0.53	0.1802	0.095506	0.59	0.81	0.22	0.1707	0.037554
X_5	1.1	1.3	0.2	0.124	0.0248	0.6	0.8	0.2	0.1099	0.02198
X_6	1.1	1.2	0.1	0.0727	0.00727	0.63	0.75	0.12	0.0539	0.006468
X_7	1.1	1.2	0.1	0.024	0.0024	0.73	0.73	0	0	0
X_8	1.2	1.1	-0.1			0.75	0.63	-0.12		
X_9	1.2	1.1	-0.1			0.8	0.6	-0.2		
X_{10}	1.3	1.1	-0.2			0.81	0.59	-0.22		
X_{11}	1.4	0.87	-0.53			0.84	0.57	-0.27		
X_{12}	1.5	0.82	-0.68			0.93	0.56	-0.37		
X_{13}	1.5	0.75	-0.75			0.96	0.56	-0.4		
X_{14}	1.7	0.56	-1.14							
X_{15}										
X_{16}										
count (n)	14					13				
Minimum	0.56					0.56				
Maximum	1.7					0.96				
average (x)	1.15					0.72				
SD	0.32					0.14				
(5) b	1.1447					0.4685				
(6) W	0.97761					0.89728				
(7) $W_{0.05,n}$	0.874					0.866				
Data	Normal Distributed					Normal Distributed				

Appendix I

Statistical Evaluation: Shapiro Wilk Test of Normality (Total Arsenic)
Phase IV RI, El Paso Asarco Smelter

	Total Arsenic					Total Arsenic				
	$x_{(1)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)	$x_{(1)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)
	EP-75					EP-76				
X_1	9.4	18	8.6	0.5251	4.51586	0.37	1.5	1.13	0.5475	0.618675
X_2	11	18	7	0.3318	2.3226	0.51	1.4	0.89	0.3325	0.295925
X_3	13	17	4	0.246	0.984	0.76	1.3	0.54	0.2347	0.126738
X_4	14	17	3	0.1802	0.5406	0.87	1.3	0.43	0.1586	0.068198
X_5	14	17	3	0.124	0.372	0.92	1.1	0.18	0.0922	0.016596
X_6	15	16	1	0.0727	0.0727	0.92	1	0.08	0.0303	0.002424
X_7	16	16	0	0.024	0	1	0.92	-0.08		
X_8	16	16	0			1.1	0.92	-0.18		
X_9	16	15	-1			1.3	0.87	-0.43		
X_{10}	17	14	-3			1.3	0.76	-0.54		
X_{11}	17	14	-3			1.4	0.51	-0.89		
X_{12}	17	13	-4			1.5	0.37	-1.13		
X_{13}	18	11	-7							
X_{14}	18	9.4	-8.6							
X_{15}										
X_{16}										
count (n)	14					12				
Minimum	9.4					0.37				
Maximum	18					1.5				
average (x)	15.10					1.00				
SD	2.58					0.35				
(5) b	8.8078					1.1286				
(6) W	0.89975					0.96190				
(7) $W_{0.05,n}$	0.874					0.859				
Data	Normal Distributed					Normal Distributed				

	$x_{(1)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)	$x_{(1)}$ (1)	$x_{(n-i+1)}$ (2)	$x_{(n-i+1)}-x_{(i)}$	a_i (3)	b_i (4)
	EP-78					EP-85				
X_1	3	5.2	2.2	0.5251	1.15522	1.5	2.6	1.1	0.5251	0.57761
X_2	3.5	4.8	1.3	0.3318	0.43154	1.7	2.6	0.9	0.3318	0.29862
X_3	3.5	4.6	1.1	0.246	0.2706	1.8	2.5	0.7	0.246	0.1722
X_4	3.6	4.1	0.5	0.1802	0.0901	2	2.4	0.4	0.1802	0.07208
X_5	3.6	4	0.4	0.124	0.0496	2.1	2.3	0.2	0.124	0.0248
X_6	3.7	3.9	0.2	0.0727	0.01454	2.2	2.3	0.1	0.0727	0.00727
X_7	3.7	3.8	0.1	0.024	0.0024	2.2	2.2	0	0.024	0
X_8	3.8	3.7	-0.1			2.2	2.2	0		
X_9	3.9	3.7	-0.2			2.3	2.2	-0.1		
X_{10}	4	3.6	-0.4			2.3	2.1	-0.2		
X_{11}	4.1	3.6	-0.5			2.4	2	-0.4		
X_{12}	4.6	3.5	-1.1			2.5	1.8	-0.7		
X_{13}	4.8	3.5	-1.3			2.6	1.7	-0.9		
X_{14}	5.2	3	-2.2			2.6	1.5	-1.1		
X_{15}										
X_{16}										
count (n)	14					14				
Minimum	3					1.5				
Maximum	5.2					2.6				
average (x)	3.93					2.17				
SD	0.58					0.33				
(5) b	2.0138					1.1526				
(6) W	0.91573					0.94311				
(7) $W_{0.05,n}$	0.874					0.874				
Data	Normal Distributed					Normal Distributed				