Appendix E
Fox Avenue Building Historical Data

Appendix E

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Appendix E-1

Table E-1: Chemicals Detected in Soil, Fox Avenue Building (Former Great Western Chemical)

Table E-2: Chemicals Detected in Groundwater, Fox Avenue Building (Former Great Western Chemical)

Table E-3: Chemicals Detected in Seep Samples, Fox Avenue Building (Former Great Western Chemical)

Table E-4: Surface Sediment Sampling Results, Fox Avenue Building (Former Great Western Chemical)

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**1,1,1-TCA**	**160**		**2**		**80**
Hart Crowser 1990b	**1990**	**PT-3**		**1,1,1-TCA**	**130**		**2**		**65**
Hart Crowser 1990b	**Oct-90**	**B-7/S-3**	**7.5**	**1,1,1-TCA**	**120**		**2**		**60**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**1,1,1-TCA**	**97**		**2**		**49**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**1,1,1-TCA**	**42**		**2**		**21**
Hart Crowser 1990b	Oct-90	SB4/S1	1.5	1,1,1-TCA	15		2		7.5
Hart Crowser 1993a	Jul-93	B-47	6	1,1,1-TCA	3		2		1.5
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,1,1-TCA	2		2		1.0
Hart Crowser 1993a	Jun-93	B-43 (DUP)	12	1,1,1-TCA	2		2		1.0
Hart Crowser 1993a	Jun-93	B-43	12	1,1,1-TCA	1.8		2		0.9
Hart Crowser 1992b	Apr-92	B-30	10-11.5	1,1,1-TCA	1.4		2		0.7
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	1,1,1-TCA	0.97		2		0.5
Hart Crowser 1993a	Jun-93	B-44	14	1,1,1-TCA	0.66		2		0.3
Hart Crowser 1992b	Apr-92	B-30	4-5.5	1,1,1-TCA	0.49		2		0.2
Hart Crowser 1995	Jul-95	HC-GW-1		1,1,1-TCA	0.49		2		0.2
Ecology 1993a	Jul-93	B-48	12	1,1,1-TCA	0.34		2		0.2
Hart Crowser 1993a	Jul-93	B-48 (DUP)	12	1,1,1-TCA	0.32		2		0.2
Hart Crowser 1993a	Jul-93	B-48	12	1,1,1-TCA	0.28		2		0.1
Hart Crowser 1990a	May-90	B2-S3	10	1,1,1-TCA	0.17	M	2		0.1
Ecology 1993a	Jul-93	B-47	12	1,1,1-TCA	0.045	J	2		0.0
Hart Crowser 1992a	Jan-91	SB-12	2.5	1,1,1-TCA	0.035		2		0.0
Ecology 1993d	Jul-93	B-51	12	1,1,1-TCA	0.014	J	2		0.0
Hart Crowser 1990b	1990	PT-2		1,1-DCA	14		8,000		0.0
Hart Crowser 1990b	1990	PT-3		1,1-DCA	3.6		8,000		0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,1-DCA	3.2		8,000		0.0
Hart Crowser 1992a	Jan-91	SB-10	2.5	1,1-DCA	2.2		8,000		0.0
Hart Crowser 1990b	1990	PT-5		1,1-DCA	0.970		8,000		0.0
Hart Crowser 1990b	1990	PT-4		1,1-DCA	0.910		8,000		0.0
Hart Crowser 1992b	Apr-92	B-29	13.5-15	1,1-DCA	0.066		8,000		0.0
Hart Crowser 1992a	Jan-91	SB-12	2.5	1,1-DCA	0.01		8,000		0.0
Hart Crowser 1992a	Jan-91	SB-10	2.5	1,1-DCE	8.9		1.7		5.2
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,4,6,7,8-HpCDD	8.17E-06	B			
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,4,6,7,8-HpCDD	6.98E-06	B			
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,4,6,7,8-HpCDD	2.69E-07	B			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,4,6,7,8-HpCDF	1.19E-06				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,4,6,7,8-HpCDF	9.81E-07				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,4,6,7,8-HpCDF	3.33E-08				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,4,7,8,9-HpCDF	9.87E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,4,7,8,9-HpCDF	7.86E-08				

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,4,7,8,9-HpCDF	4.00E-09	J			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,4,7,8-HxCDD	3.89E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,4,7,8-HxCDD	2.41E-08				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,4,7,8-HxCDD	1.4E-09	J			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,4,7,8-HxCDF	4.84E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,4,7,8-HxCDF	3.84E-08				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,4,7,8-HxCDF	1.8E-09				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,6,7,8-HxCDD	2.03E-07				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,6,7,8-HxCDD	1.76E-07				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,6,7,8-HxCDD	9.6E-09				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,6,7,8-HxCDF	4.22E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,6,7,8-HxCDF	3.17E-08				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,6,7,8-HxCDF	1.00E-09				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,7,8,9-HxCDD	1.03E-07				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,7,8,9-HxCDD	7.44E-08				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2,3,7,8,9-HxCDD	3.8E-09				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,7,8,9-HxCDF	2.16E-08				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,7,8-PeCDD	1.13E-08	J			
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,7,8-PeCDD	5.5E-09				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	1,2,3,7,8-PeCDF	7.1E-09	J			
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2,3,7,8-PeCDF	3.9E-09				
Ecology 1993a	Jul-93	B-47	12	1,2,4-Trimethylbenzene	1.1	J	4,000		0
Ecology 1993a	Jul-93	B-50	10	1,2,4-Trimethylbenzene	0.72	J	4,000		0
Ecology 1993a	Jul-93	B-47	12	1,2,4-Trimethylbenzene	0.38	J	4,000		0
Hart Crowser 1990b	Sep-90	B-9/S-6	15	1,2-DCA	0.097		11		0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	1,2-DCE (total)	57		720		0.1
Hart Crowser 1992b	Apr-92	B-30	4-5.5	1,2-DCE (total)	30		720		0.0
Hart Crowser 1992a	Jan-91	SB-10	2.5	1,2-DCE (total)	9.8		720		0.0
Hart Crowser 1993a	Aug-92	B-33	38.5-40	1,2-DCE (total)	3.9		720		0.0
ATI 1991a	Aug-91	B-16/S7	16	1,2-DCE (total)	2.1		720		0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	1,2-DCE (total)	2.1		720		0.0
Ecology 1993a	Jul-93	B-48	12	1,2-DCE (total)	1.4	J	720		0.0
Hart Crowser 1990a	May-90	B2-S3	10	1,2-DCE (total)	1.3		720		0.0
Ecology 1993a	Jul-93	B-47	12	1,2-DCE (total)	1		720		0.0
Hart Crowser 1993a	Aug-92	B-33	29.5-31	1,2-DCE (total)	0.9		720		0.0
Hart Crowser 1992a	Jan-91	SB-12	2.5	1,2-DCE (total)	0.88		720		0.0
Hart Crowser 1992a	Jan-91	SB-11	2.5	1,2-DCE (total)	0.78		720		0.0
Hart Crowser 1992b	Apr-92	B-29	13.5-15	1,2-DCE (total)	0.54		720		0.0
Ecology 1993a	Jul-93	B-49	15	1,2-DCE (total)	0.35		720		0.0

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Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-21	48-49.5	1,2-DCE (total)	0.31		720		0.0
ATI 1991a	Aug-91	B-17/S1	18	1,2-DCE (total)	0.30		720		0.0
Ecology 1993b	Jun-93	278089		1,2-DCE (total)	0.22		720		0.0
Hart Crowser 1992a	Jan-91	SB-11	13	1,2-DCE (total)	0.22		720		0.0
Hart Crowser 1992b	Apr-92	B-21	42-43.5	1,2-DCE (total)	0.19		720		0.0
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	1,2-DCE (total)	0.19		720		0.0
Hart Crowser 1993a	Aug-92	B-32	0-3	1,2-DCE (total)	0.17		720		0.0
Ecology 1993b	Jun-93	278088		1,2-DCE (total)	0.11		720		0.0
Hart Crowser 1992a	Jan-91	B-15	17	1,2-DCE (total)	0.11		720		0.0
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	1,2-DCE (total)	0.075		720		0.0
Hart Crowser 1993a	Aug-92	B-35	8-10	1,2-DCE (total)	0.074		720		0.0
Ecology 1993d	Jul-93	B-51	12	1,2-DCE (total)	0.044	J	720		0.0
Ecology 1993d	Jul-93	B-52	12	1,2-DCE (total)	0.033	J	720		0.0
Ecology 1993b	Jun-93	278087		1,2-DCE (total)	0.03	J	720		0.0
Hart Crowser 1992a	Jan-91	SB-12	13	1,2-DCE (total)	0.017		720		0.0
Ecology 1991b	Aug-91	B-16	15	1,2-DCE (total)	0.013		720		0.0
Ecology 1993b	Jun-93	278090		1,2-DCE (total)	0.007	J	720		0.0
Ecology 1993b	Jun-93	278090 (DUP)		1,2-DCE (total)	0.007	J	720		0.0
Ecology 1991b	Aug-91	B-16	13.5	1,2-DCE (total)	0.0017		720		0.0
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**1,2-Dichlorobenzene**	**18**		**15**	**0.0038**	**4,737**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**12.5**	**1,2-Dichlorobenzene**	**1.7**		**15**	**0.0038**	**447**
Ecology 1993a	**Jul-93**	**B-50**	**10**	**1,2-Dichlorobenzene**	**0.41**	**J**	**15**	**0.0038**	**108**
Ecology 1993a	**Jul-93**	**B-47**	**12**	**1,2-Dichlorobenzene**	**0.14**		**15**	**0.0038**	**37**
Ecology 1993a	**Jul-93**	**B-47**	**12**	**1,2-Dichlorobenzene**	**0.12**	**J**	**15**	**0.0038**	**32**
Ecology 1993d	**Jul-93**	**B-52**	**12**	**1,2-Dichlorobenzene**	**0.1**	**J**	**15**	**0.0038**	**26**
Hart Crowser 1992a	Jan-91	SB-11	13	1,2-Dichlorobenzene	0.035	J	15	0.0038	9.2
Ecology 1993d	Jul-93	B-52	12	1,2-Dichlorobenzene	0.032	J	15	0.0038	8.4
Ecology 1993b	Jun-93	278089		1,2-Dichlorobenzene	0.025	J	15	0.0038	6.6
Ecology 1993a	Jul-93	B-49	15	1,2-Dichlorobenzene	0.012	J	15	0.0038	3.2
Hart Crowser 1990b	Sep-90	B-9/S-6	15	1,2-Dichloropropane	0.017				
Hart Crowser 1992a	Jan-91	SB-12	13	1,2-Dichloropropane	0.011				
Hart Crowser 1990a	May-89	B-1		1,2-Dichloropropane	0.005				
Ecology 1993a	Jul-93	B-47	12	1,3,5-Trimethylbenzene	0.12	J	4,000		0.0
Hart Crowser 1992a	Jan-91	SB-10	17	1,3-Dichlorobenzene	1.1				
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**1,4-Dichlorobenzene**	**5.9**		**42**	**0.015**	**393**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**12.5**	**1,4-Dichlorobenzene**	**0.71**		**42**	**0.015**	**47**
Ecology 1993a	**Jul-93**	**B-50**	**10**	**1,4-Dichlorobenzene**	**0.16**	**J**	**42**	**0.015**	**11**
Ecology 1993a	Jul-93	B-47	12	1,4-Dichlorobenzene	0.036	J	42	0.015	2.4
Ecology 1993d	Jul-93	B-52	12	1,4-Dichlorobenzene	0.009	J	42	0.015	0.6

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Ecology 1993a	**Jul-93**	**B-47**	**12**	**1,4-Dimethylbenzene**	**0.5**	**J**	**42**	**0.015**	**33**
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	2,3,4,6,7,8-HxCDF	7.35E-08	B			
Hart Crowser 1992b	Apr-92	B-30	14.5-16	2,3,4,6,7,8-HxCDF	6.10E-08	B			
Hart Crowser 1992b	Apr-92	B-31	10.5-12	2,3,4,6,7,8-HxCDF	2.1E-09	B			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	2,3,4,7,8-PeCDF	7.3E-09	J			
Hart Crowser 1992b	Apr-92	B-30	14.5-16	2,3,4,7,8-PeCDF	4.00E-09	J			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	2,3,7,8-TCDF	1.25E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	2,3,7,8-TCDF	1.7E-09				
Hart Crowser 1993a	Aug-92	B-35	28-30	2,4,5-Trichlorophenol	0.089		8,000		0.0
Hart Crowser 1993a	Aug-92	B-33	38.5-40	2,4,5-Trichlorophenol	0.076	J	8,000		0.0
Hart Crowser 1992b	Apr-92	B-21	42-43.5	2,4,5-Trichlorophenol	0.074		8,000		0.0
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	2,4,5-Trichlorophenol	0.027		8,000		0.0
Hart Crowser 1992b	Apr-92	B-27	44.5-46	2,4,5-Trichlorophenol	0.014		8,000		0.0
Hart Crowser 1992b	Apr-92	B-21	48-49.5	2,4,5-Trichlorophenol	0.013		8,000		0.0
Hart Crowser 1993a	Aug-92	B-33	38.5-40	2,4,6-Trichlorophenol	0.082	J	91		0.0
Hart Crowser 1992b	Apr-92	B-21	42-43.5	2,4,6-Trichlorophenol	0.017		91		0.0
Hart Crowser 1992b	Mar-92	B-20	7.5-9	2,4,6-Trichlorophenol	0.0099		91		0.0
Hart Crowser 1992b	Apr-92	B-21	42-43.5	2,4-Dichlorophenol	2.1		240		0.0
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	2,4-Dichlorophenol	0.68		240		0.0
Hart Crowser 1992b	Apr-92	B-27	44.5-46	2,4-Dichlorophenol	0.5		240		0.0
Hart Crowser 1992b	Apr-92	B-21	48-49.5	2,4-Dichlorophenol	0.38		240		0.0
Hart Crowser 1992b	Apr-92	B-27	47.5-49	2,4-Dichlorophenol	0.22		240		0.0
Hart Crowser 1992b	Mar-92	B-20	3-4.5	2,4-Dichlorophenol	0.21		240		0.0
Hart Crowser 1993a	Aug-92	B-32	0-3	2,4-Dichlorophenol	0.15	J	240		0.0
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	2,4-Dichlorophenol	0.11	J	240		0.0
Hart Crowser 1992b	Mar-92	B-22	6-7.5	2,4-Dichlorophenol	0.084		240		0.0
Hart Crowser 1993a	Aug-92	B-32	7-9	2,4-Dichlorophenol	0.076		240		0.0
Hart Crowser 1992b	Mar-92	B-24	10.5-12	2,4-Dichlorophenol	0.072		240		0.0
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	2,4-Dichlorophenol	0.063		240		0.0
Hart Crowser 1992b	Mar-92	B-24	7.5-9	2,4-Dichlorophenol	0.057		240		0.0
Hart Crowser 1993a	Aug-92	B-36	9-11	2,4-Dichlorophenol	0.056	J	240		0.0
Hart Crowser 1992b	Mar-92	B-22	1.5-3	2,4-Dichlorophenol	0.052		240		0.0
Hart Crowser 1992b	Mar-92	B-26	6-7.5	2,4-Dichlorophenol	0.049		240		0.0
Hart Crowser 1992b	Mar-92	B-18	3-4.5	2,4-Dichlorophenol	0.043		240		0.0
Hart Crowser 1992b	Mar-92	B-28	4.5-6	2,4-Dichlorophenol	0.037		240		0.0
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	2,4-Dichlorophenol	0.035		240		0.0
Hart Crowser 1992b	Mar-92	B-28	13.5-15	2,4-Dichlorophenol	0.028		240		0.0
Hart Crowser 1992b	**Apr-92**	**B-29 (surface fines)**	**0**	**2,4-Dimethylphenol**	**0.52**		**1,600**	**0.037**	**14**
Hart Crowser 1990b	Sep-90	B-8/S-7	18	2-Butanone	21		48,000		0.0

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Hart Crowser 1992a	Jan-91	SB-10	2.5	2-Butanone	4.6		48,000		0.0
Hart Crowser 1992a	Jan-91	SB-11	13	2-Butanone	4.3		48,000		0.0
Ecology 1993a	Jul-93	B-47	12	2-Butanone	3.5	J	48,000		0.0
Ecology 1993b	Jun-93	278089		2-Butanone	2.7	J	48,000		0.0
Hart Crowser 1990b	Oct-90	SB6-2	7.5	2-Butanone	1.1		48,000		0.0
Ecology 1993b	Jun-93	278087		2-Butanone	0.52		48,000		0.0
Ecology 1993d	Jul-93	B-52	12	2-Butanone	0.37	J	48,000		0.0
Ecology 1993b	Jun-93	278088		2-Butanone	0.35		48,000		0.0
Ecology 1993a	Jul-93	B-49	15	2-Butanone	0.23	J	48,000		0.0
Hart Crowser 1992a	Jan-91	B-15	12.5	2-Butanone	0.18		48,000		0.0
Ecology 1993d	Jul-93	B-51	12	2-Butanone	0.18		48,000		0.0
Ecology 1993a	Jul-93	B-48	12	2-Butanone	0.15		48,000		0.0
Hart Crowser 1992a	Jan-91	B-15	17	2-Butanone	0.021		48,000		0.0
Ecology 1991b	Aug-91	B-16	15	2-Butanone	0.015		48,000		0.0
Hart Crowser 1993a	**Aug-92**	**B-38**	**9-11**	**2-Methylnaphthalene**	**2.8**		**320**	**0.073**	**38**
Hart Crowser 1992a	Jan-91	SB-10	2.5	2-Methylnaphthalene	1.9		320	1.4	1.4
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**2-Methylnaphthalene**	**1.7**		**320**	**0.073**	**23**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**2-Methylnaphthalene**	**0.95**		**320**	**0.073**	**13**
Hart Crowser 1995	Jul-95	HC-GW-1		2-Methylnaphthalene	0.42		320	0.073	5.8
Hart Crowser 1992a	Jan-91	SB-10	12.5	2-Methylnaphthalene	0.3		320	0.073	4.1
Ecology 1993a	Jul-93	B-49	15	2-Methylnaphthalene	0.15	J	320	0.073	2.1
Ecology 1993a	Jul-93	B-50	10	2-Methylnaphthalene	0.13	J	320	0.073	1.8
Ecology 1993a	Jul-93	B-50	6	2-Methylnaphthalene	0.12	J	320	1.4	0.1
Hart Crowser 1992a	Jan-91	SB-11	7.5	2-Methylnaphthalene	0.12		320	0.073	1.6
Hart Crowser 1992a	Jan-91	B-15	2.5	2-Methylnaphthalene	0.087		320	1.4	0.1
Hart Crowser 1992b	Apr-92	B-30	14.5-16	4-Methyl-2-Pentanone	8.6				
Hart Crowser 1992b	Apr-92	B-30	4-5.5	4-Methyl-2-Pentanone	3.8				
Ecology 1993a	Jul-93	B-47	12	4-Methyl-2-Pentanone	1.8				
Hart Crowser 1990b	Sep-90	B-8/S-7	18	4-Methyl-2-Pentanone	1.3				
Ecology 1993b	Jun-93	278089		4-Methyl-2-Pentanone	1				
Ecology 1993a	Jul-93	B-49	15	4-Methyl-2-Pentanone	0.44				
Ecology 1993b	Jun-93	278087		4-Methyl-2-Pentanone	0.41				
Ecology 1993a	Jul-93	B-48	12	4-Methyl-2-Pentanone	0.22				
Ecology 1993d	Jul-93	B-51	12	4-Methyl-2-Pentanone	0.18				
Ecology 1993b	Jun-93	278088		4-Methyl-2-Pentanone	0.17				
Ecology 1991b	Aug-91	B-16	15	4-Methyl-2-Pentanone	0.0011	J			
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	4-Methylphenol	1.3			0.98	1.3
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	4-Methylphenol	0.45			0.98	0.5
Hart Crowser 1992a	Jan-91	B-15	17	4-Methylphenol	0.3			0.056	5.4

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Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Ecology 1993a	Jul-93	B-47	12	4-Methylphenol	0.11	J		0.056	2.0
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Acenaphthalene	0.77			1.4	0.6
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Acenaphthalene	0.43			1.4	0.3
Hart Crowser 1992a	Jan-91	SB-11	7.5	Acenaphthalene	0.14			0.069	2.0
Hart Crowser 1995	Jul-95	HC-GW-1		Acenaphthene	0.52		4,800	1.2	0.4
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Acenaphthene	0.21		4,800	1.2	0.2
Hart Crowser 1990a	May-90	B2-S3	10	Acetone	50	B	8,000		0.0
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Acetone	47	B	8,000		0.0
Hart Crowser 1990a	May-90	B3-S3	10	Acetone	38	B	8,000		0.0
Hart Crowser 1992a	Jan-91	B-15	2.5	Acetone	35	B	8,000		0.0
Hart Crowser 1990b	1990	21-C		Acetone	33		8,000		0.0
Hart Crowser 1990b	Sep-90	B-8/S-7	18	Acetone	26		8,000		0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Acetone	10	JB	8,000		0.0
Hart Crowser 1992a	Jan-91	SB-10	2.5	Acetone	10	B	8,000		0.0
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Acetone	9.4	JB	8,000		0.0
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Acetone	7.3	JB	8,000		0.0
Hart Crowser 1992a	Jan-91	SB-11	13	Acetone	4.8	B	8,000		0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Acetone	4.2	JB	8,000		0.0
Ecology 1993b	Jun-93	278089		Acetone	4		8,000		0.0
Hart Crowser 1990b	Oct-90	SB6-2	7.5	Acetone	3.7		8,000		0.0
Ecology 1993a	Jul-93	B-47	12	Acetone	3.2	J	8,000		0.0
ATI 1991a	Aug-91	B-16/S7	16	Acetone	2.5	B	8,000		0.0
Ecology 1993b	Jun-93	278087		Acetone	2.3		8,000		0.0
ATI 1991a	Aug-91	B-16/S7	16	Acetone	2.3	B	8,000		0.0
Hart Crowser 1990b	1990	15/16-N		Acetone	2.1		8,000		0.0
ATI 1991a	Aug-91	B-16/S2	10	Acetone	2.0	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-24 (DUP)	10.5-12	Acetone	1.5	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Acetone	1.4	B	8,000		0.0
Hart Crowser 1992a	Jan-91	SB-11	7.5	Acetone	1.4	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Acetone	1.3	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Acetone	1.3	JB	8,000		0.0
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Acetone	1.3	JB	8,000		0.0
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Acetone	1.3	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Acetone	1.3	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-26 (DUP)	12-13.5	Acetone	1.3	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Acetone	1.3	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Acetone	1.2	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Acetone	1.2	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Acetone	1.2	B	8,000		0.0

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Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Acetone	1.2	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Acetone	1.2	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Acetone	1.1	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Acetone	1.1	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Acetone	1.1	B	8,000		0.0
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Acetone	0.89	JB	8,000		0.0
Ecology 1993b	Jun-93	278088		Acetone	0.88		8,000		0.0
Ecology 1993a	Jul-93	B-49 (DUP)	15	Acetone	0.85	J	8,000		0.0
Ecology 1993a	Jul-93	B-49	15	Acetone	0.81		8,000		0.0
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Acetone	0.8	JB	8,000		0.0
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Acetone	0.79	JB	8,000		0.0
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Acetone	0.78	JB	8,000		0.0
Hart Crowser 1992a	Oct-91	G-3	7.5	Acetone	0.65	B	8,000		0.0
Hart Crowser 1990b	1990	SW-19E		Acetone	0.610		8,000		0.0
Ecology 1993d	Jul-93	B-51	12	Acetone	0.59		8,000		0.0
Ecology 1993a	Jul-93	B-48	12	Acetone	0.4		8,000		0.0
Hart Crowser 1990b	Sep-90	B-5/S-17	42	Acetone	0.28		8,000		0.0
Hart Crowser 1990a	May-90	B2-S3	10	Acetone	0.26	JB	8,000		0.0
Hart Crowser 1992a	Jan-91	B-15	12.5	Acetone	0.24		8,000		0.0
Ecology 1991b	Aug-91	B-16	15	Acetone	0.19		8,000		0.0
Hart Crowser 1990b	1990	7/8-S		Acetone	0.130		8,000		0.0
Hart Crowser 1990b	1990	5/6-N		Acetone	0.120		8,000		0.0
Hart Crowser 1990b	Sep-90	B-5/S-2	5	Acetone	0.12		8,000		0.0
Hart Crowser 1990b	Oct-90	B-13/S-4	10	Acetone	0.1		8,000		0.0
Ecology 1993d	Jul-93	B-52	12	Acetone	0.1		8,000		0.0
Hart Crowser 1992a	Jan-91	SB-12	13	Acetone	0.082	B	8,000		0.0
Hart Crowser 1992a	Jan-91	B-15	17	Acetone	0.045		8,000		0.0
Ecology 1991b	Aug-91	B-16	13.5	Acetone	0.043		8,000		0.0
Hart Crowser 1990b	Sep-90	B-6/S-11	27	Acetone	0.03		8,000		0.0
Hart Crowser 1990b	Sep-90	B-6/S-11	27	Acetone	0.03		8,000		0.0
Hart Crowser 1990b	Sep-90	B-9/S-10	25	Acetone	0.030		8,000		0.0
Hart Crowser 1990b	Sep-90	B-9/S-17	42	Acetone	0.029		8,000		0.0
Hart Crowser 1990b	Sep-90	B-9/S-6	15	Acetone	0.029		8,000		0.0
Hart Crowser 1990b	Sep-90	B-5/S-17	42	Acetone	0.028		8,000		0.0
Ecology 1993b	Jun-93	278090		Acetone	0.026		8,000		0.0
Hart Crowser 1992a	Jan-91	SB-12	7.5	Acetone	0.025	B	8,000		0.0
Ecology 1993b	Jun-93	278090 (DUP)		Acetone	0.019		8,000		0.0
Hart Crowser 1992a	Jan-91	SB-12	2.5	Acetone	0.013		8,000		0.0
Hart Crowser 1990b	Sep-90	B-5/S-2	5	Acetone	0.012		8,000		0.0

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Hart Crowser 1992b	Apr-92	B-30	4-5.5	Aluminum	16,000				
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Aluminum	14,000				
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Aluminum	13,000				
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Aluminum	12,000				
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Aluminum	11,000				
Hart Crowser 1993a	Aug-92	B-32	7-9	Aluminum	11,000				
Hart Crowser 1993a	Aug-92	B-37	2-4	Aluminum	11,000				
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Aluminum	11,000				
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Aluminum	9,700				
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Aluminum	9,100				
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Aluminum	8,700				
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Aluminum	8,600				
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Aluminum	8,500				
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Aluminum	8,500				
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Aluminum	8,000				
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Aluminum	7,300				
Hart Crowser 1993a	Aug-92	B-38	9-11	Aluminum	7,300				
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Aluminum	7,100				
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Aluminum	6,900				
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Aluminum	6,900				
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Aluminum	6,700				
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Aluminum	6,700				
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Aluminum	6,600				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Aluminum	6,100				
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Aluminum	5,600				
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Aluminum	5,400				
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Aluminum	5,400				
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Aluminum	5,400				
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Aluminum	5,300				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Aluminum	5,200				
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Aluminum	4,900				
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Aluminum	4,900				
Hart Crowser 1993a	Aug-92	B-36	9-11	Aluminum	4,700				
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Aluminum	4,600				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Aluminum	4,600				
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Aluminum	4,500				
Hart Crowser 1993a	Aug-92	B-35	8-10	Aluminum	4,500				
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Aluminum	4,400				
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Aluminum	4,400				

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Hart Crowser 1993a	Aug-92	B-32	0-3	Aluminum	4,400				
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Aluminum	4,300				
Hart Crowser 1993a	Aug-92	B-37	22-24	Aluminum	4,200				
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Aluminum	4,100				
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Aluminum	4,100				
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Aluminum	3,900				
Hart Crowser 1993a	Aug-92	B-35	28-30	Aluminum	3,900				
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Aluminum	3,800				
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Aluminum	3,800				
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Aluminum	3,700				
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Aluminum	3,500				
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Aluminum	3,500				
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Aluminum	3,500				
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Aluminum	3,500				
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Aluminum	3,400				
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Aluminum	3,400				
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Aluminum	3,300				
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Aluminum	3,300				
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Aluminum	3,100				
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Aluminum	3,000				
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Aluminum	2,900				
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Aluminum	2,800				
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Aluminum	2,500				
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Aluminum	2,100				
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Aluminum	1,400				
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Anthracene	0.58		2,400		0.0
Hart Crowser 1995	Jul-95	HC-GW-1		Anthracene	0.18	J	2,400		0.0
Ecology 1993a	Jul-93	B-49	15	Anthracene	0.17	J	2,400		0.0
Ecology 1993a	Jul-93	B-50	6	Anthracene	0.15	J	2,400		0.0
Ecology 1993a	Jul-93	B-50	10	Anthracene	0.1	J	2,400		0.0
Hart Crowser 1992a	Jan-91	SB-11	7.5	Anthracene	0.054		2,400		0.0
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Arsenic	51		20	12,000	2.6
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Arsenic	43		20	12,000	2.2
ATI 1991a	Aug-91	B-17/S1	18	Arsenic	16		20	590	0.8
ATI 1991a	Aug-91	B-16/S2	10	Arsenic	14		20	590	0.7
Hart Crowser 1992a	Jan-91	SB-10	2.5	Arsenic	9.4		20	12,000	0.5
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Arsenic	8.9		20	12,000	0.4
ATI 1991a	Aug-91	B-16/S7	16	Arsenic	7.6		20	590	0.4
Hart Crowser 1992a	Jan-91	B-15	17	Arsenic	7.2		20	590	0.4

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Hart Crowser 1992b	Mar-92	B-28	7.5-9	Arsenic	6.9		20	590	0.3
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Arsenic	6.9		20	12,000	0.3
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Arsenic	6.8		20	12,000	0.3
ATI 1991a	Aug-91	B-17/S2	22	Arsenic	6.6		20	590	0.3
ATI 1991a	Aug-91	B-17/S6	37	Arsenic	6.6		20	590	0.3
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Arsenic	6.4		20	12,000	0.3
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Arsenic	6.2		20	12,000	0.3
ATI 1991a	Aug-91	B-17/S7	39	Arsenic	5.8		20	590	0.3
Hart Crowser 1992a	Jan-91	B-15	2.5	Arsenic	5.6		20	12,000	0.3
ATI 1991a	Aug-91	B-17/S12	46	Arsenic	5.0		20	590	0.3
Hart Crowser 1992a	Jan-91	SB-12	13	Arsenic	5		20	590	0.3
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Arsenic	4.9		20	12,000	0.2
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Arsenic	4.8		20	12,000	0.2
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Arsenic	4.8		20	12,000	0.2
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Arsenic	4.7		20	12,000	0.2
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Arsenic	3.9		20	12,000	0.2
Hart Crowser 1993a	Aug-92	B-32	7-9	Arsenic	3.4		20	590	0.2
Hart Crowser 1992a	Jan-91	SB-11	13	Arsenic	3.4		20	590	0.2
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Arsenic	3.3		20	12,000	0.2
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Arsenic	3.2		20	590	0.2
Hart Crowser 1993a	Aug-92	B-35	8-10	Arsenic	3.2		20	590	0.2
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Arsenic	3.1		20	12,000	0.2
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Arsenic	3		20	12,000	0.2
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Arsenic	2.9		20	590	0.1
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Arsenic	2.8		20	12,000	0.1
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Arsenic	2.8		20	590	0.1
Hart Crowser 1993a	Aug-92	B-32	0-3	Arsenic	2.8		20	12,000	0.1
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Arsenic	2.7		20	590	0.1
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Arsenic	2.6		20	590	0.1
Hart Crowser 1992a	Jan-91	SB-12	2.5	Arsenic	2.6		20	12,000	0.1
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Arsenic	2.5		20	590	0.1
Hart Crowser 1992a	Jan-91	SB-10	17	Arsenic	2.5		20	590	0.1
Hart Crowser 1992a	Jan-91	SB-11	2.5	Arsenic	2.5		20	12,000	0.1
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Arsenic	2.3		20	590	0.1
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Arsenic	2.3		20	590	0.1
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Arsenic	2.1		20	590	0.1
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Arsenic	2		20	590	0.1
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Arsenic	2		20	12,000	0.1
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Arsenic	2		20	590	0.1

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Arsenic	1.9		20	12,000	0.1
Hart Crowser 1993a	Aug-92	B-35	28-30	Arsenic	1.9		20	590	0.1
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Arsenic	1.8		20	12,000	0.1
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Arsenic	1.8		20	590	0.1
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Arsenic	1.5		20	590	0.1
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Arsenic	1.4		20	590	0.1
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Arsenic	1.3		20	590	0.1
Hart Crowser 1992a	Jan-91	SB-12	7.5	Arsenic	1.3		20	590	0.1
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Arsenic	1.2		20	590	0.1
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Arsenic	1.2		20	590	0.1
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Arsenic	1.2		20	590	0.1
Hart Crowser 1993a	Aug-92	B-37	2-4	Arsenic	1.2		20	12,000	0.1
Hart Crowser 1993a	Aug-92	B-37	22-24	Arsenic	1.2		20	590	0.1
Hart Crowser 1993a	Aug-92	B-38	9-11	Arsenic	1.2		20	590	0.1
Hart Crowser 1992a	Jan-91	SB-10	12.5	Arsenic	1.2		20	590	0.1
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Arsenic	1.1		20	590	0.1
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Arsenic	1.1		20	590	0.1
Hart Crowser 1992a	Oct-91	H-3	7.5	Arsenic	1.0		20	590	0.1
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Arsenic	0.97		20	590	0.0
Hart Crowser 1993a	Aug-92	B-36	9-11	Arsenic	0.95		20	590	0.0
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Arsenic	0.92		20	590	0.0
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Arsenic	0.89		20	590	0.0
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Arsenic	0.86		20	590	0.0
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Arsenic	0.81		20	590	0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Arsenic	0.71		20	590	0.0
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Arsenic	0.71		20	590	0.0
Hart Crowser 1992a	Jan-91	SB-11	7.5	Arsenic	0.7		20	590	0.0
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Arsenic	0.69		20	590	0.0
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Arsenic	0.69		20	590	0.0
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Arsenic	0.63		20	590	0.0
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Arsenic	0.63		20	590	0.0
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Arsenic	0.6		20	590	0.0
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Arsenic	0.57		20	590	0.0
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Arsenic	0.49		20	590	0.0
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Arsenic	0.46		20	590	0.0
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Barium	1,700		16,000		0.1
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Barium	110		16,000		0.0
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Barium	110		16,000		0.0
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Barium	88		16,000		0.0

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Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Barium	87		16,000		0.0
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Barium	79		16,000		0.0
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Barium	76		16,000		0.0
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Barium	63		16,000		0.0
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Barium	56		16,000		0.0
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Barium	53		16,000		0.0
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Barium	48		16,000		0.0
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Barium	47		16,000		0.0
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Barium	41		16,000		0.0
Hart Crowser 1993a	Aug-92	B-32	7-9	Barium	40		16,000		0.0
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Barium	35		16,000		0.0
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Barium	35		16,000		0.0
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Barium	31		16,000		0.0
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Barium	29		16,000		0.0
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Barium	28		16,000		0.0
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Barium	27		16,000		0.0
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Barium	27		16,000		0.0
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Barium	26		16,000		0.0
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Barium	26		16,000		0.0
Hart Crowser 1993a	Aug-92	B-32	0-3	Barium	26		16,000		0.0
Hart Crowser 1993a	Aug-92	B-37	2-4	Barium	26		16,000		0.0
Hart Crowser 1993a	Aug-92	B-38	9-11	Barium	26		16,000		0.0
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Barium	25		16,000		0.0
Hart Crowser 1993a	Aug-92	B-35	28-30	Barium	20		16,000		0.0
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Barium	19		16,000		0.0
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Barium	19		16,000		0.0
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Barium	19		16,000		0.0
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Barium	18		16,000		0.0
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Barium	18		16,000		0.0
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Barium	17		16,000		0.0
Hart Crowser 1993a	Aug-92	B-37	22-24	Barium	17		16,000		0.0
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Barium	16		16,000		0.0
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Barium	16		16,000		0.0
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Barium	15		16,000		0.0
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Barium	15		16,000		0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Barium	15		16,000		0.0
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Barium	14		16,000		0.0
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Barium	14		16,000		0.0
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Barium	14		16,000		0.0

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Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1993a	Aug-92	B-35	8-10	Barium	14		16,000		0.0
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Barium	13		16,000		0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Barium	13		16,000		0.0
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Barium	13		16,000		0.0
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Barium	12		16,000		0.0
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Barium	12		16,000		0.0
Hart Crowser 1993a	Aug-92	B-36	9-11	Barium	12		16,000		0.0
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Barium	11		16,000		0.0
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Barium	10		16,000		0.0
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Barium	10		16,000		0.0
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Barium	10		16,000		0.0
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Barium	9.9		16,000		0.0
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Barium	9.8		16,000		0.0
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Barium	9.7		16,000		0.0
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Barium	9.7		16,000		0.0
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Barium	9.4		16,000		0.0
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Barium	9		16,000		0.0
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Barium	8.5		16,000		0.0
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Barium	8		16,000		0.0
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Barium	7.5		16,000		0.0
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Barium	7.4		16,000		0.0
Hart Crowser 1990b	**1990**	**25-S**		**Benzene**	**12**		**0.03**		**400**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Benzene**	**12**		**0.03**		**400**
Hart Crowser 1990b	**1990**	**PT-2**		**Benzene**	**3.6**		**0.03**		**120**
Hart Crowser 1990b	**1990**	**PT-3**		**Benzene**	**3**		**0.03**		**100**
Hart Crowser 1990a	May-90	B2-S3	10	Benzene	0.17		0.03		5.7
Hart Crowser 1992a	Jan-91	SB-12	13	Benzene	0.15		0.03		5.0
TV-F&S 2000a	Jul-99	TW-1	11.0	Benzene	0.14		0.03		4.7
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Benzene	0.068		0.03		2.3
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Benzo(a)anthracene	0.79			5.4	0.1
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Benzo(a)anthracene	0.5			5.4	0.1
Hart Crowser 1992a	Oct-91	Comp A	0-1	Benzo(a)anthracene	0.22	J		5.4	0.0
Hart Crowser 1995	Jul-95	HC-GW-1		Benzo(a)anthracene	0.16	J		0.27	0.6
Ecology 1993a	Jul-93	B-49	15	Benzo(a)anthracene	0.15	J		0.27	0.6
Ecology 1993a	Jul-93	B-50	6	Benzo(a)anthracene	0.14	J		5.4	0.0
Hart Crowser 1992a	Oct-91	Comp F	0-1	Benzo(a)anthracene	0.14	J		5.4	0.0
Ecology 1993a	Jul-93	B-50	10	Benzo(a)anthracene	0.12	J		0.27	0.4
Hart Crowser 1992b	**Mar-92**	**B-22**	**1.5-3**	**Benzo(a)pyrene**	**1**		**0.1**	**4.2**	**10**
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Benzo(a)pyrene	0.59		0.1	4.2	5.9

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Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Benzo(a)pyrene	0.51		0.1	4.2	5.1
Hart Crowser 1992a	Oct-91	Comp F	0-1	Benzo(a)pyrene	0.13	J	0.1	4.2	1.3
Ecology 1993a	Jul-93	B-49	15	Benzo(a)pyrene	0.063	J	0.1	0.21	0.6
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Benzo(b)fluoranthene	0.82			9.0	0.1
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Benzo(b)fluoranthene	0.73			9.0	0.1
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Benzo(b)fluoranthene	0.7			9.0	0.1
Ecology 1993a	Jul-93	B-49	15	Benzo(b)fluoranthene	0.13	J		0.45	0.3
Hart Crowser 1995	Jul-95	HC-GW-1		Benzo(b)fluoranthene	0.13	J		0.45	0.3
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Benzo(g,h,i)perylene	0.58			1.6	0.4
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Benzo(g,h,i)perylene	0.49			1.6	0.3
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Benzo(k)fluoranthene	0.52			9.0	0.1
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Benzo(k)fluoranthene	0.47			9.0	0.1
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Benzoic Acid	3.2		320,000	9.6	0.3
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**Bis(2-Ethylhexyl)Phthalate**	**140**	**B**	**71**	**1.6**	**88**
Hart Crowser 1992b	**Mar-92**	**B-24**	**7.5-9**	**Bis(2-Ethylhexyl)Phthalate**	**110**		**71**	**0.078**	**1,410**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Bis(2-Ethylhexyl)Phthalate**	**71**	**B**	**71**	**0.078**	**910**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**12.5**	**Bis(2-Ethylhexyl)Phthalate**	**25**	**B**	**71**	**0.078**	**321**
Hart Crowser 1995	**Jul-95**	**HC-GW-1**		**Bis(2-Ethylhexyl)Phthalate**	**13**		**71**	**0.078**	**167**
Hart Crowser 1992a	**Jan-91**	**SB-11**	**7.5**	**Bis(2-Ethylhexyl)Phthalate**	**11**	**B**	**71**	**0.078**	**141**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Bis(2-Ethylhexyl)Phthalate**	**10**		**71**	**0.078**	**128**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Bis(2-Ethylhexyl)Phthalate**	**6.6**		**71**	**0.078**	**85**
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Bis(2-Ethylhexyl)Phthalate	6.4		71	1.6	4.0
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Bis(2-Ethylhexyl)Phthalate**	**6.2**		**71**	**0.078**	**79**
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Bis(2-Ethylhexyl)Phthalate	2.5		71	1.6	1.6
Hart Crowser 1992a	Oct-91	Comp A	0-1	Bis(2-Ethylhexyl)Phthalate	1.5		71	1.6	0.9
Hart Crowser 1992a	Oct-91	Comp B	0-1	Bis(2-Ethylhexyl)Phthalate	1.5		71	1.6	0.9
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Bis(2-Ethylhexyl)Phthalate	1.4		71	1.6	0.9
Ecology 1993a	Jul-93	B-50	6	Bis(2-Ethylhexyl)Phthalate	1.3		71	1.6	0.8
Ecology 1993a	**Jul-93**	**B-50**	**10**	**Bis(2-Ethylhexyl)Phthalate**	**1.3**		**71**	**0.078**	**17**
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Bis(2-Ethylhexyl)Phthalate	0.87		71	1.6	0.5
Hart Crowser 1992a	Jan-91	B-15	2.5	Bis(2-Ethylhexyl)Phthalate	0.85	B	71	1.6	0.5
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Bis(2-Ethylhexyl)Phthalate	0.83		71	1.6	0.5
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Bis(2-Ethylhexyl)Phthalate	0.74		71	1.6	0.5
Ecology 1993b	Jun-93	278086		Bis(2-Ethylhexyl)Phthalate	0.54		71	0.078	6.9
Hart Crowser 1992a	Jan-91	SB-11	2.5	Bis(2-Ethylhexyl)Phthalate	0.39	B	71	1.6	0.2
ATI 1991a	Aug-91	B-16/S2	10	Bis(2-Ethylhexyl)Phthalate	0.35		71	0.078	4.5
Ecology 1993b	Jun-93	278087		Bis(2-Ethylhexyl)Phthalate	0.34	J	71	0.078	4.4
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Bis(2-Ethylhexyl)Phthalate	0.31		71	0.078	4.0
Hart Crowser 1992a	Oct-91	Comp F	0-1	Bis(2-Ethylhexyl)Phthalate	0.30		71	1.6	0.2

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Hart Crowser 1992a	Jan-91	SB-12	13	Bis(2-Ethylhexyl)Phthalate	0.2	B	71	0.078	2.6
Hart Crowser 1992a	Oct-91	Comp D	0-1	Bis(2-Ethylhexyl)Phthalate	0.19	J	71	1.6	0.1
Hart Crowser 1992a	Oct-91	G-3	7.5	Bis(2-Ethylhexyl)Phthalate	0.18		71	0.078	2.3
Hart Crowser 1992a	Oct-91	Comp C	0-1	Bis(2-Ethylhexyl)Phthalate	0.17	J	71	1.6	0.1
Ecology 1993b	Jun-93	278088		Bis(2-Ethylhexyl)Phthalate	0.15	J	71	0.078	1.9
Ecology 1993a	Jul-93	B-49	15	Bis(2-Ethylhexyl)Phthalate	0.12	J	71	0.078	1.5
Ecology 1993a	Jul-93	B-47	12	Bis(2-Ethylhexyl)Phthalate	0.075	J	71	0.078	0.96
Hart Crowser 1992a	Jan-91	SB-12	2.5	Bis(2-Ethylhexyl)Phthalate	0.071	B	71	1.6	0.0
TV-F&S 2000a	Feb-99	B-53	14	Bis(2-Ethylhexyl)Phthalate	0.067		71	0.078	0.9
Hart Crowser 1992a	Jan-91	SB-11	13	Bis(2-Ethylhexyl)Phthalate	0.066	B	71	0.078	0.8
Hart Crowser 1992a	Jan-91	B-15	17	Bis(2-Ethylhexyl)Phthalate	0.065	B	71	0.078	0.8
Hart Crowser 1992a	Jan-91	SB-12	7.5	Bis(2-Ethylhexyl)Phthalate	0.057	B	71	0.078	0.7
Ecology 1993d	Jul-93	B-52	12	Bis(2-Ethylhexyl)Phthalate	0.056	J	71	0.078	0.7
TV-F&S 2000a	Feb-99	B-55	14.5	Bis(2-Ethylhexyl)Phthalate	0.052		71	0.078	0.7
Hart Crowser 1992a	Jan-91	B-15	12.5	Bis(2-Ethylhexyl)Phthalate	0.042	B	71	0.078	0.5
Hart Crowser 1993a	Aug-92	B-37	2-4	Butylbenzylphthalate	6.9		16,000	1.3	5.3
Hart Crowser 1992a	Jan-91	SB-10	2.5	Butylbenzylphthalate	4.1		16,000	1.3	3.2
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Butylbenzylphthalate**	**1.3**		**16,000**	**0.066**	**20**
Hart Crowser 1992a	Jan-91	SB-10	12.5	Butylbenzylphthalate	0.42		16,000	0.066	6.4
Hart Crowser 1992a	Jan-91	SB-11	7.5	Butylbenzylphthalate	0.05		16,000	0.066	0.8
Hart Crowser 1992a	Jan-91	SB-10	2.5	Cadmium	4.3		2	34	2.2
Hart Crowser 1992a	Jan-91	B-15	17	Cadmium	3.2		2	1.7	1.9
Hart Crowser 1992a	Jan-91	B-15	2.5	Cadmium	2.6		2	34	1.3
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Cadmium	2.3		2	34	1.2
Hart Crowser 1992a	Jan-91	SB-12	13	Cadmium	2.3		2	1.7	1.4
Hart Crowser 1992a	Jan-91	SB-11	13	Cadmium	2		2	1.7	1.2
Hart Crowser 1992a	Jan-91	B-15	12.5	Cadmium	1.4		2	1.7	0.8
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Cadmium	1.4		2	34	0.7
Hart Crowser 1992a	Oct-91	H-3	7.5	Cadmium	1.4		2	1.7	0.8
Hart Crowser 1992a	Jan-91	SB-10	12.5	Cadmium	1.4		2	1.7	0.8
Hart Crowser 1992a	Jan-91	SB-10	17	Cadmium	1.3		2	1.7	0.8
Hart Crowser 1992a	Jan-91	SB-11	2.5	Cadmium	1.2		2	34	0.6
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Cadmium	1.1		2	34	0.6
Hart Crowser 1992a	Jan-91	SB-12	2.5	Cadmium	0.9		2	34	0.5
ATI 1991a	Aug-91	B-16/S2	10	Cadmium	0.89		2	1.7	0.5
Hart Crowser 1992a	Jan-91	SB-12	7.5	Cadmium	0.8		2	1.7	0.5
ATI 1991a	Aug-91	B-17/S6	37	Cadmium	0.77		2	1.7	0.5
ATI 1991a	Aug-91	B-17/S1	18	Cadmium	0.76		2	1.7	0.4
ATI 1991a	Aug-91	B-17/S7	39	Cadmium	0.73		2	1.7	0.4

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Cadmium	0.71		2	34	0.4
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Cadmium	0.71		2	1.7	0.4
Hart Crowser 1992a	Jan-91	SB-11	7.5	Cadmium	0.7		2	1.7	0.4
Ecology 1991a	Aug-91	B-16	13.5	Cadmium	0.69	P	2	1.7	0.4
ATI 1991a	Aug-91	B-17/S2	22	Cadmium	0.68		2	1.7	0.4
ATI 1991a	Aug-91	B-17/S12	46	Cadmium	0.66		2	1.7	0.4
ATI 1991a	Aug-91	B-16/S7	16	Cadmium	0.56		2	1.7	0.3
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Cadmium	0.5		2	34	0.3
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Cadmium	0.47		2	34	0.2
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Cadmium	0.38		2	1.7	0.2
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Cadmium	0.37		2	34	0.2
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Cadmium	0.35		2	34	0.2
Ecology 1991a	Aug-91	B-16	15	Cadmium	0.33	P	2	1.7	0.2
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Cadmium	0.25		2	34	0.1
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Cadmium	0.23		2	1.7	0.1
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Cadmium	0.22		2	34	0.1
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Cadmium	0.22		2	1.7	0.1
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Cadmium	0.15		2	1.7	0.1
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Cadmium	0.13		2	34	0.1
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Cadmium	0.13		2	1.7	0.1
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Cadmium	0.12		2	1.7	0.1
Hart Crowser 1993a	Aug-92	B-32	0-3	Cadmium	0.12		2	34	0.1
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Cadmium	0.11		2	1.7	0.1
Hart Crowser 1993a	Aug-92	B-36	9-11	Cadmium	0.096		2	1.7	0.1
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Cadmium	0.094		2	34	0.0
Hart Crowser 1993a	Aug-92	B-35	8-10	Cadmium	0.089		2	1.7	0.1
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Cadmium	0.078		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Cadmium	0.073		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Cadmium	0.071		2	34	0.0
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Cadmium	0.071		2	34	0.0
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Cadmium	0.068		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Cadmium	0.068		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Cadmium	0.067		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Cadmium	0.063		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Cadmium	0.062		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Cadmium	0.059		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Cadmium	0.055		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Cadmium	0.055		2	34	0.0
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Cadmium	0.052		2	1.7	0.0

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Cadmium	0.052		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Cadmium	0.043		2	1.7	0.0
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Cadmium	0.042		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Cadmium	0.041		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Cadmium	0.041		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Cadmium	0.041		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Cadmium	0.04		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Cadmium	0.04		2	1.7	0.0
Hart Crowser 1993a	Aug-92	B-38	9-11	Cadmium	0.04		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Cadmium	0.038		2	34	0.0
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Cadmium	0.036		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Cadmium	0.034		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Cadmium	0.032		2	34	0.0
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Cadmium	0.032		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Cadmium	0.031		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Cadmium	0.03		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Cadmium	0.029		2	1.7	0.0
Hart Crowser 1993a	Aug-92	B-35	28-30	Cadmium	0.029		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Cadmium	0.028		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Cadmium	0.026		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Cadmium	0.023		2	1.7	0.0
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Cadmium	0.018		2	34	0.0
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Cadmium	0.017		2	1.7	0.0
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Cadmium	0.015		2	1.7	0.0
Hart Crowser 1993a	Aug-92	B-37	2-4	Cadmium	0.013		2	34	0.0
Ecology 1993a	Jul-93	B-49	15	Carbazole	0.08	J	50		0.0
Ecology 1993d	Jul-93	B-51	12	Carbon Disulfide	0.012	J	8,000		0.0
Hart Crowser 1992a	Jan-91	SB-12	13	Chlorobenzene	0.031		1,600		0.0
Ecology 1993a	Jul-93	B-49	15	Chlorobenzene	0.027	J	1,600		0.0
Hart Crowser 1990a	May-89	B-1		Chloroform	0.001		160		0.0
Ecology 1991a	Aug-91	B-16	13.5	Chromium	57.7		19	270	3.0
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Chromium	42		19	5,400	2.2
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Chromium	25		19	5,400	1.3
Ecology 1991a	Aug-91	B-16	15	Chromium	21.0		19	270	1.1
Hart Crowser 1992a	Jan-91	B-15	17	Chromium	20		19	270	1.1
Hart Crowser 1992a	Jan-91	B-15	2.5	Chromium	18		19	5,400	0.9
ATI 1991a	Aug-91	B-16/S2	10	Chromium	18		19	270	0.9
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Chromium	18		19	270	0.9
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Chromium	17		19	270	0.9

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Chromium	16		19	5,400	0.8
Hart Crowser 1993a	Aug-92	B-32	7-9	Chromium	15		19	270	0.8
Hart Crowser 1992a	Jan-91	SB-10	2.5	Chromium	15		19	5,400	0.8
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Chromium	14		19	5,400	0.7
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Chromium	14		19	5,400	0.7
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Chromium	14		19	5,400	0.7
Hart Crowser 1992a	Jan-91	SB-12	2.5	Chromium	14		19	5,400	0.7
Hart Crowser 1992a	Oct-91	H-3	7.5	Chromium	13.3		19	270	0.7
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Chromium	13		19	5,400	0.7
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Chromium	13		19	5,400	0.7
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Chromium	13		19	5,400	0.7
Hart Crowser 1993a	Aug-92	B-37	2-4	Chromium	13		19	5,400	0.7
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Chromium	13		19	5,400	0.7
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Chromium	12		19	5,400	0.6
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Chromium	12		19	5,400	0.6
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Chromium	12		19	5,400	0.6
Hart Crowser 1992a	Jan-91	SB-11	13	Chromium	12		19	270	0.6
Hart Crowser 1992a	Jan-91	SB-12	7.5	Chromium	12		19	270	0.6
Hart Crowser 1992a	Jan-91	SB-12	13	Chromium	12		19	270	0.6
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Chromium	11		19	5,400	0.6
Hart Crowser 1992a	Jan-91	SB-10	17	Chromium	11		19	270	0.6
ATI 1991a	Aug-91	B-17/S1	18	Chromium	10		19	270	0.5
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Chromium	10		19	270	0.5
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Chromium	10		19	270	0.5
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Chromium	10		19	270	0.5
Hart Crowser 1993a	Aug-92	B-38	9-11	Chromium	10		19	270	0.5
Hart Crowser 1992a	Jan-91	SB-10	12.5	Chromium	10		19	270	0.5
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Chromium	9.6		19	270	0.5
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Chromium	9.6		19	270	0.5
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Chromium	9.3		19	270	0.5
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Chromium	9		19	5,400	0.5
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Chromium	9		19	270	0.5
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Chromium	9		19	270	0.5
Hart Crowser 1992a	Jan-91	SB-11	2.5	Chromium	9		19	5,400	0.5
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Chromium	8.9		19	270	0.5
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Chromium	8.9		19	270	0.5
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Chromium	8.7		19	5,400	0.5
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Chromium	8.7		19	270	0.5
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Chromium	8.4		19	270	0.4

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1993a	Aug-92	B-32	0-3	Chromium	8.2		19	5,400	0.4
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Chromium	8		19	270	0.4
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Chromium	7.7		19	270	0.4
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Chromium	7.6		19	270	0.4
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Chromium	7.5		19	270	0.4
ATI 1991a	Aug-91	B-16/S7	16	Chromium	7.3		19	270	0.4
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Chromium	7.3		19	270	0.4
Hart Crowser 1992a	Jan-91	B-15	12.5	Chromium	7		19	270	0.4
Hart Crowser 1992a	Jan-91	SB-11	7.5	Chromium	7		19	270	0.4
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Chromium	6.6		19	5,400	0.3
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Chromium	6.6		19	270	0.3
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Chromium	6.5		19	270	0.3
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Chromium	6.5		19	270	0.3
Hart Crowser 1993a	Aug-92	B-35	28-30	Chromium	6.4		19	270	0.3
Hart Crowser 1993a	Aug-92	B-36	9-11	Chromium	6.4		19	270	0.3
Hart Crowser 1993a	Aug-92	B-37	22-24	Chromium	6.4		19	270	0.3
ATI 1991a	Aug-91	B-17/S2	22	Chromium	6.2		19	270	0.3
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Chromium	6.1		19	5,400	0.3
Hart Crowser 1993a	Aug-92	B-35	8-10	Chromium	6.1		19	270	0.3
ATI 1991a	Aug-91	B-17/S6	37	Chromium	6.0		19	270	0.3
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Chromium	6		19	270	0.3
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Chromium	5.8		19	270	0.3
ATI 1991a	Aug-91	B-17/S12	46	Chromium	5.7		19	270	0.3
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Chromium	5.5		19	270	0.3
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Chromium	5.5		19	270	0.3
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Chromium	5.5		19	270	0.3
ATI 1991a	Aug-91	B-17/S7	39	Chromium	5.4		19	270	0.3
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Chromium	5.4		19	270	0.3
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Chromium	5.2		19	270	0.3
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Chromium	5		19	270	0.3
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Chromium	4.9		19	270	0.3
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Chromium	4.6		19	270	0.2
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Chromium	4.6		19	270	0.2
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Chromium	4.3		19	270	0.2
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Chromium	4.2		19	5,400	0.2
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Chromium	3.6		19	270	0.2
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Chromium	3.6		19	270	0.2
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Chromium	3.3		19	270	0.2
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Chrysene	1			9.2	0.1

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Chemicals Detected in Soil
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Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Chrysene	0.69			9.2	0.1
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Chrysene	0.61			9.2	0.1
Hart Crowser 1992a	Oct-91	Comp A	0-1	Chrysene	0.25	J		9.2	0.0
Hart Crowser 1995	Jul-95	HC-GW-1		Chrysene	0.19	J		0.46	0.4
Ecology 1993a	Jul-93	B-49	15	Chrysene	0.14	J		0.46	0.3
Hart Crowser 1992a	Oct-91	Comp F	0-1	Chrysene	0.14	J		9.2	0.0
Ecology 1993a	Jul-93	B-50	6	Chrysene	0.13	J		9.2	0.0
Ecology 1993a	Jul-93	B-50	10	Chrysene	0.11	J		0.46	0.2
Hart Crowser 1990b	1990	SB3/S2		cis-1,2-DCA	6.7				
Hart Crowser 1990b	Oct-90	SB4/S1	1.5	cis-1,2-DCA	0.69				
Hart Crowser 1990b	1990	25-S		cis-1,2-DCE	24		800		0.0
Hart Crowser 1993a	Jun-93	B-44	14	cis-1,2-DCE	9.9		800		0.0
Hart Crowser 1992a	Jan-91	SB-10	2.5	cis-1,2-DCE	9.8		800		0.0
Hart Crowser 1993a	Jul-93	B-50	11	cis-1,2-DCE	7.9		800		0.0
Hart Crowser 1993a	Jul-93	B-47	6	cis-1,2-DCE	5.1		800		0.0
Hart Crowser 1993a	Jun-93	B-43 (DUP)	12	cis-1,2-DCE	4.7		800		0.0
Hart Crowser 1993a	Jul-93	B-50	12	cis-1,2-DCE	4.5		800		0.0
Hart Crowser 1993a	Jun-93	B-43	12	cis-1,2-DCE	4.4		800		0.0
Hart Crowser 1995	Jul-95	HC-GW-1		cis-1,2-DCE	3.4		800		0.0
Hart Crowser 1995	Jul-95	HC-GW-1 (DUP)		cis-1,2-DCE	2.4	J	800		0.0
Hart Crowser 1993a	Jul-93	B-48 (DUP)	12	cis-1,2-DCE	2		800		0.0
TV-F&S 2000a	Jul-99	B-58	12.5	cis-1,2-DCE	2.00		800		0.0
Hart Crowser 1993a	Jul-93	B-48	12	cis-1,2-DCE	1.9		800		0.0
Hart Crowser 1993a	Jun-93	B-43	10	cis-1,2-DCE	1.3		800		0.0
Hart Crowser 1992a	Jan-91	SB-12	2.5	cis-1,2-DCE	0.88		800		0.0
Hart Crowser 1993a	Jul-93	B-49	12	cis-1,2-DCE	0.85		800		0.0
Hart Crowser 1992a	Jan-91	SB-11	2.5	cis-1,2-DCE	0.78		800		0.0
Hart Crowser 1993a	Jun-93	B-46	10	cis-1,2-DCE	0.75		800		0.0
Hart Crowser 1993a	Jun-93	B-45	44	cis-1,2-DCE	0.55		800		0.0
TV-F&S 2000a	Jul-99	TW-3	13.0	cis-1,2-DCE	0.45		800		0.0
TV-F&S 2000a	Jul-99	TW-1	11.0	cis-1,2-DCE	0.38		800		0.0
TV-F&S 2000a	Jul-99	B-59	30.0	cis-1,2-DCE	0.30	J	800		0.0
Hart Crowser 1992a	Jan-91	SB-11	13	cis-1,2-DCE	0.22		800		0.0
Hart Crowser 1992a	Jan-91	B-15	17	cis-1,2-DCE	0.11		800		0.0
TV-F&S 2000a	Jul-99	B-61	43.5	cis-1,2-DCE	0.088		800		0.0
Hart Crowser 1990b	Sep-90	B-9/S-6	15	cis-1,2-DCE	0.046	B	800		0.0
Hart Crowser 1990b	Sep-90	B-8/S-7	18	cis-1,2-DCE	0.020		800		0.0
Hart Crowser 1990b	1990	SW-19E		cis-1,2-DCE	0.018		800		0.0
Hart Crowser 1992a	Jan-91	SB-12	13	cis-1,2-DCE	0.017		800		0.0

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	1990	7/8-S		cis-1,2-DCE	0.010		800		0.0
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Copper	240		3,000	780	0.3
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Copper	210		3,000	780	0.3
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Copper	140		3,000	780	0.2
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Copper	140		3,000	780	0.2
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Copper	130		3,000	780	0.2
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Copper	100		3,000	780	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Copper	56		3,000	780	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Copper	55		3,000	780	0.1
Hart Crowser 1992a	Jan-91	SB-10	2.5	Copper	52		3,000	780	0.1
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Copper	41		3,000	780	0.1
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Copper	34		3,000	780	0.0
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Copper	33		3,000	780	0.0
Hart Crowser 1992a	Jan-91	B-15	17	Copper	29		3,000	39	0.7
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Copper	26		3,000	39	0.7
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Copper	26		3,000	780	0.0
Hart Crowser 1992a	Jan-91	B-15	2.5	Copper	23		3,000	780	0.0
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Copper	22		3,000	780	0.0
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Copper	19		3,000	39	0.5
Hart Crowser 1992a	Jan-91	SB-12	2.5	Copper	19		3,000	780	0.0
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Copper	18		3,000	780	0.0
Hart Crowser 1992a	Jan-91	SB-12	13	Copper	18		3,000	39	0.5
Hart Crowser 1992a	Oct-91	H-3	7.5	Copper	16.1		3,000	39	0.4
ATI 1991a	Aug-91	B-16/S2	10	Copper	16		3,000	39	0.4
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Copper	16		3,000	39	0.4
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Copper	16		3,000	39	0.4
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Copper	16		3,000	39	0.4
Hart Crowser 1993a	Aug-92	B-37	2-4	Copper	16		3,000	780	0.0
Hart Crowser 1992a	Jan-91	SB-11	13	Copper	16		3,000	39	0.4
ATI 1991a	Aug-91	B-17/S1	18	Copper	15		3,000	39	0.4
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Copper	15		3,000	39	0.4
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Copper	15		3,000	39	0.4
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Copper	14		3,000	780	0.0
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Copper	13		3,000	39	0.3
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Copper	13		3,000	39	0.3
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Copper	13		3,000	39	0.3
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Copper	13		3,000	39	0.3
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Copper	12		3,000	780	0.0
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Copper	12		3,000	780	0.0

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Copper	12		3,000	780	0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Copper	12		3,000	39	0.3
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Copper	12		3,000	39	0.3
Hart Crowser 1993a	Aug-92	B-38	9-11	Copper	12		3,000	39	0.3
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Copper	11		3,000	39	0.3
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Copper	11		3,000	39	0.3
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Copper	10		3,000	39	0.3
Hart Crowser 1993a	Aug-92	B-32	0-3	Copper	10		3,000	780	0.0
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Copper	9.9		3,000	39	0.3
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Copper	9.9		3,000	39	0.3
Hart Crowser 1993a	Aug-92	B-32	7-9	Copper	9.9		3,000	39	0.3
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Copper	9.5		3,000	39	0.2
Hart Crowser 1992a	Jan-91	SB-10	17	Copper	9		3,000	39	0.2
Hart Crowser 1992a	Jan-91	SB-11	2.5	Copper	9		3,000	780	0.0
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Copper	8.8		3,000	39	0.2
ATI 1991a	Aug-91	B-16/S7	16	Copper	8.5		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Copper	8.3		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Copper	7.9		3,000	39	0.2
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Copper	7.6		3,000	39	0.2
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Copper	7.6		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Copper	7.5		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Copper	7.5		3,000	780	0.0
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Copper	7.4		3,000	39	0.2
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Copper	7		3,000	39	0.2
Hart Crowser 1992a	Jan-91	SB-10	12.5	Copper	7		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Copper	6.9		3,000	39	0.2
ATI 1991a	Aug-91	B-17/S6	37	Copper	6.8		3,000	39	0.2
ATI 1991a	Aug-91	B-17/S7	39	Copper	6.8		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Copper	6.8		3,000	39	0.2
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Copper	6.5		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Copper	6.3		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Copper	6.2		3,000	39	0.2
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Copper	6.1		3,000	39	0.2
Hart Crowser 1992a	Jan-91	B-15	12.5	Copper	6		3,000	39	0.2
ATI 1991a	Aug-91	B-17/S12	46	Copper	6.0		3,000	39	0.2
Hart Crowser 1992a	Jan-91	SB-11	7.5	Copper	6		3,000	39	0.2
Hart Crowser 1993a	Aug-92	B-35	8-10	Copper	5.7		3,000	39	0.1
Hart Crowser 1993a	Aug-92	B-36	9-11	Copper	5.5		3,000	39	0.1
ATI 1991a	Aug-91	B-17/S2	22	Copper	5.3		3,000	39	0.1

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1993a	Aug-92	B-35	28-30	Copper	5.2		3,000	39	0.1
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Copper	5.1		3,000	39	0.1
Hart Crowser 1992a	Jan-91	SB-12	7.5	Copper	5		3,000	39	0.1
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Copper	4.9		3,000	39	0.1
Hart Crowser 1993a	Aug-92	B-37	22-24	Copper	3.5		3,000	39	0.1
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Copper	3.2		3,000	39	0.1
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Copper	2.5		3,000	39	0.1
Ecology 1993a	Jul-93	B-49 (DUP)	15	Cyclohexane	1.1	J			
Hart Crowser 1995	Jul-95	HC-GW-1		Dibenzofuran	0.22		160	0.059	3.7
Ecology 1993a	Jul-93	B-50	6	Dibenzofuran	0.19	J	160	0.059	3.2
Ecology 1993a	Jul-93	B-50	10	Dibenzofuran	0.17	J	160	0.059	2.9
Ecology 1993a	Jul-93	B-49	15	Dibenzofuran	0.14	J	160	0.059	2.4
Hart Crowser 1992a	Jan-91	SB-11	7.5	Dibenzofuran	0.05		160	0.059	0.8
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Diesel-Range Hydrocarbons	2,400		2,000		1.2
Hart Crowser 1993a	Aug-92	B-32	0-3	Diesel-Range Hydrocarbons	772		2,000		0.4
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Diesel-Range Hydrocarbons	540		2,000		0.3
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Diesel-Range Hydrocarbons	360		2,000		0.2
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Diesel-Range Hydrocarbons	350		2,000		0.2
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Diesel-Range Hydrocarbons	340		2,000		0.2
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Diesel-Range Hydrocarbons	290		2,000		0.1
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Diesel-Range Hydrocarbons	270		2,000		0.1
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Diesel-Range Hydrocarbons	250		2,000		0.1
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Diesel-Range Hydrocarbons	250		2,000		0.1
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Diesel-Range Hydrocarbons	230		2,000		0.1
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Diesel-Range Hydrocarbons	170		2,000		0.1
Hart Crowser 1993a	Aug-92	B-37	2-4	Diesel-Range Hydrocarbons	143		2,000		0.1
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Diesel-Range Hydrocarbons	130		2,000		0.1
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Diesel-Range Hydrocarbons	125		2,000		0.1
ATI 1991a	Aug-91	B-16/S2	10	Diesel-Range Hydrocarbons	43		2,000		0.0
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Diesel-Range Hydrocarbons	33		2,000		0.0
Hart Crowser 1990b	1990	25-S		Diethylene Glycol	11		160,000		0.0
Hart Crowser 1990b	1990	21-C		Diethylene Glycol	10		160,000		0.0
Hart Crowser 1990b	1990	5/6-N		Diethylene Glycol	0.013	B	160,000		0.0
Hart Crowser 1990b	1990	SW-19E		Diethylene Glycol	0.010		160,000		0.0
Hart Crowser 1992a	Jan-91	SB-10	2.5	Di-n-butyl phthalate	200	B	8,000	39	5.1
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Di-n-butyl phthalate**	**110**	**B**	**8,000**	**2.0**	**55**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**12.5**	**Di-n-butyl phthalate**	**40**	**B**	**8,000**	**2.0**	**20**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Di-n-butyl phthalate**	**22**		**8,000**	**2.0**	**11**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Di-n-butyl phthalate**	**22**		**8,000**	**2.0**	**11**

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992a	Jan-91	SB-11	7.5	Di-n-butyl phthalate	16	B	8,000	2.0	8.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Di-n-butyl phthalate	15		8,000	2.0	7.5
Hart Crowser 1995	Jul-95	HC-GW-1		Di-n-butyl phthalate	7.8		8,000	2.0	3.9
Ecology 1993a	Jul-93	B-50	10	Di-n-butyl phthalate	5.9		8,000	2.0	3.0
Ecology 1993a	Jul-93	B-50	6	Di-n-butyl phthalate	5.3		8,000	39	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Di-n-butyl phthalate	2.4		8,000	39	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Di-n-butyl phthalate	1.7		8,000	39	0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Di-n-butyl phthalate	0.43		8,000	2.0	0.2
Ecology 1993a	Jul-93	B-47	12	Di-n-butyl phthalate	0.41	J	8,000	2.0	0.2
Hart Crowser 1992a	Jan-91	SB-11	2.5	Di-n-butyl phthalate	0.36	B	8,000	39	0.0
Hart Crowser 1992a	Jan-91	SB-12	13	Di-n-butyl phthalate	0.24	B	8,000	2.0	0.1
Ecology 1993b	Jun-93	278088		Di-n-butyl phthalate	0.12	J	8,000	2.0	0.1
Ecology 1993b	Jun-93	278089		Di-n-butyl phthalate	0.11	J	8,000	2.0	0.1
Hart Crowser 1992a	Jan-91	SB-12	7.5	Di-n-butyl phthalate	0.083	B	8,000	2.0	0.0
Ecology 1993b	Jun-93	278087		Di-n-butyl phthalate	0.058	J	8,000	2.0	0.0
Hart Crowser 1992a	Jan-91	SB-11	13	Di-n-butyl phthalate	0.057	B	8,000	2.0	0.0
Ecology 1993a	Jul-93	B-48	12	Di-n-butyl phthalate	0.054	J	8,000	2.0	0.0
Hart Crowser 1992a	Jan-91	SB-12	2.5	Di-n-butyl phthalate	0.046	B	8,000	39	0.0
Ecology 1993d	Jul-93	B-51	12	Di-n-butyl phthalate	0.042	J	8,000	2.0	0.0
Hart Crowser 1990b	1990	21-C		Ethanol	2.1				
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Ethylbenzene**	**470**		**6**		**78**
Hart Crowser 1990b	**1990**	**PT-3**		**Ethylbenzene**	**180**		**6**		**30**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**Ethylbenzene**	**140**		**6**		**23**
Hart Crowser 1990b	**1990**	**25-S**		**Ethylbenzene**	**100**		**6**		**17**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Ethylbenzene**	**100**		**6**		**17**
Hart Crowser 1990b	**Oct-90**	**B-7/S-3**	**7.5**	**Ethylbenzene**	**90**		**6**		**15**
Hart Crowser 1990b	**1990**	**25-S**		**Ethylbenzene**	**71**		**6**		**12**
Hart Crowser 1990b	1990	PT-1		Ethylbenzene	41		6		6.8
Hart Crowser 1990b	1990	PT-5		Ethylbenzene	39		6		6.5
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Ethylbenzene	34		6		5.7
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Ethylbenzene	28		6		4.7
Hart Crowser 1990b	Oct-90	SB4/S1	1.5	Ethylbenzene	26		6		4.3
Hart Crowser 1990a	May-90	B2-S3	10	Ethylbenzene	25		6		4.2
Hart Crowser 1990b	1990	PT-4		Ethylbenzene	25		6		4.2
Hart Crowser 1990a	May-90	B2-S3	10	Ethylbenzene	23		6		3.8
Hart Crowser 1990b	1990	21-C		Ethylbenzene	14		6		2.3
Hart Crowser 1990b	1990	PT-2		Ethylbenzene	13		6		2.2
Hart Crowser 1990b	Oct-90	B-7/S-7B		Ethylbenzene	5.6		6		0.9
Hart Crowser 1995	Jul-95	HC-GW-1 (DUP)		Ethylbenzene	5.2		6		0.9

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Hart Crowser 1995	Jul-95	HC-GW-1		Ethylbenzene	5.1		6		0.9
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Ethylbenzene	2.6		6		0.4
Hart Crowser 1990b	1990	SB3/S2		Ethylbenzene	2.3		6		0.4
Hart Crowser 1990b	Oct-90	SB5/S3	12.5	Ethylbenzene	1.4		6		0.2
Hart Crowser 1992a	Jan-91	SB-12	13	Ethylbenzene	0.92		6		0.2
Ecology 1993a	Jul-93	B-50	10	Ethylbenzene	0.81	J	6		0.1
ATI 1991a	Aug-91	B-16/S7	16	Ethylbenzene	0.54		6		0.1
ATI 1991a	Aug-91	B-16/S2	10	Ethylbenzene	0.53		6		0.1
Hart Crowser 1990b	1990	SB1/S3		Ethylbenzene	0.520		6		0.1
ATI 1991a	Aug-91	B-16/S7	16	Ethylbenzene	0.40		6		0.1
Ecology 1993a	Jul-93	B-49	15	Ethylbenzene	0.37		6		0.1
Ecology 1993a	Jul-93	B-49 (DUP)	15	Ethylbenzene	0.36	J	6		0.1
ATI 1991a	Aug-91	B-17/S1	18	Ethylbenzene	0.29		6		0.0
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Ethylbenzene	0.26		6		0.0
Ecology 1993a	Jul-93	B-47	12	Ethylbenzene	0.24		6		0.0
Ecology 1993a	Jul-93	B-47	12	Ethylbenzene	0.22	J	6		0.0
Hart Crowser 1990b	1990	SW-9		Ethylbenzene	0.140		6		0.0
TV-F&S 2000a	Jul-99	TW-1	11.0	Ethylbenzene	0.091		6		0.0
Ecology 1993d	Jul-93	B-52	12	Ethylbenzene	0.063	J	6		0.0
Ecology 1993a	Jul-93	B-48	12	Ethylbenzene	0.052	J	6		0.0
Hart Crowser 1990b	1990	SW-1		Ethylbenzene	0.038		6		0.0
Ecology 1991b	Aug-91	B-16	15	Ethylbenzene	0.031		6		0.0
Ecology 1993b	Jun-93	278089		Ethylbenzene	0.023	J	6		0.0
Hart Crowser 1990b	1990	15/16-S		Ethylbenzene	0.019		6		0.0
Hart Crowser 1990b	1990	SW-13		Ethylbenzene	0.015		6		0.0
Ecology 1993d	Jul-93	B-51	12	Ethylbenzene	0.01	J	6		0.0
Hart Crowser 1990b	1990	SW-19E		Ethylbenzene	0.009		6		0.0
Ecology 1993b	Jun-93	278090		Ethylbenzene	0.004	J	6		0.0
Ecology 1993b	Jun-93	278090 (DUP)		Ethylbenzene	0.003	J	6		0.0
Hart Crowser 1992a	Jan-91	B-15	17	Ethylbenzene	0.002		6		0.0
Hart Crowser 1990b	Sep-90	B-9/S-6	15	Ethylbenzene	0.002		6		0.0
Ecology 1991b	Aug-91	B-16	13.5	Ethylbenzene	0.0015		6		0.0
Hart Crowser 1990b	1990	21-C		Ethylene Glycol	12		160,000		0.0
Hart Crowser 1990b	1990	SW-19E		Ethylene Glycol	0.010		160,000		0.0
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Fluoranthene	2.4		3,200	24	0.1
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Fluoranthene	1.3		3,200	24	0.1
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Fluoranthene	0.96		3,200	24	0.0
Ecology 1993a	Jul-93	B-49	15	Fluoranthene	0.69		3,200	1.2	0.6
Ecology 1993a	Jul-93	B-50	6	Fluoranthene	0.62	J	3,200	24	0.0

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Ecology 1993a	Jul-93	B-50	10	Fluoranthene	0.48		3,200	1.2	0.4
Hart Crowser 1995	Jul-95	HC-GW-1		Fluoranthene	0.44		3,200	1.2	0.4
Hart Crowser 1992a	Oct-91	Comp F	0-1	Fluoranthene	0.42		3,200	24	0.0
Hart Crowser 1992a	Oct-91	Comp A	0-1	Fluoranthene	0.33	J	3,200	24	0.0
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Fluoranthene	0.26		3,200	24	0.0
Hart Crowser 1992a	Jan-91	SB-11	7.5	Fluoranthene	0.079		3,200	1.2	0.1
Hart Crowser 1995	Jul-95	HC-GW-1		Fluorene	0.36		3,200	0.081	4.4
Ecology 1993a	Jul-93	B-50	6	Fluorene	0.24	J	3,200	1.6	0.2
Ecology 1993a	Jul-93	B-49	15	Fluorene	0.23	J	3,200	0.081	2.8
Ecology 1993a	Jul-93	B-50	10	Fluorene	0.18	J	3,200	0.081	2.2
Hart Crowser 1992a	Jan-91	SB-11	7.5	Fluorene	0.079		3,200	0.081	0.98
Hart Crowser 1990a	**May-90**	**B2-S3**	**10**	**Gasoline-Range Hydrocarbons**	**6,500**		**30**		**217**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Gasoline-Range Hydrocarbons**	**4,200**		**30**		**140**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Gasoline-Range Hydrocarbons**	**3,200**		**30**		**107**
Hart Crowser 1992b	**Apr-92**	**B-30 (surface total)**	**0**	**Gasoline-Range Hydrocarbons**	**2,600**		**30**		**87**
Hart Crowser 1990a	**May-90**	**B3-S3**	**10**	**Gasoline-Range Hydrocarbons**	**2,600**		**30**		**87**
Hart Crowser 1992b	**Apr-92**	**B-30 (surface fines)**	**0**	**Gasoline-Range Hydrocarbons**	**1,600**		**30**		**53**
Hart Crowser 1993a	**Aug-92**	**B-37**	**2-4**	**Gasoline-Range Hydrocarbons**	**1,429**		**30**		**48**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Gasoline-Range Hydrocarbons**	**1,400**		**30**		**47**
Hart Crowser 1992b	**Apr-92**	**B-31 (surface total)**	**0**	**Gasoline-Range Hydrocarbons**	**490**		**30**		**16**
ATI 1991a	Aug-91	B-16/S2	10	Gasoline-Range Hydrocarbons	150		30		5.0
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Gasoline-Range Hydrocarbons	46		30		1.5
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Gasoline-Range Hydrocarbons	32		30		1.1
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Gasoline-Range Hydrocarbons	30		30		1.0
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Gasoline-Range Hydrocarbons	25		30		0.8
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Gasoline-Range Hydrocarbons	25		30		0.8
Hart Crowser 1993a	Aug-92	B-32	0-3	Gasoline-Range Hydrocarbons	13		30		0.4
Hart Crowser 1993a	Aug-92	B-35	28-30	Gasoline-Range Hydrocarbons	13		30		0.4
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Gasoline-Range Hydrocarbons	10		30		0.3
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Gasoline-Range Hydrocarbons	9		30		0.3
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Gasoline-Range Hydrocarbons	8		30		0.3
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Gasoline-Range Hydrocarbons	8		30		0.3
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Gasoline-Range Hydrocarbons	8		30		0.3
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Gasoline-Range Hydrocarbons	5		30		0.2
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Heavy Oil-Range Hydrocarbons	11,000		2,000		5.5
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Heavy Oil-Range Hydrocarbons	4,000		2,000		2.0
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Heavy Oil-Range Hydrocarbons	3,400		2,000		1.7
Hart Crowser 1993a	Aug-92	B-32	0-3	Heavy Oil-Range Hydrocarbons	2,894		2,000		1.4
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Heavy Oil-Range Hydrocarbons	2,600		2,000		1.3

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Heavy Oil-Range Hydrocarbons	1,300		2,000		0.7
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Heavy Oil-Range Hydrocarbons	1,000		2,000		0.5
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Heavy Oil-Range Hydrocarbons	980		2,000		0.5
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Heavy Oil-Range Hydrocarbons	950		2,000		0.5
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Heavy Oil-Range Hydrocarbons	930		2,000		0.5
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Heavy Oil-Range Hydrocarbons	880		2,000		0.4
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Heavy Oil-Range Hydrocarbons	625		2,000		0.3
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Heavy Oil-Range Hydrocarbons	600		2,000		0.3
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Heavy Oil-Range Hydrocarbons	460		2,000		0.2
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Heavy Oil-Range Hydrocarbons	450		2,000		0.2
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Heavy Oil-Range Hydrocarbons	380		2,000		0.2
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Heavy Oil-Range Hydrocarbons	370		2,000		0.2
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	HpCDD (total)	1.38E-05				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	HpCDD (total)	1.14E-05				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	HpCDD (total)	4.73E-07				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	HpCDF (total)	4.49E-06				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	HpCDF (total)	3.88E-06				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	HpCDF (total)	1.48E-07	J			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	HxCDD (total)	1.05E-06				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	HxCDD (total)	7.58E-07				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	HxCDD (total)	3.73E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	HxCDF (total)	1.09E-06				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	HxCDF (total)	8.81E-07				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	HxCDF (total)	3.73E-08				
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Indeno(1,2,3-cd)pyrene	0.48			1.8	0.3
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Indeno(1,2,3-cd)pyrene	0.47			1.8	0.3
Hart Crowser 1990b	1990	21-C		iso-Propanol	24				
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Lead	500		250	1,300	2.0
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Lead	320		250	1,300	1.3
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Lead	75		250	1,300	0.3
Hart Crowser 1992a	Jan-91	SB-10	2.5	Lead	75		250	1,300	0.3
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Lead	50		250	1,300	0.2
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Lead	38		250	1,300	0.2
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Lead	33		250	1,300	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Lead	31		250	1,300	0.1
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Lead	30		250	67	0.4
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Lead	24		250	1,300	0.1
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Lead	16		250	1,300	0.1
Hart Crowser 1993a	Aug-92	B-32	0-3	Lead	15		250	1,300	0.1

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Lead	15		250	1,300	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Lead	14		250	1,300	0.1
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Lead	13		250	1,300	0.1
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Lead	13		250	1,300	0.1
Hart Crowser 1992a	Jan-91	B-15	2.5	Lead	12		250	1,300	0.0
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Lead	11		250	1,300	0.0
ATI 1991a	Aug-91	B-16/S2	10	Lead	9.8		250	67	0.1
Hart Crowser 1992a	Oct-91	H-3	7.5	Lead	3.8		250	67	0.1
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Lead	3.4		250	1,300	0.0
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Lead	3.2		250	1,300	0.0
Ecology 1991a	Aug-91	B-16	13.5	Lead	2.3	P	250	67	0.0
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Lead	2.2		250	67	0.0
Hart Crowser 1993a	Aug-92	B-32	7-9	Lead	2.2		250	67	0.0
ATI 1991a	Aug-91	B-17/S1	18	Lead	2.1		250	67	0.0
Hart Crowser 1993a	Aug-92	B-37	2-4	Lead	2.1		250	1,300	0.0
Ecology 1991a	Aug-91	B-16	13.5	Lead	2.07		250	67	0.0
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Lead	2		250	1,300	0.0
ATI 1991a	Aug-91	B-17/S6	37	Lead	1.9		250	67	0.0
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Lead	1.9		250	67	0.0
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Lead	1.9		250	67	0.0
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Lead	1.8		250	67	0.0
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Lead	1.8		250	67	0.0
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Lead	1.7		250	67	0.0
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Lead	1.7		250	67	0.0
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Lead	1.6		250	1,300	0.0
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Lead	1.6		250	67	0.0
Hart Crowser 1993a	Aug-92	B-38	9-11	Lead	1.6		250	67	0.0
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Lead	1.5		250	67	0.0
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Lead	1.5		250	67	0.0
Ecology 1991a	Aug-91	B-16	15	Lead	1.47	B	250	67	0.0
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Lead	1.4		250	67	0.0
ATI 1991a	Aug-91	B-17/S7	39	Lead	1.3		250	67	0.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Lead	1.3		250	67	0.0
ATI 1991a	Aug-91	B-17/S2	22	Lead	1.2		250	67	0.0
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Lead	1.2		250	67	0.0
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Lead	1.2		250	67	0.0
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Lead	1.2		250	67	0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Lead	1.2		250	67	0.0
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Lead	1.1		250	67	0.0

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Lead	1.1		250	67	0.0
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Lead	1.1		250	67	0.0
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Lead	1		250	67	0.0
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Lead	1		250	67	0.0
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Lead	1		250	67	0.0
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Lead	1		250	67	0.0
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Lead	0.99		250	1,300	0.0
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Lead	0.99		250	67	0.0
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Lead	0.9		250	67	0.0
Hart Crowser 1993a	Aug-92	B-37	22-24	Lead	0.9		250	67	0.0
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Lead	0.84		250	67	0.0
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Lead	0.83		250	67	0.0
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Lead	0.77		250	67	0.0
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Lead	0.73		250	67	0.0
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Lead	0.73		250	67	0.0
Hart Crowser 1993a	Aug-92	B-35	28-30	Lead	0.72		250	67	0.0
Hart Crowser 1993a	Aug-92	B-36	9-11	Lead	0.67		250	67	0.0
Hart Crowser 1993a	Aug-92	B-35	8-10	Lead	0.65		250	67	0.0
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Lead	0.51		250	67	0.0
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Lead	0.38		250	67	0.0
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Lead	0.3		250	67	0.0
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Lead	0.26		250	67	0.0
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Lead	0.26		250	67	0.0
ATI 1991a	**Aug-91**	**B-16/S2**	**10**	**Mercury**	**8.8**		**2**	**0.030**	**293**
Hart Crowser 1992a	Jan-91	SB-10	2.5	Mercury	0.9		2	0.59	1.5
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Mercury	0.62		2	0.59	1.1
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Mercury	0.34		2	0.59	0.6
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Mercury	0.27		2	0.59	0.5
Hart Crowser 1992a	Jan-91	B-15	2.5	Mercury	0.2		2	0.59	0.3
Hart Crowser 1992a	Jan-91	SB-11	13	Mercury	0.2		2	0.030	6.7
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Mercury	0.14		2	0.030	4.7
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Mercury	0.14		2	0.59	0.2
Hart Crowser 1992a	Jan-91	B-15	12.5	Mercury	0.1		2	0.030	3.3
Hart Crowser 1992a	Jan-91	B-15	17	Mercury	0.1		2	0.030	3.3
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Mercury	0.1		2	0.59	0.2
Hart Crowser 1992a	Jan-91	SB-10	12.5	Mercury	0.1		2	0.030	3.3
Hart Crowser 1992a	Jan-91	SB-12	2.5	Mercury	0.1		2	0.59	0.2
Ecology 1991a	Aug-91	B-16	15	Mercury	0.0391		2	0.030	1.3
Ecology 1991a	Aug-91	B-16	13.5	Mercury	0.0091	P	2	0.030	0.3

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	1990	21-C		Methanol	18	B	40,000		0.0
Hart Crowser 1990b	1990	25-S		Methanol	4.8		40,000		0.0
Hart Crowser 1990b	**1990**	**SB3/S2**		**Methylene Chloride**	**780**	**B**	**0.02**		**39,000**
Hart Crowser 1990b	**Oct-90**	**SB5/S3**	**12.5**	**Methylene Chloride**	**270**		**0.02**		**13,500**
Hart Crowser 1990a	**May-90**	**B2-S3**	**10**	**Methylene Chloride**	**80**	**B**	**0.02**		**4,000**
Hart Crowser 1990a	**May-90**	**B3-S3**	**10**	**Methylene Chloride**	**38**	**B**	**0.02**		**1,900**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**Methylene Chloride**	**34**	**B**	**0.02**		**1,700**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Methylene Chloride**	**22**		**0.02**		**1,100**
Hart Crowser 1990b	**1990**	**25-S**		**Methylene Chloride**	**13**		**0.02**		**650**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Methylene Chloride**	**11**	**B**	**0.02**		**550**
Hart Crowser 1990b	**1990**	**PT-3**		**Methylene Chloride**	**5.6**		**0.02**		**280**
Hart Crowser 1992a	**Jan-91**	**B-15**	**2.5**	**Methylene Chloride**	**4.2**	**B**	**0.02**		**210**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Methylene Chloride**	**2.8**	**JB**	**0.02**		**140**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Methylene Chloride**	**2.4**	**JB**	**0.02**		**120**
ATI 1991a	**Aug-91**	**B-16/S7**	**16**	**Methylene Chloride**	**2.3**	**B**	**0.02**		**115**
Hart Crowser 1992b	**Apr-92**	**B-30**	**4-5.5**	**Methylene Chloride**	**2.3**	**B**	**0.02**		**115**
Hart Crowser 1992b	**Apr-92**	**B-31**	**10.5-12**	**Methylene Chloride**	**2.3**	**B**	**0.02**		**115**
ATI 1991a	**Aug-91**	**B-16/S7**	**16**	**Methylene Chloride**	**2.2**	**B**	**0.02**		**110**
Hart Crowser 1993a	**Jun-93**	**B-43 (DUP)**	**12**	**Methylene Chloride**	**1.7**		**0.02**		**85**
Hart Crowser 1992a	**Oct-91**	**Comp E**	**0-1**	**Methylene Chloride**	**1.7**	**B**	**0.02**		**85**
Hart Crowser 1993a	**Jun-93**	**B-43**	**12**	**Methylene Chloride**	**1.6**		**0.02**		**80**
ATI 1991a	**Aug-91**	**B-16/S2**	**10**	**Methylene Chloride**	**1.4**	**B**	**0.02**		**70**
ATI 1991a	**Aug-91**	**B-17/S12**	**46**	**Methylene Chloride**	**1.4**	**B**	**0.02**		**70**
Hart Crowser 1992a	**Oct-91**	**Comp F**	**0-1**	**Methylene Chloride**	**1.3**	**B**	**0.02**		**65**
ATI 1991a	**Aug-91**	**B-17/S1**	**18**	**Methylene Chloride**	**1.2**	**B**	**0.02**		**60**
ATI 1991a	**Aug-91**	**B-17/S7**	**39**	**Methylene Chloride**	**1.2**	**B**	**0.02**		**60**
Hart Crowser 1990b	**1990**	**PT-4**		**Methylene Chloride**	**1.2**		**0.02**		**60**
Hart Crowser 1992a	**Oct-91**	**Comp B**	**0-1**	**Methylene Chloride**	**1.1**	**B**	**0.02**		**55**
Hart Crowser 1992a	**Oct-91**	**Comp D**	**0-1**	**Methylene Chloride**	**1.1**	**B**	**0.02**		**55**
Hart Crowser 1993a	**Jun-93**	**B-44**	**14**	**Methylene Chloride**	**1**		**0.02**		**50**
Hart Crowser 1992a	**Oct-91**	**Comp A**	**0-1**	**Methylene Chloride**	**1.0**	**B**	**0.02**		**50**
Hart Crowser 1992a	**Oct-91**	**Comp C**	**0-1**	**Methylene Chloride**	**1.0**	**B**	**0.02**		**50**
Hart Crowser 1992b	**Mar-92**	**B-24 (DUP)**	**10.5-12**	**Methylene Chloride**	**0.96**	**B**	**0.02**		**48**
Hart Crowser 1990b	**1990**	**PT-5**		**Methylene Chloride**	**0.960**		**0.02**		**48**
Hart Crowser 1992a	**Jan-91**	**SB-11**	**13**	**Methylene Chloride**	**0.96**		**0.02**		**48**
Hart Crowser 1992b	**Mar-92**	**B-28**	**13.5-15**	**Methylene Chloride**	**0.93**	**B**	**0.02**		**47**
ATI 1991a	**Aug-91**	**B-17/S6**	**37**	**Methylene Chloride**	**0.91**	**B**	**0.02**		**46**
ATI 1991a	**Aug-91**	**B-17/S2**	**22**	**Methylene Chloride**	**0.89**	**B**	**0.02**		**45**
Hart Crowser 1992b	**Mar-92**	**B-28**	**7.5-9**	**Methylene Chloride**	**0.82**	**B**	**0.02**		**41**

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992a	**Oct-91**	**G-3**	**7.5**	**Methylene Chloride**	**0.81**	**B**	**0.02**		**41**
Hart Crowser 1992a	**Oct-91**	**H-1**	**2.5**	**Methylene Chloride**	**0.80**	**B**	**0.02**		**40**
Hart Crowser 1992b	**Mar-92**	**B-24**	**7.5-9**	**Methylene Chloride**	**0.71**	**B**	**0.02**		**36**
Hart Crowser 1992a	**Oct-91**	**G-2**	**5**	**Methylene Chloride**	**0.71**	**B**	**0.02**		**36**
Hart Crowser 1992b	**Mar-92**	**B-28**	**4.5-6**	**Methylene Chloride**	**0.66**	**B**	**0.02**		**33**
Hart Crowser 1992a	**Oct-91**	**G-1**	**2.5**	**Methylene Chloride**	**0.66**	**B**	**0.02**		**33**
Hart Crowser 1992b	**Mar-92**	**B-24**	**3-4.5**	**Methylene Chloride**	**0.61**	**B**	**0.02**		**31**
Hart Crowser 1992a	**Oct-91**	**H-2**	**5**	**Methylene Chloride**	**0.55**	**B**	**0.02**		**28**
Hart Crowser 1993a	**Jul-93**	**B-47**	**6**	**Methylene Chloride**	**0.5**		**0.02**		**25**
Hart Crowser 1992b	**Mar-92**	**B-22**	**6-7.5**	**Methylene Chloride**	**0.49**	**B**	**0.02**		**25**
Hart Crowser 1992b	**Mar-92**	**B-26**	**3-4.5**	**Methylene Chloride**	**0.49**	**B**	**0.02**		**25**
Hart Crowser 1992b	**Mar-92**	**B-26 (DUP)**	**12-13.5**	**Methylene Chloride**	**0.47**	**B**	**0.02**		**24**
Hart Crowser 1992b	**Mar-92**	**B-18**	**15-16.5**	**Methylene Chloride**	**0.46**	**B**	**0.02**		**23**
Hart Crowser 1992b	**Mar-92**	**B-20**	**12-13.5**	**Methylene Chloride**	**0.45**	**B**	**0.02**		**23**
Hart Crowser 1992b	**Mar-92**	**B-22**	**1.5-3**	**Methylene Chloride**	**0.43**	**B**	**0.02**		**22**
Hart Crowser 1992b	**Mar-92**	**B-22 (DUP)**	**10.5-12**	**Methylene Chloride**	**0.42**	**B**	**0.02**		**21**
Hart Crowser 1992a	**Oct-91**	**H-3**	**7.5**	**Methylene Chloride**	**0.39**	**B**	**0.02**		**20**
Hart Crowser 1992b	**Mar-92**	**B-18**	**7.5-9**	**Methylene Chloride**	**0.38**	**B**	**0.02**		**19**
Hart Crowser 1992b	**Mar-92**	**B-20**	**7.5-9**	**Methylene Chloride**	**0.38**	**B**	**0.02**		**19**
Hart Crowser 1992b	**Mar-92**	**B-26**	**6-7.5**	**Methylene Chloride**	**0.37**	**B**	**0.02**		**19**
Hart Crowser 1992b	**Mar-92**	**B-26 (DUP)**	**6-7.5**	**Methylene Chloride**	**0.37**	**B**	**0.02**		**19**
Hart Crowser 1992a	**Jan-91**	**SB-11**	**2.5**	**Methylene Chloride**	**0.35**		**0.02**		**18**
Hart Crowser 1992b	**Apr-92**	**B-31**	**1.5-3**	**Methylene Chloride**	**0.31**	**JB**	**0.02**		**16**
Hart Crowser 1992b	**Apr-92**	**B-21 (DUP)**	**48-49.5**	**Methylene Chloride**	**0.29**	**JB**	**0.02**		**15**
Hart Crowser 1992b	**Apr-92**	**B-29**	**13.5-15**	**Methylene Chloride**	**0.29**	**JB**	**0.02**		**15**
Hart Crowser 1992b	**Mar-92**	**B-25**	**28-29.5**	**Methylene Chloride**	**0.28**	**JB**	**0.02**		**14**
Hart Crowser 1992b	**Apr-92**	**B-21**	**48-49.5**	**Methylene Chloride**	**0.27**	**JB**	**0.02**		**14**
Hart Crowser 1992b	**Apr-92**	**B-29**	**9-10.5**	**Methylene Chloride**	**0.26**	**JB**	**0.02**		**13**
Ecology 1993a	**Jul-93**	**B-48**	**12**	**Methylene Chloride**	**0.25**		**0.02**		**13**
Hart Crowser 1992b	**Apr-92**	**B-31**	**7.5-9**	**Methylene Chloride**	**0.24**	**JB**	**0.02**		**12**
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Methylene Chloride	0.19	JB	0.02		9.5
Hart Crowser 1990a	May-90	B2-S3	10	Methylene Chloride	0.19	B	0.02		9.5
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Methylene Chloride	0.17	JB	0.02		8.5
Ecology 1993a	Jul-93	B-47	12	Methylene Chloride	0.16		0.02		8.0
Hart Crowser 1992a	Jan-91	SB-12	13	Methylene Chloride	0.13		0.02		6.5
Ecology 1993a	Jul-93	B-49	15	Methylene Chloride	0.11		0.02		5.5
Hart Crowser 1990b	Sep-90	B-8/S-7	18	Methylene Chloride	0.11		0.02		5.5
Ecology 1993b	Jun-93	278089		Methylene Chloride	0.085		0.02		4.3
Hart Crowser 1992a	Jan-91	SB-12	2.5	Methylene Chloride	0.055		0.02		2.8

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Hart Crowser 1990b	1990	15/16-N		Methylene Chloride	0.014		0.02		0.7
Hart Crowser 1990b	1990	7/8-S		Methylene Chloride	0.011		0.02		0.6
Hart Crowser 1990b	1990	SW-19E		Methylene Chloride	0.008		0.02		0.4
Hart Crowser 1990b	1990	5/6-N		Methylene Chloride	0.007		0.02		0.4
Hart Crowser 1992a	Jan-91	B-15	12.5	Methylene Chloride	0.005		0.02		0.3
Hart Crowser 1992a	Jan-91	B-15	17	Methylene Chloride	0.005		0.02		0.3
Hart Crowser 1990a	May-89	B-1		Methylene Chloride	0.003		0.02		0.2
Hart Crowser 1990b	Oct-90	B-13/S-4	10	Methylene Chloride	0.003		0.02		0.2
Ecology 1991b	Aug-91	B-16	13.5	Methylene Chloride	0.0021		0.02		0.1
Hart Crowser 1990b	Sep-90	B-5/S-17	42	Methylene Chloride	0.002		0.02		0.1
Hart Crowser 1990b	Sep-90	B-6/S-11	27	Methylene Chloride	0.002		0.02		0.1
Hart Crowser 1990b	Sep-90	B-9/S-10	25	Methylene Chloride	0.002		0.02		0.1
Hart Crowser 1990b	Sep-90	B-9/S-17	42	Methylene Chloride	0.002		0.02		0.1
Hart Crowser 1990b	Sep-90	B-9/S-6	15	Methylene Chloride	0.002		0.02		0.1
Hart Crowser 1992a	Jan-91	SB-12	7.5	Methylene Chloride	0.002		0.02		0.1
Ecology 1991b	Aug-91	B-16	15	Methylene Chloride	0.0016		0.02		0.1
Hart Crowser 1990b	1990	25-S		Mineral Spirits	1,800		4,000		0.5
Hart Crowser 1990b	1990	21-C		Mineral Spirits	12		4,000		0.0
Hart Crowser 1990b	1990	7/8-S		Mineral Spirits	4.7		4,000		0.0
Hart Crowser 1990b	1990	SW-19E		Mineral Spirits	4.4		4,000		0.0
Hart Crowser 1990b	1990	5/6-N		Mineral Spirits	2.0		4,000		0.0
Hart Crowser 1990b	1990	15/16-N		Mineral Spirits	1.8		4,000		0.0
Hart Crowser 1992a	Jan-91	SB-10	2.5	Naphthalene	5.9		5	3.8	1.6
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Naphthalene**	**4.6**		**5**	**0.20**	**23**
Hart Crowser 1993a	**Aug-92**	**B-38**	**9-11**	**Naphthalene**	**2.4**		**5**	**0.20**	**12**
Hart Crowser 1995	Jul-95	HC-GW-1		Naphthalene	1.3		5	0.20	6.5
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Naphthalene	1.1		5	0.20	5.5
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Naphthalene	0.97		5	0.20	4.9
Hart Crowser 1992a	Jan-91	SB-10	12.5	Naphthalene	0.86		5	0.20	4.3
Ecology 1993a	Jul-93	B-49	15	Naphthalene	0.6		5	0.20	3.0
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Naphthalene	0.49		5	3.8	0.1
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Naphthalene	0.32		5	3.8	0.1
Hart Crowser 1993a	Aug-92	B-37	2-4	Naphthalene	0.3		5	3.8	0.1
Hart Crowser 1992a	Jan-91	SB-11	7.5	Naphthalene	0.24		5	0.20	1.2
Hart Crowser 1992a	Jan-91	B-15	2.5	Naphthalene	0.23		5	3.8	0.1
Ecology 1993a	Jul-93	B-50	10	Naphthalene	0.12	J	5	0.20	0.6
Ecology 1993a	Jul-93	B-50	6	Naphthalene	0.099	J	5	3.8	0.0
Ecology 1993a	Jul-93	B-48	12	Naphthalene	0.041	J	5	0.20	0.2
Ecology 1991a	Aug-91	B-16	13.5	Nickel	82.5				

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Hart Crowser 1992b	Mar-92	B-22	6-7.5	Nickel	30				
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Nickel	28				
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Nickel	28				
Ecology 1991a	Aug-91	B-16	15	Nickel	26.8				
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Nickel	26				
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Nickel	25				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Nickel	25				
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Nickel	22				
Hart Crowser 1992a	Jan-91	B-15	17	Nickel	19				
Hart Crowser 1992a	Jan-91	B-15	2.5	Nickel	18				
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Nickel	16				
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Nickel	15				
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Nickel	15				
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Nickel	14				
Hart Crowser 1992a	Jan-91	SB-11	13	Nickel	12				
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Nickel	11				
Hart Crowser 1993a	Aug-92	B-33	38.5-40	Nickel	11				
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Nickel	11				
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Nickel	11				
Hart Crowser 1992a	Jan-91	SB-10	2.5	Nickel	11				
ATI 1991a	Aug-91	B-17/S1	18	Nickel	10				
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Nickel	9				
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Nickel	8.8				
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Nickel	8.7				
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Nickel	8.7				
ATI 1991a	Aug-91	B-16/S2	10	Nickel	8.1				
Hart Crowser 1992a	Jan-91	SB-12	13	Nickel	8				
Hart Crowser 1993a	Aug-92	B-32	0-3	Nickel	7.8				
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Nickel	7.5				
Hart Crowser 1993a	Aug-92	B-32	7-9	Nickel	7.4				
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Nickel	7.2				
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Nickel	7.1				
Hart Crowser 1992a	Jan-91	SB-10	17	Nickel	7				
Hart Crowser 1992a	Jan-91	SB-12	2.5	Nickel	7				
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Nickel	6.8				
Hart Crowser 1993a	Aug-92	B-37	22-24	Nickel	6.8				
Hart Crowser 1993a	Aug-92	B-37	2-4	Nickel	6.5				
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Nickel	6.4				
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Nickel	6.3				

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Hart Crowser 1992b	Apr-92	B-31	10.5-12	Nickel	6.3				
Hart Crowser 1993a	Aug-92	B-38	9-11	Nickel	6.3				
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Nickel	6.1				
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Nickel	6				
Hart Crowser 1993a	Aug-92	B-36	9-11	Nickel	5.9				
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Nickel	5.8				
Hart Crowser 1992b	Apr-92	B-21	48-49.5	Nickel	5.8				
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Nickel	5.7				
Hart Crowser 1993a	Aug-92	B-35	8-10	Nickel	5.6				
ATI 1991a	Aug-91	B-17/S6	37	Nickel	5.5				
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Nickel	5.3				
ATI 1991a	Aug-91	B-17/S7	39	Nickel	5.2				
Hart Crowser 1993a	Aug-92	B-35	28-30	Nickel	5.2				
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Nickel	5.1				
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Nickel	5.1				
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Nickel	5.1				
ATI 1991a	Aug-91	B-17/S12	46	Nickel	5.0				
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Nickel	5				
Hart Crowser 1992a	Jan-91	SB-10	12.5	Nickel	5				
Hart Crowser 1992a	Jan-91	SB-11	2.5	Nickel	5				
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Nickel	4.8				
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Nickel	4.8				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Nickel	4.6				
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Nickel	4.5				
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Nickel	4.4				
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Nickel	4.4				
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Nickel	4.3				
Hart Crowser 1992a	Oct-91	H-3	7.5	Nickel	4.2				
ATI 1991a	Aug-91	B-16/S7	16	Nickel	4.1				
ATI 1991a	Aug-91	B-17/S2	22	Nickel	4.1				
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Nickel	4				
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Nickel	4				
Hart Crowser 1992a	Jan-91	SB-12	7.5	Nickel	4				
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Nickel	3.9				
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Nickel	3.9				
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Nickel	3.9				
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Nickel	3.8				
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Nickel	3.8				
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Nickel	3.7				

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Hart Crowser 1992b	Mar-92	B-28	7.5-9	Nickel	3.4				
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Nickel	3.3				
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Nickel	3.1				
Hart Crowser 1992a	Jan-91	B-15	12.5	Nickel	3				
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Nickel	3				
Hart Crowser 1992a	Jan-91	SB-11	7.5	Nickel	3				
Hart Crowser 1990b	1990	21-C		n-Propanol	1.7				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	OCDD	8.37E-05	B			
Hart Crowser 1992b	Apr-92	B-30	14.5-16	OCDD	5.15E-05	B			
Hart Crowser 1992b	Apr-92	B-31	10.5-12	OCDD	3.05E-06	B			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	OCDF	4.75E-06				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	OCDF	3.49E-06				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	OCDF	1.77E-07				
Hart Crowser 1990b	**1990**	**PT-1**		**PCE**	**19,000**		**0.05**		**380,000**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**PCE**	**18,000**		**0.05**		**360,000**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**PCE**	**15,000**		**0.05**		**300,000**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**PCE**	**13,000**		**0.05**		**260,000**
Hart Crowser 1990b	**1990**	**25-S**		**PCE**	**11,000**		**0.05**		**220,000**
Hart Crowser 1990b	**1990**	**25-S**		**PCE**	**6,000**		**0.05**		**120,000**
Hart Crowser 1990b	**1990**	**PT-3**		**PCE**	**5,900**		**0.05**		**118,000**
Hart Crowser 1990b	**1990**	**PT-2**		**PCE**	**4,400**		**0.05**		**88,000**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**PCE**	**3,000**		**0.05**		**60,000**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**PCE**	**2,700**		**0.05**		**54,000**
Hart Crowser 1990a	**May-90**	**B3-S3**	**10**	**PCE**	**2,600**		**0.05**		**52,000**
Hart Crowser 1990b	**1990**	**PT-1**		**PCE**	**2,500**		**0.05**		**50,000**
Hart Crowser 1990b	**1990**	**PT-4**		**PCE**	**2,300**		**0.05**		**46,000**
Hart Crowser 1990a	**May-90**	**B2-S3**	**10**	**PCE**	**1,900**		**0.05**		**38,000**
Hart Crowser 1990b	**Oct-90**	**B-7/S-3**	**7.5**	**PCE**	**1,500**		**0.05**		**30,000**
Hart Crowser 1990b	**1990**	**SP-2**		**PCE**	**1,200**		**0.05**		**24,000**
Ecology 1993a	**Jul-93**	**B-50**	**10**	**PCE**	**1,100**		**0.05**		**22,000**
Hart Crowser 1990b	**1990**	**PT-5**		**PCE**	**930**		**0.05**		**18,600**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**12.5**	**PCE**	**900**		**0.05**		**18,000**
Hart Crowser 1990b	**Oct-90**	**SB4/S1**	**1.5**	**PCE**	**900**		**0.05**		**18,000**
Hart Crowser 1993a	**Jul-93**	**B-47**	**6**	**PCE**	**320**		**0.05**		**6,400**
Ecology 1993a	**Jul-93**	**B-50**	**6**	**PCE**	**310**		**0.05**		**6,200**
Hart Crowser 1992a	**Jan-91**	**B-15**	**2.5**	**PCE**	**300**		**0.05**		**6,000**
Hart Crowser 1990b	**Oct-90**	**SB7/S3**	**12.5**	**PCE**	**220**		**0.05**		**4,400**
Hart Crowser 1995	**Jul-95**	**HC-GW-1 (DUP)**		**PCE**	**210**		**0.05**		**4,200**
Hart Crowser 1995	**Jul-95**	**HC-GW-1**		**PCE**	**200**		**0.05**		**4,000**

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	1990	21-C		PCE	170		0.05		3,400
Hart Crowser 1990b	Oct-90	B-12/S-1	2.5	PCE	160		0.05		3,200
Hart Crowser 1990b	Oct-90	B-7/S-7B		PCE	110		0.05		2,200
Hart Crowser 1992b	Apr-92	B-31	10.5-12	PCE	71		0.05		1,420
Hart Crowser 1990b	Oct-90	B-11/S-4	10	PCE	50		0.05		1,000
Hart Crowser 1990b	Oct-90	SB5/S3	12.5	PCE	44		0.05		880
Ecology 1993a	Jul-93	B-47	12	PCE	32		0.05		640
Hart Crowser 1993a	Jun-93	B-43	12	PCE	23		0.05		460
Hart Crowser 1993a	Jun-93	B-43 (DUP)	12	PCE	23		0.05		460
Hart Crowser 1992b	Apr-92	B-30	4-5.5	PCE	21		0.05		420
Hart Crowser 1990b	1990	SB1/S3		PCE	19.2		0.05		384
Hart Crowser 1993a	Jul-93	B-52	6	PCE	19		0.05		380
TV-F&S 2000a	Feb-99	B-56	8.5	PCE	18.00		0.05		360
Hart Crowser 1993a	Jun-93	B-43	10	PCE	17		0.05		340
Hart Crowser 1993a	Aug-92	B-32	0-3	PCE	16		0.05		320
Hart Crowser 1990b	1990	17/18-C		PCE	13		0.05		260
Hart Crowser 1990b	Sep-90	B-9/S-6	15	PCE	8.4		0.05		168
TV-F&S 2000a	Jul-99	TW-6	12.0	PCE	8.40		0.05		168
Hart Crowser 1992a	Jan-91	SB-11	13	PCE	7.7		0.05		154
Hart Crowser 1993a	Jun-93	B-44	14	PCE	6.9		0.05		138
Ecology 1993a	Jul-93	B-49	15	PCE	5.3		0.05		106
Hart Crowser 1993a	Jul-93	B-51	12	PCE	5.2		0.05		104
TV-F&S 2000a	Feb-99	B-56	6.0	PCE	5.20		0.05		104
Hart Crowser 1992a	Jan-91	SB-11	2.5	PCE	5		0.05		100
ATI 1991a	Aug-91	B-16/S2	10	PCE	4.5		0.05		90
Hart Crowser 1993a	Jun-93	B-46	10	PCE	4.5		0.05		90
Ecology 1993a	Jul-93	B-49 (DUP)	15	PCE	4.1		0.05		82
Hart Crowser 1990b	1990	SP-4		PCE	4.1		0.05		82
Hart Crowser 1993a	Jul-93	B-49	12	PCE	3.8		0.05		76
Hart Crowser 1993a	Jul-93	B-52	12	PCE	3.8		0.05		76
Hart Crowser 1993a	Jul-93	B-52 (DUP)	12	PCE	3.6		0.05		72
Ecology 1993a	Jul-93	B-50	10	PCE	3.2	J	0.05		64
Hart Crowser 1993a	Jul-93	B-50	11	PCE	2.5		0.05		50
Hart Crowser 1993a	Jul-93	B-50	12	PCE	2.5		0.05		50
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	PCE	1.9		0.05		38
Hart Crowser 1993a	Aug-92	B-32	7-9	PCE	1.7		0.05		34
Hart Crowser 1992a	Jan-91	SB-11	7.5	PCE	1.7		0.05		34
TV-F&S 2001a	Jul-00	NW-11	6.5	PCE	1.60	J	0.05		32
Hart Crowser 1993a	Jun-93	B-45	14	PCE	1.5		0.05		30

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1993a	**Jun-93**	**B-45 (DUP)**	**14**	**PCE**	**1.5**		**0.05**		**30**
Hart Crowser 1990b	**Oct-90**	**B-10A/S-1**	**7.5**	**PCE**	**1.4**		**0.05**		**28**
Hart Crowser 1993a	**Jul-93**	**B-48**	**12**	**PCE**	**1.4**		**0.05**		**28**
Hart Crowser 1993a	**Jul-93**	**B-48 (DUP)**	**12**	**PCE**	**1.4**		**0.05**		**28**
TV-F&S 2000a	**Feb-99**	**B-56**	**14.0**	**PCE**	**1.40**		**0.05**		**28**
TV-F&S 2000a	**Feb-99**	**B-55**	**10.0**	**PCE**	**1.30**		**0.05**		**26**
TV-F&S 2000a	**Jul-99**	**TW-3**	**13.0**	**PCE**	**1.30**		**0.05**		**26**
Hart Crowser 1990b	**Oct-90**	**B-13/S-2**	**5**	**PCE**	**1.0**		**0.05**		**20**
TV-F&S 2000a	**Feb-99**	**B-54**	**14.0**	**PCE**	**1.00**		**0.05**		**20**
TV-F&S 2001a	**Jul-00**	**NW-9**	**6.5**	**PCE**	**0.99**	**J**	**0.05**		**20**
TV-F&S 2000a	**Feb-99**	**B-53**	**8.5**	**PCE**	**0.97**		**0.05**		**19**
Hart Crowser 1992b	**Apr-92**	**B-31**	**1.5-3**	**PCE**	**0.94**		**0.05**		**19**
TV-F&S 2000a	**Jul-99**	**TW-6**	**9.0**	**PCE**	**0.81**		**0.05**		**16**
Ecology 1993a	**Jul-93**	**B-48**	**12**	**PCE**	**0.75**		**0.05**		**15**
ATI 1991a	**Aug-91**	**B-16/S7**	**16**	**PCE**	**0.73**		**0.05**		**15**
TV-F&S 2001a	**Jul-00**	**NW-10**	**6.5**	**PCE**	**0.68**	**J**	**0.05**		**14**
Ecology 1993b	**Jun-93**	**278089**		**PCE**	**0.67**		**0.05**		**13**
Hart Crowser 1990b	**Oct-90**	**B-14/S-3**	**11.5**	**PCE**	**0.640**		**0.05**		**13**
Ecology 1993a	**Jul-93**	**B-47**	**12**	**PCE**	**0.61**	**J**	**0.05**		**12**
TV-F&S 2000a	**Jul-99**	**B-64**	**10.0**	**PCE**	**0.59**		**0.05**		**12**
TV-F&S 2000a	**Feb-99**	**B-56**	**11.0**	**PCE**	**0.58**		**0.05**		**12**
Hart Crowser 1990b	**1990**	**SP-6**		**PCE**	**0.550**		**0.05**		**11**
Hart Crowser 1993a	**Jun-93**	**B-45**	**44**	**PCE**	**0.54**		**0.05**		**11**
TV-F&S 2000a	**Jul-99**	**B-64**	**12.5**	**PCE**	**0.54**		**0.05**		**11**
Ecology 1993d	**Jul-93**	**B-51**	**12**	**PCE**	**0.51**		**0.05**		**10**
Hart Crowser 1990b	**Oct-90**	**SB8/S3**	**12.5**	**PCE**	**0.500**		**0.05**		**10**
TV-F&S 2000a	Feb-99	B-57	8.5	PCE	0.46		0.05		9.2
Hart Crowser 1992b	Apr-92	B-31	7.5-9	PCE	0.44		0.05		8.8
Hart Crowser 1992a	Oct-91	Comp D	0-1	PCE	0.42		0.05		8.4
Hart Crowser 1992a	Oct-91	H-1	2.5	PCE	0.40		0.05		8.0
TV-F&S 2000a	Sep-99	B-20A	12.5	PCE	0.38		0.05		7.6
Hart Crowser 1992a	Oct-91	Comp C	0-1	PCE	0.36		0.05		7.2
Hart Crowser 1992a	Oct-91	Comp B	0-1	PCE	0.34		0.05		6.8
TV-F&S 2001a	Jul-00	NW-2	6.5	PCE	0.34	J	0.05		6.8
Hart Crowser 1992a	Oct-91	Comp A	0-1	PCE	0.32		0.05		6.4
TV-F&S 2001a	Jul-00	NW-6	7.5	PCE	0.30	J	0.05		6.0
Hart Crowser 1990b	1990	SW-19E		PCE	0.300		0.05		6.0
Hart Crowser 1992b	Apr-92	B-29	13.5-15	PCE	0.27		0.05		5.4
TV-F&S 2001a	Jul-00	NW-1	8.0	PCE	0.27	J	0.05		5.4

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	1990	19/20-S		PCE	0.240		0.05		4.8
TV-F&S 2001a	Jul-00	NW-8	7.5	PCE	0.22	J	0.05		4.4
Hart Crowser 1993a	Jun-93	B-46	12	PCE	0.21		0.05		4.2
TV-F&S 2001a	Jul-00	NW-12	5.5	PCE	0.21	J	0.05		4.2
TV-F&S 2001a	Jul-00	NW-7	10.5	PCE	0.20	J	0.05		4.0
TV-F&S 2000a	Jul-99	TW-7	12.0	PCE	0.20		0.05		4.0
Hart Crowser 1992b	Mar-92	B-25	28-29.5	PCE	0.19		0.05		3.8
TV-F&S 2000a	Jul-99	B-60	10.0	PCE	0.19		0.05		3.8
Hart Crowser 1990b	Oct-90	SB6-2	7.5	PCE	0.19		0.05		3.8
Ecology 1993b	Jun-93	278090		PCE	0.18		0.05		3.6
TV-F&S 2000a	Jul-99	B-58	10.0	PCE	0.17		0.05		3.4
Ecology 1993b	Jun-93	278090 (DUP)		PCE	0.16		0.05		3.2
TV-F&S 2001a	Jul-00	NW-5	6.5	PCE	0.16	J	0.05		3.2
TV-F&S 2001a	Jul-00	NW-9	10.5	PCE	0.14	J	0.05		2.8
TV-F&S 2000a	Jul-99	B-61	24.5	PCE	0.13		0.05		2.6
Hart Crowser 1990b	1990	SW-13		PCE	0.130		0.05		2.6
TV-F&S 2000a	Jul-99	TW-7	9.0	PCE	0.13		0.05		2.6
Ecology 1993b	Jun-93	278088		PCE	0.12		0.05		2.4
Hart Crowser 1992b	Apr-92	B-21	48-49.5	PCE	0.12		0.05		2.4
TV-F&S 2001a	Jul-00	NW-12	10.0	PCE	0.12	J	0.05		2.4
Hart Crowser 1992b	Mar-92	B-26 (DUP)	12-13.5	PCE	0.11		0.05		2.2
Ecology 1993d	Jul-93	B-52	12	PCE	0.1		0.05		2.0
TV-F&S 2001a	Jul-00	NW-4	6.5	PCE	0.10	J	0.05		2.0
Hart Crowser 1992a	Jan-91	SB-12	13	PCE	0.098		0.05		2.0
Hart Crowser 1992b	Mar-92	B-28	13.5-15	PCE	0.096		0.05		1.9
TV-F&S 2001a	Jul-00	NW-2	10.5	PCE	0.093	J	0.05		1.9
Hart Crowser 1990b	Sep-90	B-6/S-11	27	PCE	0.092		0.05		1.8
TV-F&S 2001a	Jul-00	NW-7	6.5	PCE	0.086	J	0.05		1.7
TV-F&S 2000a	Jul-99	B-62	16.0	PCE	0.076		0.05		1.5
TV-F&S 2001a	Jul-00	NW-3	10.5	PCE	0.074	J	0.05		1.5
Hart Crowser 1992b	Apr-92	B-23	47.5-49	PCE	0.073		0.05		1.5
Hart Crowser 1992a	Oct-91	G-3	7.5	PCE	0.073		0.05		1.5
Hart Crowser 1992b	Apr-92	B-27	44.5-46	PCE	0.072		0.05		1.4
TV-F&S 2000a	Jul-99	B-61	13.5	PCE	0.072		0.05		1.4
TV-F&S 2000a	Jul-99	B-61	43.5	PCE	0.071		0.05		1.4
TV-F&S 2000a	Feb-99	B-54	9.0	PCE	0.07		0.05		1.4
TV-F&S 2000a	Feb-99	B-57	14.5	PCE	0.067		0.05		1.3
TV-F&S 2001a	Jul-00	NW-3	6.5	PCE	0.061	J	0.05		1.2
Hart Crowser 1990a	May-89	B-1		PCE	0.058		0.05		1.2

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	Sep-90	B-8/S-7	18	PCE	0.058		0.05		1.2
Ecology 1993b	Jun-93	278087		PCE	0.055	J	0.05		1.1
Hart Crowser 1992a	Jan-91	SB-12	2.5	PCE	0.05		0.05		1.0
Hart Crowser 1990b	1990	15/16-N		PCE	0.044		0.05		0.9
Hart Crowser 1990b	1990	15/16-S		PCE	0.042		0.05		0.8
Hart Crowser 1990b	1990	SP-3		PCE	0.035		0.05		0.7
Hart Crowser 1990b	1990	SP-5		PCE	0.033		0.05		0.7
Hart Crowser 1992a	Jan-91	B-15	17	PCE	0.026		0.05		0.5
Hart Crowser 1990b	1990	SW-4		PCE	0.026		0.05		0.5
Ecology 1993b	Jun-93	278086		PCE	0.024		0.05		0.5
Hart Crowser 1990b	1990	SW-7		PCE	0.020		0.05		0.4
Hart Crowser 1992a	Jan-91	B-15	12.5	PCE	0.016		0.05		0.3
Hart Crowser 1990b	1990	SW-14		PCE	0.013		0.05		0.3
Hart Crowser 1990b	1990	SP-1		PCE	0.012		0.05		0.2
Hart Crowser 1990b	1990	15/16-C		PCE	0.011		0.05		0.2
Hart Crowser 1990b	1990	SW-8		PCE	0.011		0.05		0.2
Hart Crowser 1990b	1990	SW-9		PCE	0.011		0.05		0.2
Hart Crowser 1990b	1990	SW-19E		PCE	0.010		0.05		0.2
Ecology 1991b	Aug-91	B-16	13.5	PCE	0.0091		0.05		0.2
Hart Crowser 1990b	Oct-90	B-13/S-4	10	PCE	0.008		0.05		0.2
Hart Crowser 1990b	Sep-90	B-5/S-2	5	PCE	0.004		0.05		0.1
Hart Crowser 1992a	Jan-91	SB-12	7.5	PCE	0.003		0.05		0.1
Ecology 1991b	Aug-91	B-16	15	PCE	0.0006	J	0.05		0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	PeCDD (total)	2.34E-08				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	PeCDD (total)	1.13E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	PeCDF (total)	7.34E-08				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	PeCDF (total)	1.75E-08				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	PeCDF (total)	4.4E-09				
ATI 1991a	**Aug-91**	**B-16/S2**	**10**	**Pentachlorophenol**	**490**	**D**	**8.3**	**0.037**	**13,243**
Hart Crowser 1993a	**Aug-92**	**B-38**	**9-11**	**Pentachlorophenol**	**71**		**8.3**	**0.037**	**1,919**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**Pentachlorophenol**	**29**		**8.3**	**0.73**	**40**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Pentachlorophenol**	**22**		**8.3**	**0.037**	**595**
Hart Crowser 1992a	**Jan-91**	**SB-11**	**13**	**Pentachlorophenol**	**22**		**8.3**	**0.037**	**595**
Ecology 1993a	**Jul-93**	**B-50**	**6**	**Pentachlorophenol**	**19**	**J**	**8.3**	**0.73**	**26**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Pentachlorophenol**	**13**		**8.3**	**0.037**	**351**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Pentachlorophenol**	**12**		**8.3**	**0.037**	**324**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Pentachlorophenol**	**11**		**8.3**	**0.037**	**297**
Ecology 1993a	**Jul-93**	**B-47**	**12**	**Pentachlorophenol**	**9.4**	**J**	**8.3**	**0.037**	**254**
Ecology 1993a	**Jul-93**	**B-50**	**10**	**Pentachlorophenol**	**7.7**	**J**	**8.3**	**0.037**	**208**

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	**Apr-92**	**B-30 (surface fines)**	**0**	**Pentachlorophenol**	**7.6**		**8.3**	**0.73**	**10**
Hart Crowser 1992a	**Jan-91**	**B-15**	**17**	**Pentachlorophenol**	**7.5**		**8.3**	**0.037**	**203**
Hart Crowser 1992a	Jan-91	B-15	2.5	Pentachlorophenol	6.3		8.3	0.73	8.6
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Pentachlorophenol	5.5		8.3	0.73	7.5
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Pentachlorophenol**	**5**		**8.3**	**0.037**	**135**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Pentachlorophenol**	**4.7**		**8.3**	**0.037**	**127**
Hart Crowser 1992b	**Apr-92**	**B-31**	**10.5-12**	**Pentachlorophenol**	**4.4**		**8.3**	**0.037**	**119**
Hart Crowser 1995	**Jul-95**	**HC-GW-1**		**Pentachlorophenol**	**4.4**		**8.3**	**0.037**	**119**
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Pentachlorophenol	4.2		8.3	0.73	5.8
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Pentachlorophenol**	**4**		**8.3**	**0.037**	**108**
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Pentachlorophenol	3.4		8.3	0.73	4.7
Ecology 1993a	**Jul-93**	**B-49**	**15**	**Pentachlorophenol**	**2.9**		**8.3**	**0.037**	**78**
ATI 1991a	**Aug-91**	**B-16/S7**	**16**	**Pentachlorophenol**	**2.7**		**8.3**	**0.037**	**73**
Hart Crowser 1993a	Aug-92	B-37	2-4	Pentachlorophenol	2.7		8.3	0.73	3.7
Hart Crowser 1993a	**Aug-92**	**B-38**	**9-11**	**Pentachlorophenol**	**2.7**		**8.3**	**0.037**	**73**
ATI 1991a	**Aug-91**	**B-17/S1**	**18**	**Pentachlorophenol**	**2.2**		**8.3**	**0.037**	**59**
Hart Crowser 1992b	**Apr-92**	**B-31**	**10.5-12**	**Pentachlorophenol**	**2**		**8.3**	**0.037**	**54**
Hart Crowser 1992a	**Jan-91**	**SB-11**	**7.5**	**Pentachlorophenol**	**1.5**		**8.3**	**0.037**	**41**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**12.5**	**Pentachlorophenol**	**1**		**8.3**	**0.037**	**27**
ATI 1991a	**Aug-91**	**B-16/S2**	**10**	**Pentachlorophenol**	**0.97**		**8.3**	**0.037**	**26**
Ecology 1993b	**Jun-93**	**278086**		**Pentachlorophenol**	**0.89**		**8.3**	**0.037**	**24**
Hart Crowser 1992a	Oct-91	Comp A	0-1	Pentachlorophenol	0.89	J	8.3	0.73	1.2
Ecology 1993b	**Jun-93**	**278089**		**Pentachlorophenol**	**0.68**		**8.3**	**0.037**	**18**
Ecology 1993b	**Jun-93**	**278087**		**Pentachlorophenol**	**0.46**	**J**	**8.3**	**0.037**	**12**
Ecology 1993b	**Jun-93**	**278088**		**Pentachlorophenol**	**0.45**		**8.3**	**0.037**	**12**
Ecology 1993a	**Jul-93**	**B-48**	**12**	**Pentachlorophenol**	**0.42**		**8.3**	**0.037**	**11**
Hart Crowser 1993a	Aug-92	B-37	2-4	Pentachlorophenol	0.34		8.3	0.73	0.5
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Pentachlorophenol	0.25		8.3	0.73	0.3
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Pentachlorophenol	0.22		8.3	0.73	0.3
Hart Crowser 1992a	Jan-91	SB-12	7.5	Pentachlorophenol	0.14	J	8.3	0.037	3.8
Ecology 1993b	Jun-93	278090		Pentachlorophenol	0.13	J	8.3	0.037	3.5
Ecology 1993d	Jul-93	B-51	12	Pentachlorophenol	0.13	J	8.3	0.037	3.5
Hart Crowser 1993a	Aug-92	B-35	28-30	Pentachlorophenol	0.075		8.3	0.037	2.0
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Pentachlorophenol	0.055		8.3	0.037	1.5
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Pentachlorophenol	0.029		8.3	0.73	0.0
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Pentachlorophenol	0.027		8.3	0.037	0.7
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Pentachlorophenol	0.022		8.3	0.037	0.6
Hart Crowser 1993a	Aug-92	B-37	22-24	Pentachlorophenol	0.011		8.3	0.037	0.3
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Pentachlorophenol	0.0062		8.3	0.037	0.2

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Pentachlorophenol	0.005		8.3	0.037	0.1
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Pentachlorophenol	0.0047		8.3	0.73	0.0
Hart Crowser 1993a	Aug-92	B-32	0-3	Pentachlorophenol	0.0043	J	8.3	0.73	0.0
Hart Crowser 1993a	Aug-92	B-35	8-10	Pentachlorophenol	0.0038		8.3	0.037	0.1
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Pentachlorophenol	0.0037		8.3	0.037	0.1
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Pentachlorophenol	0.0029		8.3	0.73	0.0
Hart Crowser 1993a	Aug-92	B-36	9-11	Pentachlorophenol	0.0027		8.3	0.037	0.1
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Pentachlorophenol	0.0026		8.3	0.037	0.1
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Pentachlorophenol	0.0024		8.3	0.037	0.1
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Pentachlorophenol	0.0023		8.3	0.73	0.0
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Pentachlorophenol	0.0023		8.3	0.73	0.0
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Pentachlorophenol	0.0023		8.3	0.73	0.0
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Pentachlorophenol	0.0021		8.3	0.73	0.0
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Phenanthrene	2.4			9.7	0.2
Ecology 1993a	Jul-93	B-49	15	Phenanthrene	1.1			0.49	2.2
Ecology 1993a	Jul-93	B-50	6	Phenanthrene	1.1			9.7	0.1
Hart Crowser 1995	Jul-95	HC-GW-1		Phenanthrene	1.1			0.49	2.2
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Phenanthrene	1			9.7	0.1
Ecology 1993a	Jul-93	B-50	10	Phenanthrene	0.89			0.49	1.8
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Phenanthrene	0.84			9.7	0.1
Hart Crowser 1992a	Oct-91	Comp F	0-1	Phenanthrene	0.48			9.7	0.0
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Phenanthrene	0.33			9.7	0.0
Hart Crowser 1992a	Jan-91	SB-11	7.5	Phenanthrene	0.22			0.49	0.4
Hart Crowser 1990b	1990	15/16-N		Propylene Glycol	0.012		1,600,000		0.0
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Pyrene	3.1		2,400	28	0.1
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Pyrene	0.97		2,400	28	0.0
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Pyrene	0.83		2,400	28	0.0
Ecology 1993a	Jul-93	B-49	15	Pyrene	0.81		2,400	1.4	0.6
Ecology 1993a	Jul-93	B-50	10	Pyrene	0.41	J	2,400	1.4	0.3
Ecology 1993a	Jul-93	B-50	6	Pyrene	0.39	J	2,400	28	0.0
Hart Crowser 1992a	Oct-91	Comp A	0-1	Pyrene	0.33	J	2,400	28	0.0
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Pyrene	0.32		2,400	28	0.0
Hart Crowser 1992a	Oct-91	Comp F	0-1	Pyrene	0.32		2,400	28	0.0
Hart Crowser 1992a	Jan-91	SB-11	7.5	Pyrene	0.11		2,400	1.4	0.1
Hart Crowser 1995	Jul-95	HC-GW-1 (DUP)		Stoddard Solvent	890				
Hart Crowser 1995	Jul-95	HC-GW-1		Stoddard Solvent	850				
Hart Crowser 1990b	1990	25-S		Stoddard Solvent	2,200				
Hart Crowser 1990b	1990	21-C		Stoddard Solvent	14				
Hart Crowser 1990b	1990	7/8-S		Stoddard Solvent	7.6				

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	1990	SW-19E		Stoddard Solvent	6.9				
Hart Crowser 1990b	1990	5/6-N		Stoddard Solvent	3.3				
Hart Crowser 1990b	1990	15/16-N		Stoddard Solvent	2.9				
Hart Crowser 1992a	Jan-91	SB-10	2.5	Styrene	200		33		6.1
Hart Crowser 1992a	Jan-91	SB-10	17	Styrene	100		33		3.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Styrene	40		33		1.2
Hart Crowser 1992a	Jan-91	SB-10	12.5	Styrene	19		33		0.6
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Styrene	10		33		0.3
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Styrene	8.9		33		0.3
Ecology 1993a	Jul-93	B-47	12	Styrene	0.28		33		0.0
Ecology 1993b	Jun-93	278089		Styrene	0.021	J	33		0.0
Hart Crowser 1992a	Jan-91	SB-12	13	Styrene	0.007		33		0.0
Hart Crowser 1992b	Apr-92	B-30	14.5-16	TCDD (total)	1.7E-09	J			
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	TCDF (total)	9.42E-08				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	TCDF (total)	2.99E-08				
Hart Crowser 1992b	Apr-92	B-31	10.5-12	TCDF (total)	5.8E-10	J			
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**TCE**	**1,100**		**0.03**		**36,667**
Hart Crowser 1990b	**Oct-90**	**B-7/S-3**	**7.5**	**TCE**	**980**		**0.03**		**32,667**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**TCE**	**940**		**0.03**		**31,333**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**TCE**	**820**		**0.03**		**27,333**
Hart Crowser 1990b	**1990**	**PT-3**		**TCE**	**550**		**0.03**		**18,333**
Hart Crowser 1990b	**1990**	**PT-2**		**TCE**	**230**		**0.03**		**7,667**
Hart Crowser 1990b	**Oct-90**	**SB4/S1**	**1.5**	**TCE**	**220**		**0.03**		**7,333**
Hart Crowser 1990b	**1990**	**25-S**		**TCE**	**210**		**0.03**		**7,000**
Hart Crowser 1990b	**1990**	**25-S**		**TCE**	**180**		**0.03**		**6,000**
Hart Crowser 1990b	**1990**	**PT-1**		**TCE**	**150**		**0.03**		**5,000**
Hart Crowser 1990b	**1990**	**PT-5**		**TCE**	**78**		**0.03**		**2,600**
Hart Crowser 1990b	**1990**	**PT-4**		**TCE**	**59**		**0.03**		**1,967**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**TCE**	**38**		**0.03**		**1,267**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**TCE**	**29**		**0.03**		**967**
Hart Crowser 1993a	**Jul-93**	**B-47**	**6**	**TCE**	**17**		**0.03**		**567**
Hart Crowser 1992b	**Apr-92**	**B-31**	**10.5-12**	**TCE**	**11**		**0.03**		**367**
Hart Crowser 1993a	**Jun-93**	**B-43 (DUP)**	**12**	**TCE**	**10**		**0.03**		**333**
Hart Crowser 1993a	**Jun-93**	**B-43**	**12**	**TCE**	**9.7**		**0.03**		**323**
Hart Crowser 1995	**Jul-95**	**HC-GW-1**		**TCE**	**9**		**0.03**		**300**
Hart Crowser 1995	**Jul-95**	**HC-GW-1 (DUP)**		**TCE**	**8.6**		**0.03**		**287**
Hart Crowser 1990a	**May-90**	**B2-S3**	**10**	**TCE**	**7.7**		**0.03**		**257**
Hart Crowser 1990b	**1990**	**21-C**		**TCE**	**4.9**		**0.03**		**163**
Hart Crowser 1990b	**Oct-90**	**SB7/S3**	**12.5**	**TCE**	**4.8**		**0.03**		**160**

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1993a	**Jul-93**	**B-48 (DUP)**	**12**	**TCE**	**4.7**		**0.03**		**157**
Hart Crowser 1993a	**Jun-93**	**B-44**	**14**	**TCE**	**4.3**		**0.03**		**143**
Hart Crowser 1993a	**Jun-93**	**B-45**	**44**	**TCE**	**4.3**		**0.03**		**143**
Hart Crowser 1993a	**Jul-93**	**B-48**	**12**	**TCE**	**4.2**		**0.03**		**140**
Hart Crowser 1990b	**Oct-90**	**B-11/S-4**	**10**	**TCE**	**3.4**		**0.03**		**113**
Ecology 1993a	**Jul-93**	**B-50**	**10**	**TCE**	**3.3**		**0.03**		**110**
TV-F&S 2000a	**Feb-99**	**B-54**	**9.0**	**TCE**	**3.00**		**0.03**		**100**
Ecology 1993a	**Jul-93**	**B-48**	**12**	**TCE**	**2.6**		**0.03**		**87**
Hart Crowser 1993a	**Jun-93**	**B-43**	**10**	**TCE**	**1.8**		**0.03**		**60**
Hart Crowser 1992b	**Apr-92**	**B-21**	**48-49.5**	**TCE**	**1.2**		**0.03**		**40**
Hart Crowser 1993a	**Jul-93**	**B-49**	**12**	**TCE**	**1.2**		**0.03**		**40**
Hart Crowser 1992a	**Jan-91**	**SB-11**	**2.5**	**TCE**	**0.92**		**0.03**		**31**
Hart Crowser 1992b	**Apr-92**	**B-30**	**4-5.5**	**TCE**	**0.87**		**0.03**		**29**
TV-F&S 2000a	**Jul-99**	**TW-6**	**12.0**	**TCE**	**0.79**		**0.03**		**26**
Ecology 1993a	**Jul-93**	**B-47**	**12**	**TCE**	**0.75**		**0.03**		**25**
TV-F&S 2000a	**Jul-99**	**TW-3**	**13.0**	**TCE**	**0.69**		**0.03**		**23**
Hart Crowser 1993a	**Aug-92**	**B-32**	**0-3**	**TCE**	**0.66**		**0.03**		**22**
Ecology 1993a	**Jul-93**	**B-49**	**15**	**TCE**	**0.66**		**0.03**		**22**
Ecology 1993a	**Jul-93**	**B-49 (DUP)**	**15**	**TCE**	**0.64**	**J**	**0.03**		**21**
Hart Crowser 1992b	**Apr-92**	**B-21 (DUP)**	**48-49.5**	**TCE**	**0.57**		**0.03**		**19**
Hart Crowser 1993a	**Jun-93**	**B-46**	**10**	**TCE**	**0.48**		**0.03**		**16**
Hart Crowser 1992a	**Jan-91**	**SB-12**	**2.5**	**TCE**	**0.47**		**0.03**		**16**
Hart Crowser 1993a	**Jul-93**	**B-50**	**11**	**TCE**	**0.46**		**0.03**		**15**
Hart Crowser 1993a	**Jul-93**	**B-50**	**12**	**TCE**	**0.46**		**0.03**		**15**
Hart Crowser 1992b	**Mar-92**	**B-22 (DUP)**	**10.5-12**	**TCE**	**0.39**		**0.03**		**13**
Hart Crowser 1992a	**Jan-91**	**SB-11**	**13**	**TCE**	**0.37**		**0.03**		**12**
Hart Crowser 1990b	**Sep-90**	**B-9/S-6**	**15**	**TCE**	**0.3**		**0.03**		**10**
Hart Crowser 1993a	Jun-93	B-45	14	TCE	0.28		0.03		9.3
Hart Crowser 1993a	Jun-93	B-45 (DUP)	14	TCE	0.28		0.03		9.3
TV-F&S 2000a	Jul-99	B-61	43.5	TCE	0.26		0.03		8.7
Hart Crowser 1992b	Apr-92	B-21	22.5-24	TCE	0.22		0.03		7.3
Ecology 1993d	Jul-93	B-51	12	TCE	0.22		0.03		7.3
TV-F&S 2000a	Jul-99	B-64	10.0	TCE	0.14		0.03		4.7
TV-F&S 2000a	Feb-99	B-54	14.0	TCE	0.13		0.03		4.3
TV-F&S 2000a	Jul-99	TW-1	11.0	TCE	0.12		0.03		4.0
Ecology 1993b	Jun-93	278089		TCE	0.11		0.03		3.7
Ecology 1993b	Jun-93	278090 (DUP)		TCE	0.1		0.03		3.3
Hart Crowser 1992a	Oct-91	Comp A	0-1	TCE	0.094		0.03		3.1
Ecology 1993b	Jun-93	278090		TCE	0.091		0.03		3.0

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Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990a	May-89	B-1		TCE	0.071		0.03		2.4
Hart Crowser 1992b	Mar-92	B-26 (DUP)	12-13.5	TCE	0.07		0.03		2.3
Ecology 1993b	Jun-93	278088		TCE	0.017	J	0.03		0.6
Hart Crowser 1992a	Jan-91	SB-12	13	TCE	0.015		0.03		0.5
Hart Crowser 1990b	Sep-90	B-8/S-7	18	TCE	0.014		0.03		0.5
Hart Crowser 1990b	Sep-90	B-6/S-11	27	TCE	0.008		0.03		0.3
Hart Crowser 1992a	Jan-91	B-15	17	TCE	0.003		0.03		0.1
Hart Crowser 1993a	Aug-92	B-38	9-11	Tetrachlorophenols (total)	38				
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Tetrachlorophenols (total)	0.9				
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Tetrachlorophenols (total)	0.79				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Tetrachlorophenols (total)	0.73				
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Tetrachlorophenols (total)	0.02				
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Thinner Hydrocarbons	2300				
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Thinner Hydrocarbons	2300				
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Thinner Hydrocarbons	2100				
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Thinner Hydrocarbons	1400				
Hart Crowser 1993a	Aug-92	B-37	2-4	Thinner Hydrocarbons	1310				
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Thinner Hydrocarbons	1100				
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Thinner Hydrocarbons	580				
Hart Crowser 1993a	Aug-92	B-38	9-11	Thinner Hydrocarbons	45				
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Thinner Hydrocarbons	39				
Hart Crowser 1990b	**1990**	**PT-3**		**Toluene**	**1,800**	**J**	**7**		**257**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Toluene**	**1,500**		**7**		**214**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Toluene**	**1,100**		**7**		**157**
Hart Crowser 1990b	**1990**	**PT-1**		**Toluene**	**800**	**J**	**7**		**114**
Hart Crowser 1990b	**Oct-90**	**B-7/S-3**	**7.5**	**Toluene**	**630**		**7**		**90**
Hart Crowser 1990b	**1990**	**PT-1**		**Toluene**	**250**		**7**		**36**
Hart Crowser 1990b	**1990**	**PT-2**		**Toluene**	**230**		**7**		**33**
Hart Crowser 1990b	**1990**	**PT-5**		**Toluene**	**180**		**7**		**26**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Toluene**	**160**		**7**		**23**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Toluene**	**140**		**7**		**20**
Hart Crowser 1990b	**1990**	**PT-4**		**Toluene**	**140**		**7**		**20**
Hart Crowser 1990b	**Oct-90**	**SB4/S1**	**1.5**	**Toluene**	**110**		**7**		**16**
Hart Crowser 1992a	Jan-91	SB-10	12.5	Toluene	46		7		6.6
Hart Crowser 1990a	May-90	B2-S3	10	Toluene	40		7		5.7
Hart Crowser 1990b	1990	25-S		Toluene	37		7		5.3
Hart Crowser 1990b	1990	25-S		Toluene	30		7		4.3
Hart Crowser 1990a	May-90	B2-S3	10	Toluene	30	K	7		4.3
Hart Crowser 1990b	1990	21-C		Toluene	28		7		4.0

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Hart Crowser 1995	Jul-95	HC-GW-1		Toluene	28		7		4.0
Hart Crowser 1995	Jul-95	HC-GW-1 (DUP)		Toluene	27		7		3.9
Hart Crowser 1990b	Oct-90	B-7/S-7B		Toluene	21		7		3.0
Hart Crowser 1990b	1990	SP-2		Toluene	21		7		3.0
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Toluene	10		7		1.4
Hart Crowser 1992a	Jan-91	SB-12	2.5	Toluene	4.7		7		0.7
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Toluene	4.3		7		0.6
Ecology 1993a	Jul-93	B-47	12	Toluene	3.9		7		0.6
Hart Crowser 1990b	1990	SB3/S2		Toluene	2.7		7		0.4
Hart Crowser 1990b	Oct-90	SB4/S1	1.5	Toluene	2.1		7		0.3
Hart Crowser 1990b	Oct-90	B-11/S-4	10	Toluene	1.8		7		0.3
Hart Crowser 1990b	Oct-90	SB9/S2	7.5	Toluene	1.2		7		0.2
Ecology 1993a	Jul-93	B-49	15	Toluene	1.1		7		0.2
Ecology 1993a	Jul-93	B-48	12	Toluene	1		7		0.1
Ecology 1993a	Jul-93	B-49 (DUP)	15	Toluene	0.88		7		0.1
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Toluene	0.55		7		0.1
Hart Crowser 1990b	1990	SB1/S3		Toluene	0.500		7		0.1
Ecology 1993a	Jul-93	B-50	10	Toluene	0.47	J	7		0.1
Ecology 1993b	Jun-93	278089		Toluene	0.44		7		0.1
Hart Crowser 1990b	1990	17/18-C		Toluene	0.430		7		0.1
Hart Crowser 1992a	Jan-91	SB-11	2.5	Toluene	0.35		7		0.1
Hart Crowser 1992a	Jan-91	SB-11	13	Toluene	0.34		7		0.0
Hart Crowser 1990b	Oct-90	B-10A/S-1	7.5	Toluene	0.28		7		0.0
Hart Crowser 1993a	Aug-92	B-35	28-30	Toluene	0.23		7		0.0
Hart Crowser 1990b	1990	7/8-S		Toluene	0.180		7		0.0
Hart Crowser 1992a	Jan-91	SB-12	13	Toluene	0.18		7		0.0
TV-F&S 2000a	Jul-99	TW-1	11.0	Toluene	0.12		7		0.0
Ecology 1993d	Jul-93	B-51	12	Toluene	0.096		7		0.0
Ecology 1993d	Jul-93	B-52	12	Toluene	0.088		7		0.0
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Toluene	0.08		7		0.0
Hart Crowser 1990b	1990	19/20-S		Toluene	0.077		7		0.0
Hart Crowser 1990b	1990	SP-6		Toluene	0.062		7		0.0
Ecology 1993b	Jun-93	278087		Toluene	0.042	J	7		0.0
Hart Crowser 1992a	Jan-91	B-15	17	Toluene	0.034		7		0.0
Hart Crowser 1990b	1990	SP-3		Toluene	0.026		7		0.0
Hart Crowser 1990b	1990	15/16-S		Toluene	0.016		7		0.0
Hart Crowser 1990b	1990	SW-13		Toluene	0.013		7		0.0
Hart Crowser 1990b	1990	7/8-S		Toluene	0.011		7		0.0
Hart Crowser 1990b	1990	1/2-C		Toluene	0.010		7		0.0

Table E-1
Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Ecology 1993b	Jun-93	278090		Toluene	0.007	J	7		0.0
Ecology 1993b	Jun-93	278090 (DUP)		Toluene	0.006	J	7		0.0
Ecology 1991b	Aug-91	B-16	15	Toluene	0.0039		7		0.0
Hart Crowser 1990b	Oct-90	B-12/S-1	2.5	Total Hydrocarbons	531		2,000		0.3
Hart Crowser 1990b	1990	PT-5		Total Hydrocarbons (Heavy)	210		2,000		0.1
Hart Crowser 1990b	1990	PT-3		Total Hydrocarbons (Heavy)	0.760		2,000		0.0
Hart Crowser 1990b	**1990**	**PT-3**		**Total Hydrocarbons (Light)**	**20,000**		**30**		**667**
Hart Crowser 1990b	**Oct-90**	**B-7/S-3**	**7.5**	**Total Hydrocarbons (Light)**	**14,000**		**30**		**467**
Hart Crowser 1990b	**1990**	**PT-5**		**Total Hydrocarbons (Light)**	**13,000**		**30**		**433**
Hart Crowser 1990b	**1990**	**PT-4**		**Total Hydrocarbons (Light)**	**6,400**		**30**		**213**
Hart Crowser 1990b	**1990**	**SB3/S2**		**Total Hydrocarbons (Light)**	**6,400**		**30**		**213**
Hart Crowser 1990b	**1990**	**PT-2**		**Total Hydrocarbons (Light)**	**4,200**		**30**		**140**
Hart Crowser 1990b	**Oct-90**	**SB4/S1**	**1.5**	**Total Hydrocarbons (Light)**	**2,100**		**30**		**70**
Hart Crowser 1990b	**Oct-90**	**SB5/S3**	**12.5**	**Total Hydrocarbons (Light)**	**700**		**30**		**23**
Hart Crowser 1990b	**1990**	**SB1/S3**		**Total Hydrocarbons (Light)**	**400**		**30**		**13**
Hart Crowser 1990b	**Oct-90**	**B-7/S-7B**		**Total Hydrocarbons (Light)**	**310**		**30**		**10**
Hart Crowser 1990a	May-90	B2-S3	10	Total Petroleum Hydrocarbons	1,900		2,000		0.95
Hart Crowser 1990a	May-90	B3-S3	10	Total Petroleum Hydrocarbons	1,500		2,000		0.8
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Vinyl Chloride	0.2		0.67		0.3
TV-F&S 2000a	Jul-99	TW-1	11.0	Vinyl Chloride	0.18		0.67		0.3
TV-F&S 2000a	Jul-99	B-58	12.5	Vinyl Chloride	0.16		0.67		0.2
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Vinyl Chloride	0.14		0.67		0.2
Ecology 1993a	Jul-93	B-48	12	Vinyl Chloride	0.12		0.67		0.2
Hart Crowser 1992a	**Jan-91**	**SB-10**	**17**	**Xylenes (total)**	**1,200**		**9**		**133**
Hart Crowser 1990b	**1990**	**PT-1**		**Xylenes (total)**	**960**		**9**		**107**
Hart Crowser 1992a	**Jan-91**	**SB-10**	**2.5**	**Xylenes (total)**	**880**		**9**		**98**
Hart Crowser 1990b	**1990**	**PT-3**		**Xylenes (total)**	**840**		**9**		**93**
Hart Crowser 1990b	**1990**	**25-S**		**Xylenes (total)**	**820**		**9**		**91**
Hart Crowser 1990b	**1990**	**25-S**		**Xylenes (total)**	**680**		**9**		**76**
Hart Crowser 1990b	**Oct-90**	**B-7/S-3**	**7.5**	**Xylenes (total)**	**570**		**9**		**63**
Hart Crowser 1992b	**Apr-92**	**B-30**	**14.5-16**	**Xylenes (total)**	**410**		**9**		**46**
Hart Crowser 1990b	**1990**	**PT-5**		**Xylenes (total)**	**370**		**9**		**41**
Hart Crowser 1990b	**1990**	**PT-1**		**Xylenes (total)**	**340**		**9**		**38**
Hart Crowser 1990a	**May-90**	**B2-S3**	**10**	**Xylenes (total)**	**270**		**9**		**30**
Hart Crowser 1990b	**1990**	**PT-4**		**Xylenes (total)**	**180**		**9**		**20**
Hart Crowser 1990b	**Oct-90**	**SB4/S1**	**1.5**	**Xylenes (total)**	**150**		**9**		**17**
Hart Crowser 1992b	**Apr-92**	**B-30**	**10-11.5**	**Xylenes (total)**	**140**		**9**		**16**
Hart Crowser 1992b	**Apr-92**	**B-30 (DUP)**	**10-11.5**	**Xylenes (total)**	**130**		**9**		**14**
Hart Crowser 1990b	1990	21-C		Xylenes (total)	61		9		6.8

Table E-1
Chemicals Detected in Soil
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Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	1990	PT-2		Xylenes (total)	50		9		5.6
Hart Crowser 1992a	Jan-91	SB-10	12.5	Xylenes (total)	47		9		5.2
Hart Crowser 1990b	1990	17/18-C		Xylenes (total)	27		9		3.0
Hart Crowser 1995	Jul-95	HC-GW-1 (DUP)		Xylenes (total)	27		9		3.0
Hart Crowser 1995	Jul-95	HC-GW-1		Xylenes (total)	25		9		2.8
Hart Crowser 1990b	Oct-90	B-7/S-7B		Xylenes (total)	20		9		2.2
Hart Crowser 1990a	May-90	B3-S3	10	Xylenes (total)	13	M	9		1.4
Hart Crowser 1990b	Oct-90	SB7/S3	12.5	Xylenes (total)	7.2		9		0.8
Hart Crowser 1990b	Oct-90	SB5/S3	12.5	Xylenes (total)	6.3		9		0.7
Hart Crowser 1992a	Jan-91	B-15	2.5	Xylenes (total)	3.9		9		0.4
Hart Crowser 1990b	1990	SB1/S3		Xylenes (total)	3.8		9		0.4
Hart Crowser 1990b	Oct-90	B-10A/S-1	7.5	Xylenes (total)	1.9		9		0.2
ATI 1991a	Aug-91	B-16/S2	10	Xylenes (total)	1.9		9		0.2
Ecology 1993a	Jul-93	B-50	10	Xylenes (total)	1.9		9		0.2
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Xylenes (total)	1.7		9		0.2
Hart Crowser 1992a	Jan-91	SB-12	13	Xylenes (total)	1.3		9		0.1
Hart Crowser 1990b	1990	SB3/S2		Xylenes (total)	1.3		9		0.1
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Xylenes (total)	1.1		9		0.1
Ecology 1993a	Jul-93	B-47	12	Xylenes (total)	1		9		0.1
Hart Crowser 1990b	Oct-90	B-11/S-4	10	Xylenes (total)	0.780		9		0.1
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Xylenes (total)	0.78		9		0.1
Ecology 1993a	Jul-93	B-49	15	Xylenes (total)	0.52		9		0.1
Ecology 1993a	Jul-93	B-49 (DUP)	15	Xylenes (total)	0.42	J	9		0.0
Hart Crowser 1990b	1990	19/20-S		Xylenes (total)	0.410		9		0.0
ATI 1991a	Aug-91	B-17/S1	18	Xylenes (total)	0.37		9		0.0
Hart Crowser 1990b	1990	SP-6		Xylenes (total)	0.320		9		0.0
Ecology 1993a	Jul-93	B-48	12	Xylenes (total)	0.23		9		0.0
ATI 1991a	Aug-91	B-16/S7	16	Xylenes (total)	0.20		9		0.0
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Xylenes (total)	0.18		9		0.0
Ecology 1991b	Aug-91	B-16	15	Xylenes (total)	0.15		9		0.0
ATI 1991a	Aug-91	B-16/S7	16	Xylenes (total)	0.15		9		0.0
Hart Crowser 1992a	Jan-91	SB-11	7.5	Xylenes (total)	0.13		9		0.0
Ecology 1993b	Jun-93	278089		Xylenes (total)	0.12		9		0.0
Ecology 1993d	Jul-93	B-52	12	Xylenes (total)	0.11		9		0.0
Hart Crowser 1990b	1990	15/16-S		Xylenes (total)	0.057		9		0.0
Ecology 1993d	Jul-93	B-51	12	Xylenes (total)	0.052	J	9		0.0
Hart Crowser 1990b	1990	SW-19E		Xylenes (total)	0.048		9		0.0
Hart Crowser 1990b	1990	SW-19E		Xylenes (total)	0.031		9		0.0
Hart Crowser 1990b	1990	SW-13		Xylenes (total)	0.028		9		0.0

Table E-1
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Source	Sample Date	Sample Location	Sample Depth (ft)	Chemical	Soil Conc'n (mg/kg DW)		MTCA Cleanup Level[a] (mg/kg)	Soil-to-Sediment Screening Level (Based on CSL)[b] (mg/kg)	Exceedance Factor
Hart Crowser 1990b	Sep-90	B-8/S-7	18	Xylenes (total)	0.016		9		0.0
Hart Crowser 1990b	1990	15/16-N		Xylenes (total)	0.009		9		0.0
Hart Crowser 1992a	Jan-91	B-15	17	Xylenes (total)	0.009		9		0.0
Hart Crowser 1992a	Jan-91	B-15	12.5	Xylenes (total)	0.007		9		0.0
Hart Crowser 1990b	1990	7/8-S		Xylenes (total)	0.006		9		0.0
Ecology 1991b	Aug-91	B-16	13.5	Xylenes (total)	0.0051		9		0.0
Ecology 1993b	Jun-93	278090		Xylenes (total)	0.002	J	9		0.0
Ecology 1993b	Jun-93	278090 (DUP)		Xylenes (total)	0.002	J	9		0.0
Hart Crowser 1992b	Apr-92	B-5 (surface fines)	0	Zinc	1,100		24,000	770	1.4
Hart Crowser 1992b	Apr-92	B-5 (surface total)	0	Zinc	880		24,000	770	1.1
Hart Crowser 1992b	Apr-92	B-29 (surface fines)	0	Zinc	360		24,000	770	0.5
Hart Crowser 1992b	Apr-92	B-29 (surface total)	0	Zinc	330		24,000	770	0.4
Hart Crowser 1992b	Apr-92	B-28 (surface total)	0	Zinc	310		24,000	770	0.4
Hart Crowser 1992b	Apr-92	B-28 (surface fines)	0	Zinc	280		24,000	770	0.4
Hart Crowser 1993a	Aug-92	B-36 (DUP)	9-11	Zinc	220		24,000	38	5.8
Hart Crowser 1992a	Jan-91	SB-10	2.5	Zinc	200		24,000	770	0.3
Hart Crowser 1993a	Aug-92	B-36	9-11	Zinc	180		24,000	38	4.7
Hart Crowser 1992b	Mar-92	B-22	1.5-3	Zinc	170		24,000	770	0.2
Hart Crowser 1993a	Aug-92	B-35	8-10	Zinc	150		24,000	38	3.9
Hart Crowser 1992b	Apr-92	B-29	13.5-15	Zinc	130		24,000	38	3.4
Hart Crowser 1992b	Mar-92	B-18	3-4.5	Zinc	110		24,000	770	0.1
Hart Crowser 1992b	Apr-92	B-31 (surface total)	0	Zinc	91		24,000	770	0.1
Hart Crowser 1992b	Apr-92	B-29	3-4.5	Zinc	74		24,000	770	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface fines)	0	Zinc	71		24,000	770	0.1
Hart Crowser 1992b	Apr-92	B-30 (surface total)	0	Zinc	71		24,000	770	0.1
Hart Crowser 1993a	Aug-92	B-38	9-11	Zinc	69		24,000	38	1.8
Hart Crowser 1992b	Apr-92	B-30	4-5.5	Zinc	59		24,000	770	0.1
ATI 1991a	Aug-91	B-16/S2	10	Zinc	51		24,000	38	1.3
Hart Crowser 1993a	Aug-92	B-32	0-3	Zinc	51		24,000	770	0.1
Hart Crowser 1992a	Jan-91	B-15	17	Zinc	49		24,000	38	1.3
Hart Crowser 1992a	Jan-91	B-15	2.5	Zinc	45		24,000	770	0.1
Hart Crowser 1992b	Apr-92	B-31 (surface fines)	0	Zinc	42		24,000	770	0.1
ATI 1991a	Aug-91	B-17/S1	18	Zinc	36		24,000	38	0.9
Hart Crowser 1992a	Jan-91	SB-12	2.5	Zinc	32		24,000	770	0.0
Hart Crowser 1992a	Jan-91	SB-11	13	Zinc	30		24,000	38	0.8
Ecology 1991a	Aug-91	B-16	13.5	Zinc	29.2		24,000	38	0.8
Hart Crowser 1992a	Jan-91	SB-12	13	Zinc	29		24,000	38	0.8
Hart Crowser 1992a	Oct-91	H-3	7.5	Zinc	28.5		24,000	38	0.8
Hart Crowser 1992a	Jan-91	SB-10	17	Zinc	28		24,000	38	0.7

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Fox Avenue Building (Former Great Western Chemical)

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Hart Crowser 1993a	Aug-92	B-33	38.5-40	Zinc	27		24,000	38	0.7
Hart Crowser 1993a	Aug-92	B-34	12.5-14.5	Zinc	26		24,000	38	0.7
Hart Crowser 1992b	Mar-92	B-24	3-4.5	Zinc	25		24,000	770	0.0
Hart Crowser 1992b	Apr-92	B-27	47.5-49	Zinc	25		24,000	38	0.7
Hart Crowser 1992a	Jan-91	SB-11	2.5	Zinc	25		24,000	770	0.0
Hart Crowser 1993a	Aug-92	B-37	2-4	Zinc	24		24,000	770	0.0
Hart Crowser 1992b	Mar-92	B-22	6-7.5	Zinc	23		24,000	38	0.6
Ecology 1991a	Aug-91	B-16	15	Zinc	22.8		24,000	38	0.6
Hart Crowser 1992b	Mar-92	B-20	3-4.5	Zinc	22		24,000	770	0.0
Hart Crowser 1992b	Mar-92	B-28	13.5-15	Zinc	22		24,000	38	0.6
Hart Crowser 1992b	Mar-92	B-22 (DUP)	10.5-12	Zinc	21		24,000	38	0.6
Hart Crowser 1992b	Apr-92	B-31	1.5-3	Zinc	21		24,000	770	0.0
Hart Crowser 1992b	Mar-92	B-22	10.5-12	Zinc	20		24,000	38	0.5
Hart Crowser 1992b	Mar-92	B-24	10.5-12	Zinc	20		24,000	38	0.5
Hart Crowser 1992b	Apr-92	B-31	10.5-12	Zinc	20		24,000	38	0.5
Hart Crowser 1992a	Jan-91	SB-10	12.5	Zinc	20		24,000	38	0.5
Hart Crowser 1992a	Jan-91	SB-12	7.5	Zinc	19		24,000	38	0.5
Hart Crowser 1992b	Apr-92	B-21	42-43.5	Zinc	18		24,000	38	0.5
Hart Crowser 1992b	Mar-92	B-26	12-13.5	Zinc	18		24,000	38	0.5
Hart Crowser 1992b	Apr-92	B-29	9-10.5	Zinc	18		24,000	38	0.5
Hart Crowser 1992b	Apr-92	B-30	14.5-16	Zinc	18		24,000	38	0.5
Hart Crowser 1992a	Jan-91	SB-11	7.5	Zinc	18		24,000	38	0.5
ATI 1991a	Aug-91	B-16/S7	16	Zinc	17		24,000	38	0.4
Hart Crowser 1992b	Apr-92	B-21 (DUP)	48-49.5	Zinc	17		24,000	38	0.4
Hart Crowser 1992a	Jan-91	B-15	12.5	Zinc	16		24,000	38	0.4
ATI 1991a	Aug-91	B-17/S6	37	Zinc	16		24,000	38	0.4
Hart Crowser 1992b	Apr-92	B-30	10-11.5	Zinc	16		24,000	38	0.4
Hart Crowser 1993a	Aug-92	B-32	7-9	Zinc	16		24,000	38	0.4
ATI 1991a	Aug-91	B-17/S2	22	Zinc	15		24,000	38	0.4
ATI 1991a	Aug-91	B-17/S7	39	Zinc	15		24,000	38	0.4
Hart Crowser 1992b	Mar-92	B-20	12-13.5	Zinc	15		24,000	38	0.4
Hart Crowser 1992b	Apr-92	B-21	22.5-24	Zinc	15		24,000	38	0.4
Hart Crowser 1992b	Mar-92	B-26	3-4.5	Zinc	15		24,000	770	0.0
Hart Crowser 1992b	Apr-92	B-30 (DUP)	10-11.5	Zinc	15		24,000	38	0.4
ATI 1991a	Aug-91	B-17/S12	46	Zinc	14		24,000	38	0.4
Hart Crowser 1992b	Mar-92	B-18	15-16.5	Zinc	14		24,000	38	0.4
Hart Crowser 1992b	Apr-92	B-19	26.5-28	Zinc	14		24,000	38	0.4
Hart Crowser 1993a	Aug-92	B-35	28-30	Zinc	14		24,000	38	0.4
Hart Crowser 1992b	Mar-92	B-20	7.5-9	Zinc	13		24,000	38	0.3

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Chemicals Detected in Soil
Fox Avenue Building (Former Great Western Chemical)

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Hart Crowser 1992b	Apr-92	B-21	48-49.5	Zinc	13		24,000	38	0.3
Hart Crowser 1992b	Mar-92	B-24	7.5-9	Zinc	13		24,000	38	0.3
Hart Crowser 1992b	Mar-92	B-26	6-7.5	Zinc	13		24,000	38	0.3
Hart Crowser 1992b	Mar-92	B-26 (DUP)	6-7.5	Zinc	13		24,000	38	0.3
Hart Crowser 1992b	Mar-92	B-28	4.5-6	Zinc	13		24,000	770	0.0
Hart Crowser 1992b	Apr-92	B-31	7.5-9	Zinc	13		24,000	38	0.3
Hart Crowser 1993a	Aug-92	B-37	22-24	Zinc	13		24,000	38	0.3
Hart Crowser 1992b	Apr-92	B-19	44.5-46	Zinc	12		24,000	38	0.3
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Zinc	12		24,000	38	0.3
Hart Crowser 1992b	Apr-92	B-27	44.5-46	Zinc	12		24,000	38	0.3
Hart Crowser 1993a	Aug-92	B-33	29.5-31	Zinc	12		24,000	38	0.3
Hart Crowser 1992b	Mar-92	B-18	7.5-9	Zinc	11		24,000	38	0.3
Hart Crowser 1992b	Mar-92	B-25	28-29.5	Zinc	11		24,000	38	0.3
Hart Crowser 1992b	Apr-92	B-23	47.5-49	Zinc	9.8		24,000	38	0.3
Hart Crowser 1992b	Mar-92	B-28	7.5-9	Zinc	9.2		24,000	38	0.2
Hart Crowser 1992b	Apr-92	B-23	26.5-28	Zinc	8.2		24,000	38	0.2

a - The lower of MTCA Method A or B cleanup levels was selected, from CLARC database
b - From: SAIC 2006. Where two screening levels are listed for a single chemical, the higher screening levels are for soil samples collected from the vadose zone and the lower screening levels are for soil samples collected from the saturated zone.

DW - dry weight
CSL - Contaminant Screening Level from Washington Sediment Management Standards
NA - Not available

Notes:
(1) Table presents detected chemicals only.
(2) Exceedance factors are the ratio of the detected concentration to the MTCA Cleanup Level or Soil-to-Sediment Screening Value, whichever is lower.
(3) Chemicals with exceedance factors greater than 10 are shown in **Bold**.

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Dec-98	B-13	1,1,1,2-TCA	1.59		1.7		0.9
Hart Crowser 1993a	**Jun-93**	**B-43**	**1,1,1-TCA**	**16,000**		**200**		**80**
Ecology 1993b	**Jun-93**	**278091**	**1,1,1-TCA**	**16,000**		**200**		**80**
Hart Crowser 1992b	**May-92**	**B-31**	**1,1,1-TCA**	**14,000**		**200**		**70**
Hart Crowser 1993a	**Jul-93**	**B-49**	**1,1,1-TCA**	**11,000**		**200**		**55**
Ecology 1993c	**Jul-93**	**B-49**	**1,1,1-TCA**	**11,000**		**200**		**55**
TV-F&S 2000a	**Nov-98**	**B-49**	**1,1,1-TCA**	**10,000**		**200**		**50**
Hart Crowser 1993a	**Aug-93**	**B-51**	**1,1,1-TCA**	**9,600**		**200**		**48**
Ecology 1993c	**Jul-93**	**B-27**	**1,1,1-TCA**	**9,300**		**200**		**47**
Hart Crowser 1992b	**May-92**	**B-30**	**1,1,1-TCA**	**9,300**		**200**		**47**
Hart Crowser 1993a	**Jul-93**	**B-47 (DUP)**	**1,1,1-TCA**	**8,900**		**200**		**45**
Hart Crowser 1993a	**Jul-93**	**B-47**	**1,1,1-TCA**	**8,700**		**200**		**44**
Hart Crowser 1993a	**Jun-93**	**B-44**	**1,1,1-TCA**	**8,100**		**200**		**41**
Ecology 1993b	**Jun-93**	**278092**	**1,1,1-TCA**	**6,300**		**200**		**32**
Ecology 1993c	**Jul-93**	**B-48**	**1,1,1-TCA**	**6,200**		**200**		**31**
Ecology 1993c	**Jul-93**	**B-48 (DUP)**	**1,1,1-TCA**	**6,000**		**200**		**30**
Hart Crowser 1993a	**Jul-93**	**B-48**	**1,1,1-TCA**	**5,600**		**200**		**28**
Hart Crowser 1992b	**May-92**	**B-11**	**1,1,1-TCA**	**3,400**		**200**		**17**
Hart Crowser 1997	**Dec-96**	**B-44**	**1,1,1-TCA**	**2,600**		**200**		**13**
Hart Crowser 1993a	**Jun-93**	**B-46**	**1,1,1-TCA**	**2,500**		**200**		**13**
Hart Crowser 1992b	**May-92**	**B-15**	**1,1,1-TCA**	**2,500**		**200**		**13**
Hart Crowser 1997	**Dec-96**	**B-31**	**1,1,1-TCA**	**2,400**		**200**		**12**
Hart Crowser 1997	**Dec-96**	**B-39**	**1,1,1-TCA**	**2,200**		**200**		**11**
Ecology 1993b	**Jun-93**	**278094 (DUP)**	**1,1,1-TCA**	**2,100**	**J**	**200**		**11**
Hart Crowser 1997	Dec-96	B-20	1,1,1-TCA	960		200		4.8
TV-F&S 2000a	Nov-98	B-12	1,1,1-TCA	890		200		4.5
TV-F&S 2000a	Nov-98	B-42	1,1,1-TCA	880		200		4.4
TV-F&S 2000a	Oct-98	B-44	1,1,1-TCA	760		200		3.8
Hart Crowser 1993a	Aug-93	B-52 (DUP)	1,1,1-TCA	570		200		2.9
TV-F&S 2000a	Oct-98	B-20	1,1,1-TCA	470		200		2.4
Hart Crowser 1993a	Aug-93	B-52	1,1,1-TCA	460		200		2.3
Hart Crowser 1992b	May-92	B-16	1,1,1-TCA	360		200		1.8
ATI 1991b	Sep-91	B-16	1,1,1-TCA	290		200		1.5
TV-F&S 2000a	Nov-98	B-46 BAL	1,1,1-TCA	290		200		1.5

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Nov-99	B-31	1,1,1-TCA	210		200		1.1
TV-F&S 2000a	Nov-98	B-46	1,1,1-TCA	200		200		1.0
Hart Crowser 1992b	May-92	B-20	1,1,1-TCA	160		200		0.8
Hart Crowser 1992b	May-92	B-29	1,1,1-TCA	150		200		0.8
TV-F&S 2000a	Nov-99	B-11	1,1,1-TCA	140		200		0.7
Hart Crowser 1992b	May-92	B-8	1,1,1-TCA	110		200		0.6
Hart Crowser 1992b	May-92	B-14	1,1,1-TCA	37		200		0.2
TV-F&S 2000a	Nov-98	B-52	1,1,1-TCA	36		200		0.2
TV-F&S 2000a	Jul-99	B-62	1,1,1-TCA	30		200		0.2
TV-F&S 2000a	Jul-99	B-62 (DUP)	1,1,1-TCA	27		200		0.1
Hart Crowser 1992b	May-92	B-18	1,1,1-TCA	21		200		0.1
Hart Crowser 1997	Dec-96	B-36	1,1,1-TCA	16		200		0.1
TV-F&S 2000a	Jan-99	TB-4	1,1,1-TCA	16		200		0.1
TV-F&S 2000a	Jul-99	TW-2	1,1,1-TCA	16		200		0.1
Hart Crowser 1997	Dec-96	B-10A	1,1,1-TCA	14		200		0.1
TV-F&S 2000a	Jan-99	TB-3	1,1,1-TCA	13		200		0.1
TV-F&S 2000a	Jul-99	TW-3 (DUP)	1,1,1-TCA	9.4		200		0.0
TV-F&S 2000a	Jul-99	TW-3	1,1,1-TCA	8.6		200		0.0
TV-F&S 2000a	Feb-99	B-57	1,1,1-TCA	8.4		200		0.0
Hart Crowser 1992b	May-92	B-13	1,1,1-TCA	8		200		0.0
TV-F&S 2000a	Dec-98	B-13	1,1,1-TCA	3.37		200		0.0
Hart Crowser 1992b	May-92	B-22	1,1,1-TCA	2		200		0.0
TV-F&S 2000a	Dec-98	B-22	1,1,1-TCA	1.55		200		0.0
Hart Crowser 1990b	1990	B-1	1,1,1-TCA	0.036		200		0.0
Hart Crowser 1990a	May-89	B-1	1,1,1-TCA	0.031		200		0.0
Hart Crowser 1990b	1990	B-14	1,1,1-TCA	0.019		200		0.0
Hart Crowser 1990b	1990	B-8	1,1,1-TCA	0.005		200		0.0
Ecology 1993b	**Jun-93**	**278091**	**1,1,2-TCA**	**68**	**J**	**0.77**		**88**
Hart Crowser 1992b	**May-92**	**B-30**	**1,1,2-TCA**	**48**		**0.77**		**62**
Ecology 1993b	**Jun-93**	**278092**	**1,1,2-TCA**	**45**	**J**	**0.77**		**58**
Hart Crowser 1997	**Dec-96**	**B-44**	**1,1,2-TCA**	**19**		**0.77**		**25**
Hart Crowser 1997	**Dec-96**	**B-39**	**1,1,2-TCA**	**18**		**0.77**		**23**
Hart Crowser 1993a	Sep-92	B-30	1,1-DCA	1,900		800		2.4
Hart Crowser 1993a	Sep-92	B-31	1,1-DCA	1,500		800		1.9

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Aug-93	B-31	1,1-DCA	1,500		800		1.9
Hart Crowser 1993a	Aug-93	B-30	1,1-DCA	1,400		800		1.8
Hart Crowser 1992b	May-92	B-31	1,1-DCA	1,300		800		1.6
Hart Crowser 1992b	May-92	B-30	1,1-DCA	1,200		800		1.5
Hart Crowser 1992b	May-92	B-15	1,1-DCA	1,100		800		1.4
Ecology 1993b	Jun-93	278091	1,1-DCA	1,000		800		1.3
Hart Crowser 1993a	Jun-93	B-43	1,1-DCA	810		800		1.0
Hart Crowser 1993a	Jun-93	B-44	1,1-DCA	770		800		0.96
Ecology 1993b	Jun-93	278092	1,1-DCA	730		800		0.9
Hart Crowser 1993a	Sep-92	B-15	1,1-DCA	720		800		0.9
Hart Crowser 1992b	May-92	B-11	1,1-DCA	570		800		0.7
Hart Crowser 1997	Dec-96	B-35	1,1-DCA	560		800		0.7
Hart Crowser 1993a	Aug-93	B-51	1,1-DCA	500		800		0.6
TV-F&S 2000a	Oct-98	B-21	1,1-DCA	490		800		0.6
Hart Crowser 1993a	Aug-93	B-15	1,1-DCA	470		800		0.6
TV-F&S 2000a	Oct-98	B-20	1,1-DCA	470		800		0.6
Hart Crowser 1993a	Sep-92	B-35	1,1-DCA	450		800		0.6
Hart Crowser 1997	Dec-96	B-44	1,1-DCA	450		800		0.6
Hart Crowser 1993a	Sep-92	B-20	1,1-DCA	310		800		0.4
Hart Crowser 1992b	May-92	B-16	1,1-DCA	290		800		0.4
Hart Crowser 1992b	May-92	B-29	1,1-DCA	290		800		0.4
TV-F&S 2000a	Nov-98	B-49	1,1-DCA	260		800		0.3
Hart Crowser 1997	Dec-96	B-39	1,1-DCA	250		800		0.3
Hart Crowser 1997	Dec-96	B-20	1,1-DCA	230		800		0.3
TV-F&S 2000a	Oct-99	B-35	1,1-DCA	220		800		0.3
TV-F&S 2000a	Oct-98	B-35	1,1-DCA	210		800		0.3
Hart Crowser 1993a	Sep-92	B-36	1,1-DCA	170		800		0.2
Hart Crowser 1993a	Aug-93	B-20	1,1-DCA	170		800		0.2
Hart Crowser 1997	Dec-96	B-21	1,1-DCA	170		800		0.2
TV-F&S 2000a	Nov-98	B-12	1,1-DCA	170		800		0.2
TV-F&S 2000a	Oct-99	B-33A	1,1-DCA	170		800		0.2
ATI 1991b	Sep-91	B-16	1,1-DCA	160		800		0.2
Hart Crowser 1997	Dec-96	B-10A	1,1-DCA	130	J	800		0.2
Hart Crowser 1993a	Sep-92	B-10A	1,1-DCA	110		800		0.1

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Aug-93	B-10A	1,1-DCA	110		800		0.1
Hart Crowser 1997	Dec-96	B-33A	1,1-DCA	110	J	800		0.1
Hart Crowser 1992b	May-92	B-18	1,1-DCA	100		800		0.1
Hart Crowser 1993a	Aug-93	B-21	1,1-DCA	93		800		0.1
Hart Crowser 1992b	May-92	B-10A	1,1-DCA	84		800		0.1
Hart Crowser 1993a	Sep-92	B-33A	1,1-DCA	73		800		0.1
TV-F&S 2000a	Oct-99	B-18	1,1-DCA	69		800		0.1
Hart Crowser 1993a	Aug-93	B-34	1,1-DCA	62		800		0.1
Hart Crowser 1992b	May-92	B-21	1,1-DCA	61		800		0.1
Hart Crowser 1992b	May-92	B-1	1,1-DCA	58		800		0.1
Hart Crowser 1992b	May-92	B-20	1,1-DCA	54		800		0.1
Hart Crowser 1993a	Aug-93	B-35	1,1-DCA	49		800		0.1
TV-F&S 2000a	Jul-99	B-65	1,1-DCA	47		800		0.1
Hart Crowser 1993a	Sep-92	B-21	1,1-DCA	40		800		0.1
TV-F&S 2000a	Nov-98	B-52	1,1-DCA	36		800		0.0
TV-F&S 2000a	Jul-99	B-63	1,1-DCA	27		800		0.0
TV-F&S 2000a	Jul-99	B-63 (DUP)	1,1-DCA	25		800		0.0
Hart Crowser 1997	Dec-96	B-31	1,1-DCA	23		800		0.0
TV-F&S 2000a	Apr-99	B-56	1,1-DCA	20		800		0.0
Hart Crowser 1992b	May-92	B-14	1,1-DCA	15		800		0.0
Hart Crowser 1993a	Aug-93	B-36	1,1-DCA	13		800		0.0
TV-F&S 2000a	Jul-99	B-61	1,1-DCA	13		800		0.0
TV-F&S 2000a	Oct-99	B-57	1,1-DCA	13		800		0.0
TV-F&S 2000a	Apr-99	B-57	1,1-DCA	12		800		0.0
Hart Crowser 1997	Dec-96	B-45	1,1-DCA	11		800		0.0
Ecology 1993b	Jun-93	278093	1,1-DCA	10		800		0.0
TV-F&S 2000a	Feb-99	B-56	1,1-DCA	10		800		0.0
TV-F&S 2000a	Oct-99	B-36	1,1-DCA	9.5		800		0.0
Hart Crowser 1993a	Sep-92	B-34	1,1-DCA	8		800		0.0
Hart Crowser 1997	Dec-96	B-36	1,1-DCA	8		800		0.0
TV-F&S 2000a	Oct-99	B-56	1,1-DCA	6.8		800		0.0
TV-F&S 2000a	Oct-99	B-16	1,1-DCA	6.1		800		0.0
TV-F&S 2000a	Jul-99	TW-2	1,1-DCA	5.9		800		0.0
TV-F&S 2000a	Feb-99	B-57	1,1-DCA	5.8		800		0.0

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Aug-93	B-8	1,1-DCA	5		800		0.0
Hart Crowser 1993a	Aug-93	B-33A	1,1-DCA	5		800		0.0
TV-F&S 2000a	Nov-98	B-18	1,1-DCA	4.6		800		0.0
Hart Crowser 1993a	Sep-92	B-13	1,1-DCA	3		800		0.0
Hart Crowser 1990b	1990	B-8	1,1-DCA	2.5		800		0.0
TV-F&S 2000a	Oct-98	B-36	1,1-DCA	2.5		800		0.0
TV-F&S 2000a	Jul-99	TW-3 (DUP)	1,1-DCA	2.5		800		0.0
TV-F&S 2000a	Jul-99	TW-3	1,1-DCA	2.4		800		0.0
TV-F&S 2000a	Oct-98	B-36 (DUP)	1,1-DCA	2.3		800		0.0
TV-F&S 2000a	Jul-99	TW-1	1,1-DCA	2.2		800		0.0
TV-F&S 2000a	Jul-99	B-62	1,1-DCA	2.2		800		0.0
TV-F&S 2000a	Jul-99	B-62 (DUP)	1,1-DCA	2.1		800		0.0
Hart Crowser 1993a	Aug-93	B-26	1,1-DCA	2		800		0.0
Hart Crowser 1993a	Aug-93	B-9	1,1-DCA	2		800		0.0
Hart Crowser 1992b	May-92	B-13	1,1-DCA	2		800		0.0
Hart Crowser 1992b	May-92	B-22	1,1-DCA	2		800		0.0
TV-F&S 2000a	Dec-98	B-22	1,1-DCA	1.97		800		0.0
TV-F&S 2000a	Dec-98	B-13	1,1-DCA	1.31		800		0.0
Hart Crowser 1993a	Sep-92	B-26	1,1-DCA	1		800		0.0
Hart Crowser 1993a	Sep-92	B-9	1,1-DCA	1		800		0.0
Hart Crowser 1997	Dec-96	B-9	1,1-DCA	1		800		0.0
TV-F&S 2000a	Oct-99	B-13	1,1-DCA	1		800		0.0
Hart Crowser 1990a	May-89	B-1	1,1-DCA	0.019		800		0.0
Hart Crowser 1990b	1990	B-8	1,1-DCA	0.004		800		0.0
Hart Crowser 1990b	1990	B-5	1,1-DCA	0.003		800		0.0
Hart Crowser 1993a	Jun-93	B-43	1,1-DCE	810		400		2.0
Hart Crowser 1993a	Sep-92	B-31	1,1-DCE	290		400		0.7
Ecology 1993b	Jun-93	278091	1,1-DCE	260	J	400		0.7
TV-F&S 2000a	Oct-99	B-65	1,1-DCE	260	J	400		0.7
Hart Crowser 1993a	Aug-93	B-31	1,1-DCE	230		400		0.6
TV-F&S 2000a	Jul-99	B-65	1,1-DCE	230	J	400		0.6
Hart Crowser 1993a	Sep-92	B-30	1,1-DCE	210		400		0.5
Hart Crowser 1997	Dec-96	B-33A	1,1-DCE	210		400		0.5
Hart Crowser 1997	Oct-95	B-31	1,1-DCE	200		400		0.5

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Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Aug-93	B-30	1,1-DCE	190		400		0.5
Ecology 1993b	Jun-93	278092	1,1-DCE	180		400		0.5
TV-F&S 2000a	Oct-98	B-33A	1,1-DCE	170	J	400		0.4
Hart Crowser 1993a	Aug-93	B-15	1,1-DCE	150		400		0.4
Hart Crowser 1992b	May-92	B-30	1,1-DCE	150		400		0.4
TV-F&S 2000a	Nov-98	B-49	1,1-DCE	140	J	400		0.4
TV-F&S 2000a	Oct-99	B-18	1,1-DCE	140		400		0.4
Hart Crowser 1993a	Aug-93	B-34	1,1-DCE	120		400		0.3
Hart Crowser 1997	Dec-96	B-44	1,1-DCE	92		400		0.2
Hart Crowser 1993a	Sep-92	B-33A	1,1-DCE	90		400		0.2
Hart Crowser 1997	Oct-95	B-33A	1,1-DCE	85		400		0.2
Hart Crowser 1993a	Sep-92	B-20	1,1-DCE	84		400		0.2
Hart Crowser 1997	Dec-96	B-10A	1,1-DCE	66	J	400		0.2
Hart Crowser 1993a	Sep-92	B-21	1,1-DCE	65		400		0.2
Hart Crowser 1993a	Aug-93	B-20	1,1-DCE	63		400		0.2
Hart Crowser 1997	Dec-96	B-20	1,1-DCE	60		400		0.2
Hart Crowser 1997	Dec-96	B-21	1,1-DCE	58		400		0.1
Hart Crowser 1992b	May-92	B-21	1,1-DCE	57		400		0.1
Hart Crowser 1997	Dec-96	B-39	1,1-DCE	52		400		0.1
TV-F&S 2000a	Jul-99	B-61	1,1-DCE	51	J	400		0.1
ATI 1991b	Sep-91	B-16	1,1-DCE	48		400		0.1
TV-F&S 2000a	Jul-99	B-63	1,1-DCE	44	J	400		0.1
TV-F&S 2000a	Jul-99	B-63 (DUP)	1,1-DCE	42	J	400		0.1
Hart Crowser 1997	Oct-95	B-20	1,1-DCE	41		400		0.1
Hart Crowser 1997	Dec-96	B-45	1,1-DCE	35		400		0.1
Hart Crowser 1993a	Sep-92	B-36	1,1-DCE	32		400		0.1
Hart Crowser 1997	Dec-96	B-35	1,1-DCE	26		400		0.1
Hart Crowser 1997	Oct-95	B-10A	1,1-DCE	22		400		0.1
Hart Crowser 1993a	Aug-93	B-10A	1,1-DCE	20		400		0.1
Hart Crowser 1997	Oct-95	B-45	1,1-DCE	20		400		0.1
TV-F&S 2000a	Nov-98	B-52	1,1-DCE	15		400		0.0
Hart Crowser 1993a	Sep-92	B-10A	1,1-DCE	12		400		0.0
Hart Crowser 1997	Dec-96	B-31	1,1-DCE	12		400		0.0
TV-F&S 2000a	Jul-99	B-58	1,1-DCE	12	J	400		0.0

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Ecology 1993b	Jun-93	278093	1,1-DCE	11		400		0.0
Hart Crowser 1993a	Aug-93	B-35	1,1-DCE	11		400		0.0
Hart Crowser 1992b	May-92	B-20	1,1-DCE	11		400		0.0
TV-F&S 2000a	Nov-98	B-18	1,1-DCE	6		400		0.0
Hart Crowser 1992b	May-92	B-22	1,1-DCE	5		400		0.0
Hart Crowser 1997	Dec-96	B-36	1,1-DCE	4		400		0.0
TV-F&S 2000a	Oct-98	B-8	1,1-DCE	2.4	J	400		0.0
TV-F&S 2000a	Jul-99	TW-2	1,1-DCE	2.2	J	400		0.0
Hart Crowser 1993a	Sep-92	B-8	1,1-DCE	2		400		0.0
Hart Crowser 1993a	Aug-93	B-36	1,1-DCE	2		400		0.0
TV-F&S 2000a	Oct-99	B-16	1,1-DCE	1.6		400		0.0
TV-F&S 2000a	Dec-98	B-22	1,1-DCE	1.01		400		0.0
Hart Crowser 1990b	1990	B-8	1,1-DCE	0.004		400		0.0
TV-F&S 2000a	**Oct-99**	**B-49**	**1,2,4-Trimethylbenzene**	**11,000**		**400**		**28**
TV-F&S 2000a	**Oct-99**	**B-46**	**1,2,4-Trimethylbenzene**	**6,400**		**400**		**16**
TV-F&S 2000a	Oct-99	B-39	1,2,4-Trimethylbenzene	2,300	J	400		5.8
TV-F&S 2000a	Oct-99	B-47	1,2,4-Trimethylbenzene	2,100		400		5.3
TV-F&S 2000a	Oct-99	B-47 (DUP)	1,2,4-Trimethylbenzene	1,500		400		3.8
TV-F&S 2000a	Oct-99	B-42	1,2,4-Trimethylbenzene	1,400		400		3.5
TV-F&S 2000a	Oct-99	B-38	1,2,4-Trimethylbenzene	1,000	J	400		2.5
TV-F&S 2000a	Nov-98	B-42	1,2,4-Trimethylbenzene	810		400		2.0
TV-F&S 2000a	Oct-98	B-21	1,2,4-Trimethylbenzene	540		400		1.4
TV-F&S 2000a	Oct-99	B-10A	1,2,4-Trimethylbenzene	490		400		1.2
TV-F&S 2000a	Nov-98	B-12	1,2,4-Trimethylbenzene	450		400		1.1
TV-F&S 2000a	Nov-98	B-49	1,2,4-Trimethylbenzene	410		400		1.0
TV-F&S 2000a	Oct-98	B-44	1,2,4-Trimethylbenzene	360		400		0.9
TV-F&S 2000a	Nov-98	B-46 BAL	1,2,4-Trimethylbenzene	200		400		0.5
TV-F&S 2000a	Nov-98	B-46	1,2,4-Trimethylbenzene	130		400		0.3
TV-F&S 2000a	Oct-99	B-44	1,2,4-Trimethylbenzene	120		400		0.3
TV-F&S 2000a	Nov-98	B-10A	1,2,4-Trimethylbenzene	110		400		0.3
TV-F&S 2000a	Nov-98	B-52	1,2,4-Trimethylbenzene	110		400		0.3
TV-F&S 2000a	Oct-98	B-35	1,2,4-Trimethylbenzene	57		400		0.1
TV-F&S 2000a	Jul-99	B-63	1,2,4-Trimethylbenzene	7.2		400		0.0
TV-F&S 2000a	Jul-99	B-63 (DUP)	1,2,4-Trimethylbenzene	7.2		400		0.0

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-14	1,2,4-Trimethylbenzene	1.5		400		0.0
TV-F&S 2000a	Oct-98	B-8	1,2,4-Trimethylbenzene	1.2		400		0.0
Ecology 1993b	**Jun-93**	**278092**	**1,2-DCA**	**200**		**5**		**40**
Ecology 1993b	**Jun-93**	**278091**	**1,2-DCA**	**140**	**J**	**5**		**28**
Hart Crowser 1997	**Dec-96**	**B-44**	**1,2-DCA**	**97**		**5**		**19**
Hart Crowser 1993a	**Sep-92**	**B-31**	**1,2-DCA**	**76**		**5**		**15**
Hart Crowser 1997	**Oct-95**	**B-10A**	**1,2-DCA**	**76**		**5**		**15**
Hart Crowser 1993a	**Sep-92**	**B-10A**	**1,2-DCA**	**71**		**5**		**14**
Hart Crowser 1997	**Oct-95**	**B-31**	**1,2-DCA**	**69**		**5**		**14**
Hart Crowser 1997	**Dec-96**	**B-39**	**1,2-DCA**	**60**		**5**		**12**
Hart Crowser 1997	**Dec-96**	**B-10A**	**1,2-DCA**	**50**	**J**	**5**		**10**
TV-F&S 2000a	**Oct-99**	**B-9**	**1,2-DCA**	**50**		**5**		**10**
Hart Crowser 1993a	Aug-93	B-9	1,2-DCA	48		5		9.6
TV-F&S 2000a	Nov-98	B-9	1,2-DCA	45		5		9.0
Hart Crowser 1997	Oct-95	B-9	1,2-DCA	44		5		8.8
Hart Crowser 1997	Dec-96	B-9	1,2-DCA	44		5		8.8
Hart Crowser 1993a	Sep-92	B-9	1,2-DCA	42		5		8.4
Hart Crowser 1992b	May-92	B-9	1,2-DCA	18		5		3.6
Hart Crowser 1993a	Sept 1992	B-20	1,2-DCA	16		5		3.2
Hart Crowser 1997	Oct-95	B-20	1,2-DCA	13		5		2.6
TV-F&S 2000a	Nov-98	B-52	1,2-DCA	3.6		5		0.7
Hart Crowser 1997	Dec-96	B-35	1,2-DCA	3		5		0.6
TV-F&S 2000a	Nov-98	B-18	1,2-DCA	1.4		5		0.3
Hart Crowser 1990b	1990	B-10	1,2-DCA	0.3		5		0.1
Hart Crowser 1990b	1990	B-9	1,2-DCA	0.078		5		0.0
Hart Crowser 1990b	1990	B-9	1,2-DCA	0.022		5		0.0
Ecology 1993c	**Jul-93**	**B-27**	**1,2-DCE (total)**	**73,000**		**72**		**1,014**
Ecology 1993c	**Jul-93**	**B-50**	**1,2-DCE (total)**	**67,000**		**72**		**931**
Ecology 1993b	**Jun-93**	**278094 (DUP)**	**1,2-DCE (total)**	**54,000**		**72**		**750**
Ecology 1993b	**Jun-93**	**278094**	**1,2-DCE (total)**	**47,000**		**72**		**653**
Hart Crowser 1997	**Dec-96**	**B-21**	**1,2-DCE (total)**	**47,000**		**72**		**653**
Ecology 1993b	**Jun-93**	**278092**	**1,2-DCE (total)**	**46,000**		**72**		**639**
Hart Crowser 1997	**Dec-96**	**B-10A**	**1,2-DCE (total)**	**45,000**		**72**		**625**
Ecology 1993b	**Jun-93**	**278091**	**1,2-DCE (total)**	**44,000**		**72**		**611**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
ATI 1991b	**Sep-91**	**B-16**	**1,2-DCE (total)**	**42,000**		**72**		**583**
Ecology 1993b	**Jun-93**	**278091**	**1,2-DCE (total)**	**40,000**		**72**		**556**
Hart Crowser 1992b	**May-92**	**B-30**	**1,2-DCE (total)**	**38,000**		**72**		**528**
Hart Crowser 1992b	**May-92**	**B-21**	**1,2-DCE (total)**	**37,000**		**72**		**514**
Hart Crowser 1997	**Dec-96**	**B-33A**	**1,2-DCE (total)**	**36,000**		**72**		**500**
Hart Crowser 1997	**Dec-96**	**B-44**	**1,2-DCE (total)**	**35,000**		**72**		**486**
Ecology 1993c	**Jul-93**	**B-49**	**1,2-DCE (total)**	**32,000**		**72**		**444**
Hart Crowser 1992b	**May-92**	**B-16**	**1,2-DCE (total)**	**30,000**		**72**		**417**
Hart Crowser 1992b	**May-92**	**B-15**	**1,2-DCE (total)**	**26,000**		**72**		**361**
Hart Crowser 1997	**Dec-96**	**B-39**	**1,2-DCE (total)**	**23,000**		**72**		**319**
Hart Crowser 1997	**Dec-96**	**B-45**	**1,2-DCE (total)**	**20,000**		**72**		**278**
Hart Crowser 1992b	**May-92**	**B-31**	**1,2-DCE (total)**	**20,000**		**72**		**278**
Hart Crowser 1997	**Dec-96**	**B-20**	**1,2-DCE (total)**	**19,000**		**72**		**264**
Hart Crowser 1992b	**May-92**	**B-11**	**1,2-DCE (total)**	**16,000**		**72**		**222**
Hart Crowser 1992b	**May-92**	**B-29**	**1,2-DCE (total)**	**16,000**		**72**		**222**
Ecology 1993c	**Jul-93**	**B-48**	**1,2-DCE (total)**	**14,000**		**72**		**194**
Ecology 1993c	**Jul-93**	**B-48 (DUP)**	**1,2-DCE (total)**	**13,000**		**72**		**181**
Hart Crowser 1997	**Dec-96**	**B-8**	**1,2-DCE (total)**	**9,000**		**72**		**125**
Hart Crowser 1997	**Dec-96**	**B-35**	**1,2-DCE (total)**	**8,000**		**72**		**111**
Hart Crowser 1992b	**May-92**	**B-10A**	**1,2-DCE (total)**	**6,300**		**72**		**88**
Ecology 1993b	**Jun-93**	**278093**	**1,2-DCE (total)**	**5,200**		**72**		**72**
Hart Crowser 1992b	**May-92**	**B-18**	**1,2-DCE (total)**	**1,400**		**72**		**19**
Hart Crowser 1992b	**May-92**	**B-8**	**1,2-DCE (total)**	**1,300**		**72**		**18**
Hart Crowser 1992b	**May-92**	**B-1**	**1,2-DCE (total)**	**1,200**		**72**		**17**
Hart Crowser 1997	**Dec-96**	**B-31**	**1,2-DCE (total)**	**1,100**		**72**		**15**
Hart Crowser 1992b	May-92	B-14	1,2-DCE (total)	600		72		8.3
Hart Crowser 1992b	May-92	B-22	1,2-DCE (total)	440		72		6.1
Hart Crowser 1992b	May-92	B-13	1,2-DCE (total)	260		72		3.6
Hart Crowser 1997	Dec-96	B-26	1,2-DCE (total)	96		72		1.3
Hart Crowser 1992b	May-92	B-9	1,2-DCE (total)	93		72		1.3
Hart Crowser 1997	Dec-96	B-9	1,2-DCE (total)	61		72		0.8
Hart Crowser 1997	Dec-96	B-36	1,2-DCE (total)	57		72		0.8
Hart Crowser 1992b	May-92	B-72	1,2-DCE (total)	29		72		0.4
Hart Crowser 1992b	May-92	B-19	1,2-DCE (total)	28		72		0.4

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1997	Dec-96	B-34	1,2-DCE (total)	27		72		0.4
ATI 1991b	Sep-91	B-17	1,2-DCE (total)	26		72		0.4
Hart Crowser 1992b	May-92	B-26	1,2-DCE (total)	16		72		0.2
Hart Crowser 1992b	May-92	B-5	1,2-DCE (total)	16		72		0.2
Hart Crowser 1992b	May-92	B-5 (DUP)	1,2-DCE (total)	16		72		0.2
Hart Crowser 1992b	May-92	B-27	1,2-DCE (total)	10		72		0.1
Hart Crowser 1992b	May-92	B-23	1,2-DCE (total)	9		72		0.1
Hart Crowser 1990b	1990	B-10A	1,2-DCE (total)	6.3		72		0.1
Hart Crowser 1992b	May-92	B-23 (DUP)	1,2-DCE (total)	6		72		0.1
Hart Crowser 1992b	May-92	B-17	1,2-DCE (total)	5		72		0.1
Hart Crowser 1992b	May-92	B-6	1,2-DCE (total)	5		72		0.1
Hart Crowser 1992b	May-92	B-24	1,2-DCE (total)	4		72		0.1
Hart Crowser 1992b	May-92	B-25	1,2-DCE (total)	2		72		0.0
Hart Crowser 1990b	1990	B-8	1,2-DCE (total)	0.490		72		0.0
Hart Crowser 1990b	1990	B-14	1,2-DCE (total)	0.44		72		0.0
Hart Crowser 1990b	1990	B-9	1,2-DCE (total)	0.048		72		0.0
Hart Crowser 1990b	1990	B-5	1,2-DCE (total)	0.019		72		0.0
Hart Crowser 1990b	1990	B-6	1,2-DCE (total)	0.018		72		0.0
TV-F&S 2000a	**Nov-98**	**B-42**	**1,2-Dichlorobenzene**	**1,000**		**720**	**5.2**	**192**
Hart Crowser 1992b	**May-92**	**B-29**	**1,2-Dichlorobenzene**	**510**		**720**	**5.2**	**98**
TV-F&S 2000a	**Oct-99**	**B-47 (DUP)**	**1,2-Dichlorobenzene**	**440**		**720**	**5.2**	**85**
TV-F&S 2000a	**Oct-98**	**B-44**	**1,2-Dichlorobenzene**	**380**		**720**	**5.2**	**73**
TV-F&S 2000a	**Nov-98**	**B-12**	**1,2-Dichlorobenzene**	**360**		**720**	**5.2**	**69**
TV-F&S 2000a	**Oct-99**	**B-47**	**1,2-Dichlorobenzene**	**350**		**720**	**5.2**	**67**
TV-F&S 2000a	**Oct-99**	**B-42**	**1,2-Dichlorobenzene**	**340**		**720**	**5.2**	**65**
TV-F&S 2000a	**Nov-98**	**B-49**	**1,2-Dichlorobenzene**	**320**		**720**	**5.2**	**62**
TV-F&S 2000a	**Nov-98**	**B-52**	**1,2-Dichlorobenzene**	**250**		**720**	**5.2**	**48**
TV-F&S 2000a	**Nov-98**	**B-42**	**1,2-Dichlorobenzene**	**230**	**J**	**720**	**5.2**	**44**
TV-F&S 2000a	**Nov-98**	**B-46 BAL**	**1,2-Dichlorobenzene**	**220**		**720**	**5.2**	**42**
TV-F&S 2000a	**Nov-98**	**B-52 (DUP)**	**1,2-Dichlorobenzene**	**190**		**720**	**5.2**	**37**
TV-F&S 2000a	**Nov-98**	**B-46**	**1,2-Dichlorobenzene**	**180**		**720**	**5.2**	**35**
Ecology 1993b	**Jun-93**	**278092**	**1,2-Dichlorobenzene**	**170**		**720**	**5.2**	**33**
TV-F&S 2000a	**Nov-98**	**B-12**	**1,2-Dichlorobenzene**	**170**		**720**	**5.2**	**33**
TV-F&S 2000a	**Oct-99**	**B-44**	**1,2-Dichlorobenzene**	**160**		**720**	**5.2**	**31**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Ecology 1993c	**Jul-93**	**B-27**	**1,2-Dichlorobenzene**	**150**		**720**	**5.2**	**29**
TV-F&S 2000a	**Nov-98**	**B-46**	**1,2-Dichlorobenzene**	**150**		**720**	**5.2**	**29**
TV-F&S 2000a	**Nov-98**	**B-39**	**1,2-Dichlorobenzene**	**130**		**720**	**5.2**	**25**
TV-F&S 2000a	**Oct-99**	**B-52**	**1,2-Dichlorobenzene**	**130**		**720**	**5.2**	**25**
TV-F&S 2000a	**Nov-98**	**B-49**	**1,2-Dichlorobenzene**	**120**		**720**	**5.2**	**23**
TV-F&S 2000a	**Nov-98**	**B-52**	**1,2-Dichlorobenzene**	**120**		**720**	**5.2**	**23**
TV-F&S 2000a	**Nov-98**	**B-52 (DUP)**	**1,2-Dichlorobenzene**	**120**		**720**	**5.2**	**23**
TV-F&S 2000a	**Oct-99**	**B-49**	**1,2-Dichlorobenzene**	**110**		**720**	**5.2**	**21**
TV-F&S 2000a	**Nov-99**	**B-12**	**1,2-Dichlorobenzene**	**110**		**720**	**5.2**	**21**
TV-F&S 2000a	**Oct-99**	**B-46**	**1,2-Dichlorobenzene**	**100**		**720**	**5.2**	**19**
TV-F&S 2000a	**Oct-99**	**B-44**	**1,2-Dichlorobenzene**	**88**		**720**	**5.2**	**17**
TV-F&S 2000a	**Oct-99**	**B-39**	**1,2-Dichlorobenzene**	**81**	**J**	**720**	**5.2**	**16**
TV-F&S 2000a	**Oct-98**	**B-44**	**1,2-Dichlorobenzene**	**80**		**720**	**5.2**	**15**
TV-F&S 2000a	**Oct-99**	**B-52**	**1,2-Dichlorobenzene**	**55**		**720**	**5.2**	**11**
Ecology 1993c	**Jul-93**	**B-50**	**1,2-Dichlorobenzene**	**53**		**720**	**5.2**	**10**
TV-F&S 2000a	Jul-99	B-58	1,2-Dichlorobenzene	35		720	5.2	6.7
Ecology 1993b	Jun-93	278092	1,2-Dichlorobenzene	26		720	5.2	5.0
ATI 1991b	Sep-91	B-16	1,2-Dichlorobenzene	22		720	5.2	4.2
Hart Crowser 1992b	May-92	B-21	1,2-Dichlorobenzene	21		720	5.2	4.0
TV-F&S 2000a	Oct-99	B-21	1,2-Dichlorobenzene	19		720	5.2	3.7
Hart Crowser 1992b	May-92	B-16	1,2-Dichlorobenzene	17		720	5.2	3.3
Ecology 1993b	Jun-93	278094	1,2-Dichlorobenzene	16	J	720	5.2	3.1
TV-F&S 2000a	Oct-98	B-21	1,2-Dichlorobenzene	16	J	720	5.2	3.1
TV-F&S 2000a	Jul-99	B-58	1,2-Dichlorobenzene	14		720	5.2	2.7
TV-F&S 2000a	Oct-98	B-20	1,2-Dichlorobenzene	12		720	5.2	2.3
TV-F&S 2000a	Oct-99	B-58 (DUP)	1,2-Dichlorobenzene	8.3		720	5.2	1.6
TV-F&S 2000a	Oct-99	B-58	1,2-Dichlorobenzene	7		720	5.2	1.3
TV-F&S 2000a	Oct-98	B-8	1,2-Dichlorobenzene	5.1		720	5.2	1.0
Hart Crowser 1997	Dec-96	B-8	1,2-Dichlorobenzene	5	J	720	5.2	1.0
TV-F&S 2000a	Oct-99	B-10A	1,2-Dichlorobenzene	4.1		720	5.2	0.8
TV-F&S 2000a	Nov-98	B-10A	1,2-Dichlorobenzene	4		720	5.2	0.8
TV-F&S 2000a	Nov-98	B-45	1,2-Dichlorobenzene	3.5		720	5.2	0.7
Ecology 1993b	Jun-93	278093	1,2-Dichlorobenzene	3	J	720	5.2	0.6
Hart Crowser 1997	Dec-96	B-31	1,2-Dichlorobenzene	3	J	720	5.2	0.6

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-45 (DUP)	1,2-Dichlorobenzene	2.7		720	5.2	0.5
TV-F&S 2000a	Oct-99	B-45	1,2-Dichlorobenzene	2.6		720	5.2	0.5
TV-F&S 2000a	Oct-98	B-8	1,2-Dichlorobenzene	2.5		720	5.2	0.5
TV-F&S 2000a	Oct-99	B-35	1,2-Dichlorobenzene	2.2		720	5.2	0.4
TV-F&S 2000a	Oct-99	B-60	1,2-Dichlorobenzene	2		720	5.2	0.4
TV-F&S 2000a	Jul-99	B-61	1,2-Dichlorobenzene	1.9		720	5.2	0.4
TV-F&S 2000a	Oct-99	B-61	1,2-Dichlorobenzene	1.8		720	5.2	0.3
TV-F&S 2000a	Oct-98	B-35	1,2-Dichlorobenzene	1.5	J	720	5.2	0.3
TV-F&S 2000a	Jul-99	B-60	1,2-Dichlorobenzene	1.2		720	5.2	0.2
TV-F&S 2000a	Oct-99	B-16	1,2-Dichlorobenzene	1.1		720	5.2	0.2
Hart Crowser 1997	**Dec-96**	**B-10A**	**1,2-Dichloropropane**	**82**	**J**	**0.64**		**128**
Ecology 1993b	**Jun-93**	**278092**	**1,2-Dichloropropane**	**40**	**J**	**0.64**		**63**
TV-F&S 2000a	**Nov-98**	**B-52**	**1,2-Dichloropropane**	**11**		**0.64**		**17**
Hart Crowser 1990b	1990	B-1	1,2-Dichloropropane	0.013		0.64		0.0
Hart Crowser 1990a	May-89	B-1	1,2-Dichloropropane	0.008		0.64		0.0
Hart Crowser 1992b	May-92	B-16	1,2-Propanediol	3,100	J			
Hart Crowser 1992b	May-92	B-15	1,2-Propanediol	2,600	J			
TV-F&S 2000a	**Oct-99**	**B-49**	**1,3,5-Trimethylbenzene**	**9,600**		**400**		**24**
TV-F&S 2000a	Oct-99	B-46	1,3,5-Trimethylbenzene	1,700		400		4.3
TV-F&S 2000a	Nov-98	B-42	1,3,5-Trimethylbenzene	300		400		0.8
TV-F&S 2000a	Nov-98	B-12	1,3,5-Trimethylbenzene	240		400		0.6
TV-F&S 2000a	Oct-99	B-38	1,3,5-Trimethylbenzene	240		400		0.6
TV-F&S 2000a	Nov-98	B-49	1,3,5-Trimethylbenzene	210		400		0.5
TV-F&S 2000a	Oct-99	B-10A	1,3,5-Trimethylbenzene	200		400		0.5
TV-F&S 2000a	Oct-98	B-44	1,3,5-Trimethylbenzene	180		400		0.5
TV-F&S 2000a	Oct-98	B-21	1,3,5-Trimethylbenzene	140		400		0.4
TV-F&S 2000a	Nov-98	B-46 BAL	1,3,5-Trimethylbenzene	130		400		0.3
TV-F&S 2000a	Nov-98	B-52	1,3,5-Trimethylbenzene	39		400		0.1
TV-F&S 2000a	Oct-98	B-35	1,3,5-Trimethylbenzene	18		400		0.0
Hart Crowser 1992b	May-92	B-29	1,3-Dichlorobenzene	91				
TV-F&S 2000a	Nov-98	B-39	1,3-Dichlorobenzene	39				
TV-F&S 2000a	Nov-98	B-42	1,3-Dichlorobenzene	22				
TV-F&S 2000a	Oct-98	B-44	1,3-Dichlorobenzene	21				
TV-F&S 2000a	Nov-98	B-52	1,3-Dichlorobenzene	20				

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-42	1,3-Dichlorobenzene	20				
TV-F&S 2000a	Oct-99	B-47 (DUP)	1,3-Dichlorobenzene	17				
TV-F&S 2000a	Nov-98	B-12	1,3-Dichlorobenzene	13				
TV-F&S 2000a	Oct-99	B-47	1,3-Dichlorobenzene	13				
TV-F&S 2000a	Nov-98	B-52	1,3-Dichlorobenzene	12				
TV-F&S 2000a	Nov-98	B-46	1,3-Dichlorobenzene	11				
TV-F&S 2000a	Nov-98	B-52 (DUP)	1,3-Dichlorobenzene	11				
TV-F&S 2000a	Nov-99	B-12	1,3-Dichlorobenzene	6.8				
TV-F&S 2000a	Oct-99	B-46	1,3-Dichlorobenzene	6.2				
TV-F&S 2000a	Oct-99	B-52	1,3-Dichlorobenzene	5.7				
TV-F&S 2000a	Nov-98	B-49	1,3-Dichlorobenzene	5.3				
TV-F&S 2000a	Jul-99	B-58	1,3-Dichlorobenzene	1.2				
TV-F&S 2000a	Oct-99	B-58 (DUP)	1,3-Dichlorobenzene	0.77				
TV-F&S 2000a	Oct-99	B-21	1,3-Dichlorobenzene	0.75				
TV-F&S 2000a	Oct-99	B-58	1,3-Dichlorobenzene	0.68				
TV-F&S 2000a	Oct-99	B-10A	1,3-Dichlorobenzene	0.6				
TV-F&S 2000a	**Nov-98**	**B-42**	**1,4-Dichlorobenzene**	**290**		**1.8**	**21**	**161**
TV-F&S 2000a	**Nov-98**	**B-12**	**1,4-Dichlorobenzene**	**140**		**1.8**	**21**	**78**
TV-F&S 2000a	**Oct-99**	**B-47 (DUP)**	**1,4-Dichlorobenzene**	**140**		**1.8**	**21**	**78**
TV-F&S 2000a	**Oct-99**	**B-42**	**1,4-Dichlorobenzene**	**120**		**1.8**	**21**	**67**
TV-F&S 2000a	**Nov-98**	**B-42**	**1,4-Dichlorobenzene**	**110**		**1.8**	**21**	**61**
TV-F&S 2000a	**Oct-99**	**B-47**	**1,4-Dichlorobenzene**	**100**		**1.8**	**21**	**56**
Hart Crowser 1992b	**May-92**	**B-29**	**1,4-Dichlorobenzene**	**70**		**1.8**	**21**	**39**
TV-F&S 2000a	**Nov-98**	**B-52**	**1,4-Dichlorobenzene**	**67**		**1.8**	**21**	**37**
TV-F&S 2000a	**Nov-98**	**B-12**	**1,4-Dichlorobenzene**	**63**		**1.8**	**21**	**35**
TV-F&S 2000a	**Nov-98**	**B-46**	**1,4-Dichlorobenzene**	**54**		**1.8**	**21**	**30**
Ecology 1993b	**Jun-93**	**278092**	**1,4-Dichlorobenzene**	**49**	**J**	**1.8**	**21**	**27**
TV-F&S 2000a	**Nov-98**	**B-52**	**1,4-Dichlorobenzene**	**39**		**1.8**	**21**	**22**
TV-F&S 2000a	**Nov-98**	**B-52 (DUP)**	**1,4-Dichlorobenzene**	**37**		**1.8**	**21**	**21**
Ecology 1993c	**Jul-93**	**B-27**	**1,4-Dichlorobenzene**	**36**	**J**	**1.8**	**21**	**20**
TV-F&S 2000a	**Nov-98**	**B-49**	**1,4-Dichlorobenzene**	**36**		**1.8**	**21**	**20**
TV-F&S 2000a	**Nov-99**	**B-12**	**1,4-Dichlorobenzene**	**36**		**1.8**	**21**	**20**
TV-F&S 2000a	**Oct-99**	**B-46**	**1,4-Dichlorobenzene**	**33**		**1.8**	**21**	**18**
TV-F&S 2000a	**Oct-99**	**B-49**	**1,4-Dichlorobenzene**	**28**		**1.8**	**21**	**16**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	**Oct-99**	**B-44**	**1,4-Dichlorobenzene**	**23**		**1.8**	**21**	**13**
TV-F&S 2000a	**Oct-99**	**B-39**	**1,4-Dichlorobenzene**	**22**	**J**	**1.8**	**21**	**12**
TV-F&S 2000a	**Oct-99**	**B-52**	**1,4-Dichlorobenzene**	**20**		**1.8**	**21**	**11**
Ecology 1993c	Jul-93	B-50	1,4-Dichlorobenzene	17	J	1.8	21	9.4
TV-F&S 2000a	Jul-99	B-58	1,4-Dichlorobenzene	7.4		1.8	21	4.1
Ecology 1993b	Jun-93	278092	1,4-Dichlorobenzene	5	J	1.8	21	2.8
TV-F&S 2000a	Oct-99	B-21	1,4-Dichlorobenzene	4.4		1.8	21	2.4
TV-F&S 2000a	Jul-99	B-58	1,4-Dichlorobenzene	3.3		1.8	21	1.8
Ecology 1993b	Jun-93	278094	1,4-Dichlorobenzene	3	J	1.8	21	1.7
TV-F&S 2000a	Oct-99	B-58 (DUP)	1,4-Dichlorobenzene	2		1.8	21	1.1
TV-F&S 2000a	Oct-99	B-58	1,4-Dichlorobenzene	1.8		1.8	21	1.0
TV-F&S 2000a	Oct-98	B-8	1,4-Dichlorobenzene	1.4		1.8	21	0.8
Hart Crowser 1997	Dec-96	B-8	1,4-Dichlorobenzene	1	J	1.8	21	0.6
TV-F&S 2000a	Oct-99	B-10A	1,4-Dichlorobenzene	0.71		1.8	21	0.4
TV-F&S 2000a	Oct-99	B-60	1,4-Dichlorobenzene	0.61		1.8	21	0.3
TV-F&S 2000a	Oct-99	B-45 (DUP)	1,4-Dichlorobenzene	0.53		1.8	21	0.3
Hart Crowser 1992b	May-92	B-10A	2,3,5-Trichlorophenol	1.9				
TV-F&S 2000a	Oct-98	B-20	2,4,5-Trichlorophenol	5.1		800		0.0
Hart Crowser 1997	Dec-96	B-10A	2,4,5-Trichlorophenol	1.7	P	800		0.0
Hart Crowser 1997	Dec-96	B-8	2,4,5-Trichlorophenol	1	J	800		0.0
Hart Crowser 1997	Dec-96	B-20	2,4,5-Trichlorophenol	0.81	P	800		0.0
Hart Crowser 1997	Dec-96	B-31	2,4,5-Trichlorophenol	0.32	P	800		0.0
Hart Crowser 1997	Dec-96	B-31	2,4-Dichlorophenol	1.8	P	24		0.1
Hart Crowser 1997	Dec-96	B-10A	2,4-Dichlorophenol	1.4	P	24		0.1
Hart Crowser 1997	Dec-96	B-21	2,4-Dichlorophenol	0.81	J	24		0.0
Hart Crowser 1992b	May-92	B-29	2,4-Dimethylphenol	500		160		3.1
Hart Crowser 1992b	May-92	B-15	2,4-Dimethylphenol	480		160		3.0
ATI 1991b	Sep-91	B-16	2,4-Dimethylphenol	45		160		0.3
Ecology 1993b	Jun-93	278094	2,4-Dimethylphenol	42		160		0.3
TV-F&S 2000a	Nov-99	B-12	2,4-Dimethylphenol	30		160		0.2
Hart Crowser 1992b	May-92	B-16	2,4-Dimethylphenol	24		160		0.2
Hart Crowser 1997	Dec-96	B-31	2,4-Dimethylphenol	19		160		0.1
Hart Crowser 1992b	May-92	B-10A	2,4-Dimethylphenol	16		160		0.1
Ecology 1993c	Jul-93	B-48	2,4-Dimethylphenol	4	J	160		0.0

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Ecology 1993c	Jul-93	B-48 (DUP)	2,4-Dimethylphenol	3	J	160		0.0
TV-F&S 2000a	Oct-99	B-10A	2,4-Dimethylphenol	1.1		160		0.0
TV-F&S 2000a	Nov-99	B-11	2,4-Dimethylphenol	1		160		0.0
TV-F&S 2000a	Oct-99	B-15	2,4-Dimethylphenol	0.66		160		0.0
TV-F&S 2000a	Nov-99	B-31	2,4-Dimethyphenol	310		160		1.9
TV-F&S 2000a	Nov-98	B-42	2,4-Dimethyphenol	66		160		0.4
TV-F&S 2000a	Nov-98	B-39	2,4-Dimethyphenol	39		160		0.2
TV-F&S 2000a	Oct-99	B-52	2,4-Dimethyphenol	27		160		0.2
TV-F&S 2000a	Oct-98	B-20	2,4-Dimethyphenol	22		160		0.1
TV-F&S 2000a	Oct-99	B-46	2,4-Dimethyphenol	16		160		0.1
TV-F&S 2000a	Oct-98	B-44	2,4-Dimethyphenol	13		160		0.1
TV-F&S 2000a	Nov-98	B-49	2,4-Dimethyphenol	13		160		0.1
TV-F&S 2000a	Oct-99	B-44	2,4-Dimethyphenol	12		160		0.1
TV-F&S 2000a	Oct-99	B-39	2,4-Dimethyphenol	7.2	J	160		0.0
Hart Crowser 1992b	**May-92**	**B-15**	**2-Butanone**	**170,000**		**4,800**		**35**
Hart Crowser 1992b	May-92	B-11	2-Butanone	6,700		4,800		1.4
Ecology 1993b	Jun-93	278092	2-Butanone	5,500		4,800		1.1
Ecology 1993c	Jul-93	B-27	2-Butanone	4,800	J	4,800		1.0
Hart Crowser 1992b	May-92	B-30	2-Butanone	3,700		4,800		0.8
Ecology 1993b	Jun-93	278091	2-Butanone	3,600		4,800		0.8
Hart Crowser 1992b	May-92	B-16	2-Butanone	1,500		4,800		0.3
Hart Crowser 1992b	May-92	B-20	2-Butanone	230		4,800		0.0
Hart Crowser 1997	Dec-96	B-44	2-Butanone	170		4,800		0.0
Hart Crowser 1990b	1990	B-8	2-Butanone	0.006		4,800		0.0
TV-F&S 2000a	Jul-99	B-61	2-Chloronaphthalene	18				
TV-F&S 2000a	Oct-99	B-38	2-Chloronaphthalene	2.1				
Ecology 1993c	Jul-93	B-49	2-Methylnaphthalate	42				
Hart Crowser 1992b	May-92	B-10A	2-Methylnaphthalene	91		32	31	2.9
TV-F&S 2000a	Oct-99	B-38	2-Methylnaphthalene	26		32	31	0.8
TV-F&S 2000a	Nov-98	B-10A	2-Methylnaphthalene	10		32	31	0.3
TV-F&S 2000a	Oct-99	B-10A	2-Methylnaphthalene	9.2		32	31	0.3
TV-F&S 2000a	Nov-98	B-49	2-Methylnaphthalene	7.5		32	31	0.2
Ecology 1993b	Jun-93	278092	2-Methylnaphthalene	4	J	32	31	0.1
Hart Crowser 1997	Dec-96	B-31	2-Methylnaphthalene	4	J	32	31	0.1

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Nov-98	B-12	2-Methylnaphthalene	3.9		32	31	0.1
TV-F&S 2000a	Nov-98	B-46	2-Methylnaphthalene	3.2		32	31	0.1
TV-F&S 2000a	Nov-98	B-42	2-Methylnaphthalene	2.3		32	31	0.1
TV-F&S 2000a	Oct-98	B-44	2-Methylnaphthalene	1.9		32	31	0.1
TV-F&S 2000a	Nov-98	B-39	2-Methylnaphthalene	1.7		32	31	0.1
TV-F&S 2000a	Nov-99	B-12	2-Methylnaphthalene	1.6		32	31	0.1
TV-F&S 2000a	Nov-98	B-52	2-Methylnaphthalene	1.1		32	31	0.0
TV-F&S 2000a	Nov-98	B-52 (DUP)	2-Methylnaphthalene	1.1		32	31	0.0
Hart Crowser 1997	Dec-96	B-8	2-Methylnaphthalene	1	J	32	31	0.0
Hart Crowser 1992b	**May-92**	**B-29**	**2-Methylphenol**	**750**		**400**	**7.1**	**106**
Hart Crowser 1992b	**May-92**	**B-11**	**2-Methylphenol**	**630**		**400**	**7.1**	**89**
Hart Crowser 1992b	**May-92**	**B-15**	**2-Methylphenol**	**440**		**400**	**7.1**	**62**
Ecology 1993b	**Jun-93**	**278092**	**2-Methylphenol**	**270**		**400**	**7.1**	**38**
Ecology 1993b	**Jun-93**	**278091**	**2-Methylphenol**	**210**	**J**	**400**	**7.1**	**30**
Ecology 1993c	**Jul-93**	**B-27**	**2-Methylphenol**	**210**		**400**	**7.1**	**30**
Ecology 1993c	**Jul-93**	**B-49**	**2-Methylphenol**	**140**		**400**	**7.1**	**20**
Hart Crowser 1992b	**May-92**	**B-30**	**2-Methylphenol**	**110**		**400**	**7.1**	**15**
TV-F&S 2000a	Oct-99	B-49	2-Methylphenol	67		400	7.1	9.4
Ecology 1993b	Jun-93	278094	2-Methylphenol	66		400	7.1	9.3
TV-F&S 2000a	Nov-99	B-31	2-Methylphenol	60		400	7.1	8.5
TV-F&S 2000a	Nov-98	B-49	2-Methylphenol	52		400	7.1	7.3
TV-F&S 2000a	Oct-99	B-47 (DUP)	2-Methylphenol	52		400	7.1	7.3
Ecology 1993c	Jul-93	B-50	2-Methylphenol	47		400	7.1	6.6
TV-F&S 2000a	Oct-99	B-47	2-Methylphenol	39		400	7.1	5.5
Hart Crowser 1992b	May-92	B-16	2-Methylphenol	34		400	7.1	4.8
TV-F&S 2000a	Nov-98	B-39	2-Methylphenol	31		400	7.1	4.4
TV-F&S 2000a	Nov-98	B-42	2-Methylphenol	29		400	7.1	4.1
TV-F&S 2000a	Oct-99	B-42	2-Methylphenol	28		400	7.1	3.9
ATI 1991b	Sep-91	B-16	2-Methylphenol	27		400	7.1	3.8
TV-F&S 2000a	Oct-98	B-20	2-Methylphenol	27		400	7.1	3.8
TV-F&S 2000a	Oct-98	B-44	2-Methylphenol	20		400	7.1	2.8
TV-F&S 2000a	Nov-99	B-12	2-Methylphenol	19		400	7.1	2.7
TV-F&S 2000a	Oct-99	B-44	2-Methylphenol	18		400	7.1	2.5
TV-F&S 2000a	Nov-98	B-46	2-Methylphenol	14		400	7.1	2.0

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

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TV-F&S 2000a	Oct-99	B-52	2-Methylphenol	11		400	7.1	1.5
TV-F&S 2000a	Oct-99	B-39	2-Methylphenol	11	J	400	7.1	1.5
TV-F&S 2000a	Oct-99	B-46	2-Methylphenol	9.1		400	7.1	1.3
Ecology 1993c	Jul-93	B-48	2-Methylphenol	9	J	400	7.1	1.3
Ecology 1993c	Jul-93	B-48 (DUP)	2-Methylphenol	8	J	400	7.1	1.1
TV-F&S 2000a	Nov-98	B-12	2-Methylphenol	7.5		400	7.1	1.1
Hart Crowser 1992b	May-92	B-30	2-Propanol	8,400				
Hart Crowser 1992b	May-92	B-11	2-Propanol	5,700				
Hart Crowser 1992b	May-92	B-15	2-Propanol	3,800				
Hart Crowser 1992b	May-92	B-31	2-Propanol	2,900				
TV-F&S 2000a	Nov-98	B-52	4,6-Dinitro-2-methylphenol	15				
TV-F&S 2000a	Oct-99	B-38	4,6-Dinitro-2-methylphenol	6.5	J			
TV-F&S 2000a	Oct-99	B-38	4-Chloro-3-methylphenol	3.8				
Ecology 1993c	Jul-93	B-48	4-Chloro-3-Methylphenol	3	J			
Ecology 1993c	Jul-93	B-48 (DUP)	4-Chloro-3-Methylphenol	3	J			
Ecology 1993b	**Jun-93**	**278091**	**4-Methyl-2-Pentanone**	**14,000**		**640**		**22**
Ecology 1993c	**Jul-93**	**B-27**	**4-Methyl-2-Pentanone**	**7,700**		**640**		**12**
Ecology 1993c	**Jul-93**	**B-49**	**4-Methyl-2-Pentanone**	**7,000**		**640**		**11**
Ecology 1993b	**Jun-93**	**278092**	**4-Methyl-2-Pentanone**	**6,800**		**640**		**11**
Hart Crowser 1992b	May-92	B-30	4-Methyl-2-Pentanone	5,800		640		9.1
Hart Crowser 1992b	May-92	B-15	4-Methyl-2-Pentanone	4,500		640		7.0
Hart Crowser 1997	Dec-96	B-44	4-Methyl-2-Pentanone	1,500		640		2.3
Ecology 1993b	Jun-93	278094	4-Methyl-2-Pentanone	1,300	J	640		2.0
Hart Crowser 1997	Dec-96	B-39	4-Methyl-2-Pentanone	1,000		640		1.6
Hart Crowser 1992b	May-92	B-16	4-Methyl-2-Pentanone	870	J	640		1.4
Hart Crowser 1992b	May-92	B-20	4-Methyl-2-Pentanone	120		640		0.2
Ecology 1993b	Jun-93	278093	4-Methyl-2-Pentanone	26		640		0.0
Ecology 1993c	Jul-93	B-27	4-Methylphenol	1,200				
Ecology 1993b	Jun-93	278092	4-Methylphenol	720				
Hart Crowser 1992b	May-92	B-29	4-Methylphenol	540				
Ecology 1993b	Jun-93	278091	4-Methylphenol	300	J			
Ecology 1993c	Jul-93	B-49	4-Methylphenol	200				
Ecology 1993c	Jul-93	B-50	4-Methylphenol	200				
Hart Crowser 1992b	May-92	B-30	4-Methylphenol	190				

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Ecology 1993b	Jun-93	278094	4-Methylphenol	120				
Hart Crowser 1992b	May-92	B-11	4-Methylphenol	100				
TV-F&S 2000a	Oct-98	B-20	4-Methylphenol	76				
Hart Crowser 1992b	May-92	B-16	4-Methylphenol	68				
TV-F&S 2000a	Oct-99	B-47 (DUP)	4-Methylphenol	66				
TV-F&S 2000a	Oct-99	B-42	4-Methylphenol	54				
TV-F&S 2000a	Oct-99	B-47	4-Methylphenol	51				
TV-F&S 2000a	Oct-99	B-49	4-Methylphenol	49				
TV-F&S 2000a	Nov-98	B-49	4-Methylphenol	34				
TV-F&S 2000a	Nov-98	B-12	4-Methylphenol	16				
TV-F&S 2000a	Nov-98	B-46	4-Methylphenol	16				
TV-F&S 2000a	Oct-99	B-52	4-Methylphenol	15				
TV-F&S 2000a	Oct-99	B-44	4-Methylphenol	15				
TV-F&S 2000a	Nov-99	B-12	4-Methylphenol	14				
Hart Crowser 1992b	May-92	B-20	4-Methylphenol	14				
Ecology 1993c	Jul-93	B-48	4-Methylphenol	12				
Ecology 1993c	Jul-93	B-48 (DUP)	4-Methylphenol	11				
TV-F&S 2000a	Oct-99	B-39	4-Methylphenol	10	J			
TV-F&S 2000a	Oct-99	B-46	4-Methylphenol	7.4				
TV-F&S 2000a	Nov-99	B-31	4-Methylphenol	6.2				
TV-F&S 2000a	Nov-99	B-11	4-Methylphenol	4.9				
TV-F&S 2000a	Oct-99	B-38	4-Methylphenol	0.88				
TV-F&S 2000a	Nov-98	B-49	Acenaphthene	6.4		960	9.3	0.7
Ecology 1993b	Jun-93	278092	Acenaphthene	6	J	960	9.3	0.6
TV-F&S 2000a	Nov-98	B-46	Acenaphthene	2.8		960	9.3	0.3
TV-F&S 2000a	Nov-98	B-12	Acenaphthene	1.7		960	9.3	0.2
TV-F&S 2000a	Oct-98	B-44	Acenaphthene	1.5		960	9.3	0.2
TV-F&S 2000a	Nov-98	B-52	Acenaphthene	1.2		960	9.3	0.1
TV-F&S 2000a	Nov-98	B-52 (DUP)	Acenaphthene	1.2		960	9.3	0.1
Hart Crowser 1997	Dec-96	B-31	Acenaphthene	1	J	960	9.3	0.1
TV-F&S 2000a	Oct-99	B-58 (DUP)	Acenaphthene	0.77		960	9.3	0.1
TV-F&S 2000a	Oct-99	B-58	Acenaphthene	0.68		960	9.3	0.1
TV-F&S 2000a	Nov-99	B-12	Acenaphthene	0.68		960	9.3	0.1
Hart Crowser 1992b	**May-92**	**B-15**	**Acetone**	**18,000**		**800**		**23**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Ecology 1993b	**Jun-93**	**278091**	**Acetone**	**17,000**		**800**		**21**
Ecology 1993b	**Jun-93**	**278092**	**Acetone**	**13,000**		**800**		**16**
Hart Crowser 1992b	**May-92**	**B-11**	**Acetone**	**11,000**	**B**	**800**		**14**
Ecology 1993c	**Jul-93**	**B-27**	**Acetone**	**10,000**	**J**	**800**		**13**
Hart Crowser 1992b	**May-92**	**B-31**	**Acetone**	**10,000**	**B**	**800**		**13**
Hart Crowser 1992b	May-92	B-16	Acetone	7,200	B	800		9.0
Ecology 1993c	Jul-93	B-49	Acetone	5,700	J	800		7.1
Ecology 1993b	Jun-93	278094	Acetone	3,300		800		4.1
Ecology 1993b	Jun-93	278094 (DUP)	Acetone	3,000	J	800		3.8
Hart Crowser 1992b	May-92	B-8	Acetone	1,200	B	800		1.5
Hart Crowser 1992b	May-92	B-20	Acetone	820	B	800		1.0
Hart Crowser 1992b	May-92	B-10A	Acetone	610	B	800		0.8
Hart Crowser 1997	Dec-96	B-44	Acetone	590		800		0.7
Hart Crowser 1997	Dec-96	B-39	Acetone	390		800		0.5
Hart Crowser 1997	Dec-96	B-20	Acetone	190		800		0.2
Hart Crowser 1992b	May-92	B-18	Acetone	120	B	800		0.2
Hart Crowser 1997	Dec-96	B-31	Acetone	110		800		0.1
Ecology 1993b	Jun-93	278093	Acetone	61		800		0.1
Hart Crowser 1992b	May-92	B-9	Acetone	51	B	800		0.1
Hart Crowser 1997	Dec-96	B-35	Acetone	36		800		0.0
Hart Crowser 1992b	May-92	B-21	Acetone	24	B	800		0.0
ATI 1991b	Sep-91	B-16	Acetone	20	B	800		0.0
Hart Crowser 1990b	Jun-05	B-14	Acetone	0.068		800		0.0
Hart Crowser 1990b	Jun-05	B-8	Acetone	0.033		800		0.0
Hart Crowser 1990b	Jun-05	B-5	Acetone	0.010		800		0.0
Hart Crowser 1992b	May-92	B-30	Aluminum (dissolved)	660				
Hart Crowser 1992b	May-92	B-15	Aluminum (dissolved)	160				
Hart Crowser 1992b	May-92	B-31	Aluminum (dissolved)	100				
Hart Crowser 1992b	May-92	B-23	Aluminum (dissolved)	96				
Hart Crowser 1992b	May-92	B-5 (DUP)	Aluminum (dissolved)	94				
Hart Crowser 1992b	May-92	B-5	Aluminum (dissolved)	90				
Hart Crowser 1992b	May-92	B-22	Aluminum (dissolved)	67				
Hart Crowser 1992b	May-92	B-24	Aluminum (dissolved)	62				
Hart Crowser 1992b	May-92	B-27	Aluminum (dissolved)	57				

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-25	Aluminum (dissolved)	56				
Hart Crowser 1992b	May-92	B-29	Aluminum (dissolved)	56				
Hart Crowser 1992b	May-92	B-20	Aluminum (dissolved)	55				
Hart Crowser 1992b	May-92	B-11	Aluminum (dissolved)	51				
Hart Crowser 1992b	May-92	B-15	Aluminum (total)	200,000				
Hart Crowser 1992b	May-92	B-31	Aluminum (total)	110,000				
Hart Crowser 1992b	May-92	B-23	Aluminum (total)	64,000				
Hart Crowser 1992b	May-92	B-22	Aluminum (total)	55,000				
Hart Crowser 1992b	May-92	B-72	Aluminum (total)	51,000				
Hart Crowser 1992b	May-92	B-24	Aluminum (total)	49,000				
Hart Crowser 1992b	May-92	B-14	Aluminum (total)	43,000				
Hart Crowser 1992b	May-92	B-26	Aluminum (total)	36,000				
Hart Crowser 1992b	May-92	B-11	Aluminum (total)	29,000				
Hart Crowser 1992b	May-92	B-16	Aluminum (total)	26,000				
Hart Crowser 1992b	May-92	B-18	Aluminum (total)	15,000				
Hart Crowser 1992b	May-92	B-30	Aluminum (total)	15,000				
Hart Crowser 1992b	May-92	B-29	Aluminum (total)	13,000				
Hart Crowser 1992b	May-92	B-1	Aluminum (total)	7,100				
Hart Crowser 1992b	May-92	B-27	Aluminum (total)	1,900				
Hart Crowser 1992b	May-92	B-19	Aluminum (total)	1,700				
Hart Crowser 1992b	May-92	B-23 (DUP)	Aluminum (total)	820				
Hart Crowser 1992b	May-92	B-20	Aluminum (total)	590				
Hart Crowser 1992b	May-92	B-9	Aluminum (total)	470				
Hart Crowser 1992b	May-92	B-25	Aluminum (total)	320				
Hart Crowser 1992b	May-92	B-17	Aluminum (total)	300				
Hart Crowser 1992b	May-92	B-21	Aluminum (total)	300				
Hart Crowser 1992b	May-92	B-8	Aluminum (total)	270				
Hart Crowser 1992b	May-92	B-5 (DUP)	Aluminum (total)	260				
Hart Crowser 1992b	May-92	B-5	Aluminum (total)	250				
Hart Crowser 1992b	May-92	B-6	Aluminum (total)	180				
Hart Crowser 1992b	May-92	B-28	Aluminum (total)	91				
Hart Crowser 1992b	May-92	B-10A	Aluminum (total)	75				
TV-F&S 2000a	Oct-99	B-47	Ammonia (total as nitrogen)	25,000				
TV-F&S 2000a	Oct-99	B-42	Ammonia (total as nitrogen)	22,000				

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Nov-99	B-31	Ammonia (total as nitrogen)	14,000				
TV-F&S 2000a	Oct-99	B-49	Ammonia (total as nitrogen)	11,000				
TV-F&S 2000a	Nov-99	B-12	Ammonia (total as nitrogen)	9,200				
TV-F&S 2000a	Oct-99	B-44	Ammonia (total as nitrogen)	9,100				
TV-F&S 2000a	Oct-99	B-46	Ammonia (total as nitrogen)	6,400				
TV-F&S 2000a	Nov-99	B-11	Ammonia (total as nitrogen)	3,600				
TV-F&S 2000a	Oct-99	B-15	Ammonia (total as nitrogen)	2,900				
TV-F&S 2000a	Oct-99	B-58	Ammonia (total as nitrogen)	1,900				
TV-F&S 2000a	Oct-99	B-25	Ammonia (total as nitrogen)	1,600				
TV-F&S 2000a	Oct-99	B-16	Ammonia (total as nitrogen)	1,300				
TV-F&S 2000a	Oct-99	B-27	Ammonia (total as nitrogen)	690				
TV-F&S 2000a	Oct-99	B-17	Ammonia (total as nitrogen)	680				
TV-F&S 2000a	Oct-99	B-65	Ammonia (total as nitrogen)	610				
TV-F&S 2000a	Oct-99	B-33A	Ammonia (total as nitrogen)	600				
TV-F&S 2000a	Oct-99	B-59	Ammonia (total as nitrogen)	530				
TV-F&S 2000a	Oct-99	B-8	Ammonia (total as nitrogen)	320				
TV-F&S 2000a	Oct-99	B-45	Ammonia (total as nitrogen)	290				
TV-F&S 2000a	Oct-99	B-35	Ammonia (total as nitrogen)	280				
TV-F&S 2000a	Oct-99	B-6	Ammonia (total as nitrogen)	270				
TV-F&S 2000a	Oct-99	B-61	Ammonia (total as nitrogen)	260				
TV-F&S 2000a	Oct-99	B-36	Ammonia (total as nitrogen)	130				
TV-F&S 2000a	Oct-99	B-26	Ammonia (total as nitrogen)	110				
TV-F&S 2000a	Oct-99	B-34	Ammonia (total as nitrogen)	96				
TV-F&S 2000a	Oct-99	B-20A	Ammonia (total as nitrogen)	87				
TV-F&S 2000a	Oct-99	B-23	Ammonia (total as nitrogen)	73				
TV-F&S 2000a	Oct-99	B-24	Ammonia (total as nitrogen)	70				
TV-F&S 2000a	Oct-99	B-21	Ammonia (total as nitrogen)	64				
TV-F&S 2000a	Oct-99	B-60	Ammonia (total as nitrogen)	48				
TV-F&S 2000a	Oct-99	B-63	Ammonia (total as nitrogen)	0.35				
Ecology 1993c	Jul-93	B-49	Anthracene	9	J	4,800	59	0.2
Ecology 1993b	Jun-93	278092	Anthracene	4	J	4,800	59	0.1
Hart Crowser 1992b	May-92	B-30	Arsenic (dissolved)	22		5	370	4.4
Hart Crowser 1992b	May-92	B-16	Arsenic (dissolved)	19		5	370	3.8
Hart Crowser 1992b	May-92	B-31	Arsenic (dissolved)	18		5	370	3.6

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-18	Arsenic (dissolved)	7.1		5	370	1.4
Hart Crowser 1992b	May-92	B-20	Arsenic (dissolved)	7		5	370	1.4
Hart Crowser 1992b	May-92	B-15	Arsenic (dissolved)	6.6		5	370	1.3
Hart Crowser 1992b	May-92	B-1	Arsenic (dissolved)	6.2		5	370	1.2
Hart Crowser 1992b	**May-92**	**B-15**	**Arsenic (total)**	**140**		**5**	**370**	**28**
Hart Crowser 1992b	May-92	B-24	Arsenic (total)	49		5	370	9.8
Hart Crowser 1992b	May-92	B-23	Arsenic (total)	42		5	370	8.4
Hart Crowser 1992b	May-92	B-31	Arsenic (total)	39		5	370	7.8
Hart Crowser 1992b	May-92	B-16	Arsenic (total)	24		5	370	4.8
Hart Crowser 1992b	May-92	B-22	Arsenic (total)	22		5	370	4.4
Hart Crowser 1992b	May-92	B-30	Arsenic (total)	20		5	370	4.0
Hart Crowser 1992b	May-92	B-1	Arsenic (total)	17		5	370	3.4
Hart Crowser 1992b	May-92	B-26	Arsenic (total)	13		5	370	2.6
Hart Crowser 1992b	May-92	B-18	Arsenic (total)	11		5	370	2.2
Hart Crowser 1992b	May-92	B-14	Arsenic (total)	10		5	370	2.0
Hart Crowser 1992b	May-92	B-11	Arsenic (total)	9.7		5	370	1.9
Hart Crowser 1992b	May-92	B-20	Arsenic (total)	8		5	370	1.6
Hart Crowser 1992b	May-92	B-29	Arsenic (total)	5.3		5	370	1.1
Hart Crowser 1992b	May-92	B-27	Arsenic (total)	5.2		5	370	1.0
Hart Crowser 1992b	May-92	B-29	Barium (dissolved)	81		3,200		0.0
Hart Crowser 1992b	May-92	B-23	Barium (dissolved)	19		3,200		0.0
Hart Crowser 1992b	May-92	B-23 (DUP)	Barium (dissolved)	19		3,200		0.0
Hart Crowser 1992b	May-92	B-5	Barium (dissolved)	19		3,200		0.0
Hart Crowser 1992b	May-92	B-5 (DUP)	Barium (dissolved)	18		3,200		0.0
Hart Crowser 1992b	May-92	B-10A	Barium (dissolved)	15		3,200		0.0
Hart Crowser 1992b	May-92	B-22	Barium (dissolved)	15		3,200		0.0
Hart Crowser 1992b	May-92	B-25	Barium (dissolved)	12		3,200		0.0
Hart Crowser 1992b	May-92	B-6	Barium (dissolved)	12		3,200		0.0
Hart Crowser 1992b	May-92	B-72	Barium (dissolved)	12		3,200		0.0
Hart Crowser 1992b	May-92	B-19	Barium (dissolved)	11		3,200		0.0
Hart Crowser 1992b	May-92	B-24	Barium (dissolved)	11		3,200		0.0
Hart Crowser 1992b	May-92	B-14	Barium (dissolved)	10		3,200		0.0
Hart Crowser 1992b	May-92	B-18	Barium (dissolved)	10		3,200		0.0
Hart Crowser 1992b	May-92	B-15	Barium (total)	550		3,200		0.2

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-31	Barium (total)	280		3,200		0.1
Hart Crowser 1992b	May-92	B-23	Barium (total)	240		3,200		0.1
Hart Crowser 1992b	May-92	B-24	Barium (total)	240		3,200		0.1
Hart Crowser 1992b	May-92	B-22	Barium (total)	170		3,200		0.1
Hart Crowser 1992b	May-92	B-29	Barium (total)	170		3,200		0.1
Hart Crowser 1992b	May-92	B-8	Barium (total)	170		3,200		0.1
Hart Crowser 1992b	May-92	B-14	Barium (total)	130		3,200		0.0
Hart Crowser 1992b	May-92	B-11	Barium (total)	120		3,200		0.0
Hart Crowser 1992b	May-92	B-26	Barium (total)	110		3,200		0.0
Hart Crowser 1992b	May-92	B-16	Barium (total)	89		3,200		0.0
Hart Crowser 1992b	May-92	B-18	Barium (total)	59		3,200		0.0
Hart Crowser 1992b	May-92	B-30	Barium (total)	54		3,200		0.0
Hart Crowser 1992b	May-92	B-9	Barium (total)	41		3,200		0.0
Hart Crowser 1992b	May-92	B-1	Barium (total)	31		3,200		0.0
Hart Crowser 1992b	May-92	B-19	Barium (total)	30		3,200		0.0
Hart Crowser 1992b	May-92	B-72	Barium (total)	29		3,200		0.0
Hart Crowser 1992b	May-92	B-27	Barium (total)	23		3,200		0.0
Hart Crowser 1992b	May-92	B-5	Barium (total)	23		3,200		0.0
Hart Crowser 1992b	May-92	B-5 (DUP)	Barium (total)	23		3,200		0.0
Hart Crowser 1992b	May-92	B-23 (DUP)	Barium (total)	21		3,200		0.0
Hart Crowser 1992b	May-92	B-21	Barium (total)	17		3,200		0.0
Hart Crowser 1992b	May-92	B-25	Barium (total)	15		3,200		0.0
Hart Crowser 1992b	May-92	B-10A	Barium (total)	14		3,200		0.0
Hart Crowser 1992b	May-92	B-20	Barium (total)	14		3,200		0.0
Hart Crowser 1992b	May-92	B-6	Barium (total)	11		3,200		0.0
Hart Crowser 1992b	**May-92**	**B-30**	**Benzene**	**1,300**		**0.8**		**1,625**
Ecology 1993b	**Jun-93**	**278092**	**Benzene**	**710**		**0.8**		**888**
Hart Crowser 1992b	**May-92**	**B-31**	**Benzene**	**630**		**0.8**		**788**
Ecology 1993b	**Jun-93**	**278091**	**Benzene**	**600**		**0.8**		**750**
TV-F&S 2000a	**Nov-98**	**B-49**	**Benzene**	**440**		**0.8**		**550**
Hart Crowser 1997	**Dec-96**	**B-44**	**Benzene**	**310**		**0.8**		**388**
TV-F&S 2000a	**Oct-98**	**B-20**	**Benzene**	**300**		**0.8**		**375**
Hart Crowser 1997	**Dec-96**	**B-39**	**Benzene**	**210**		**0.8**		**263**
Hart Crowser 1992b	**May-92**	**B-29**	**Benzene**	**190**		**0.8**		**238**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	**Oct-98**	**B-44**	**Benzene**	**170**		**0.8**		**213**
TV-F&S 2000a	**Oct-98**	**B-21**	**Benzene**	**130**		**0.8**		**163**
TV-F&S 2000a	**Nov-98**	**B-12**	**Benzene**	**120**		**0.8**		**150**
Hart Crowser 1992b	**May-92**	**B-15**	**Benzene**	**120**		**0.8**		**150**
Hart Crowser 1997	**Dec-96**	**B-10A**	**Benzene**	**88**	**J**	**0.8**		**110**
Hart Crowser 1997	**Dec-96**	**B-20**	**Benzene**	**88**		**0.8**		**110**
TV-F&S 2000a	**Oct-98**	**B-35**	**Benzene**	**64**		**0.8**		**80**
Hart Crowser 1997	**Dec-96**	**B-35**	**Benzene**	**56**		**0.8**		**70**
Hart Crowser 1997	**Dec-96**	**B-31**	**Benzene**	**43**		**0.8**		**54**
Hart Crowser 1997	**Dec-96**	**B-21**	**Benzene**	**29**		**0.8**		**36**
TV-F&S 2000a	**Nov-98**	**B-52**	**Benzene**	**21**		**0.8**		**26**
Hart Crowser 1992b	**May-92**	**B-5**	**Benzene**	**21**		**0.8**		**26**
Hart Crowser 1992b	**May-92**	**B-5 (DUP)**	**Benzene**	**21**		**0.8**		**26**
Hart Crowser 1992b	**May-92**	**B-20**	**Benzene**	**20**		**0.8**		**25**
Hart Crowser 1997	**Dec-96**	**B-33A**	**Benzene**	**18**	**J**	**0.8**		**23**
ATI 1991b	**Sep-91**	**B-16**	**Benzene**	**17**		**0.8**		**21**
Hart Crowser 1997	**Dec-96**	**B-45**	**Benzene**	**15**		**0.8**		**19**
Hart Crowser 1992b	**May-92**	**B-21**	**Benzene**	**15**		**0.8**		**19**
TV-F&S 2000a	**Jul-99**	**B-65**	**Benzene**	**8.7**		**0.8**		**11**
TV-F&S 2000a	**Jul-99**	**B-63**	**Benzene**	**8.1**		**0.8**		**10**
ATI 1991b	**Sep-91**	**B-17**	**Benzene**	**8**		**0.8**		**10**
TV-F&S 2000a	Jul-99	B-63 (DUP)	Benzene	7.5		0.8		9.4
TV-F&S 2000a	Jul-99	B-61	Benzene	6.2		0.8		7.8
Hart Crowser 1992b	May-92	B-27	Benzene	5		0.8		6.3
TV-F&S 2000a	Oct-99	B-26	Benzene	3.7		0.8		4.6
TV-F&S 2000a	Jul-99	TW-2	Benzene	3.1		0.8		3.9
TV-F&S 2000a	Oct-98	B-8	Benzene	3		0.8		3.8
Hart Crowser 1992b	May-92	B-17	Benzene	3		0.8		3.8
Hart Crowser 1992b	May-92	B-6	Benzene	3		0.8		3.8
TV-F&S 2000a	Oct-99	B-36	Benzene	2.7		0.8		3.4
Hart Crowser 1997	Dec-96	B-36	Benzene	2		0.8		2.5
Hart Crowser 1997	Dec-96	B-24	Benzene	2		0.8		2.5
Hart Crowser 1992b	May-92	B-19	Benzene	2		0.8		2.5
Hart Crowser 1992b	May-92	B-24	Benzene	2		0.8		2.5

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-25	Benzene	2		0.8		2.5
Hart Crowser 1992b	May-92	B-72	Benzene	2		0.8		2.5
TV-F&S 2000a	Oct-98	B-36	Benzene	1.3		0.8		1.6
TV-F&S 2000a	Oct-98	B-36 (DUP)	Benzene	1.3		0.8		1.6
TV-F&S 2000a	Nov-98	B-18	Benzene	1.2		0.8		1.5
Hart Crowser 1990b	1990	B-8	Benzene	0.89		0.8		1.1
Hart Crowser 1990b	1990	B-1	Benzene	0.026		0.8		0.0
Hart Crowser 1990b	1990	B-8	Benzene	0.021		0.8		0.0
Hart Crowser 1990b	1990	B-5	Benzene	0.008		0.8		0.0
Ecology 1993b	Jun-93	278092	Benzo(a)anthracene	2	J		0.63	3.2
Hart Crowser 1992b	May-92	B-16	Benzoic Acid	110		64,000	2,200	0.1
TV-F&S 2000a	Jul-99	B-58	Benzoic Acid	14		64,000	2,200	0.0
Hart Crowser 1997	Dec-96	B-24	Benzoic Acid	1	J	64,000	2,200	0.0
TV-F&S 2000a	Nov-98	B-49	Benzyl alcohol	17		2,400	230	0.1
Hart Crowser 1997	Dec-96	B-31	Benzyl Alcohol	4	J	2,400	230	0.0
Hart Crowser 1997	**Dec-96**	**B-31**	**Bis(2-Ethylhexyl)Phthalate**	**76**		**6.3**	**0.47**	**162**
Hart Crowser 1992b	**May-92**	**B-72**	**Bis(2-Ethylhexyl)Phthalate**	**60**		**6.3**	**0.47**	**128**
Hart Crowser 1992b	**May-92**	**B-25**	**Bis(2-Ethylhexyl)Phthalate**	**36**		**6.3**	**0.47**	**77**
Hart Crowser 1992b	**May-92**	**B-8**	**Bis(2-Ethylhexyl)Phthalate**	**25**		**6.3**	**0.47**	**53**
Hart Crowser 1992b	**May-92**	**B-5 (DUP)**	**Bis(2-Ethylhexyl)Phthalate**	**20**		**6.3**	**0.47**	**43**
Hart Crowser 1992b	**May-92**	**B-17**	**Bis(2-Ethylhexyl)Phthalate**	**18**		**6.3**	**0.47**	**38**
Hart Crowser 1992b	**May-92**	**B-20**	**Bis(2-Ethylhexyl)Phthalate**	**17**		**6.3**	**0.47**	**36**
Hart Crowser 1992b	**May-92**	**B-27**	**Bis(2-Ethylhexyl)Phthalate**	**17**		**6.3**	**0.47**	**36**
Hart Crowser 1992b	**May-92**	**B-23 (DUP)**	**Bis(2-Ethylhexyl)Phthalate**	**12**		**6.3**	**0.47**	**26**
Hart Crowser 1997	**Dec-96**	**B-8**	**Bis(2-Ethylhexyl)Phthalate**	**11**		**6.3**	**0.47**	**23**
Hart Crowser 1992b	**May-92**	**B-21**	**Bis(2-Ethylhexyl)Phthalate**	**11**		**6.3**	**0.47**	**23**
Hart Crowser 1992b	**May-92**	**B-23**	**Bis(2-Ethylhexyl)Phthalate**	**11**		**6.3**	**0.47**	**23**
Hart Crowser 1992b	**May-92**	**B-19**	**Bis(2-Ethylhexyl)Phthalate**	**10**		**6.3**	**0.47**	**21**
TV-F&S 2000a	**Jul-99**	**B-58**	**Bis(2-Ethylhexyl)Phthalate**	**8.8**		**6.3**	**0.47**	**19**
ATI 1991b	**Sep-91**	**B-17**	**Bis(2-Ethylhexyl)Phthalate**	**8.5**	**J**	**6.3**	**0.47**	**18**
Ecology 1993b	Jun-93	278093	Bis(2-Ethylhexyl)Phthalate	3	J	6.3	0.47	6.4
TV-F&S 2000a	Feb-99	B-53	Bis(2-Ethylhexyl)Phthalate	2.1		6.3	0.47	4.5
TV-F&S 2000a	Jul-99	B-59	Bis(2-Ethylhexyl)Phthalate	1.6		6.3	0.47	3.4
TV-F&S 2000a	Feb-99	B-57	Bis(2-Ethylhexyl)Phthalate	1.6		6.3	0.47	3.4

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Jul-99	B-61	Bis(2-Ethylhexyl)Phthalate	1.5		6.3	0.47	3.2
TV-F&S 2000a	Oct-98	B-36 (DUP)	bis(2-Ethylhexyl)phthalate	1.1		6.3	0.47	2.3
TV-F&S 2000a	Feb-99	B-28	Bis(2-Ethylhexyl)Phthalate	1.1		6.3	0.47	2.3
TV-F&S 2000a	Nov-98	B-42	bis(2-Ethylhexyl)phthalate	1		6.3	0.47	2.1
TV-F&S 2000a	Feb-99	B-56	Bis(2-Ethylhexyl)Phthalate	1		6.3	0.47	2.1
Hart Crowser 1992b	May-92	B-25	Cadmium (dissolved)	5.8		5	3.4	1.7
Hart Crowser 1992b	May-92	B-15	Cadmium (dissolved)	0.78		5	3.4	0.2
Hart Crowser 1992b	May-92	B-19	Cadmium (dissolved)	0.73		5	3.4	0.2
Hart Crowser 1992b	May-92	B-27	Cadmium (dissolved)	0.64		5	3.4	0.2
Hart Crowser 1992b	May-92	B-72	Cadmium (dissolved)	0.46		5	3.4	0.1
Hart Crowser 1992b	May-92	B-9	Cadmium (dissolved)	0.36		5	3.4	0.1
Hart Crowser 1992b	May-92	B-26	Cadmium (dissolved)	0.26		5	3.4	0.1
Hart Crowser 1992b	May-92	B-9	Cadmium (total)	16		5	3.4	4.7
Hart Crowser 1992b	May-92	B-15	Cadmium (total)	7.9		5	3.4	2.3
Hart Crowser 1992b	May-92	B-72	Cadmium (total)	7		5	3.4	2.1
Hart Crowser 1992b	May-92	B-19	Cadmium (total)	6.6		5	3.4	1.9
Hart Crowser 1992b	May-92	B-8	Cadmium (total)	4.1		5	3.4	1.2
Hart Crowser 1992b	May-92	B-17	Cadmium (total)	2.1		5	3.4	0.6
Hart Crowser 1992b	May-92	B-27	Cadmium (total)	1.9		5	3.4	0.6
Hart Crowser 1992b	May-92	B-31	Cadmium (total)	1.7		5	3.4	0.5
Hart Crowser 1992b	May-92	B-24	Cadmium (total)	1		5	3.4	0.3
Hart Crowser 1992b	May-92	B-25	Cadmium (total)	0.98		5	3.4	0.3
Hart Crowser 1992b	May-92	B-14	Cadmium (total)	0.89		5	3.4	0.3
Hart Crowser 1992b	May-92	B-16	Cadmium (total)	0.83		5	3.4	0.2
Hart Crowser 1992b	May-92	B-26	Cadmium (total)	0.79		5	3.4	0.2
Hart Crowser 1992b	May-92	B-22	Cadmium (total)	0.75		5	3.4	0.2
Hart Crowser 1992b	May-92	B-23	Cadmium (total)	0.66		5	3.4	0.2
Hart Crowser 1992b	May-92	B-29	Cadmium (total)	0.37		5	3.4	0.1
Hart Crowser 1992b	May-92	B-11	Cadmium (total)	0.32		5	3.4	0.1
Hart Crowser 1992b	May-92	B-30	Cadmium (total)	0.3		5	3.4	0.1
Ecology 1993c	Jul-93	B-49	Carbazole	23	J	4.4		5.2
Ecology 1993b	Jun-93	278092	Carbazole	13	J	4.4		3.0
Ecology 1993b	Jun-93	278091	Carbon Disulfide	140	J	800		0.2
Ecology 1993b	Jun-93	278092	Carbon Disulfide	93	J	800		0.1

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-34	Chloride	11,000,000				
TV-F&S 2000a	Oct-99	B-33A	Chloride	730,000				
TV-F&S 2000a	Oct-99	B-42	Chloride	130,000				
TV-F&S 2000a	Oct-99	B-44	Chloride	130,000				
TV-F&S 2000a	Oct-99	B-47	Chloride	130,000				
TV-F&S 2000a	Oct-99	B-49	Chloride	130,000				
TV-F&S 2000a	Oct-99	B-17	Chloride	110,000				
TV-F&S 2000a	Oct-99	B-27	Chloride	110,000				
TV-F&S 2000a	Nov-99	B-31	Chloride	110,000				
TV-F&S 2000a	Nov-99	B-12	Chloride	97,000				
TV-F&S 2000a	Oct-99	B-25	Chloride	92,000				
TV-F&S 2000a	Oct-99	B-65	Chloride	88,000				
TV-F&S 2000a	Oct-99	B-15	Chloride	82,000				
TV-F&S 2000a	Oct-99	B-46	Chloride	74,000				
TV-F&S 2000a	Oct-99	B-6	Chloride	54,000				
TV-F&S 2000a	Oct-99	B-61	Chloride	47,000				
TV-F&S 2000a	Nov-99	B-11	Chloride	43,000				
TV-F&S 2000a	Oct-99	B-21	Chloride	39,000				
TV-F&S 2000a	Oct-99	B-35	Chloride	36,000				
TV-F&S 2000a	Oct-99	B-59	Chloride	32,000				
TV-F&S 2000a	Oct-99	B-45	Chloride	28,000				
TV-F&S 2000a	Oct-99	B-58	Chloride	26,000				
TV-F&S 2000a	Oct-99	B-23	Chloride	18,000				
TV-F&S 2000a	Oct-99	B-62	Chloride	12,000				
TV-F&S 2000a	Oct-99	B-20A	Chloride	11,000				
TV-F&S 2000a	Oct-99	B-28	Chloride	9,300				
TV-F&S 2000a	Oct-99	B-60	Chloride	9,300				
TV-F&S 2000a	Oct-99	B-13	Chloride	8,900				
TV-F&S 2000a	Oct-99	B-8	Chloride	7,700				
TV-F&S 2000a	Oct-99	B-53	Chloride	6,400				
TV-F&S 2000a	Oct-99	B-55	Chloride	5,500				
TV-F&S 2000a	Oct-99	B-54	Chloride	5,300				
TV-F&S 2000a	Oct-99	B-26	Chloride	4,600				
TV-F&S 2000a	Oct-99	B-36	Chloride	4,500				

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-16	Chloride	4,100				
TV-F&S 2000a	Oct-99	B-24	Chloride	3,900				
TV-F&S 2000a	Oct-99	B-22	Chloride	3,000				
TV-F&S 2000a	Oct-99	B-64	Chloride	2,200				
TV-F&S 2000a	Oct-99	B-63	Chloride	17				
Hart Crowser 1997	Dec-96	B-20	Chlorobenzene	20		160		0.1
Ecology 1993b	Jun-93	278092	Chlorobenzene	10	J	160		0.1
TV-F&S 2000a	Nov-98	B-52	Chlorobenzene	2.7		160		0.0
Hart Crowser 1997	Dec-96	B-35	Chloroethane	25				
Ecology 1993b	Jun-93	278091	Chloroform	66	J	7.2		9.2
Hart Crowser 1992b	May-92	B-30	Chloroform	61		7.2		8.5
Ecology 1993b	Jun-93	278092	Chloroform	52	J	7.2		7.2
Hart Crowser 1997	Dec-96	B-44	Chloroform	26		7.2		3.6
Hart Crowser 1992b	May-92	B-27	Chloroform	20		7.2		2.8
Hart Crowser 1997	Dec-96	B-39	Chloroform	19		7.2		2.6
TV-F&S 2000a	Jul-99	B-63 (DUP)	Chloroform	14		7.2		1.9
Hart Crowser 1990b	Jun-05	B-7	Chloroform	13		7.2		1.8
TV-F&S 2000a	Jul-99	B-63	Chloroform	13		7.2		1.8
Hart Crowser 1992b	May-92	B-72	Chloroform	13		7.2		1.8
Hart Crowser 1997	Dec-96	B-31	Chloroform	12		7.2		1.7
Hart Crowser 1992b	May-92	B-19	Chloroform	12		7.2		1.7
Hart Crowser 1992b	May-92	B-13	Chloroform	3		7.2		0.4
TV-F&S 2000a	Jul-99	TW-2	Chloroform	2.5		7.2		0.3
TV-F&S 2000a	Nov-98	B-52	Chloroform	2.1		7.2		0.3
Hart Crowser 1997	Dec-96	B-10A	Chloroform	2	J	7.2		0.3
TV-F&S 2000a	Jul-99	TW-3 (DUP)	Chloroform	1.2		7.2		0.2
TV-F&S 2000a	Dec-98	B-13	Chloroform	1.19		7.2		0.2
TV-F&S 2000a	Jul-99	TW-3	Chloroform	1		7.2		0.1
Hart Crowser 1992b	May-92	B-21	Chloroform	1		7.2		0.1
Hart Crowser 1992b	May-92	B-22	Chloroform	1		7.2		0.1
Hart Crowser 1990a	May-89	B-1	Chloroform	0.017		7.2		0.0
Hart Crowser 1990b	Jun-05	B-6	Chloroform	0.003		7.2		0.0
Hart Crowser 1992b	May-92	B-13	Chromium (dissolved)	5		50	320	0.1
Hart Crowser 1992b	May-92	B-10A	Chromium (dissolved)	0.011		50	320	0.0

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	**May-92**	**B-15**	**Chromium (total)**	**16,000**		**50**	**320**	**320**
Hart Crowser 1992b	May-92	B-11	Chromium (total)	140		50	320	2.8
Hart Crowser 1992b	May-92	B-31	Chromium (total)	140		50	320	2.8
Hart Crowser 1992b	May-92	B-16	Chromium (total)	110		50	320	2.2
Hart Crowser 1992b	May-92	B-22	Chromium (total)	94		50	320	1.9
Hart Crowser 1992b	May-92	B-30	Chromium (total)	94		50	320	1.9
Hart Crowser 1992b	May-92	B-23	Chromium (total)	92		50	320	1.8
Hart Crowser 1992b	May-92	B-14	Chromium (total)	69		50	320	1.4
Hart Crowser 1992b	May-92	B-24	Chromium (total)	68		50	320	1.4
Hart Crowser 1992b	May-92	B-1	Chromium (total)	61		50	320	1.2
Hart Crowser 1992b	May-92	B-26	Chromium (total)	59		50	320	1.2
Hart Crowser 1992b	May-92	B-29	Chromium (total)	37		50	320	0.7
Hart Crowser 1992b	May-92	B-5 (DUP)	Chromium (total)	27		50	320	0.5
Hart Crowser 1992b	May-92	B-18	Chromium (total)	26		50	320	0.5
Hart Crowser 1992b	May-92	B-19	Chromium (total)	25		50	320	0.5
Hart Crowser 1992b	May-92	B-72	Chromium (total)	25		50	320	0.5
Hart Crowser 1992b	May-92	B-27	Chromium (total)	24		50	320	0.5
Hart Crowser 1992b	May-92	B-8	Chromium (total)	24		50	320	0.5
Hart Crowser 1992b	May-92	B-25	Chromium (total)	18		50	320	0.4
Hart Crowser 1992b	May-92	B-9	Chromium (total)	17		50	320	0.3
Hart Crowser 1992b	May-92	B-5	Chromium (total)	14		50	320	0.3
Hart Crowser 1992b	May-92	B-17	Chromium (total)	9.5		50	320	0.2
Hart Crowser 1992b	May-92	B-23 (DUP)	Chromium (total)	7.4		50	320	0.1
Hart Crowser 1992b	May-92	B-21	Chromium (total)	5.3		50	320	0.1
Hart Crowser 1992b	May-92	B-13	Chromium (total)	5		50	320	0.1
Hart Crowser 1992b	May-92	B-10A	Chromium (total)	0.012		50	320	0.0
Ecology 1993b	Jun-93	278092	Chrysene	2	J		1.9	1.1
Hart Crowser 1990b	1990	B-12	cis-1,2-DCA	41				
Hart Crowser 1990b	1990	B-11	cis-1,2-DCA	24				
Hart Crowser 1990b	1990	B-7	cis-1,2-DCA	1.7				
Hart Crowser 1990b	1990	B-9	cis-1,2-DCA	0.12				
Hart Crowser 1990b	1990	B-10	cis-1,2-DCA	0.038				
Hart Crowser 1993a	**Jul-93**	**B-47 (DUP)**	**cis-1,2-DCE**	**75,000**		**80**		**938**
Hart Crowser 1993a	**Jul-93**	**B-50**	**cis-1,2-DCE**	**74,000**		**80**		**925**

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Jul-93	B-47	cis-1,2-DCE	72,000		80		900
Hart Crowser 1993a	Jun-93	B-46	cis-1,2-DCE	61,000		80		763
Hart Crowser 1993a	Jun-93	B-44	cis-1,2-DCE	58,000		80		725
TV-F&S 2000a	Jul-99	B-65	cis-1,2-DCE	47,000		80		588
TV-F&S 2000a	Oct-99	B-65	cis-1,2-DCE	40,000	J	80		500
Hart Crowser 1993a	Jun-93	B-43	cis-1,2-DCE	38,000		80		475
Hart Crowser 1993a	Jul-93	B-49	cis-1,2-DCE	34,000		80		425
TV-F&S 2000a	Oct-99	B-47	cis-1,2-DCE	33,000		80		413
TV-F&S 2000a	Oct-99	B-47 (DUP)	cis-1,2-DCE	29,000		80		363
TV-F&S 2000a	Oct-99	B-21	cis-1,2-DCE	28,000		80		350
TV-F&S 2000a	Oct-99	B-42	cis-1,2-DCE	28,000		80		350
Hart Crowser 1993a	Aug-93	B-52 (DUP)	cis-1,2-DCE	27,000		80		338
TV-F&S 2000a	Jul-99	B-61	cis-1,2-DCE	27,000	J	80		338
TV-F&S 2000a	Oct-98	B-33A	cis-1,2-DCE	26,000		80		325
TV-F&S 2000a	Nov-98	B-46 BAL	cis-1,2-DCE	26,000		80		325
Hart Crowser 1993a	Aug-93	B-52	cis-1,2-DCE	25,000		80		313
TV-F&S 2000a	Oct-99	B-49	cis-1,2-DCE	25,000		80		313
Hart Crowser 1993a	Aug-93	B-51	cis-1,2-DCE	23,000		80		288
TV-F&S 2000a	Oct-98	B-20	cis-1,2-DCE	23,000		80		288
TV-F&S 2000a	Oct-98	B-21	cis-1,2-DCE	23,000		80		288
TV-F&S 2000a	Oct-99	B-58	cis-1,2-DCE	22,000		80		275
TV-F&S 2000a	Oct-99	B-61	cis-1,2-DCE	22,000		80		275
TV-F&S 2000a	Nov-98	B-46	cis-1,2-DCE	21,000		80		263
TV-F&S 2000a	Jul-99	B-58	cis-1,2-DCE	21,000		80		263
TV-F&S 2000a	Oct-99	B-45	cis-1,2-DCE	21,000		80		263
TV-F&S 2000a	Oct-99	B-33A	cis-1,2-DCE	21,000		80		263
TV-F&S 2000a	Oct-99	B-45 (DUP)	cis-1,2-DCE	20,000		80		250
TV-F&S 2000a	Oct-99	B-58 (DUP)	cis-1,2-DCE	18,000	J	80		225
TV-F&S 2000a	Nov-98	B-12	cis-1,2-DCE	16,000		80		200
TV-F&S 2000a	Oct-98	B-44	cis-1,2-DCE	15,000		80		188
TV-F&S 2000a	Nov-98	B-42	cis-1,2-DCE	14,000		80		175
TV-F&S 2000a	Nov-98	B-45	cis-1,2-DCE	14,000		80		175
TV-F&S 2000a	Nov-98	B-45 BAL	cis-1,2-DCE	14,000		80		175
TV-F&S 2000a	Nov-98	B-49	cis-1,2-DCE	14,000		80		175

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	**Oct-99**	**B-33A (DUP)**	**cis-1,2-DCE**	**14,000**		**80**		**175**
TV-F&S 2000a	**Nov-99**	**B-11**	**cis-1,2-DCE**	**14,000**		**80**		**175**
Hart Crowser 1993a	**Jul-93**	**B-48**	**cis-1,2-DCE**	**13,000**		**80**		**163**
TV-F&S 2000a	**Oct-99**	**B-52**	**cis-1,2-DCE**	**13,000**	**J**	**80**		**163**
TV-F&S 2000a	**Oct-99**	**B-10A**	**cis-1,2-DCE**	**13,000**		**80**		**163**
TV-F&S 2000a	**Oct-99**	**B-46**	**cis-1,2-DCE**	**13,000**		**80**		**163**
TV-F&S 2000a	**Nov-98**	**B-39**	**cis-1,2-DCE**	**12,000**		**80**		**150**
TV-F&S 2000a	**Oct-99**	**B-39**	**cis-1,2-DCE**	**11,000**	**J**	**80**		**138**
TV-F&S 2000a	**Oct-99**	**B-44**	**cis-1,2-DCE**	**10,000**		**80**		**125**
TV-F&S 2000a	**Nov-98**	**B-52**	**cis-1,2-DCE**	**8,300**		**80**		**104**
TV-F&S 2000a	**Nov-98**	**B-10A**	**cis-1,2-DCE**	**6,400**		**80**		**80**
TV-F&S 2000a	**Nov-98**	**B-52 (DUP)**	**cis-1,2-DCE**	**6,200**		**80**		**78**
TV-F&S 2000a	**Oct-99**	**B-18**	**cis-1,2-DCE**	**6,000**		**80**		**75**
TV-F&S 2000a	**Oct-99**	**B-63**	**cis-1,2-DCE**	**5,400**		**80**		**68**
TV-F&S 2000a	**Nov-99**	**B-12**	**cis-1,2-DCE**	**4,500**		**80**		**56**
Hart Crowser 1993a	**Jun-93**	**B-45**	**cis-1,2-DCE**	**4,400**		**80**		**55**
Hart Crowser 1993a	**Jun-93**	**B-45 (DUP)**	**cis-1,2-DCE**	**4,200**		**80**		**53**
TV-F&S 2000a	**Jul-99**	**B-63**	**cis-1,2-DCE**	**3,700**		**80**		**46**
TV-F&S 2000a	**Jul-99**	**B-63 (DUP)**	**cis-1,2-DCE**	**3,500**		**80**		**44**
TV-F&S 2000a	**Oct-99**	**B-15**	**cis-1,2-DCE**	**2,100**		**80**		**26**
TV-F&S 2000a	**Oct-98**	**B-8**	**cis-1,2-DCE**	**1,500**		**80**		**19**
TV-F&S 2000a	**Oct-99**	**B-60**	**cis-1,2-DCE**	**960**		**80**		**12**
TV-F&S 2000a	**Oct-99**	**B-62**	**cis-1,2-DCE**	**930**		**80**		**12**
TV-F&S 2000a	Jul-99	TW-3 (DUP)	cis-1,2-DCE	780		80		9.8
TV-F&S 2000a	Jul-99	TW-3	cis-1,2-DCE	780		80		9.8
TV-F&S 2000a	Oct-99	B-8	cis-1,2-DCE	660		80		8.3
TV-F&S 2000a	Jul-99	TW-2	cis-1,2-DCE	640		80		8.0
TV-F&S 2000a	Jul-99	TW-5	cis-1,2-DCE	550		80		6.9
TV-F&S 2000a	Oct-99	B-16	cis-1,2-DCE	460		80		5.8
TV-F&S 2000a	Oct-99	B-35	cis-1,2-DCE	450		80		5.6
TV-F&S 2000a	Nov-99	B-31	cis-1,2-DCE	450		80		5.6
TV-F&S 2000a	Dec-98	B-22	cis-1,2-DCE	403		80		5.0
TV-F&S 2000a	Nov-98	B-18	cis-1,2-DCE	360		80		4.5
TV-F&S 2000a	Jul-99	B-59	cis-1,2-DCE	350		80		4.4

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Feb-99	B-22	cis-1,2-DCE	320		80		4.0
TV-F&S 2000a	Oct-99	B-36	cis-1,2-DCE	290		80		3.6
TV-F&S 2000a	Oct-99	B-59	cis-1,2-DCE	280		80		3.5
TV-F&S 2000a	Jul-99	B-60	cis-1,2-DCE	220		80		2.8
TV-F&S 2000a	Oct-99	B-22	cis-1,2-DCE	190		80		2.4
TV-F&S 2000a	Oct-99	B-54	cis-1,2-DCE	150		80		1.9
TV-F&S 2000a	Jul-99	B-13	cis-1,2-DCE	120		80		1.5
TV-F&S 2000a	Apr-99	B-13	cis-1,2-DCE	100		80		1.3
TV-F&S 2000a	Jul-99	TW-1	cis-1,2-DCE	95		80		1.2
TV-F&S 2000a	Jul-99	TW-6	cis-1,2-DCE	86		80		1.1
TV-F&S 2000a	Oct-99	B-13	cis-1,2-DCE	76		80		0.95
TV-F&S 2000a	Feb-99	B-13	cis-1,2-DCE	74		80		0.9
TV-F&S 2000a	Dec-98	B-13	cis-1,2-DCE	72.6		80		0.9
TV-F&S 2000a	Oct-99	B-20A	cis-1,2-DCE	72		80		0.9
TV-F&S 2000a	Oct-98	B-34	cis-1,2-DCE	61		80		0.8
TV-F&S 2000a	Jan-99	TB-2	cis-1,2-DCE	60		80		0.8
TV-F&S 2000a	Nov-98	B-26	cis-1,2-DCE	57		80		0.7
TV-F&S 2000a	Jul-99	B-62	cis-1,2-DCE	57		80		0.7
TV-F&S 2000a	Jan-99	TB-1	cis-1,2-DCE	54		80		0.7
TV-F&S 2000a	Jul-99	B-62 (DUP)	cis-1,2-DCE	54		80		0.7
TV-F&S 2000a	Oct-98	B-36	cis-1,2-DCE	49		80		0.6
TV-F&S 2000a	Oct-98	B-36 (DUP)	cis-1,2-DCE	48		80		0.6
TV-F&S 2000a	Nov-98	B-9	cis-1,2-DCE	45		80		0.6
TV-F&S 2000a	Jan-99	TB-3	cis-1,2-DCE	41		80		0.5
TV-F&S 2000a	Oct-99	B-53	cis-1,2-DCE	41		80		0.5
TV-F&S 2000a	Oct-99	B-26	cis-1,2-DCE	41		80		0.5
TV-F&S 2000a	Oct-98	B-19	cis-1,2-DCE	37		80		0.5
TV-F&S 2000a	Oct-99	B-9	cis-1,2-DCE	35		80		0.4
TV-F&S 2000a	Oct-98	B-35	cis-1,2-DCE	33		80		0.4
TV-F&S 2000a	Jan-99	TB-4	cis-1,2-DCE	28		80		0.4
TV-F&S 2000a	Apr-99	B-56	cis-1,2-DCE	26		80		0.3
TV-F&S 2000a	Oct-99	B-19	cis-1,2-DCE	25		80		0.3
TV-F&S 2000a	Oct-99	B-57	cis-1,2-DCE	25		80		0.3
TV-F&S 2000a	Feb-99	B-56	cis-1,2-DCE	23		80		0.3

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Apr-99	B-55	cis-1,2-DCE	22		80		0.3
TV-F&S 2000a	Oct-99	B-38	cis-1,2-DCE	21		80		0.3
TV-F&S 2000a	Feb-99	B-53	cis-1,2-DCE	20		80		0.3
TV-F&S 2000a	Apr-99	B-57	cis-1,2-DCE	20		80		0.3
TV-F&S 2000a	Apr-99	B-53	cis-1,2-DCE	19		80		0.2
TV-F&S 2000a	Feb-99	B-55	cis-1,2-DCE	18		80		0.2
TV-F&S 2000a	Oct-99	B-55	cis-1,2-DCE	14	J	80		0.2
TV-F&S 2000a	Feb-99	B-57	cis-1,2-DCE	12		80		0.2
TV-F&S 2000a	Oct-99	B-56	cis-1,2-DCE	12		80		0.2
TV-F&S 2000a	Oct-99	B-34	cis-1,2-DCE	7.6		80		0.1
TV-F&S 2000a	Oct-99	B-64	cis-1,2-DCE	6.8		80		0.1
TV-F&S 2000a	Oct-99	B-28	cis-1,2-DCE	6.5		80		0.1
Hart Crowser 1990b	1990	B-10	cis-1,2-DCE	6.3		80		0.1
TV-F&S 2000a	Oct-99	B-17	cis-1,2-DCE	4.6		80		0.1
TV-F&S 2000a	Oct-99	B-23	cis-1,2-DCE	4		80		0.1
TV-F&S 2000a	Oct-99	B-14	cis-1,2-DCE	3.8		80		0.0
TV-F&S 2000a	Dec-98	B-23	cis-1,2-DCE	3.49		80		0.0
TV-F&S 2000a	Oct-99	B-6	cis-1,2-DCE	2.8		80		0.0
TV-F&S 2000a	Oct-99	B-27	cis-1,2-DCE	1.2		80		0.0
Hart Crowser 1990b	1990	B-8	cis-1,2-DCE	0.490		80		0.0
Hart Crowser 1990b	1990	B-14	cis-1,2-DCE	0.44		80		0.0
Hart Crowser 1990b	1990	B-9	cis-1,2-DCE	0.048		80		0.0
Hart Crowser 1990b	1990	B-5	cis-1,2-DCE	0.019		80		0.0
Hart Crowser 1990b	1990	B-6	cis-1,2-DCE	0.018		80		0.0
Hart Crowser 1992b	May-92	B-15	Copper (dissolved)	15		590	120	0.1
Hart Crowser 1992b	May-92	B-17	Copper (dissolved)	15		590	120	0.1
Hart Crowser 1992b	May-92	B-24	Copper (dissolved)	13		590	120	0.1
Hart Crowser 1992b	May-92	B-11	Copper (dissolved)	11		590	120	0.1
Hart Crowser 1992b	May-92	B-26	Copper (dissolved)	10		590	120	0.1
Hart Crowser 1992b	May-92	B-25	Copper (dissolved)	8.7		590	120	0.1
Hart Crowser 1992b	May-92	B-72	Copper (dissolved)	8.2		590	120	0.1
Hart Crowser 1992b	May-92	B-27	Copper (dissolved)	8.1		590	120	0.1
Hart Crowser 1992b	May-92	B-19	Copper (dissolved)	7.4		590	120	0.1
Hart Crowser 1992b	May-92	B-30	Copper (dissolved)	5.7		590	120	0.0

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-18	Copper (dissolved)	5.4		590	120	0.0
Hart Crowser 1992b	May-92	B-15	Copper (total)	1,100		590	120	9.2
Hart Crowser 1992b	May-92	B-31	Copper (total)	290		590	120	2.4
Hart Crowser 1992b	May-92	B-22	Copper (total)	130		590	120	1.1
Hart Crowser 1992b	May-92	B-24	Copper (total)	130		590	120	1.1
Hart Crowser 1992b	May-92	B-11	Copper (total)	120		590	120	1.0
Hart Crowser 1992b	May-92	B-23	Copper (total)	120		590	120	1.0
Hart Crowser 1992b	May-92	B-14	Copper (total)	97		590	120	0.8
Hart Crowser 1992b	May-92	B-26	Copper (total)	87		590	120	0.7
Hart Crowser 1992b	May-92	B-16	Copper (total)	65		590	120	0.5
Hart Crowser 1992b	May-92	B-18	Copper (total)	42		590	120	0.4
Hart Crowser 1992b	May-92	B-29	Copper (total)	42		590	120	0.4
Hart Crowser 1992b	May-92	B-30	Copper (total)	39		590	120	0.3
Hart Crowser 1992b	May-92	B-1	Copper (total)	23		590	120	0.2
Hart Crowser 1992b	May-92	B-19	Copper (total)	23		590	120	0.2
Hart Crowser 1992b	May-92	B-27	Copper (total)	23		590	120	0.2
Hart Crowser 1992b	May-92	B-72	Copper (total)	22		590	120	0.2
Hart Crowser 1992b	May-92	B-9	Copper (total)	18		590	120	0.2
Hart Crowser 1992b	May-92	B-8	Copper (total)	14		590	120	0.1
Hart Crowser 1992b	May-92	B-17	Copper (total)	12		590	120	0.1
TV-F&S 2001a	Jul-00	B-55	DCE	40				
TV-F&S 2001a	Jul-00	B-57	DCE	25				
TV-F&S 2001a	Jul-00	B-53	DCE	14				
TV-F&S 2001a	Jul-00	B-56	DCE	14				
TV-F&S 2001a	Jul-00	AGI-2	DCE	13				
TV-F&S 2001a	Jul-00	B-28	DCE	10				
TV-F&S 2001a	Jul-00	NW-6	DCE	2				
TV-F&S 2001a	Jul-00	NW-12	DCE	2				
Ecology 1993c	Jul-93	B-49	Dibenzofuran	24	J	32	5.1	4.7
Ecology 1993b	Jun-93	278092	Dibenzofuran	4	J	32	5.1	0.8
TV-F&S 2000a	Nov-98	B-49	Dibenzofuran	2.5		32	5.1	0.5
TV-F&S 2000a	Nov-98	B-46	Dibenzofuran	2.2		32	5.1	0.4
Hart Crowser 1997	Dec-96	B-31	Dibenzofuran	1	J	32	5.1	0.2
Hart Crowser 1992b	**May-92**	**B-31**	**Diesel-Range Hydrocarbons**	**19,000**		**500**		**38**

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	**May-92**	**B-24**	**Diesel-Range Hydrocarbons**	**7,000**		**500**		**14**
Hart Crowser 1992b	May-92	B-10A (DUP)	Diesel-Range Hydrocarbons	4,000		500		8.0
TV-F&S 2001a	Jul-00	AGI-2	Diesel-Range Hydrocarbons	3,400		500		6.8
Hart Crowser 1992b	May-92	B-10A	Diesel-Range Hydrocarbons	2,000		500		4.0
Hart Crowser 1992b	May-92	B-29	Diesel-Range Hydrocarbons	2,000		500		4.0
Hart Crowser 1992b	May-92	B-11	Diesel-Range Hydrocarbons	1,000		500		2.0
TV-F&S 2001a	Jul-00	NW-6	Diesel-Range Hydrocarbons	660		500		1.3
Hart Crowser 1992b	May-92	B-10A	Diethylene Glycol	3,700	J	32,000		0.1
Hart Crowser 1992b	May-92	B-30	Diethylene Glycol	700	J	32,000		0.0
Ecology 1993b	Jun-93	278091	Diethylphthalate	14	J	13,000	870	0.0
Ecology 1993b	Jun-93	278092	Diethylphthalate	9	J	13,000	870	0.0
Ecology 1993c	Jul-93	B-27	Diethylphthalate	9	J	13,000	870	0.0
Ecology 1993c	Jul-93	B-49	Diethylphthalate	6	J	13,000	870	0.0
Hart Crowser 1997	Dec-96	B-31	Diethylphthalate	4	J	13,000	870	0.0
Ecology 1993b	Jun-93	278093	Dimethyl phthalate	15	J	16,000	140	0.1
Ecology 1993c	Jul-93	B-27	Di-n-butyl phthalate	73			1,200	0.1
Ecology 1993b	Jun-93	278094	Di-n-butyl phthalate	18	J		1,200	0.0
Ecology 1993b	Jun-93	278092	Di-n-butyl phthalate	16	J		1,200	0.0
Ecology 1993c	Jul-93	B-48	Di-n-butyl phthalate	3	J		1,200	0.0
Hart Crowser 1997	Dec-96	B-31	Di-n-butyl phthalate	21			1,200	0.0
TV-F&S 2000a	Oct-98	B-33A	Ethane	98				
TV-F&S 2000a	Oct-99	B-26	Ethane	93				
TV-F&S 2000a	Oct-99	B-35	Ethane	26				
TV-F&S 2000a	Oct-98	B-35	Ethane	16				
TV-F&S 2000a	Oct-98	B-36 (DUP)	Ethane	4.9				
TV-F&S 2000a	Oct-98	B-36	Ethane	4.7				
TV-F&S 2000a	Oct-98	B-21	Ethane	3.5				
TV-F&S 2000a	Oct-99	B-45	Ethane	2.1				
TV-F&S 2000a	Oct-98	B-44	Ethane	1.8				
TV-F&S 2000a	Oct-99	B-15	Ethane	1.1				
TV-F&S 2000a	Oct-98	B-20	Ethane	1				
TV-F&S 2000a	Oct-98	B-8	Ethane	0.71				
Hart Crowser 1992b	May-92	B-30	Ethanol	9,800				
Hart Crowser 1992b	May-92	B-16	Ethanol	2,300				

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-98	B-35	Ethene	3,500				
TV-F&S 2000a	Oct-98	B-44	Ethene	1,800				
TV-F&S 2000a	Oct-98	B-20	Ethene	1,700				
TV-F&S 2000a	Oct-98	B-21	Ethene	750				
TV-F&S 2000a	Oct-98	B-33A	Ethene	480				
TV-F&S 2000a	Oct-99	B-46	Ethene	266				
TV-F&S 2000a	Oct-99	B-47	Ethene	246				
TV-F&S 2000a	Oct-99	B-49	Ethene	230				
TV-F&S 2000a	Oct-99	B-42	Ethene	131				
TV-F&S 2000a	Oct-99	B-33A	Ethene	83				
TV-F&S 2000a	Oct-99	B-35	Ethene	77				
TV-F&S 2000a	Oct-98	B-36 (DUP)	Ethene	57				
TV-F&S 2000a	Oct-98	B-36	Ethene	54				
TV-F&S 2000a	Oct-99	B-61	Ethene	45				
TV-F&S 2000a	Oct-99	B-63	Ethene	26.6				
TV-F&S 2000a	Oct-99	B-44	Ethene	9.9				
TV-F&S 2000a	Oct-99	B-58	Ethene	6.6				
TV-F&S 2000a	Oct-99	B-27	Ethene	6				
TV-F&S 2000a	Oct-99	B-21	Ethene	4				
TV-F&S 2000a	Oct-99	B-45	Ethene	2.1				
TV-F&S 2000a	Oct-99	B-65	Ethene	1.8				
TV-F&S 2000a	Oct-99	B-59	Ethene	1.4				
TV-F&S 2000a	Oct-99	B-36	Ethene	1.3				
TV-F&S 2000a	Oct-99	B-64	Ethene	0.83				
TV-F&S 2000a	Oct-99	B-62	Ethene	0.75				
TV-F&S 2000a	Nov-98	B-49	Ethylbenzene	2,200		700		3.1
Ecology 1993c	Jul-93	B-27	Ethylbenzene	2,000	J	700		2.9
TV-F&S 2000a	Nov-98	B-42	Ethylbenzene	1,800		700		2.6
Hart Crowser 1997	Dec-96	B-10A	Ethylbenzene	1,700		700		2.4
TV-F&S 2000a	Oct-99	B-47	Ethylbenzene	1,700		700		2.4
TV-F&S 2000a	Oct-99	B-47 (DUP)	Ethylbenzene	1,700		700		2.4
Ecology 1993b	Jun-93	278091	Ethylbenzene	1,500		700		2.1
Ecology 1993b	Jun-93	278092	Ethylbenzene	1,400		700		2.0
TV-F&S 2000a	Oct-98	B-21	Ethylbenzene	1,400		700		2.0

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-98	B-44	Ethylbenzene	1,300		700		1.9
Hart Crowser 1992b	May-92	B-30	Ethylbenzene	1,200		700		1.7
TV-F&S 2000a	Nov-98	B-12	Ethylbenzene	1,100		700		1.6
Hart Crowser 1992b	May-92	B-16	Ethylbenzene	1,100		700		1.6
TV-F&S 2000a	Nov-98	B-39	Ethylbenzene	1,000		700		1.4
TV-F&S 2000a	Oct-99	B-42	Ethylbenzene	1,000		700		1.4
ATI 1991b	Sep-91	B-16	Ethylbenzene	970		700		1.4
Hart Crowser 1992b	May-92	B-10A	Ethylbenzene	940		700		1.3
Ecology 1993c	Jul-93	B-49	Ethylbenzene	910	J	700		1.3
Hart Crowser 1997	Dec-96	B-21	Ethylbenzene	900		700		1.3
Hart Crowser 1992b	May-92	B-21	Ethylbenzene	800		700		1.1
Hart Crowser 1997	Dec-96	B-31	Ethylbenzene	790		700		1.1
TV-F&S 2000a	Oct-98	B-20	Ethylbenzene	740		700		1.1
Hart Crowser 1997	Dec-96	B-44	Ethylbenzene	700		700		1.0
Hart Crowser 1992b	May-92	B-29	Ethylbenzene	650		700		0.9
TV-F&S 2000a	Nov-98	B-46 BAL	Ethylbenzene	540		700		0.8
Hart Crowser 1997	Dec-96	B-39	Ethylbenzene	450		700		0.6
TV-F&S 2000a	Oct-99	B-21	Ethylbenzene	440		700		0.6
TV-F&S 2000a	Oct-98	B-35	Ethylbenzene	410		700		0.6
Hart Crowser 1992b	May-92	B-15	Ethylbenzene	380		700		0.5
TV-F&S 2000a	Nov-98	B-46	Ethylbenzene	370		700		0.5
TV-F&S 2000a	Oct-99	B-10A	Ethylbenzene	340		700		0.5
TV-F&S 2000a	Oct-99	B-44	Ethylbenzene	330		700		0.5
TV-F&S 2000a	Nov-98	B-52	Ethylbenzene	310		700		0.4
TV-F&S 2000a	Nov-98	B-52 (DUP)	Ethylbenzene	240		700		0.3
Hart Crowser 1997	Dec-96	B-20	Ethylbenzene	210		700		0.3
Hart Crowser 1997	Dec-96	B-35	Ethylbenzene	190		700		0.3
TV-F&S 2000a	Oct-99	B-35	Ethylbenzene	190		700		0.3
Hart Crowser 1997	Dec-96	B-8	Ethylbenzene	170		700		0.2
TV-F&S 2000a	Oct-99	B-52	Ethylbenzene	140		700		0.2
Hart Crowser 1997	Dec-96	B-45	Ethylbenzene	130		700		0.2
TV-F&S 2000a	Nov-98	B-45 BAL	Ethylbenzene	120		700		0.2
TV-F&S 2000a	Jul-99	B-65	Ethylbenzene	84		700		0.1
Ecology 1993b	Jun-93	278093	Ethylbenzene	79		700		0.1

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-20	Ethylbenzene	68		700		0.1
TV-F&S 2000a	Oct-98	B-8	Ethylbenzene	47		700		0.1
TV-F&S 2000a	Jul-99	B-63 (DUP)	Ethylbenzene	30		700		0.0
TV-F&S 2000a	Jul-99	B-63	Ethylbenzene	30		700		0.0
TV-F&S 2000a	Oct-99	B-38	Ethylbenzene	21		700		0.0
Hart Crowser 1992b	May-92	B-6	Ethylbenzene	18		700		0.0
Hart Crowser 1997	Dec-96	B-33A	Ethylbenzene	16	J	700		0.0
Hart Crowser 1992b	May-92	B-27	Ethylbenzene	12		700		0.0
TV-F&S 2000a	Jul-99	B-58	Ethylbenzene	11		700		0.0
Hart Crowser 1992b	May-92	B-9	Ethylbenzene	8		700		0.0
Hart Crowser 1992b	May-92	B-17	Ethylbenzene	7		700		0.0
Hart Crowser 1992b	May-92	B-25	Ethylbenzene	7		700		0.0
Hart Crowser 1992b	May-92	B-19	Ethylbenzene	6		700		0.0
Hart Crowser 1992b	May-92	B-72	Ethylbenzene	6		700		0.0
Hart Crowser 1990b	1990	B-7	Ethylbenzene	4.5		700		0.0
Hart Crowser 1992b	May-92	B-23	Ethylbenzene	4		700		0.0
Hart Crowser 1992b	May-92	B-23 (DUP)	Ethylbenzene	3		700		0.0
Hart Crowser 1992b	May-92	B-24	Ethylbenzene	3		700		0.0
TV-F&S 2000a	Oct-98	B-36	Ethylbenzene	2.8		700		0.0
TV-F&S 2000a	Oct-98	B-36 (DUP)	Ethylbenzene	2.6		700		0.0
ATI 1991b	Sep-91	B-17	Ethylbenzene	2		700		0.0
Hart Crowser 1997	Dec-96	B-24	Ethylbenzene	2		700		0.0
Hart Crowser 1990b	1990	B-8	Ethylbenzene	1.8		700		0.0
Hart Crowser 1990b	1990	B-10	Ethylbenzene	0.83		700		0.0
Hart Crowser 1990b	1990	B-12	Ethylbenzene	0.39		700		0.0
Hart Crowser 1990b	1990	B-8	Ethylbenzene	0.160		700		0.0
Hart Crowser 1990b	1990	B-11	Ethylbenzene	0.065		700		0.0
Hart Crowser 1990b	1990	B-1	Ethylbenzene	0.006		700		0.0
Hart Crowser 1990b	1990	B-8	Ethylbenzene	0.004		700		0.0
Hart Crowser 1992b	May-92	B-15	Ethylene Glycol	22,000		16,000		1.4
Hart Crowser 1992b	May-92	B-30	Ethylene Glycol	6,700		16,000		0.4
Hart Crowser 1992b	May-92	B-31	Ethylene Glycol	3,900	J	16,000		0.2
Hart Crowser 1992b	May-92	B-10A	Ethylene Glycol	3,500	J	16,000		0.2
Hart Crowser 1992b	May-92	B-21	Ethylene Glycol	2,200	J	16,000		0.1

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-6	Ethylene Glycol	1,000	J	16,000		0.1
Hart Crowser 1992b	May-92	B-11	Ethylene Glycol	900	J	16,000		0.1
Hart Crowser 1992b	May-92	B-25	Ethylene Glycol	700	J	16,000		0.0
Hart Crowser 1992b	May-92	B-72	Ethylene Glycol	600	J	16,000		0.0
Hart Crowser 1992b	May-92	B-19	Ethylene Glycol	500	J	16,000		0.0
Ecology 1993b	Jun-93	278092	Fluoranthene	9	J	640	17	0.5
Ecology 1993c	Jul-93	B-49	Fluoranthene	5	J	640	17	0.3
Ecology 1993c	Jul-93	B-49	Fluorene	32	J	640	7.0	4.6
Ecology 1993b	Jun-93	278092	Fluorene	6	J	640	7.0	0.9
TV-F&S 2000a	Nov-98	B-49	Fluorene	3.2		640	7.0	0.5
TV-F&S 2000a	Nov-98	B-46	Fluorene	2.8		640	7.0	0.4
TV-F&S 2000a	Nov-98	B-12	Fluorene	1.3		640	7.0	0.2
TV-F&S 2000a	Nov-98	B-52	Fluorene	1.1		640	7.0	0.2
TV-F&S 2000a	Nov-98	B-52 (DUP)	Fluorene	1.1		640	7.0	0.2
Hart Crowser 1997	Dec-96	B-31	Fluorene	1	J	640	7.0	0.1
TV-F&S 2000a	Nov-99	B-12	Fluorene	0.51		640	7.0	0.1
Hart Crowser 1992b	**May-92**	**B-30**	**Gasoline-Range Hydrocarbons**	**120,000**		**800**		**150**
Hart Crowser 1992b	**May-92**	**B-31**	**Gasoline-Range Hydrocarbons**	**90,000**		**800**		**113**
Hart Crowser 1992b	**May-92**	**B-15**	**Gasoline-Range Hydrocarbons**	**64,000**		**800**		**80**
Hart Crowser 1992b	**May-92**	**B-11**	**Gasoline-Range Hydrocarbons**	**48,000**		**800**		**60**
Hart Crowser 1992b	**May-92**	**B-10A**	**Gasoline-Range Hydrocarbons**	**15,000**		**800**		**19**
Hart Crowser 1992b	**May-92**	**B-10A (DUP)**	**Gasoline-Range Hydrocarbons**	**9,000**		**800**		**11**
Hart Crowser 1992b	**May-92**	**B-29**	**Gasoline-Range Hydrocarbons**	**9,000**		**800**		**11**
Hart Crowser 1992b	**May-92**	**B-13**	**Gasoline-Range Hydrocarbons**	**8,000**		**800**		**10**
Hart Crowser 1992b	**May-92**	**B-21**	**Gasoline-Range Hydrocarbons**	**8,000**		**800**		**10**
Hart Crowser 1992b	May-92	B-16	Gasoline-Range Hydrocarbons	7,000		800		8.8
Hart Crowser 1992b	May-92	B-8	Gasoline-Range Hydrocarbons	3,000		800		3.8
TV-F&S 2001a	Jul-00	B-54	Gasoline-Range Hydrocarbons	1,600		800		2.0
TV-F&S 2001a	Jul-00	B-13	Gasoline-Range Hydrocarbons	1,500		800		1.9
Hart Crowser 1992b	May-92	B-20	Gasoline-Range Hydrocarbons	1,000		800		1.3
TV-F&S 2001a	Jul-00	B-56	Gasoline-Range Hydrocarbons	550		800		0.7
TV-F&S 2001a	Jul-00	B-55	Gasoline-Range Hydrocarbons	500		800		0.6
TV-F&S 2001a	Jul-00	B-57	Gasoline-Range Hydrocarbons	460		800		0.6
TV-F&S 2001a	Jul-00	B-53	Gasoline-Range Hydrocarbons	420		800		0.5

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2001a	Jul-00	AGI-2	Gasoline-Range Hydrocarbons	180		800		0.2
TV-F&S 2000a	Oct-99	B-47	Iron	92,000				
TV-F&S 2000a	Oct-99	B-42	Iron	79,000				
TV-F&S 2000a	Nov-99	B-31	Iron	46,000				
TV-F&S 2000a	Oct-99	B-26	Iron	45,000				
TV-F&S 2000a	Oct-99	B-33A	Iron	42,000				
TV-F&S 2000a	Oct-99	B-35	Iron	37,000				
TV-F&S 2000a	Nov-99	B-12	Iron	37,000				
TV-F&S 2000a	Oct-99	B-46	Iron	34,000				
TV-F&S 2000a	Oct-99	B-49	Iron	31,000				
TV-F&S 2000a	Oct-99	B-21	Iron	27,000				
TV-F&S 2000a	Oct-99	B-44	Iron	26,000				
TV-F&S 2000a	Oct-99	B-45	Iron	21,000				
TV-F&S 2000a	Oct-99	B-8	Iron	20,000				
TV-F&S 2000a	Nov-99	B-11	Iron	18,000				
TV-F&S 2000a	Oct-99	B-63	Iron	16,000				
TV-F&S 2000a	Oct-99	B-61	Iron	15,000				
TV-F&S 2000a	Oct-99	B-58	Iron	14,000				
TV-F&S 2000a	Oct-99	B-36	Iron	13,000				
TV-F&S 2000a	Oct-99	B-23	Iron	11,000				
TV-F&S 2000a	Oct-99	B-59	Iron	6,700				
TV-F&S 2000a	Oct-99	B-6	Iron	5,800				
TV-F&S 2000a	Oct-99	B-15	Iron	5,200				
TV-F&S 2000a	Oct-99	B-65	Iron	4,900				
TV-F&S 2000a	Oct-99	B-17	Iron	2,800				
TV-F&S 2000a	Oct-99	B-16	Iron	2,200				
TV-F&S 2000a	Oct-99	B-24	Iron	1,900				
TV-F&S 2000a	Oct-99	B-27	Iron	1,900				
TV-F&S 2000a	Oct-99	B-25	Iron	800				
TV-F&S 2000a	Oct-99	B-34	Iron	590				
TV-F&S 2000a	Oct-99	B-64	Iron	390				
TV-F&S 2000a	Oct-99	B-62	Iron	340				
TV-F&S 2000a	Oct-99	B-20A	Iron	290				
TV-F&S 2000a	Oct-99	B-60	Iron	270				

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-28	Iron	110				
Hart Crowser 1992b	May-92	B-1	Iron (dissolved)	50,000				
Hart Crowser 1992b	May-92	B-11	Iron (dissolved)	1,300				
Hart Crowser 1992b	May-92	B-27	Iron (dissolved)	1,200				
Hart Crowser 1992b	May-92	B-17	Iron (dissolved)	820				
Hart Crowser 1992b	May-92	B-1	Iron (total)	57,000				
Hart Crowser 1992b	May-92	B-11	Iron (total)	38,000				
Hart Crowser 1992b	May-92	B-27	Iron (total)	3,300				
Hart Crowser 1992b	May-92	B-17	Iron (total)	2,000				
TV-F&S 2000a	Oct-99	B-38	Isophorone	2.5		46		0.1
TV-F&S 2000a	Oct-99	B-38	iso-Propyl benzene	56				
TV-F&S 2000a	Oct-99	B-38	iso-Propyl benzene	34				
TV-F&S 2000a	Nov-98	B-52	iso-Propyl benzene	11				
TV-F&S 2000a	Oct-98	B-8	iso-Propyl benzene	5.3				
TV-F&S 2000a	Oct-99	B-49	iso-Propyl toluene	7,300				
TV-F&S 2000a	Nov-98	B-52	iso-Propyl toluene	8.5				
Hart Crowser 1992b	May-92	B-29	Lead (dissolved)	5.3		15	13	0.4
Hart Crowser 1992b	May-92	B-6	Lead (dissolved)	3.7		15	13	0.3
Hart Crowser 1992b	May-92	B-28	Lead (dissolved)	3		15	13	0.2
Hart Crowser 1992b	**May-92**	**B-15**	**Lead (total)**	**140**		**15**	**13**	**11**
Hart Crowser 1992b	May-92	B-24	Lead (total)	33		15	13	2.5
Hart Crowser 1992b	May-92	B-31	Lead (total)	33		15	13	2.5
Hart Crowser 1992b	May-92	B-14	Lead (total)	27		15	13	2.1
Hart Crowser 1992b	May-92	B-11	Lead (total)	26		15	13	2.0
Hart Crowser 1992b	May-92	B-23	Lead (total)	25		15	13	1.9
Hart Crowser 1992b	May-92	B-22	Lead (total)	24		15	13	1.8
Hart Crowser 1992b	May-92	B-16	Lead (total)	21		15	13	1.6
Hart Crowser 1992b	May-92	B-26	Lead (total)	18		15	13	1.4
Hart Crowser 1992b	May-92	B-30	Lead (total)	12		15	13	0.9
Hart Crowser 1992b	May-92	B-27	Lead (total)	11		15	13	0.8
Hart Crowser 1992b	May-92	B-18	Lead (total)	10		15	13	0.8
Hart Crowser 1992b	May-92	B-10A	Lead (total)	7.9		15	13	0.6
Hart Crowser 1992b	May-92	B-29	Lead (total)	7.5		15	13	0.6
Hart Crowser 1992b	May-92	B-20	Lead (total)	7		15	13	0.5

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-1	Lead (total)	6.8		15	13	0.5
Hart Crowser 1992b	May-92	B-6	Lead (total)	6		15	13	0.5
Hart Crowser 1992b	May-92	B-9	Lead (total)	4.7		15	13	0.4
Hart Crowser 1992b	May-92	B-17	Lead (total)	4.2		15	13	0.3
Hart Crowser 1992b	May-92	B-8	Lead (total)	3.7		15	13	0.3
Hart Crowser 1992b	May-92	B-21	Lead (total)	3		15	13	0.2
Hart Crowser 1992b	May-92	B-25	Lead (total)	3		15	13	0.2
Hart Crowser 1992b	May-92	B-72	Lead (total)	3		15	13	0.2
Hart Crowser 1992b	May-92	B-1	Manganese (dissolved)	810		2,200		0.4
Hart Crowser 1992b	May-92	B-11	Manganese (dissolved)	340		2,200		0.2
Hart Crowser 1992b	May-92	B-27	Manganese (dissolved)	190		2,200		0.1
Hart Crowser 1992b	May-92	B-17	Manganese (dissolved)	89		2,200		0.0
Hart Crowser 1992b	May-92	B-1	Manganese (total)	930		2,200		0.4
Hart Crowser 1992b	May-92	B-11	Manganese (total)	830		2,200		0.4
Hart Crowser 1992b	May-92	B-17	Manganese (total)	730		2,200		0.3
Hart Crowser 1992b	May-92	B-27	Manganese (total)	140		2,200		0.1
Hart Crowser 1992b	**May-92**	**B-15**	**Mercury (total)**	**6.2**		**2**	**0.0074**	**838**
Hart Crowser 1992b	**May-92**	**B-16**	**Mercury (total)**	**1.2**		**2**	**0.0074**	**162**
Hart Crowser 1992b	**May-92**	**B-31**	**Mercury (total)**	**0.5**		**2**	**0.0074**	**68**
Hart Crowser 1992b	**May-92**	**B-22**	**Mercury (total)**	**0.22**		**2**	**0.0074**	**30**
Hart Crowser 1992b	**May-92**	**B-23**	**Mercury (total)**	**0.22**		**2**	**0.0074**	**30**
TV-F&S 2000a	Oct-98	B-20	Methane	5,000				
TV-F&S 2000a	Oct-98	B-33A	Methane	4,000				
TV-F&S 2000a	Oct-98	B-44	Methane	1,700				
TV-F&S 2000a	Oct-98	B-35	Methane	1,600				
TV-F&S 2000a	Oct-98	B-20	Methane	1,300				
TV-F&S 2000a	Oct-98	B-19	Methane	670				
TV-F&S 2000a	Oct-99	B-27	Methane	625				
TV-F&S 2000a	Oct-99	B-26	Methane	460				
TV-F&S 2000a	Oct-98	B-24	Methane	420				
TV-F&S 2000a	Oct-98	B-21	Methane	400				
TV-F&S 2000a	Oct-99	B-61	Methane	360				
TV-F&S 2000a	Oct-98	B-36 (DUP)	Methane	340				
TV-F&S 2000a	Oct-98	B-36	Methane	310				

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-47	Methane	307				
TV-F&S 2000a	Oct-99	B-42	Methane	197				
TV-F&S 2000a	Oct-99	B-49	Methane	158				
TV-F&S 2000a	Oct-99	B-59	Methane	156				
TV-F&S 2000a	Oct-99	B-58	Methane	120				
TV-F&S 2000a	Oct-99	B-46	Methane	106				
TV-F&S 2000a	Oct-99	B-25	Methane	80				
TV-F&S 2000a	Oct-99	B-17	Methane	78				
TV-F&S 2000a	Oct-98	B-8	Methane	74				
TV-F&S 2000a	Oct-99	B-8	Methane	61				
TV-F&S 2000a	Oct-99	B-33A	Methane	58				
TV-F&S 2000a	Oct-99	B-65	Methane	40				
TV-F&S 2000a	Oct-99	B-35	Methane	34				
TV-F&S 2000a	Oct-99	B-63	Methane	24.9				
TV-F&S 2000a	Oct-99	B-21	Methane	15.1				
TV-F&S 2000a	Oct-99	B-6	Methane	13				
TV-F&S 2000a	Oct-99	B-44	Methane	12				
TV-F&S 2000a	Oct-99	B-45	Methane	9.8				
TV-F&S 2000a	Oct-99	B-60	Methane	7.4				
TV-F&S 2000a	Oct-99	B-23	Methane	4.2				
TV-F&S 2000a	Oct-99	B-53	Methane	3.9				
TV-F&S 2000a	Oct-98	B-34	Methane	2.4				
TV-F&S 2000a	Oct-99	B-36	Methane	2.2				
TV-F&S 2000a	Oct-99	B-62	Methane	1.96				
TV-F&S 2000a	Oct-99	B-24	Methane	1.8				
TV-F&S 2000a	Oct-99	B-16	Methane	1.4				
TV-F&S 2000a	Oct-99	B-15	Methane	1.4				
TV-F&S 2000a	Nov-99	B-31	Methane	1				
TV-F&S 2000a	Oct-99	B-54	Methane	0.98				
TV-F&S 2000a	Oct-99	B-22	Methane	0.86				
TV-F&S 2000a	Oct-99	B-64	Methane	0.82				
TV-F&S 2000a	Oct-99	B-55	Methane	0.65				
TV-F&S 2000a	Oct-99	B-20A	Methane	0.51				
TV-F&S 2000a	Oct-99	B-13	Methane	0.47	J			

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	**May-92**	**B-30**	**Methanol**	**40,000**		**4,000**		**10**
Hart Crowser 1992b	May-92	B-31	Methanol	8,000		4,000		2.0
Hart Crowser 1992b	May-92	B-11	Methanol	7,900		4,000		2.0
Hart Crowser 1992b	May-92	B-31 (DUP)	Methanol	7,300		4,000		1.8
Hart Crowser 1992b	May-92	B-16	Methanol	4,600		4,000		1.2
Hart Crowser 1993a	**Sep-92**	**B-30**	**Methylene Chloride**	**23,000**		**5**		**4,600**
Hart Crowser 1993a	**Aug-93**	**B-30**	**Methylene Chloride**	**16,000**		**5**		**3,200**
Hart Crowser 1993a	**Sep-92**	**B-31**	**Methylene Chloride**	**15,000**		**5**		**3,000**
Ecology 1993b	**Jun-93**	**278091**	**Methylene Chloride**	**15,000**		**5**		**3,000**
Ecology 1993c	**Jul-93**	**B-27**	**Methylene Chloride**	**15,000**		**5**		**3,000**
Hart Crowser 1993a	**Jul-93**	**B-47 (DUP)**	**Methylene Chloride**	**13,000**		**5**		**2,600**
Hart Crowser 1993a	**Jun-93**	**B-43**	**Methylene Chloride**	**12,000**		**5**		**2,400**
Hart Crowser 1993a	**Jul-93**	**B-47**	**Methylene Chloride**	**12,000**		**5**		**2,400**
Hart Crowser 1992b	**May-92**	**B-30**	**Methylene Chloride**	**12,000**		**5**		**2,400**
Hart Crowser 1993a	**Aug-93**	**B-31**	**Methylene Chloride**	**11,000**		**5**		**2,200**
Hart Crowser 1992b	**May-92**	**B-31**	**Methylene Chloride**	**11,000**	**B**	**5**		**2,200**
Ecology 1993b	**Jun-93**	**278092**	**Methylene Chloride**	**10,000**		**5**		**2,000**
Hart Crowser 1993a	**Jun-93**	**B-44**	**Methylene Chloride**	**9,700**		**5**		**1,940**
Ecology 1993c	**Jul-93**	**B-49**	**Methylene Chloride**	**9,600**		**5**		**1,920**
Hart Crowser 1993a	**Jul-93**	**B-49**	**Methylene Chloride**	**8,400**		**5**		**1,680**
Hart Crowser 1992b	**May-92**	**B-15**	**Methylene Chloride**	**7,500**	**B**	**5**		**1,500**
Hart Crowser 1997	**Oct-95**	**B-31**	**Methylene Chloride**	**6,900**	**J**	**5**		**1,380**
Hart Crowser 1993a	**Sep-92**	**B-15**	**Methylene Chloride**	**6,700**		**5**		**1,340**
Hart Crowser 1993a	**Aug-93**	**B-51**	**Methylene Chloride**	**3,800**		**5**		**760**
Hart Crowser 1997	**Oct-95**	**B-21**	**Methylene Chloride**	**2,000**	**JB**	**5**		**400**
Hart Crowser 1993a	**Aug-93**	**B-15**	**Methylene Chloride**	**1,500**		**5**		**300**
Ecology 1993b	**Jun-93**	**278094**	**Methylene Chloride**	**1,400**	**J**	**5**		**280**
Ecology 1993b	**Jun-93**	**278094 (DUP)**	**Methylene Chloride**	**1,400**	**J**	**5**		**280**
Hart Crowser 1997	**Dec-96**	**B-44**	**Methylene Chloride**	**1,400**		**5**		**280**
Hart Crowser 1993a	**Jun-93**	**B-46**	**Methylene Chloride**	**1,300**		**5**		**260**
Ecology 1993c	**Jul-93**	**B-48**	**Methylene Chloride**	**1,200**	**J**	**5**		**240**
Ecology 1993c	**Jul-93**	**B-48 (DUP)**	**Methylene Chloride**	**1,200**	**J**	**5**		**240**
TV-F&S 2000a	**Oct-99**	**B-33A (DUP)**	**Methylene Chloride**	**1,200**		**5**		**240**
Hart Crowser 1997	**Oct-95**	**B-44**	**Methylene Chloride**	**1,100**	**B**	**5**		**220**

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	**Jul-93**	**B-48**	**Methylene Chloride**	**880**		**5**		**176**
Hart Crowser 1997	**Dec-96**	**B-39**	**Methylene Chloride**	**710**		**5**		**142**
TV-F&S 2000a	**Oct-99**	**B-58 (DUP)**	**Methylene Chloride**	**690**		**5**		**138**
Hart Crowser 1992b	**May-92**	**B-29**	**Methylene Chloride**	**270**	**JB**	**5**		**54**
Hart Crowser 1992b	**May-92**	**B-8**	**Methylene Chloride**	**210**	**JB**	**5**		**42**
Hart Crowser 1992b	**May-92**	**B-10A**	**Methylene Chloride**	**140**	**JB**	**5**		**28**
TV-F&S 2000a	**Oct-99**	**B-20A**	**Methylene Chloride**	**120**		**5**		**24**
Hart Crowser 1993a	**Aug-93**	**B-20**	**Methylene Chloride**	**92**		**5**		**18**
Hart Crowser 1997	**Oct-95**	**B-9**	**Methylene Chloride**	**62**	**JB**	**5**		**12**
Hart Crowser 1992b	**May-92**	**B-20**	**Methylene Chloride**	**59**	**B**	**5**		**12**
Hart Crowser 1997	**Oct-95**	**B-33A**	**Methylene Chloride**	**57**	**JB**	**5**		**11**
Hart Crowser 1997	**Oct-95**	**B-8**	**Methylene Chloride**	**55**	**JB**	**5**		**11**
Hart Crowser 1997	**Oct-95**	**B-10A**	**Methylene Chloride**	**54**	**JB**	**5**		**11**
TV-F&S 2000a	**Oct-99**	**B-59**	**Methylene Chloride**	**53**		**5**		**11**
Hart Crowser 1997	Oct-95	B-20	Methylene Chloride	44	JB	5		8.8
Hart Crowser 1990b	1990	B-8	Methylene Chloride	43		5		8.6
Hart Crowser 1997	Oct-95	B-45	Methylene Chloride	40	JB	5		8.0
Hart Crowser 1992b	May-92	B-18	Methylene Chloride	27	JB	5		5.4
Hart Crowser 1992b	May-92	B-1	Methylene Chloride	26	JB	5		5.2
TV-F&S 2000a	Oct-99	B-36	Methylene Chloride	20		5		4.0
Hart Crowser 1992b	May-92	B-9	Methylene Chloride	14	JB	5		2.8
TV-F&S 2000a	Oct-99	B-25	Methylene Chloride	7.8		5		1.6
TV-F&S 2000a	Oct-99	B-28	Methylene Chloride	7.2		5		1.4
ATI 1991b	Sep-91	B-16	Methylene Chloride	7	B	5		1.4
ATI 1991b	Sep-91	B-17	Methylene Chloride	6	B	5		1.2
TV-F&S 2000a	Nov-98	B-52	Methylene Chloride	5.3		5		1.1
Hart Crowser 1992b	May-92	B-24	Methylene Chloride	4	JB	5		0.8
Hart Crowser 1997	Oct-95	B-35	Methylene Chloride	3	JB	5		0.6
Hart Crowser 1992b	May-92	B-19	Methylene Chloride	3	JB	5		0.6
Hart Crowser 1992b	May-92	B-25	Methylene Chloride	3	JB	5		0.6
Ecology 1993b	Jun-93	278093	Methylene Chloride	2	J	5		0.4
Hart Crowser 1990a	May-89	B-1	Methylene Chloride	0.013		5		0.0
Ecology 1993c	Jul-93	B-49	Naphthalene	430		160	92	4.7
Hart Crowser 1992b	May-92	B-10A	Naphthalene	160		160	92	1.7

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-38	Naphthalene	120		160	92	1.3
TV-F&S 2000a	Oct-98	B-20	Naphthalene	71		160	92	0.8
TV-F&S 2000a	Nov-98	B-10A	Naphthalene	43		160	92	0.5
Hart Crowser 1997	Dec-96	B-31	Naphthalene	34		160	92	0.4
Ecology 1993b	Jun-93	278092	Naphthalene	30		160	92	0.3
Ecology 1993c	Jul-93	B-27	Naphthalene	27	J	160	92	0.3
Hart Crowser 1992b	May-92	B-15	Naphthalene	24		160	92	0.3
TV-F&S 2000a	Nov-98	B-49	Naphthalene	23		160	92	0.3
Hart Crowser 1992b	May-92	B-21	Naphthalene	17		160	92	0.2
TV-F&S 2000a	Nov-98	B-12	Naphthalene	16		160	92	0.2
TV-F&S 2000a	Oct-98	B-35	Naphthalene	15	J	160	92	0.2
TV-F&S 2000a	Nov-98	B-42	Naphthalene	13		160	92	0.1
Ecology 1993c	Jul-93	B-50	Naphthalene	12	J	160	92	0.1
TV-F&S 2000a	Nov-98	B-46	Naphthalene	12		160	92	0.1
TV-F&S 2000a	Nov-98	B-39	Naphthalene	11		160	92	0.1
Ecology 1993b	Jun-93	278091	Naphthalene	10	J	160	92	0.1
TV-F&S 2000a	Oct-98	B-44	Naphthalene	10		160	92	0.1
TV-F&S 2000a	Oct-98	B-21	Naphthalene	6.7	J	160	92	0.1
TV-F&S 2000a	Jul-99	B-61	Naphthalene	5.8		160	92	0.1
TV-F&S 2000a	Nov-98	B-52	Naphthalene	4.4		160	92	0.0
TV-F&S 2000a	Nov-98	B-52 (DUP)	Naphthalene	4.3		160	92	0.0
Ecology 1993c	Jul-93	B-48	Naphthalene	4	J	160	92	0.0
Ecology 1993c	Jul-93	B-48 (DUP)	Naphthalene	4	J	160	92	0.0
Hart Crowser 1997	Dec-96	B-8	Naphthalene	3	J	160	92	0.0
TV-F&S 2000a	Nov-98	B-45	Naphthalene	2.6		160	92	0.0
TV-F&S 2000a	Nov-98	B-52	n-Butyl benzene	7				
Hart Crowser 1992b	May-92	B-15	Nickel (dissolved)	13				
Hart Crowser 1992b	May-92	B-15	Nickel (total)	870				
Hart Crowser 1992b	May-92	B-23	Nickel (total)	120				
Hart Crowser 1992b	May-92	B-31	Nickel (total)	89				
Hart Crowser 1992b	May-92	B-22	Nickel (total)	76				
Hart Crowser 1992b	May-92	B-24	Nickel (total)	74				
Hart Crowser 1992b	May-92	B-11	Nickel (total)	69				
Hart Crowser 1992b	May-92	B-16	Nickel (total)	66				

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-30	Nickel (total)	51				
Hart Crowser 1992b	May-92	B-14	Nickel (total)	48				
Hart Crowser 1992b	May-92	B-26	Nickel (total)	45				
Hart Crowser 1992b	May-92	B-19	Nickel (total)	34				
Hart Crowser 1992b	May-92	B-72	Nickel (total)	32				
Hart Crowser 1992b	May-92	B-1	Nickel (total)	30				
Hart Crowser 1992b	May-92	B-18	Nickel (total)	29				
Hart Crowser 1992b	May-92	B-9	Nickel (total)	23				
Hart Crowser 1992b	May-92	B-27	Nickel (total)	21				
Hart Crowser 1992b	May-92	B-29	Nickel (total)	20				
Hart Crowser 1992b	May-92	B-8	Nickel (total)	18				
Hart Crowser 1992b	May-92	B-5 (DUP)	Nickel (total)	16				
Hart Crowser 1992b	May-92	B-25	Nickel (total)	12				
Hart Crowser 1992b	May-92	B-5	Nickel (total)	10				
TV-F&S 2000a	Oct-99	B-16	Nitrate	16,000				
TV-F&S 2000a	Oct-99	B-62	Nitrate	8,400				
TV-F&S 2000a	Oct-99	B-20A	Nitrate	8,100				
TV-F&S 2000a	Oct-99	B-60	Nitrate	5,300				
TV-F&S 2000a	Oct-99	B-13	Nitrate	4,600				
TV-F&S 2000a	Nov-99	B-31	Nitrate	4,600				
TV-F&S 2000a	Oct-99	B-22	Nitrate	3,500				
TV-F&S 2000a	Oct-99	B-15	Nitrate	3,100				
TV-F&S 2000a	Oct-99	B-55	Nitrate	2,500				
TV-F&S 2000a	Oct-99	B-64	Nitrate	2,000				
TV-F&S 2000a	Oct-99	B-44	Nitrate	1,700				
TV-F&S 2000a	Oct-99	B-49	Nitrate	1,600				
TV-F&S 2000a	Oct-99	B-54	Nitrate	1,400				
TV-F&S 2000a	Oct-99	B-28	Nitrate	970				
TV-F&S 2000a	Oct-99	B-47	Nitrate	690				
TV-F&S 2000a	Oct-99	B-34	Nitrate	550	J			
TV-F&S 2000a	Oct-99	B-53	Nitrate	540				
TV-F&S 2000a	Oct-99	B-58	Nitrate	510				
TV-F&S 2000a	Oct-99	B-24	Nitrate	390				
TV-F&S 2000a	Nov-99	B-12	Nitrate	330				

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-36	Nitrate	250				
TV-F&S 2000a	Oct-99	B-42	Nitrate	200				
TV-F&S 2000a	Oct-99	B-46	Nitrate	140	J			
TV-F&S 2000a	Oct-99	B-6	Nitrate	24	J			
TV-F&S 2000a	Oct-99	B-27	Nitrate	24	J			
TV-F&S 2000a	Nov-99	B-11	Nitrate	20	J			
TV-F&S 2000a	Oct-99	B-65	Nitrate	14	J			
TV-F&S 2000a	Oct-99	B-26	Nitrate	8	J			
TV-F&S 2000a	Oct-99	B-34	Nitrite	11,000	J			
TV-F&S 2000a	Oct-99	B-16	Nitrite	670				
TV-F&S 2000a	Oct-99	B-47	Nitrite	230				
TV-F&S 2000a	Oct-99	B-49	Nitrite	220				
TV-F&S 2000a	Oct-99	B-42	Nitrite	190				
TV-F&S 2000a	Nov-99	B-31	Nitrite	190				
TV-F&S 2000a	Oct-99	B-46	Nitrite	160				
TV-F&S 2000a	Oct-99	B-58	Nitrite	150				
TV-F&S 2000a	Nov-99	B-12	Nitrite	150				
TV-F&S 2000a	Nov-99	B-11	Nitrite	110				
TV-F&S 2000a	Oct-99	B-6	Nitrite	48				
TV-F&S 2000a	Oct-99	B-24	Nitrite	26	J			
TV-F&S 2000a	Oct-99	B-28	Nitrite	20	J			
TV-F&S 2000a	Oct-99	B-13	Nitrite	16	J			
TV-F&S 2000a	Jul-99	B-61	n-Nitro-di-n-propylamine	5.4				
TV-F&S 2000a	Oct-98	B-44	n-Nitroso-di-n-propylamine	9.7				
TV-F&S 2000a	Oct-99	B-49	n-Propyl benzene	2,200				
TV-F&S 2000a	Oct-99	B-38	n-Propyl benzene	89				
TV-F&S 2000a	Nov-98	B-52	n-Propyl benzene	13				
TV-F&S 2000a	Oct-98	B-8	n-Propyl benzene	9.8				
Ecology 1993c	**Jul-93**	**B-50**	**PCE**	**160,000**		**5**		**32,000**
Hart Crowser 1997	**Oct-95**	**B-31**	**PCE**	**160,000**	**J**	**5**		**32,000**
Hart Crowser 1993a	**Jun-93**	**B-43**	**PCE**	**140,000**		**5**		**28,000**
Ecology 1993b	**Jun-93**	**278091**	**PCE**	**140,000**		**5**		**28,000**
Hart Crowser 1993a	**Jul-93**	**B-50**	**PCE**	**140,000**		**5**		**28,000**
Hart Crowser 1993a	**Sep-92**	**B-31**	**PCE**	**130,000**		**5**		**26,000**

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Jun-93	B-44	PCE	120,000		5		24,000
Ecology 1993c	Jul-93	B-27	PCE	120,000		5		24,000
Hart Crowser 1993a	Aug-93	B-31	PCE	120,000		5		24,000
Hart Crowser 1993a	Sep-92	B-15	PCE	110,000		5		22,000
Hart Crowser 1993a	Sep-92	B-30	PCE	110,000		5		22,000
Ecology 1993b	Jun-93	278092	PCE	110,000		5		22,000
Hart Crowser 1993a	Jul-93	B-47 (DUP)	PCE	110,000		5		22,000
Ecology 1993c	Jul-93	B-49	PCE	110,000		5		22,000
Hart Crowser 1993a	Aug-93	B-30	PCE	110,000		5		22,000
Hart Crowser 1993a	Jul-93	B-49	PCE	103,000		5		20,600
Hart Crowser 1993a	Jul-93	B-47	PCE	100,000		5		20,000
Hart Crowser 1992b	May-92	B-30	PCE	100,000		5		20,000
Ecology 1993b	Jun-93	278094 (DUP)	PCE	88,000		5		17,600
TV-F&S 2000a	Nov-98	B-49	PCE	85,000		5		17,000
Hart Crowser 1992b	May-92	B-15	PCE	85,000		5		17,000
Hart Crowser 1997	Oct-95	B-44	PCE	81,000	J	5		16,200
Hart Crowser 1993a	Jun-93	B-46	PCE	80,000		5		16,000
Hart Crowser 1992b	May-92	B-11	PCE	80,000		5		16,000
Hart Crowser 1997	Dec-96	B-31	PCE	79,000		5		15,800
Hart Crowser 1992b	May-92	B-31	PCE	76,000		5		15,200
TV-F&S 2000a	Oct-99	B-49	PCE	69,000		5		13,800
Hart Crowser 1997	Dec-96	B-39	PCE	63,000		5		12,600
Ecology 1993b	Jun-93	278094	PCE	62,000		5		12,400
Hart Crowser 1993a	Aug-93	B-51	PCE	58,000		5		11,600
TV-F&S 2000a	Oct-99	B-44	PCE	57,000	J	5		11,400
TV-F&S 2000a	Oct-99	B-47 (DUP)	PCE	56,000		5		11,200
Hart Crowser 1993a	Aug-93	B-15	PCE	55,000		5		11,000
TV-F&S 2000a	Oct-99	B-47	PCE	54,000		5		10,800
Hart Crowser 1997	Dec-96	B-44	PCE	53,000		5		10,600
Hart Crowser 1993a	Aug-93	B-52 (DUP)	PCE	52,000		5		10,400
Hart Crowser 1993a	Aug-93	B-52	PCE	49,000		5		9,800
TV-F&S 2000a	Nov-98	B-12	PCE	47,000		5		9,400
TV-F&S 2000a	Nov-98	B-46	PCE	47,000		5		9,400
TV-F&S 2000a	Nov-98	B-39	PCE	40,000		5		8,000

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

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TV-F&S 2000a	Oct-99	B-39	PCE	40,000	J	5		8,000
TV-F&S 2000a	Nov-98	B-46 BAL	PCE	37,000		5		7,400
TV-F&S 2000a	Nov-98	B-42	PCE	36,000		5		7,200
TV-F&S 2000a	Oct-99	B-42	PCE	36,000		5		7,200
TV-F&S 2000a	Oct-99	B-46	PCE	31,000		5		6,200
Ecology 1993c	Jul-93	B-48	PCE	30,000		5		6,000
Ecology 1993c	Jul-93	B-48 (DUP)	PCE	30,000		5		6,000
Hart Crowser 1993a	Jul-93	B-48	PCE	25,000		5		5,000
Hart Crowser 1997	Oct-95	B-10A	PCE	25,000	J	5		5,000
TV-F&S 2000a	Oct-99	B-15	PCE	20,000		5		4,000
TV-F&S 2000a	Nov-99	B-12	PCE	19,000		5		3,800
TV-F&S 2000a	Jul-99	B-58	PCE	18,000		5		3,600
TV-F&S 2000a	Oct-98	B-44	PCE	14,000		5		2,800
TV-F&S 2000a	Nov-98	B-52	PCE	12,000		5		2,400
TV-F&S 2000a	Oct-99	B-54	PCE	9,800		5		1,960
TV-F&S 2000a	Oct-99	B-60	PCE	9,400		5		1,880
TV-F&S 2000a	Nov-98	B-52 (DUP)	PCE	9,000		5		1,800
Hart Crowser 1993a	Sep-92	B-13	PCE	8,500		5		1,700
Ecology 1993b	Jun-93	278093	PCE	8,000		5		1,600
Hart Crowser 1993a	Sep-92	B-8	PCE	7,600		5		1,520
Hart Crowser 1993a	Aug-93	B-13	PCE	7,300		5		1,460
TV-F&S 2000a	Jul-99	B-13	PCE	7,300		5		1,460
TV-F&S 2000a	Nov-99	B-31	PCE	7,300		5		1,460
Hart Crowser 1992b	May-92	B-13	PCE	6,500		5		1,300
TV-F&S 2000a	Oct-99	B-58	PCE	6,200		5		1,240
TV-F&S 2000a	Jul-99	B-60	PCE	5,600		5		1,120
Hart Crowser 1992b	May-92	B-8	PCE	4,800		5		960
TV-F&S 2000a	Oct-99	B-13	PCE	4,700		5		940
Hart Crowser 1993a	Aug-93	B-8	PCE	4,600		5		920
TV-F&S 2000a	Oct-99	B-58 (DUP)	PCE	4,600		5		920
TV-F&S 2000a	Jan-99	TB-1	PCE	4,300		5		860
TV-F&S 2000a	Feb-99	B-13	PCE	4,300		5		860
TV-F&S 2000a	Apr-99	B-54	PCE	4,100		5		820
TV-F&S 2000a	Nov-98	B-13	PCE	4,000		5		800

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TV-F&S 2000a	Jul-99	TW-5	PCE	3,900		5		780
Hart Crowser 1992b	May-92	B-10A	PCE	3,900		5		780
TV-F&S 2000a	Dec-98	B-13	PCE	3,660		5		732
ATI 1991b	Sep-91	B-16	PCE	3,400		5		680
TV-F&S 2000a	Feb-99	B-54	PCE	3,400		5		680
TV-F&S 2000a	Jul-99	TW-6	PCE	3,300		5		660
TV-F&S 2000a	Oct-99	B-52	PCE	3,300		5		660
TV-F&S 2000a	Oct-98	B-8	PCE	3,100		5		620
TV-F&S 2000a	Oct-99	B-62	PCE	3,000		5		600
TV-F&S 2000a	Nov-99	B-11	PCE	3,000		5		600
TV-F&S 2000a	Jan-99	TB-2	PCE	2,700		5		540
TV-F&S 2000a	Jan-99	TB-4	PCE	2,400		5		480
Hart Crowser 1993a	Jun-93	B-45	PCE	2,300		5		460
Ecology 1993c	Jul-93	B-49	PCE	2,300		5		460
TV-F&S 2000a	Nov-98	B-45 BAL	PCE	2,300		5		460
TV-F&S 2001a	Jul-00	B-13	PCE	2,300	J	5		460
Hart Crowser 1992b	May-92	B-22	PCE	2,300		5		460
TV-F&S 2000a	Jan-99	TB-3	PCE	2,100		5		420
TV-F&S 2000a	Oct-99	B-22	PCE	2,100		5		420
Hart Crowser 1993a	Aug-93	B-20	PCE	2,000		5		400
TV-F&S 2001a	Jul-00	B-54	PCE	2,000	J	5		400
Hart Crowser 1990b	1990	B-12	PCE	1,900		5		380
TV-F&S 2000a	Feb-99	B-22	PCE	1,900		5		380
TV-F&S 2000a	Dec-98	B-22	PCE	1,850		5		370
Hart Crowser 1993a	Jun-93	B-45 (DUP)	PCE	1,700		5		340
Hart Crowser 1997	Oct-95	B-9	PCE	1,700		5		340
TV-F&S 2000a	Feb-99	B-56	PCE	1,700		5		340
Hart Crowser 1997	Dec-96	B-45	PCE	1,600		5		320
TV-F&S 2000a	Apr-99	B-56	PCE	1,600		5		320
Hart Crowser 1997	Oct-95	B-45	PCE	1,500		5		300
TV-F&S 2000a	Oct-99	B-45	PCE	1,400		5		280
Hart Crowser 1993a	Aug-93	B-10A	PCE	1,300		5		260
TV-F&S 2000a	Nov-98	B-45	PCE	1,300		5		260
Hart Crowser 1992b	May-92	B-14	PCE	1,300		5		260

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Feb-99	B-53	PCE	1,200		5		240
Hart Crowser 1997	Dec-96	B-8	PCE	1,100		5		220
TV-F&S 2000a	Feb-99	B-55	PCE	1,100		5		220
TV-F&S 2000a	Oct-99	B-45 (DUP)	PCE	1,000		5		200
Hart Crowser 1997	Dec-96	B-20	PCE	930		5		186
TV-F&S 2000a	Apr-99	B-53	PCE	930		5		186
TV-F&S 2000a	Oct-99	B-20A	PCE	920		5		184
Hart Crowser 1993a	Sep-92	B-10A	PCE	860		5		172
Hart Crowser 1997	Dec-96	B-10A	PCE	850		5		170
TV-F&S 2000a	Apr-99	B-55	PCE	780		5		156
Hart Crowser 1997	Oct-95	B-21	PCE	740		5		148
Hart Crowser 1992b	May-92	B-9	PCE	710		5		142
TV-F&S 2000a	Oct-99	B-53	PCE	620		5		124
Hart Crowser 1992b	May-92	B-20	PCE	540		5		108
TV-F&S 2000a	Jul-99	TW-2	PCE	500		5		100
TV-F&S 2000a	Oct-99	B-57	PCE	490	J	5		98
TV-F&S 2000a	Jul-99	B-62	PCE	470		5		94
TV-F&S 2000a	Oct-99	B-16	PCE	470		5		94
TV-F&S 2000a	Oct-99	B-56	PCE	460	J	5		92
TV-F&S 2000a	Jul-99	TW-1	PCE	430		5		86
TV-F&S 2000a	Jul-99	B-62 (DUP)	PCE	410		5		82
TV-F&S 2000a	Oct-99	B-8	PCE	410		5		82
TV-F&S 2000a	Apr-99	B-57	PCE	400		5		80
TV-F&S 2001a	Jul-00	B-56	PCE	380	J	5		76
TV-F&S 2000a	Oct-98	B-20	PCE	360		5		72
Hart Crowser 1992b	May-92	B-16	PCE	360		5		72
TV-F&S 2000a	Oct-98	B-19	PCE	350		5		70
TV-F&S 2000a	Feb-99	B-57	PCE	350		5		70
TV-F&S 2001a	Jul-00	B-55	PCE	350	J	5		70
Hart Crowser 1993a	Sep-92	B-36	PCE	330		5		66
TV-F&S 2001a	Jul-00	B-57	PCE	300	J	5		60
Hart Crowser 1997	Oct-95	B-8	PCE	290		5		58
Hart Crowser 1997	Dec-96	B-36	PCE	270		5		54
TV-F&S 2000a	Oct-99	B-55	PCE	230	J	5		46

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2001a	**Jul-00**	**B-53**	**PCE**	**220**	**J**	**5**		**44**
TV-F&S 2000a	**Oct-99**	**B-36**	**PCE**	**180**		**5**		**36**
TV-F&S 2000a	**Oct-99**	**B-14**	**PCE**	**170**		**5**		**34**
Hart Crowser 1992b	**May-92**	**B-18**	**PCE**	**160**		**5**		**32**
TV-F&S 2000a	**Jul-99**	**TW-3 (DUP)**	**PCE**	**140**		**5**		**28**
TV-F&S 2000a	**Jul-99**	**TW-3**	**PCE**	**130**		**5**		**26**
TV-F&S 2000a	**Oct-99**	**B-18**	**PCE**	**130**		**5**		**26**
TV-F&S 2000a	**Oct-99**	**B-33A**	**PCE**	**130**		**5**		**26**
TV-F&S 2001a	**Jul-00**	**AGI-2**	**PCE**	**120**	**J**	**5**		**24**
Hart Crowser 1990b	**1990**	**B-12**	**PCE**	**95**		**5**		**19**
Hart Crowser 1990b	**1990**	**B-8**	**PCE**	**89**		**5**		**18**
Hart Crowser 1993a	**Aug-93**	**B-9**	**PCE**	**85**		**5**		**17**
Hart Crowser 1997	**Dec-96**	**B-35**	**PCE**	**85**		**5**		**17**
Hart Crowser 1993a	**Sep-92**	**B-9**	**PCE**	**78**		**5**		**16**
TV-F&S 2000a	**Jul-99**	**B-61**	**PCE**	**78**		**5**		**16**
TV-F&S 2000a	**Oct-99**	**B-19**	**PCE**	**64**		**5**		**13**
TV-F&S 2000a	**Feb-99**	**B-28**	**PCE**	**63**		**5**		**13**
Hart Crowser 1992b	**May-92**	**B-72**	**PCE**	**63**		**5**		**13**
Hart Crowser 1992b	**May-92**	**B-19**	**PCE**	**62**		**5**		**12**
TV-F&S 2000a	**Jul-99**	**B-64**	**PCE**	**61**		**5**		**12**
Hart Crowser 1993a	**Aug-93**	**B-34**	**PCE**	**59**		**5**		**12**
Hart Crowser 1993a	**Aug-93**	**B-36**	**PCE**	**56**		**5**		**11**
Hart Crowser 1997	**Oct-95**	**B-33A**	**PCE**	**53**		**5**		**11**
TV-F&S 2000a	**Oct-99**	**B-64**	**PCE**	**50**		**5**		**10**
Hart Crowser 1992b	May-92	B-28	PCE	47		5		9.4
Hart Crowser 1993a	Sep-92	B-26	PCE	44		5		8.8
Hart Crowser 1993a	Aug-93	B-35	PCE	41		5		8.2
TV-F&S 2000a	Jul-99	B-63	PCE	40		5		8.0
TV-F&S 2000a	Jul-99	B-59	PCE	39		5		7.8
Hart Crowser 1990b	1990	B-11	PCE	37		5		7.4
TV-F&S 2000a	Oct-98	B-36	PCE	35		5		7.0
TV-F&S 2001a	Jul-00	AGI-3	PCE	34	J	5		6.8
Hart Crowser 1993a	Aug-93	B-26	PCE	33		5		6.6
Hart Crowser 1993a	Sep-92	B-33A	PCE	32		5		6.4

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1997	Oct-95	B-20	PCE	32		5		6.4
Hart Crowser 1997	Oct-95	B-34	PCE	32		5		6.4
Hart Crowser 1993a	Sep-92	B-20	PCE	31		5		6.2
TV-F&S 2000a	Oct-98	B-36 (DUP)	PCE	30		5		6.0
Hart Crowser 1992b	May-92	B-26	PCE	26		5		5.2
Hart Crowser 1990b	1990	B-7	PCE	23		5		4.6
Hart Crowser 1997	Oct-95	B-26	PCE	23		5		4.6
TV-F&S 2001a	Jul-00	NW-6	PCE	19	J	5		3.8
TV-F&S 2000a	Oct-99	B-23	PCE	17		5		3.4
Hart Crowser 1990b	1990	B-8	PCE	15		5		3.0
Hart Crowser 1997	Dec-96	B-34	PCE	15		5		3.0
TV-F&S 2000a	Jul-99	B-65	PCE	15		5		3.0
TV-F&S 2000a	Oct-99	B-28	PCE	15		5		3.0
TV-F&S 2000a	Oct-98	B-34	PCE	13		5		2.6
TV-F&S 2000a	Oct-99	B-34	PCE	11		5		2.2
TV-F&S 2001a	Jul-00	NW-12	PCE	10		5		2.0
TV-F&S 2001a	Jul-00	B-28	PCE	10	J	5		2.0
Hart Crowser 1990b	1990	B-13	PCE	9	J	5		1.8
TV-F&S 2000a	Jul-99	B-63 (DUP)	PCE	8.7		5		1.7
Hart Crowser 1990b	1990	B-10	PCE	7.8	J	5		1.6
TV-F&S 2000a	Dec-98	B-23	PCE	7.2		5		1.4
Hart Crowser 1997	Oct-95	B-36	PCE	7		5		1.4
Hart Crowser 1997	Dec-96	B-26	PCE	7		5		1.4
TV-F&S 2001a	Jul-00	NW-3	PCE	7	J	5		1.4
TV-F&S 2000a	Nov-98	B-26	PCE	6.1		5		1.2
Hart Crowser 1992b	May-92	B-23	PCE	6		5		1.2
Hart Crowser 1990b	1990	B-11	PCE	5.7	J	5		1.1
Hart Crowser 1990b	1990	B-10A	PCE	5.1	J	5		1.0
Hart Crowser 1997	Dec-96	B-9	PCE	5		5		1.0
Hart Crowser 1992b	May-92	B-17	PCE	5		5		1.0
Hart Crowser 1992b	May-92	B-23 (DUP)	PCE	5		5		1.0
TV-F&S 2000a	Nov-98	B-9	PCE	4.6		5		0.9
TV-F&S 2000a	Oct-99	B-26	PCE	4.2		5		0.8
Hart Crowser 1992b	May-92	B-25	PCE	4		5		0.8

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-27	PCE	4		5		0.8
TV-F&S 2000a	Jul-99	TW-7	PCE	3	J	5		0.6
TV-F&S 2001a	Jul-00	NW-10	PCE	3		5		0.6
TV-F&S 2001a	Jul-00	NW-9	PCE	3		5		0.6
TV-F&S 2000a	Nov-98	B-18	PCE	2.8		5		0.6
TV-F&S 2000a	Oct-99	B-9	PCE	2.4		5		0.5
Hart Crowser 1993a	Sep-92	B-34	PCE	2		5		0.4
Hart Crowser 1993a	Aug-93	B-33A	PCE	2		5		0.4
Hart Crowser 1997	Oct-95	B-35	PCE	2		5		0.4
TV-F&S 2001a	Jul-00	NW-1	PCE	2	J	5		0.4
TV-F&S 2001a	Jul-00	NW-2	PCE	2	J	5		0.4
TV-F&S 2001a	Jul-00	NW-4	PCE	2	J	5		0.4
TV-F&S 2001a	Jul-00	NW-5	PCE	2	J	5		0.4
TV-F&S 2001a	Jul-00	NW-8	PCE	2		5		0.4
Hart Crowser 1993a	Sep-92	B-24	PCE	1		5		0.2
Hart Crowser 1993a	Sep-92	B-27	PCE	1		5		0.2
Hart Crowser 1997	Dec-96	B-33A	PCE	1	J	5		0.2
TV-F&S 2001a	Jul-00	NW-11	PCE	1		5		0.2
TV-F&S 2001a	Jul-00	NW-7	PCE	1		5		0.2
Hart Crowser 1992b	May-92	B-24	PCE	1		5		0.2
Hart Crowser 1992b	May-92	B-6	PCE	1		5		0.2
Hart Crowser 1990b	1990	B-14	PCE	0.5		5		0.1
Hart Crowser 1990b	1990	B-9	PCE	0.200		5		0.0
Hart Crowser 1990b	1990	B-1	PCE	0.130		5		0.0
Hart Crowser 1990b	1990	B-5	PCE	0.120		5		0.0
Hart Crowser 1990a	May-89	B-1	PCE	0.048		5		0.0
Hart Crowser 1990b	1990	B-9	PCE	0.019		5		0.0
Hart Crowser 1992b	**May-92**	**B-31**	**Pentachlorophenol**	**11,000**		**0.73**	**10**	**15,068**
TV-F&S 2000a	**Oct-99**	**B-38**	**Pentachlorophenol**	**5,500**		**0.73**	**10**	**7,534**
Hart Crowser 1993a	**Aug-93**	**B-31**	**Pentachlorophenol**	**4,800**		**0.73**	**10**	**6,575**
Hart Crowser 1997	**Oct-95**	**B-31**	**Pentachlorophenol**	**4,000**		**0.73**	**10**	**5,479**
Hart Crowser 1993a	**Sep-92**	**B-31**	**Pentachlorophenol**	**3,600**		**0.73**	**10**	**4,932**
Hart Crowser 1997	**Dec-96**	**B-39**	**Pentachlorophenol**	**3,100**	**J**	**0.73**	**10**	**4,247**
Ecology 1993c	**Jul-93**	**B-50**	**Pentachlorophenol**	**2,500**		**0.73**	**10**	**3,425**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-31	Pentachlorophenol	2,300		0.73	10	3,151
Ecology 1993c	Jul-93	B-27	Pentachlorophenol	2,100		0.73	10	2,877
Hart Crowser 1992b	May-92	B-30	Pentachlorophenol	2,000		0.73	10	2,740
Ecology 1993b	Jun-93	278091	Pentachlorophenol	1,900		0.73	10	2,603
TV-F&S 2000a	Nov-99	B-11	Pentachlorophenol	1,900		0.73	10	2,603
Hart Crowser 1992b	May-92	B-30	Pentachlorophenol	1,600		0.73	10	2,192
Hart Crowser 1992b	May-92	B-11	Pentachlorophenol	1,500		0.73	10	2,055
Hart Crowser 1997	Oct-95	B-31	Pentachlorophenol	1,300	J	0.73	10	1,781
Ecology 1993b	Jun-93	278092	Pentachlorophenol	1,200		0.73	10	1,644
Hart Crowser 1997	Dec-96	B-31	Pentachlorophenol	1,200		0.73	10	1,644
Hart Crowser 1997	Dec-96	B-31	Pentachlorophenol	1,100		0.73	10	1,507
Hart Crowser 1997	Oct-95	B-39	Pentachlorophenol	670		0.73	10	918
TV-F&S 2000a	Oct-99	B-47 (DUP)	Pentachlorophenol	640		0.73	10	877
TV-F&S 2000a	Oct-98	B-44	Pentachlorophenol	570		0.73	10	781
TV-F&S 2000a	Oct-99	B-49	Pentachlorophenol	520		0.73	10	712
TV-F&S 2000a	Oct-99	B-47	Pentachlorophenol	490		0.73	10	671
TV-F&S 2000a	Nov-98	B-49	Pentachlorophenol	480	J	0.73	10	658
TV-F&S 2000a	Nov-98	B-39	Pentachlorophenol	440		0.73	10	603
TV-F&S 2000a	Nov-99	B-12	Pentachlorophenol	430		0.73	10	589
TV-F&S 2000a	Oct-99	B-39	Pentachlorophenol	380	J	0.73	10	521
TV-F&S 2000a	Oct-99	B-42	Pentachlorophenol	370		0.73	10	507
TV-F&S 2000a	Nov-98	B-46	Pentachlorophenol	360		0.73	10	493
TV-F&S 2000a	Oct-99	B-44	Pentachlorophenol	360		0.73	10	493
Ecology 1993b	Jun-93	278094	Pentachlorophenol	290		0.73	10	397
TV-F&S 2000a	Nov-98	B-42	Pentachlorophenol	260	J	0.73	10	356
TV-F&S 2000a	Oct-99	B-46	Pentachlorophenol	200		0.73	10	274
Hart Crowser 1993a	Aug-93	B-20	Pentachlorophenol	160	J	0.73	10	219
TV-F&S 2000a	Oct-98	B-20	Pentachlorophenol	140		0.73	10	192
TV-F&S 2000a	Nov-98	B-52	Pentachlorophenol	120		0.73	10	164
TV-F&S 2000a	Nov-98	B-52 (DUP)	Pentachlorophenol	120		0.73	10	164
Ecology 1993c	Jul-93	B-48	Pentachlorophenol	96		0.73	10	132
Hart Crowser 1992b	May-92	B-20	Pentachlorophenol	73		0.73	10	100
Hart Crowser 1992b	May-92	B-8	Pentachlorophenol	72	J	0.73	10	99
ATI 1991b	Sep-91	B-16	Pentachlorophenol	62		0.73	10	85

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Ecology 1993b	**Jun-93**	**278093**	**Pentachlorophenol**	**56**		**0.73**	**10**	**77**
Hart Crowser 1997	**Dec-96**	**B-20**	**Pentachlorophenol**	**56**		**0.73**	**10**	**77**
Hart Crowser 1992b	**May-92**	**B-20**	**Pentachlorophenol**	**47**		**0.73**	**10**	**64**
Hart Crowser 1993a	**Sep-92**	**B-20**	**Pentachlorophenol**	**37**		**0.73**	**10**	**51**
TV-F&S 2000a	**Oct-99**	**B-52**	**Pentachlorophenol**	**37**		**0.73**	**10**	**51**
Hart Crowser 1997	**Oct-95**	**B-10A**	**Pentachlorophenol**	**36**		**0.73**	**10**	**49**
Hart Crowser 1997	**Oct-95**	**B-20**	**Pentachlorophenol**	**33**		**0.73**	**10**	**45**
TV-F&S 2000a	**Oct-99**	**B-45 (DUP)**	**Pentachlorophenol**	**29**		**0.73**	**10**	**40**
TV-F&S 2000a	**Oct-99**	**B-15**	**Pentachlorophenol**	**26**		**0.73**	**10**	**36**
Hart Crowser 1992b	**May-92**	**B-16**	**Pentachlorophenol**	**26**		**0.73**	**10**	**36**
TV-F&S 2000a	**Oct-99**	**B-45**	**Pentachlorophenol**	**24**		**0.73**	**10**	**33**
TV-F&S 2000a	**Oct-99**	**B-45**	**Pentachlorophenol**	**22**		**0.73**	**10**	**30**
Hart Crowser 1992b	**May-92**	**B-8**	**Pentachlorophenol**	**21**		**0.73**	**10**	**29**
TV-F&S 2000a	**Oct-99**	**B-18**	**Pentachlorophenol**	**13**		**0.73**	**10**	**18**
TV-F&S 2000a	**Jul-99**	**B-58**	**Pentachlorophenol**	**12**		**0.73**	**10**	**16**
TV-F&S 2000a	**Oct-99**	**B-58 (DUP)**	**Pentachlorophenol**	**10**		**0.73**	**10**	**14**
TV-F&S 2000a	**Oct-99**	**B-60**	**Pentachlorophenol**	**9.6**		**0.73**	**10**	**13**
Hart Crowser 1992b	**May-92**	**B-29**	**Pentachlorophenol**	**9.6**		**0.73**	**10**	**13**
TV-F&S 2000a	**Oct-99**	**B-58**	**Pentachlorophenol**	**9.5**		**0.73**	**10**	**13**
Hart Crowser 1997	**Dec-96**	**B-8**	**Pentachlorophenol**	**8**	**J**	**0.73**	**10**	**11**
TV-F&S 2000a	Oct-99	B-60	Pentachlorophenol	7		0.73	10	9.6
TV-F&S 2000a	Oct-99	B-35	Pentachlorophenol	6.5		0.73	10	8.9
TV-F&S 2000a	Oct-99	B-16	Pentachlorophenol	6.3		0.73	10	8.6
Hart Crowser 1997	Dec-96	B-10A	Pentachlorophenol	5.9		0.73	10	8.1
TV-F&S 2000a	Oct-99	B-58	Pentachlorophenol	5.8		0.73	10	7.9
Hart Crowser 1997	Oct-95	B-24	Pentachlorophenol	2	J	0.73	10	2.7
Hart Crowser 1992b	May-92	B-18	Pentachlorophenol	2		0.73	10	2.7
Hart Crowser 1992b	May-92	B-11	Pentachlorophenol	1.4		0.73	10	1.9
Hart Crowser 1992b	May-92	B-10A	Pentachlorophenol	1.3		0.73	10	1.8
Hart Crowser 1997	Dec-96	B-24	Pentachlorophenol	1	J	0.73	10	1.4
Hart Crowser 1993a	Sep-92	B-25	Pentachlorophenol	0.91		0.73	10	1.2
Hart Crowser 1992b	May-92	B-27	Pentachlorophenol	0.91		0.73	10	1.2
Hart Crowser 1992b	May-92	B-72	Pentachlorophenol	0.68		0.73	10	0.9
TV-F&S 2000a	Oct-99	B-10A	Pentachlorophenol	0.6		0.73	10	0.8

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-19	Pentachlorophenol	0.42		0.73	10	0.6
Hart Crowser 1992b	May-92	B-17	Pentachlorophenol	0.4		0.73	10	0.5
TV-F&S 2000a	Oct-99	B-36	Pentachlorophenol	0.37	J	0.73	10	0.5
Hart Crowser 1992b	May-92	B-25	Pentachlorophenol	0.35		0.73	10	0.5
Hart Crowser 1993a	Aug-93	B-25	Pentachlorophenol	0.34		0.73	10	0.5
Hart Crowser 1993a	Aug-93	B-21	Pentachlorophenol	0.18		0.73	10	0.2
Hart Crowser 1992b	May-92	B-1	Pentachlorophenol	0.18		0.73	10	0.2
Hart Crowser 1992b	May-92	B-21	Pentachlorophenol	0.18		0.73	10	0.2
Hart Crowser 1992b	May-92	B-9	Pentachlorophenol	0.17		0.73	10	0.2
Hart Crowser 1992b	May-92	B-24	Pentachlorophenol	0.15		0.73	10	0.2
Hart Crowser 1997	Oct-95	B-25	Pentachlorophenol	0.14		0.73	10	0.2
TV-F&S 2000a	Oct-99	B-8	Pentachlorophenol	0.14	J	0.73	10	0.2
TV-F&S 2000a	Oct-99	B-62	Pentachlorophenol	0.13	J	0.73	10	0.2
Hart Crowser 1997	Oct-95	B-21	Pentachlorophenol	0.11		0.73	10	0.2
Hart Crowser 1992b	May-92	B-26	Pentachlorophenol	0.11		0.73	10	0.2
Hart Crowser 1993a	Sep-92	B-21	Pentachlorophenol	0.089		0.73	10	0.1
Hart Crowser 1992b	May-92	B-23	Pentachlorophenol	0.082		0.73	10	0.1
TV-F&S 2000a	Oct-99	B-35	Pentachlorophenol	0.07	J	0.73	10	0.1
Hart Crowser 1992b	May-92	B-22	Pentachlorophenol	0.064		0.73	10	0.1
Hart Crowser 1997	Oct-95	B-24	Pentachlorophenol	0.05		0.73	10	0.1
TV-F&S 2000a	Oct-99	B-19	Pentachlorophenol	0.01	J	0.73	10	0.0
Ecology 1993c	Jul-93	B-49	Phenanthrene	39	J		23	1.7
Ecology 1993b	Jun-93	278092	Phenanthrene	24			23	1.0
Ecology 1993c	Jul-93	B-50	Phenanthrene	7	J		23	0.3
TV-F&S 2000a	Nov-98	B-46	Phenanthrene	4.5			23	0.2
TV-F&S 2000a	Nov-98	B-12	Phenanthrene	2.8			23	0.1
TV-F&S 2000a	Nov-98	B-52 (DUP)	Phenanthrene	2.6			23	0.1
TV-F&S 2000a	Nov-98	B-52	Phenanthrene	2.4			23	0.1
TV-F&S 2000a	Nov-98	B-49	Phenanthrene	2.3			23	0.1
TV-F&S 2000a	Oct-98	B-44	Phenanthrene	1.3			23	0.1
TV-F&S 2000a	Nov-99	B-12	Phenanthrene	1.3			23	0.1
TV-F&S 2000a	Oct-99	B-52	Phenanthrene	1.2			23	0.1
Ecology 1993c	Jul-93	B-27	Phenol	140		4,800	220	0.6
Ecology 1993b	Jun-93	278092	Phenol	93		4,800	220	0.4

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Ecology 1993b	Jun-93	278091	Phenol	54		4,800	220	0.2
Ecology 1993c	Jul-93	B-50	Phenol	32	J	4,800	220	0.1
Ecology 1993b	Jun-93	278094	Phenol	20		4,800	220	0.1
Ecology 1993c	Jul-93	B-48	Phenol	4	J	4,800	220	0.0
Ecology 1993c	Jul-93	B-48 (DUP)	Phenol	3	J	4,800	220	0.0
TV-F&S 2000a	Oct-99	B-38	Phenol	2.5		4,800	220	0.0
TV-F&S 2000a	**Oct-99**	**B-58**	**Phosphorus (total)**	**2,600**		**0.16**		**16,250**
TV-F&S 2000a	**Nov-99**	**B-31**	**Phosphorus (total)**	**1,600**		**0.16**		**10,000**
TV-F&S 2000a	**Oct-99**	**B-25**	**Phosphorus (total)**	**1,500**		**0.16**		**9,375**
TV-F&S 2000a	**Nov-99**	**B-11**	**Phosphorus (total)**	**1,400**		**0.16**		**8,750**
TV-F&S 2000a	**Oct-99**	**B-17**	**Phosphorus (total)**	**1,200**		**0.16**		**7,500**
TV-F&S 2000a	**Oct-99**	**B-27**	**Phosphorus (total)**	**1,200**		**0.16**		**7,500**
TV-F&S 2000a	**Oct-99**	**B-47**	**Phosphorus (total)**	**1,200**		**0.16**		**7,500**
TV-F&S 2000a	**Oct-99**	**B-26**	**Phosphorus (total)**	**1,100**		**0.16**		**6,875**
TV-F&S 2000a	**Oct-99**	**B-42**	**Phosphorus (total)**	**1,100**		**0.16**		**6,875**
TV-F&S 2000a	**Oct-99**	**B-49**	**Phosphorus (total)**	**1,100**		**0.16**		**6,875**
TV-F&S 2000a	**Oct-99**	**B-35**	**Phosphorus (total)**	**680**		**0.16**		**4,250**
TV-F&S 2000a	**Oct-99**	**B-46**	**Phosphorus (total)**	**640**		**0.16**		**4,000**
TV-F&S 2000a	**Nov-99**	**B-12**	**Phosphorus (total)**	**510**		**0.16**		**3,188**
TV-F&S 2000a	**Oct-99**	**B-65**	**Phosphorus (total)**	**440**		**0.16**		**2,750**
TV-F&S 2000a	**Oct-99**	**B-33A**	**Phosphorus (total)**	**400**		**0.16**		**2,500**
TV-F&S 2000a	**Oct-99**	**B-6**	**Phosphorus (total)**	**380**		**0.16**		**2,375**
TV-F&S 2000a	**Oct-99**	**B-36**	**Phosphorus (total)**	**370**		**0.16**		**2,313**
TV-F&S 2000a	**Oct-99**	**B-61**	**Phosphorus (total)**	**340**		**0.16**		**2,125**
TV-F&S 2000a	**Oct-99**	**B-23**	**Phosphorus (total)**	**310**		**0.16**		**1,938**
TV-F&S 2000a	**Oct-99**	**B-44**	**Phosphorus (total)**	**310**		**0.16**		**1,938**
TV-F&S 2000a	**Oct-99**	**B-59**	**Phosphorus (total)**	**300**		**0.16**		**1,875**
TV-F&S 2000a	**Oct-99**	**B-45**	**Phosphorus (total)**	**250**		**0.16**		**1,563**
TV-F&S 2000a	**Oct-99**	**B-21**	**Phosphorus (total)**	**230**		**0.16**		**1,438**
TV-F&S 2000a	**Oct-99**	**B-64**	**Phosphorus (total)**	**200**		**0.16**		**1,250**
TV-F&S 2000a	**Oct-99**	**B-15**	**Phosphorus (total)**	**200**		**0.16**		**1,250**
TV-F&S 2000a	**Oct-99**	**B-24**	**Phosphorus (total)**	**170**		**0.16**		**1,063**
TV-F&S 2000a	**Oct-99**	**B-55**	**Phosphorus (total)**	**170**		**0.16**		**1,063**
TV-F&S 2000a	**Oct-99**	**B-13**	**Phosphorus (total)**	**150**		**0.16**		**938**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	**Oct-99**	**B-28**	**Phosphorus (total)**	**150**		**0.16**		**938**
TV-F&S 2000a	**Oct-99**	**B-53**	**Phosphorus (total)**	**150**		**0.16**		**938**
TV-F&S 2000a	**Oct-99**	**B-22**	**Phosphorus (total)**	**140**		**0.16**		**875**
TV-F&S 2000a	**Oct-99**	**B-54**	**Phosphorus (total)**	**140**		**0.16**		**875**
TV-F&S 2000a	**Oct-99**	**B-8**	**Phosphorus (total)**	**120**		**0.16**		**750**
TV-F&S 2000a	**Oct-99**	**B-60**	**Phosphorus (total)**	**110**		**0.16**		**688**
TV-F&S 2000a	**Oct-99**	**B-16**	**Phosphorus (total)**	**100**		**0.16**		**625**
TV-F&S 2000a	**Oct-99**	**B-34**	**Phosphorus (total)**	**100**		**0.16**		**625**
TV-F&S 2000a	**Oct-99**	**B-62**	**Phosphorus (total)**	**89**		**0.16**		**556**
TV-F&S 2000a	**Oct-99**	**B-20A**	**Phosphorus (total)**	**85**		**0.16**		**531**
TV-F&S 2000a	Oct-99	B-63	Phosphorus (total)	0.28		0.16		1.8
Ecology 1993b	Jun-93	278092	Pyrene	8	J	480	20	0.4
Ecology 1993c	Jul-93	B-49	Pyrene	5	J	480	20	0.3
TV-F&S 2000a	Oct-99	B-38	Pyrene	0.59		480	20	0.0
TV-F&S 2000a	Nov-99	B-12	Pyrene	0.55		480	20	0.0
TV-F&S 2000a	Oct-99	B-49	sec-Butyl benzene	2,300				
TV-F&S 2000a	Oct-99	B-38	sec-Butyl benzene	31				
TV-F&S 2000a	Jul-99	B-58	sec-Butyl benzene	7.8				
TV-F&S 2000a	Nov-98	B-52	sec-Butyl benzene	5.3				
TV-F&S 2000a	Oct-98	B-8	sec-Butyl benzene	4.7				
Ecology 1993c	**Jul-93**	**B-27**	**Styrene**	**2,500**	**J**	**1.5**		**1,667**
TV-F&S 2000a	**Nov-98**	**B-49**	**Styrene**	**1,800**		**1.5**		**1,200**
Ecology 1993b	**Jun-93**	**278092**	**Styrene**	**1,300**		**1.5**		**867**
TV-F&S 2000a	**Oct-99**	**B-47**	**Styrene**	**1,100**		**1.5**		**733**
Hart Crowser 1992b	**May-92**	**B-30**	**Styrene**	**650**		**1.5**		**433**
Hart Crowser 1993a	**Sep-92**	**B-31**	**Styrene**	**610**		**1.5**		**407**
Hart Crowser 1993a	**Aug-93**	**B-30**	**Styrene**	**510**		**1.5**		**340**
Hart Crowser 1993a	**Sep-92**	**B-30**	**Styrene**	**460**		**1.5**		**307**
TV-F&S 2000a	**Nov-98**	**B-42**	**Styrene**	**460**		**1.5**		**307**
Hart Crowser 1997	**Dec-96**	**B-31**	**Styrene**	**400**		**1.5**		**267**
Ecology 1993b	**Jun-93**	**278091**	**Styrene**	**330**	**J**	**1.5**		**220**
Hart Crowser 1993a	**Aug-93**	**B-31**	**Styrene**	**310**		**1.5**		**207**
Hart Crowser 1997	**Dec-96**	**B-44**	**Styrene**	**310**		**1.5**		**207**
Hart Crowser 1997	**Oct-95**	**B-31**	**Styrene**	**230**		**1.5**		**153**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1997	**Dec-96**	**B-39**	**Styrene**	**230**		**1.5**		**153**
Hart Crowser 1997	**Oct-95**	**B-44**	**Styrene**	**130**		**1.5**		**87**
Hart Crowser 1997	**Dec-96**	**B-10A**	**Styrene**	**32**	**J**	**1.5**		**21**
Hart Crowser 1997	**Dec-96**	**B-35**	**Styrene**	**15**		**1.5**		**10**
TV-F&S 2000a	Oct-99	B-34	Sulfate	1,600,000				
TV-F&S 2000a	Oct-99	B-42	Sulfate	550,000				
TV-F&S 2000a	Oct-99	B-47	Sulfate	520,000				
TV-F&S 2000a	Oct-99	B-44	Sulfate	400,000				
TV-F&S 2000a	Nov-99	B-12	Sulfate	350,000				
TV-F&S 2000a	Oct-99	B-46	Sulfate	300,000				
TV-F&S 2000a	Oct-99	B-49	Sulfate	300,000				
TV-F&S 2000a	Oct-99	B-53	Sulfate	270,000				
TV-F&S 2000a	Nov-99	B-31	Sulfate	250,000				
TV-F&S 2000a	Oct-99	B-54	Sulfate	170,000				
TV-F&S 2000a	Oct-99	B-28	Sulfate	150,000				
TV-F&S 2000a	Oct-99	B-16	Sulfate	140,000				
TV-F&S 2000a	Oct-99	B-26	Sulfate	130,000				
TV-F&S 2000a	Oct-99	B-15	Sulfate	110,000				
TV-F&S 2000a	Oct-99	B-13	Sulfate	97,000				
TV-F&S 2000a	Oct-99	B-55	Sulfate	94,000				
TV-F&S 2000a	Oct-99	B-23	Sulfate	91,000				
TV-F&S 2000a	Oct-99	B-33A	Sulfate	86,000				
TV-F&S 2000a	Oct-99	B-59	Sulfate	81,000				
TV-F&S 2000a	Oct-99	B-58	Sulfate	75,000				
TV-F&S 2000a	Nov-99	B-11	Sulfate	56,000				
TV-F&S 2000a	Oct-99	B-8	Sulfate	52,000				
TV-F&S 2000a	Oct-99	B-60	Sulfate	46,000				
TV-F&S 2000a	Oct-99	B-45	Sulfate	34,000				
TV-F&S 2000a	Oct-99	B-22	Sulfate	30,000				
TV-F&S 2000a	Oct-99	B-62	Sulfate	27,000				
TV-F&S 2000a	Oct-99	B-24	Sulfate	22,000				
TV-F&S 2000a	Oct-99	B-36	Sulfate	19,000				
TV-F&S 2000a	Oct-99	B-20A	Sulfate	19,000				
TV-F&S 2000a	Oct-99	B-64	Sulfate	15,000				

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-61	Sulfate	15,000				
TV-F&S 2000a	Oct-99	B-6	Sulfate	13,000				
TV-F&S 2000a	Oct-99	B-65	Sulfate	9,500				
TV-F&S 2000a	Oct-99	B-21	Sulfate	6,900				
TV-F&S 2000a	Oct-99	B-35	Sulfate	5,200				
TV-F&S 2000a	Oct-99	B-17	Sulfate	1,900				
TV-F&S 2000a	Oct-99	B-27	Sulfate	300				
TV-F&S 2000a	Oct-99	B-25	Sulfate	150	J			
TV-F&S 2000a	Oct-99	B-63	Sulfate	44				
Hart Crowser 1993a	**Jun-93**	**B-43**	**TCE**	**94,000**		**0.11**		**854,545**
Ecology 1993b	**Jun-93**	**278091**	**TCE**	**72,000**		**0.11**		**654,545**
Hart Crowser 1993a	**Sep-92**	**B-31**	**TCE**	**60,000**		**0.11**		**545,455**
Hart Crowser 1997	**Oct-95**	**B-31**	**TCE**	**57,000**	**J**	**0.11**		**518,182**
Hart Crowser 1993a	**Jul-93**	**B-49**	**TCE**	**54,000**		**0.11**		**490,909**
Hart Crowser 1993a	**Aug-93**	**B-31**	**TCE**	**52,000**		**0.11**		**472,727**
Hart Crowser 1992b	**May-92**	**B-31**	**TCE**	**51,000**		**0.11**		**463,636**
Hart Crowser 1993a	**Jun-93**	**B-44**	**TCE**	**50,000**		**0.11**		**454,545**
Hart Crowser 1993a	**Jul-93**	**B-47 (DUP)**	**TCE**	**50,000**		**0.11**		**454,545**
Hart Crowser 1993a	**Sep-92**	**B-30**	**TCE**	**47,000**		**0.11**		**427,273**
Hart Crowser 1993a	**Jul-93**	**B-47**	**TCE**	**47,000**		**0.11**		**427,273**
Ecology 1993c	**Jul-93**	**B-49**	**TCE**	**46,000**		**0.11**		**418,182**
Ecology 1993c	**Jul-93**	**B-27**	**TCE**	**41,000**		**0.11**		**372,727**
Hart Crowser 1993a	**Aug-93**	**B-51**	**TCE**	**40,000**		**0.11**		**363,636**
Hart Crowser 1992b	**May-92**	**B-11**	**TCE**	**40,000**		**0.11**		**363,636**
Hart Crowser 1993a	**Aug-93**	**B-30**	**TCE**	**38,000**		**0.11**		**345,455**
Ecology 1993b	**Jun-93**	**278092**	**TCE**	**35,000**		**0.11**		**318,182**
Hart Crowser 1992b	**May-92**	**B-30**	**TCE**	**34,000**		**0.11**		**309,091**
Ecology 1993c	**Jul-93**	**B-48**	**TCE**	**31,000**		**0.11**		**281,818**
Hart Crowser 1993a	**Jul-93**	**B-48**	**TCE**	**30,000**		**0.11**		**272,727**
Ecology 1993c	**Jul-93**	**B-48 (DUP)**	**TCE**	**30,000**		**0.11**		**272,727**
Hart Crowser 1993a	**Jun-93**	**B-46**	**TCE**	**23,000**		**0.11**		**209,091**
TV-F&S 2000a	**Nov-98**	**B-49**	**TCE**	**22,000**		**0.11**		**200,000**
TV-F&S 2000a	**Oct-99**	**B-47 (DUP)**	**TCE**	**22,000**		**0.11**		**200,000**
Hart Crowser 1992b	**May-92**	**B-15**	**TCE**	**22,000**		**0.11**		**200,000**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Sep-92	B-15	TCE	21,000		0.11		190,909
TV-F&S 2000a	Oct-99	B-47	TCE	21,000		0.11		190,909
TV-F&S 2000a	Oct-98	B-44	TCE	20,000		0.11		181,818
TV-F&S 2000a	Oct-99	B-49	TCE	19,000		0.11		172,727
TV-F&S 2000a	Oct-99	B-46	TCE	18,000		0.11		163,636
Ecology 1993b	Jun-93	278094 (DUP)	TCE	17,000		0.11		154,545
Hart Crowser 1997	Dec-96	B-44	TCE	17,000		0.11		154,545
Hart Crowser 1993a	Aug-93	B-15	TCE	16,000		0.11		145,455
Hart Crowser 1997	Oct-95	B-44	TCE	15,000		0.11		136,364
Hart Crowser 1997	Dec-96	B-39	TCE	15,000		0.11		136,364
Ecology 1993b	Jun-93	278094	TCE	14,000		0.11		127,273
Hart Crowser 1997	Dec-96	B-31	TCE	13,000		0.11		118,182
TV-F&S 2000a	Nov-98	B-42	TCE	13,000		0.11		118,182
TV-F&S 2000a	Nov-98	B-45	TCE	13,000		0.11		118,182
Hart Crowser 1993a	Jul-93	B-50	TCE	12,000		0.11		109,091
Hart Crowser 1997	Oct-95	B-45	TCE	12,000	J	0.11		109,091
Hart Crowser 1997	Dec-96	B-45	TCE	12,000		0.11		109,091
TV-F&S 2000a	Nov-98	B-45 BAL	TCE	12,000		0.11		109,091
TV-F&S 2000a	Nov-98	B-46 BAL	TCE	12,000		0.11		109,091
Hart Crowser 1993a	Sep-92	B-8	TCE	11,000		0.11		100,000
TV-F&S 2000a	Jul-99	B-58	TCE	11,000		0.11		100,000
Hart Crowser 1993a	Jun-93	B-45	TCE	10,000		0.11		90,909
Ecology 1993c	Jul-93	B-50	TCE	10,000		0.11		90,909
TV-F&S 2000a	Nov-98	B-12	TCE	10,000		0.11		90,909
TV-F&S 2000a	Nov-98	B-39	TCE	10,000		0.11		90,909
TV-F&S 2000a	Oct-99	B-45	TCE	10,000		0.11		90,909
TV-F&S 2000a	Oct-99	B-45 (DUP)	TCE	9,600		0.11		87,273
Hart Crowser 1993a	Jun-93	B-45 (DUP)	TCE	9,300		0.11		84,545
Hart Crowser 1993a	Aug-93	B-52 (DUP)	TCE	9,300		0.11		84,545
TV-F&S 2000a	Nov-98	B-46	TCE	9,100		0.11		82,727
TV-F&S 2000a	Oct-99	B-42	TCE	9,000		0.11		81,818
Ecology 1993b	Jun-93	278093	TCE	8,900		0.11		80,909
Hart Crowser 1993a	Aug-93	B-52	TCE	8,800		0.11		80,000
Hart Crowser 1993a	Aug-93	B-8	TCE	7,800		0.11		70,909

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-44	TCE	7,800		0.11		70,909
TV-F&S 2000a	Oct-99	B-39	TCE	7,500	J	0.11		68,182
TV-F&S 2000a	Oct-98	B-8	TCE	7,300		0.11		66,364
Hart Crowser 1997	Dec-96	B-8	TCE	6,300		0.11		57,273
TV-F&S 2000a	Oct-99	B-58	TCE	6,200		0.11		56,364
TV-F&S 2000a	Oct-99	B-58 (DUP)	TCE	5,600		0.11		50,909
TV-F&S 2000a	Oct-99	B-15	TCE	5,600		0.11		50,909
TV-F&S 2000a	Nov-98	B-52	TCE	5,300		0.11		48,182
Hart Crowser 1992b	May-92	B-8	TCE	5,000		0.11		45,455
TV-F&S 2000a	Nov-98	B-52 (DUP)	TCE	4,100		0.11		37,273
TV-F&S 2000a	Jul-99	B-61	TCE	3,700		0.11		33,636
TV-F&S 2000a	Nov-99	B-12	TCE	3,300		0.11		30,000
TV-F&S 2000a	Oct-99	B-8	TCE	3,100		0.11		28,182
Hart Crowser 1997	Oct-95	B-10A	TCE	3,000		0.11		27,273
Hart Crowser 1997	Oct-95	B-8	TCE	2,800		0.11		25,455
TV-F&S 2000a	Nov-99	B-11	TCE	2,800		0.11		25,455
ATI 1991b	Sep-91	B-16	TCE	2,400		0.11		21,818
Hart Crowser 1993a	Aug-93	B-20	TCE	2,200		0.11		20,000
TV-F&S 2000a	Oct-99	B-61	TCE	1,700		0.11		15,455
Hart Crowser 1997	Dec-96	B-10A	TCE	1,400		0.11		12,727
Hart Crowser 1997	Dec-96	B-20	TCE	1,300		0.11		11,818
TV-F&S 2000a	Nov-99	B-31	TCE	1,200		0.11		10,909
Hart Crowser 1993a	Aug-93	B-10A	TCE	1,100		0.11		10,000
TV-F&S 2000a	Oct-99	B-60	TCE	1,100		0.11		10,000
TV-F&S 2000a	Oct-99	B-62	TCE	1,000		0.11		9,091
TV-F&S 2000a	Oct-99	B-10A	TCE	950		0.11		8,636
TV-F&S 2000a	Jul-99	B-63 (DUP)	TCE	940		0.11		8,545
TV-F&S 2000a	Jul-99	B-63	TCE	920		0.11		8,364
TV-F&S 2000a	Oct-99	B-52	TCE	830		0.11		7,545
TV-F&S 2000a	Jul-99	TW-5	TCE	790		0.11		7,182
TV-F&S 2000a	Oct-99	B-63	TCE	760		0.11		6,909
Hart Crowser 1992b	May-92	B-22	TCE	690		0.11		6,273
Hart Crowser 1992b	May-92	B-10A	TCE	590		0.11		5,364
Hart Crowser 1993a	Aug-93	B-13	TCE	500		0.11		4,545

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-13	TCE	450		0.11		4,091
Hart Crowser 1993a	Sep-92	B-13	TCE	440		0.11		4,000
TV-F&S 2000a	Oct-99	B-54	TCE	420		0.11		3,818
Hart Crowser 1993a	Sep-92	B-10A	TCE	370		0.11		3,364
TV-F&S 2000a	Oct-98	B-20	TCE	340		0.11		3,091
TV-F&S 2000a	Jul-99	B-13	TCE	320		0.11		2,909
TV-F&S 2000a	Jul-99	B-60	TCE	300		0.11		2,727
TV-F&S 2000a	Oct-99	B-16	TCE	300		0.11		2,727
TV-F&S 2000a	Nov-98	B-10A	TCE	260		0.11		2,364
Hart Crowser 1992b	May-92	B-20	TCE	260		0.11		2,364
Hart Crowser 1993a	Sep-92	B-36	TCE	250		0.11		2,273
TV-F&S 2000a	Feb-99	B-22	TCE	250		0.11		2,273
Hart Crowser 1997	Oct-95	B-9	TCE	240		0.11		2,182
TV-F&S 2000a	Oct-99	B-20A	TCE	240		0.11		2,182
Hart Crowser 1993a	Sep-92	B-20	TCE	230		0.11		2,091
TV-F&S 2000a	Jul-99	TW-2	TCE	230		0.11		2,091
TV-F&S 2000a	Dec-98	B-22	TCE	226		0.11		2,055
TV-F&S 2000a	Apr-99	B-13	TCE	220		0.11		2,000
Hart Crowser 1992b	May-92	B-14	TCE	220		0.11		2,000
TV-F&S 2000a	Dec-98	B-13	TCE	214		0.11		1,945
Hart Crowser 1992b	May-92	B-16	TCE	210		0.11		1,909
TV-F&S 2000a	Oct-99	B-13	TCE	200		0.11		1,818
TV-F&S 2000a	Nov-98	B-13	TCE	194		0.11		1,764
Hart Crowser 1993a	Sep-92	B-33A	TCE	180		0.11		1,636
TV-F&S 2000a	Feb-99	B-13	TCE	180		0.11		1,636
TV-F&S 2000a	Jul-99	B-62 (DUP)	TCE	180		0.11		1,636
TV-F&S 2000a	Jul-99	B-62	TCE	180		0.11		1,636
TV-F&S 2000a	Apr-99	B-54	TCE	170		0.11		1,545
TV-F&S 2000a	Oct-98	B-19	TCE	160		0.11		1,455
TV-F&S 2000a	Oct-99	B-22	TCE	160		0.11		1,455
TV-F&S 2000a	Jul-99	TW-3 (DUP)	TCE	150		0.11		1,364
TV-F&S 2000a	Jul-99	TW-6	TCE	150		0.11		1,364
TV-F&S 2000a	Oct-99	B-36	TCE	150		0.11		1,364
TV-F&S 2000a	Jul-99	TW-3	TCE	140		0.11		1,273

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Jan-99	TB-1	TCE	130		0.11		1,182
TV-F&S 2000a	Oct-99	B-18	TCE	120		0.11		1,091
TV-F&S 2001a	Jul-00	B-13	TCE	120	J	0.11		1,091
Hart Crowser 1992b	May-92	B-18	TCE	120		0.11		1,091
Hart Crowser 1997	Dec-96	B-36	TCE	110		0.11		1,000
Hart Crowser 1993a	Aug-93	B-34	TCE	100		0.11		909
Hart Crowser 1993a	Aug-93	B-35	TCE	100		0.11		909
TV-F&S 2000a	Feb-99	B-54	TCE	93		0.11		845
TV-F&S 2000a	Jul-99	TW-1	TCE	93		0.11		845
Hart Crowser 1997	Dec-96	B-33A	TCE	90	J	0.11		818
TV-F&S 2000a	Jan-99	TB-2	TCE	74		0.11		673
Hart Crowser 1993a	Sep-92	B-35	TCE	72		0.11		655
Hart Crowser 1990b	1990	B-8	TCE	65		0.11		591
Hart Crowser 1992b	May-92	B-1	TCE	64		0.11		582
Hart Crowser 1997	Oct-95	B-33A	TCE	62		0.11		564
TV-F&S 2000a	Oct-99	B-19	TCE	62		0.11		564
Hart Crowser 1997	Oct-95	B-20	TCE	58		0.11		527
TV-F&S 2000a	Jul-99	B-65	TCE	57		0.11		518
Hart Crowser 1992b	May-92	B-9	TCE	54		0.11		491
TV-F&S 2000a	Jan-99	TB-3	TCE	52		0.11		473
Hart Crowser 1992b	May-92	B-19	TCE	51		0.11		464
Hart Crowser 1992b	May-92	B-72	TCE	50		0.11		455
Hart Crowser 1997	Dec-96	B-35	TCE	49		0.11		445
TV-F&S 2000a	Apr-99	B-56	TCE	49		0.11		445
Hart Crowser 1993a	Aug-93	B-26	TCE	46		0.11		418
TV-F&S 2000a	Oct-99	B-53	TCE	42		0.11		382
TV-F&S 2000a	Nov-98	B-18	TCE	41		0.11		373
TV-F&S 2000a	Apr-99	B-53	TCE	37		0.11		336
Hart Crowser 1993a	Sep-92	B-9	TCE	36		0.11		327
TV-F&S 2000a	Jan-99	TB-4	TCE	36		0.11		327
TV-F&S 2000a	Feb-99	B-53	TCE	36.0		0.11		327
TV-F&S 2000a	Feb-99	B-55	TCE	35		0.11		318
Hart Crowser 1990b	1990	B-11	TCE	34		0.11		309
Hart Crowser 1992b	May-92	B-21	TCE	33		0.11		300

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Sep-92	B-26	TCE	32		0.11		291
Hart Crowser 1993a	Aug-93	B-36	TCE	32		0.11		291
TV-F&S 2000a	Apr-99	B-55	TCE	32		0.11		291
TV-F&S 2000a	Feb-99	B-56	TCE	30		0.11		273
Hart Crowser 1990b	1990	B-12	TCE	28		0.11		255
Hart Crowser 1997	Oct-95	B-26	TCE	27		0.11		245
TV-F&S 2000a	Oct-99	B-57	TCE	23		0.11		209
TV-F&S 2001a	Jul-00	B-55	TCE	20	J	0.11		182
TV-F&S 2000a	Oct-98	B-35	TCE	19		0.11		173
TV-F&S 2000a	Apr-99	B-57	TCE	19		0.11		173
TV-F&S 2000a	Oct-99	B-64	TCE	19		0.11		173
TV-F&S 2000a	Oct-98	B-36	TCE	18		0.11		164
Hart Crowser 1992b	May-92	B-26	TCE	18		0.11		164
Hart Crowser 1993a	Aug-93	B-9	TCE	16		0.11		145
TV-F&S 2000a	Oct-98	B-36 (DUP)	TCE	16		0.11		145
TV-F&S 2000a	Oct-99	B-56	TCE	16		0.11		145
TV-F&S 2000a	Oct-99	B-55	TCE	16		0.11		145
TV-F&S 2000a	Nov-98	B-26	TCE	15		0.11		136
TV-F&S 2000a	Oct-99	B-9	TCE	15		0.11		136
TV-F&S 2001a	Jul-00	B-57	TCE	15	J	0.11		136
Hart Crowser 1997	Dec-96	B-26	TCE	14		0.11		127
TV-F&S 2000a	Jul-99	B-64	TCE	14		0.11		127
Hart Crowser 1990b	1990	B-7	TCE	13		0.11		118
Hart Crowser 1997	Dec-96	B-9	TCE	13		0.11		118
TV-F&S 2000a	Oct-99	B-23	TCE	13		0.11		118
TV-F&S 2000a	Oct-99	B-14	TCE	13		0.11		118
TV-F&S 2000a	Nov-98	B-9	TCE	12		0.11		109
TV-F&S 2001a	Jul-00	B-53	TCE	12	J	0.11		109
TV-F&S 2001a	Jul-00	B-56	TCE	12	J	0.11		109
Hart Crowser 1992b	May-92	B-5	TCE	11		0.11		100
Hart Crowser 1992b	May-92	B-5 (DUP)	TCE	11		0.11		100
Hart Crowser 1997	Dec-96	B-34	TCE	10		0.11		91
TV-F&S 2000a	Feb-99	B-57	TCE	10		0.11		91
TV-F&S 2000a	Oct-99	B-26	TCE	9.8		0.11		89

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	**Jul-99**	**B-59**	**TCE**	**8.4**		**0.11**		**76**
TV-F&S 2000a	**Dec-98**	**B-23**	**TCE**	**7.96**		**0.11**		**72**
Hart Crowser 1993a	**Sep-92**	**B-25**	**TCE**	**7**		**0.11**		**64**
TV-F&S 2001a	**Jul-00**	**AGI-2**	**TCE**	**7**		**0.11**		**64**
TV-F&S 2000a	**Oct-98**	**B-34**	**TCE**	**6.8**		**0.11**		**62**
Hart Crowser 1990b	**1990**	**B-8**	**TCE**	**5.7**		**0.11**		**52**
TV-F&S 2000a	**Oct-99**	**B-34**	**TCE**	**5.7**		**0.11**		**52**
TV-F&S 2000a	**Oct-99**	**B-38**	**TCE**	**5.2**		**0.11**		**47**
Hart Crowser 1993a	**Sep-92**	**B-24**	**TCE**	**5**		**0.11**		**45**
Hart Crowser 1997	**Oct-95**	**B-35**	**TCE**	**5**		**0.11**		**45**
Hart Crowser 1992b	**May-92**	**B-23**	**TCE**	**5**		**0.11**		**45**
Hart Crowser 1992b	**May-92**	**B-23 (DUP)**	**TCE**	**5**		**0.11**		**45**
Hart Crowser 1990b	**1990**	**B-11**	**TCE**	**3.2**		**0.11**		**29**
Hart Crowser 1997	**Oct-95**	**B-36**	**TCE**	**3**		**0.11**		**27**
Hart Crowser 1992b	**May-92**	**B-27**	**TCE**	**3**		**0.11**		**27**
Hart Crowser 1992b	**May-92**	**B-28**	**TCE**	**3**		**0.11**		**27**
TV-F&S 2000a	**Oct-99**	**B-28**	**TCE**	**2.6**		**0.11**		**24**
Hart Crowser 1992b	**May-92**	**B-25**	**TCE**	**2**		**0.11**		**18**
Hart Crowser 1990b	**1990**	**B-10**	**TCE**	**1.3**		**0.11**		**12**
Hart Crowser 1993a	Aug-93	B-33A	TCE	1		0.11		9.1
TV-F&S 2000a	Feb-99	B-28	TCE	1.0		0.11		9.1
TV-F&S 2001a	Jul-00	NW-6	TCE	1		0.11		9.1
TV-F&S 2001a	Jul-00	NW-12	TCE	1		0.11		9.1
TV-F&S 2001a	Jul-00	B-28	TCE	1	J	0.11		9.1
Hart Crowser 1990b	1990	B-10A	TCE	0.88		0.11		8.0
Hart Crowser 1990a	May-89	B-1	TCE	0.140		0.11		1.3
Hart Crowser 1990b	1990	B-14	TCE	0.13		0.11		1.2
Hart Crowser 1990b	1990	B-1	TCE	0.120		0.11		1.1
Hart Crowser 1990b	1990	B-9	TCE	0.072		0.11		0.7
Hart Crowser 1990b	1990	B-5	TCE	0.045		0.11		0.4
Hart Crowser 1990b	1990	B-9	TCE	0.025		0.11		0.2
Hart Crowser 1990b	1990	B-5	TCE	0.003		0.11		0.0
Hart Crowser 1992b	May-92	B-31	Tetrachlorophenols (total)	600				
Hart Crowser 1997	Dec-96	B-39	Tetrachlorophenols (total)	180	J			

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1997	Dec-96	B-31	Tetrachlorophenols (total)	47				
Hart Crowser 1997	Dec-96	B-10A	Tetrachlorophenols (total)	4.5				
Hart Crowser 1997	Dec-96	B-20	Tetrachlorophenols (total)	4.4				
Hart Crowser 1992b	May-92	B-10A	Tetrachlorophenols (total)	0.74				
Ecology 1993c	**Jul-93**	**B-27**	**Toluene**	**76,000**		**640**		**119**
Ecology 1993b	**Jun-93**	**278092**	**Toluene**	**48,000**		**640**		**75**
Ecology 1993b	**Jun-93**	**278091**	**Toluene**	**38,000**		**640**		**59**
Hart Crowser 1992b	**May-92**	**B-30**	**Toluene**	**36,000**		**640**		**56**
Hart Crowser 1992b	**May-92**	**B-31**	**Toluene**	**33,000**		**640**		**52**
TV-F&S 2000a	**Nov-98**	**B-49**	**Toluene**	**27,000**		**640**		**42**
Ecology 1993c	**Jul-93**	**B-49**	**Toluene**	**26,000**		**640**		**41**
TV-F&S 2000a	**Oct-99**	**B-47**	**Toluene**	**23,000**		**640**		**36**
TV-F&S 2000a	**Oct-99**	**B-47 (DUP)**	**Toluene**	**23,000**		**640**		**36**
TV-F&S 2000a	**Oct-99**	**B-49**	**Toluene**	**13,000**		**640**		**20**
Hart Crowser 1997	**Dec-96**	**B-31**	**Toluene**	**12,000**		**640**		**19**
Hart Crowser 1997	**Dec-96**	**B-44**	**Toluene**	**11,000**		**640**		**17**
Hart Crowser 1997	**Dec-96**	**B-39**	**Toluene**	**9,100**		**640**		**14**
TV-F&S 2000a	**Oct-98**	**B-20**	**Toluene**	**7,200**		**640**		**11**
Hart Crowser 1992b	**May-92**	**B-15**	**Toluene**	**6,700**		**640**		**10**
TV-F&S 2000a	**Oct-98**	**B-44**	**Toluene**	**6,500**		**640**		**10**
TV-F&S 2000a	Nov-98	B-42	Toluene	6,100		640		9.5
Hart Crowser 1992b	May-92	B-11	Toluene	5,800		640		9.1
TV-F&S 2000a	Oct-99	B-42	Toluene	4,700		640		7.3
Hart Crowser 1997	Dec-96	B-35	Toluene	3,900		640		6.1
TV-F&S 2000a	Oct-98	B-21	Toluene	3,900		640		6.1
Ecology 1993c	Jul-93	B-50	Toluene	3,700	J	640		5.8
TV-F&S 2000a	Nov-98	B-12	Toluene	3,700		640		5.8
Ecology 1993c	Jul-93	B-48	Toluene	3,100	J	640		4.8
Ecology 1993c	Jul-93	B-48 (DUP)	Toluene	3,100	J	640		4.8
Hart Crowser 1992b	May-92	B-21	Toluene	2,800		640		4.4
Ecology 1993b	Jun-93	278094 (DUP)	Toluene	2,700	J	640		4.2
TV-F&S 2000a	Oct-98	B-35	Toluene	2,400		640		3.8
TV-F&S 2000a	Oct-99	B-44	Toluene	2,400		640		3.8
Ecology 1993b	Jun-93	278094	Toluene	2,300		640		3.6

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Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1997	Dec-96	B-20	Toluene	2,100		640		3.3
TV-F&S 2000a	Oct-99	B-35	Toluene	1,700		640		2.7
Hart Crowser 1992b	May-92	B-10A	Toluene	1,700		640		2.7
TV-F&S 2000a	Nov-98	B-39	Toluene	1,500		640		2.3
Hart Crowser 1997	Dec-96	B-21	Toluene	1,300		640		2.0
Ecology 1993b	Jun-93	278093	Toluene	1,200		640		1.9
TV-F&S 2000a	Nov-99	B-12	Toluene	1,000		640		1.6
Hart Crowser 1992b	May-92	B-16	Toluene	960		640		1.5
TV-F&S 2000a	Oct-99	B-21	Toluene	690		640		1.1
TV-F&S 2000a	Nov-98	B-45 BAL	Toluene	670		640		1.0
Hart Crowser 1992b	May-92	B-29	Toluene	630		640		0.98
Hart Crowser 1997	Dec-96	B-10A	Toluene	550		640		0.9
TV-F&S 2000a	Nov-98	B-46 BAL	Toluene	540		640		0.8
Hart Crowser 1992b	May-92	B-20	Toluene	470		640		0.7
Hart Crowser 1997	Dec-96	B-45	Toluene	440		640		0.7
TV-F&S 2000a	Nov-98	B-46	Toluene	330		640		0.5
TV-F&S 2000a	Nov-98	B-45	Toluene	320		640		0.5
TV-F&S 2000a	Nov-98	B-52	Toluene	310		640		0.5
TV-F&S 2000a	Jul-99	B-63 (DUP)	Toluene	260		640		0.4
TV-F&S 2000a	Jul-99	B-63	Toluene	250		640		0.4
TV-F&S 2000a	Oct-99	B-45	Toluene	250		640		0.4
TV-F&S 2000a	Oct-99	B-45 (DUP)	Toluene	250		640		0.4
TV-F&S 2000a	Nov-99	B-31	Toluene	210		640		0.3
TV-F&S 2000a	Nov-99	B-11	Toluene	200		640		0.3
TV-F&S 2000a	Nov-98	B-52 (DUP)	Toluene	190		640		0.3
Hart Crowser 1992b	May-92	B-18	Toluene	150		640		0.2
TV-F&S 2000a	Oct-99	B-52	Toluene	110		640		0.2
TV-F&S 2000a	Oct-99	B-10A	Toluene	110		640		0.2
TV-F&S 2000a	Jul-99	B-65	Toluene	98		640		0.2
ATI 1991b	Sep-91	B-16	Toluene	90		640		0.1
Hart Crowser 1992b	May-92	B-8	Toluene	74		640		0.1
Hart Crowser 1997	Dec-96	B-33A	Toluene	43	J	640		0.1
Hart Crowser 1990b	1990	B-8	Toluene	38		640		0.1
Hart Crowser 1997	Dec-96	B-8	Toluene	26		640		0.0

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-6	Toluene	24		640		0.0
Hart Crowser 1990b	1990	B-7	Toluene	21		640		0.0
Hart Crowser 1992b	May-92	B-27	Toluene	19		640		0.0
Hart Crowser 1992b	May-92	B-9	Toluene	14		640		0.0
ATI 1991b	Sep-91	B-17	Toluene	13		640		0.0
Hart Crowser 1992b	May-92	B-17	Toluene	12		640		0.0
TV-F&S 2000a	Oct-98	B-36 (DUP)	Toluene	11		640		0.0
TV-F&S 2000a	Oct-99	B-38	Toluene	11		640		0.0
TV-F&S 2000a	Oct-98	B-36	Toluene	10		640		0.0
Hart Crowser 1992b	May-92	B-25	Toluene	10		640		0.0
Hart Crowser 1992b	May-92	B-72	Toluene	10		640		0.0
Hart Crowser 1992b	May-92	B-19	Toluene	9		640		0.0
Hart Crowser 1992b	May-92	B-24	Toluene	8		640		0.0
TV-F&S 2000a	Nov-98	B-18	Toluene	5.3		640		0.0
Hart Crowser 1992b	May-92	B-23	Toluene	5		640		0.0
Hart Crowser 1990b	1990	B-11	Toluene	4.6		640		0.0
Hart Crowser 1992b	May-92	B-23 (DUP)	Toluene	4		640		0.0
TV-F&S 2000a	Oct-98	B-34	Toluene	3.5		640		0.0
Hart Crowser 1990b	1990	B-11	Toluene	2.6		640		0.0
TV-F&S 2000a	Oct-98	B-19	Toluene	1.9		640		0.0
Hart Crowser 1990b	1990	B-10A	Toluene	1.8		640		0.0
TV-F&S 2000a	Jul-99	TW-2	Toluene	1.4		640		0.0
TV-F&S 2000a	Oct-98	B-8	Toluene	1.3		640		0.0
Hart Crowser 1992b	May-92	B-5	Toluene	1		640		0.0
Hart Crowser 1992b	May-92	B-5 (DUP)	Toluene	1		640		0.0
Hart Crowser 1990b	1990	B-8	Toluene	0.300		640		0.0
Hart Crowser 1990b	1990	B-12	Toluene	0.220		640		0.0
Hart Crowser 1990b	1990	B-10	Toluene	0.140		640		0.0
Hart Crowser 1990b	1990	B-1	Toluene	0.013		640		0.0
Hart Crowser 1990b	1990	B-7	Total Hydrocarbons (Light)	270		30		9.0
Hart Crowser 1990b	1990	B-12	Total Hydrocarbons (Light)	230		30		7.7
Hart Crowser 1990b	1990	B-12	Total Hydrocarbons (Light)	75		30		2.5
Hart Crowser 1990b	1990	B-11	Total Hydrocarbons (Light)	17		30		0.6
TV-F&S 2000a	Oct-99	B-58	trans-1,2-DCE	680		160		4.3

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Nov-98	B-46 BAL	trans-1,2-DCE	590		160		3.7
TV-F&S 2000a	Oct-98	B-21	trans-1,2-DCE	530		160		3.3
TV-F&S 2000a	Nov-98	B-46	trans-1,2-DCE	490		160		3.1
TV-F&S 2000a	Oct-98	B-20	trans-1,2-DCE	470		160		2.9
TV-F&S 2000a	Oct-98	B-44	trans-1,2-DCE	440		160		2.8
TV-F&S 2000a	Nov-98	B-12	trans-1,2-DCE	420		160		2.6
TV-F&S 2000a	Oct-99	B-65	trans-1,2-DCE	360	J	160		2.3
TV-F&S 2000a	Jul-99	B-65	trans-1,2-DCE	340		160		2.1
TV-F&S 2000a	Oct-99	B-58 (DUP)	trans-1,2-DCE	320		160		2.0
TV-F&S 2000a	Oct-98	B-33A	trans-1,2-DCE	300		160		1.9
TV-F&S 2000a	Jul-99	B-58	trans-1,2-DCE	290		160		1.8
TV-F&S 2000a	Nov-98	B-45	trans-1,2-DCE	270		160		1.7
TV-F&S 2000a	Nov-98	B-49	trans-1,2-DCE	270		160		1.7
TV-F&S 2000a	Nov-98	B-45 BAL	trans-1,2-DCE	220		160		1.4
TV-F&S 2000a	Jul-99	B-61	trans-1,2-DCE	180		160		1.1
TV-F&S 2000a	Oct-99	B-45 (DUP)	trans-1,2-DCE	170		160		1.1
TV-F&S 2000a	Oct-99	B-52	trans-1,2-DCE	140		160		0.9
TV-F&S 2000a	Oct-99	B-45	trans-1,2-DCE	140		160		0.9
TV-F&S 2000a	Nov-99	B-11	trans-1,2-DCE	140		160		0.9
TV-F&S 2000a	Nov-98	B-42	trans-1,2-DCE	130		160		0.8
TV-F&S 2000a	Nov-98	B-52	trans-1,2-DCE	120		160		0.8
TV-F&S 2000a	Oct-99	B-18	trans-1,2-DCE	120		160		0.8
TV-F&S 2000a	Oct-99	B-33A	trans-1,2-DCE	100		160		0.6
TV-F&S 2000a	Jul-99	B-63	trans-1,2-DCE	37		160		0.2
TV-F&S 2000a	Jul-99	B-63 (DUP)	trans-1,2-DCE	35		160		0.2
TV-F&S 2000a	Nov-98	B-18	trans-1,2-DCE	12		160		0.1
TV-F&S 2000a	Jul-99	TW-2	trans-1,2-DCE	12		160		0.1
TV-F&S 2000a	Jul-99	TW-3 (DUP)	trans-1,2-DCE	11		160		0.1
TV-F&S 2000a	Jul-99	TW-3	trans-1,2-DCE	8.9		160		0.1
TV-F&S 2000a	Oct-99	B-16	trans-1,2-DCE	8.4		160		0.1
TV-F&S 2000a	Oct-98	B-8	trans-1,2-DCE	5.8		160		0.0
TV-F&S 2000a	Jul-99	TW-5	trans-1,2-DCE	5.6		160		0.0
TV-F&S 2000a	Dec-98	B-22	trans-1,2-DCE	3.35		160		0.0
TV-F&S 2000a	Oct-99	B-36	trans-1,2-DCE	3.2		160		0.0

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-99	B-13	trans-1,2-DCE	1.7	J	160		0.0
TV-F&S 2000a	Jul-99	TW-1	trans-1,2-DCE	1.5		160		0.0
TV-F&S 2000a	Nov-98	B-26	trans-1,2-DCE	1		160		0.0
Hart Crowser 1990b	1990	B-8	trans-1,2-DCE	0.003		160		0.0
Hart Crowser 1990b	1990	B-8	Trichloroethane	3.3				
Hart Crowser 1990b	1990	B-5	Trichloroethane	0.027				
Hart Crowser 1990b	1990	B-6	Trichlorofluoromethane	0.003		2,400		0.0
TV-F&S 2000a	**Oct-99**	**B-33A (DUP)**	**Vinyl Chloride**	**25,000**		**0.029**		**862,069**
Hart Crowser 1992b	**May-92**	**B-21**	**Vinyl Chloride**	**25,000**		**0.029**		**862,069**
TV-F&S 2000a	**Oct-99**	**B-33A**	**Vinyl Chloride**	**23,000**		**0.029**		**793,103**
Hart Crowser 1993a	**Sep-92**	**B-35**	**Vinyl Chloride**	**19,000**		**0.029**		**655,172**
Hart Crowser 1997	**Oct-95**	**B-21**	**Vinyl Chloride**	**19,000**		**0.029**		**655,172**
Hart Crowser 1997	**Dec-96**	**B-21**	**Vinyl Chloride**	**18,000**		**0.029**		**620,690**
TV-F&S 2000a	**Oct-98**	**B-20**	**Vinyl Chloride**	**18,000**		**0.029**		**620,690**
TV-F&S 2000a	**Oct-99**	**B-21**	**Vinyl Chloride**	**18,000**		**0.029**		**620,690**
Hart Crowser 1992b	**May-92**	**B-21**	**Vinyl Chloride**	**18,000**		**0.029**		**620,690**
TV-F&S 2000a	**Oct-99**	**B-65**	**Vinyl Chloride**	**15,000**	**J**	**0.029**		**517,241**
Hart Crowser 1993a	**Sep-92**	**B-20**	**Vinyl Chloride**	**14,000**		**0.029**		**482,759**
Hart Crowser 1993a	**Aug-93**	**B-21**	**Vinyl Chloride**	**14,000**		**0.029**		**482,759**
Hart Crowser 1993a	**Sep-92**	**B-21**	**Vinyl Chloride**	**13,000**		**0.029**		**448,276**
TV-F&S 2000a	**Oct-98**	**B-21**	**Vinyl Chloride**	**11,000**		**0.029**		**379,310**
TV-F&S 2000a	**Jul-99**	**B-65**	**Vinyl Chloride**	**11,000**		**0.029**		**379,310**
Hart Crowser 1997	**Dec-96**	**B-35**	**Vinyl Chloride**	**8,100**		**0.029**		**279,310**
Hart Crowser 1997	**Dec-96**	**B-33A**	**Vinyl Chloride**	**7,700**		**0.029**		**265,517**
Hart Crowser 1993a	**Sep-92**	**B-36**	**Vinyl Chloride**	**7,300**		**0.029**		**251,724**
TV-F&S 2000a	**Oct-98**	**B-33A**	**Vinyl Chloride**	**7,300**		**0.029**		**251,724**
Hart Crowser 1992b	**May-92**	**B-29**	**Vinyl Chloride**	**7,100**		**0.029**		**244,828**
Hart Crowser 1997	**Oct-95**	**B-20**	**Vinyl Chloride**	**6,800**	**J**	**0.029**		**234,483**
TV-F&S 2000a	**Oct-99**	**B-18**	**Vinyl Chloride**	**6,100**		**0.029**		**210,345**
TV-F&S 2000a	**Oct-99**	**B-63**	**Vinyl Chloride**	**5,800**		**0.029**		**200,000**
TV-F&S 2000a	**Nov-98**	**B-12**	**Vinyl Chloride**	**5,500**		**0.029**		**189,655**
Hart Crowser 1992b	**May-92**	**B-29**	**Vinyl Chloride**	**5,200**		**0.029**		**179,310**
Hart Crowser 1997	**Dec-96**	**B-20**	**Vinyl Chloride**	**3,700**		**0.029**		**127,586**
Hart Crowser 1997	**Oct-95**	**B-33A**	**Vinyl Chloride**	**3,400**		**0.029**		**117,241**

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Oct-98	B-35	Vinyl Chloride	3,300		0.029		113,793
TV-F&S 2000a	Oct-99	B-52	Vinyl Chloride	3,100		0.029		106,897
TV-F&S 2000a	Oct-99	B-58	Vinyl Chloride	3,100		0.029		106,897
TV-F&S 2000a	Oct-98	B-44	Vinyl Chloride	3,000		0.029		103,448
TV-F&S 2000a	Oct-99	B-58 (DUP)	Vinyl Chloride	2,900		0.029		100,000
TV-F&S 2000a	Nov-98	B-52	Vinyl Chloride	2,800		0.029		96,552
Hart Crowser 1993a	Sep-92	B-33A	Vinyl Chloride	2,700		0.029		93,103
TV-F&S 2000a	Oct-99	B-61	Vinyl Chloride	2,700		0.029		93,103
TV-F&S 2000a	Nov-98	B-46 BAL	Vinyl Chloride	2,600		0.029		89,655
TV-F&S 2000a	Jul-99	B-63	Vinyl Chloride	2,500		0.029		86,207
TV-F&S 2000a	Jul-99	B-63 (DUP)	Vinyl Chloride	2,400		0.029		82,759
TV-F&S 2000a	Nov-98	B-52 (DUP)	Vinyl Chloride	2,300		0.029		79,310
TV-F&S 2000a	Oct-99	B-35	Vinyl Chloride	2,300		0.029		79,310
Hart Crowser 1993a	Jul-93	B-50	Vinyl Chloride	2,100		0.029		72,414
TV-F&S 2000a	Oct-99	B-39	Vinyl Chloride	1,900	J	0.029		65,517
TV-F&S 2000a	Nov-99	B-11	Vinyl Chloride	1,900		0.029		65,517
Hart Crowser 1993a	Aug-93	B-10A	Vinyl Chloride	1,600		0.029		55,172
TV-F&S 2000a	Nov-98	B-46	Vinyl Chloride	1,600		0.029		55,172
Ecology 1993b	Jun-93	278092	Vinyl Chloride	1,500		0.029		51,724
TV-F&S 2000a	Nov-98	B-39	Vinyl Chloride	1,400		0.029		48,276
TV-F&S 2000a	Oct-99	B-46	Vinyl Chloride	1,400		0.029		48,276
Hart Crowser 1993a	Sep-92	B-10A	Vinyl Chloride	1,300		0.029		44,828
Hart Crowser 1993a	Jul-93	B-47	Vinyl Chloride	1,300		0.029		44,828
Hart Crowser 1997	Oct-95	B-44	Vinyl Chloride	1,300		0.029		44,828
Hart Crowser 1993a	Jul-93	B-47 (DUP)	Vinyl Chloride	1,200		0.029		41,379
Hart Crowser 1997	Dec-96	B-44	Vinyl Chloride	1,200		0.029		41,379
TV-F&S 2000a	Nov-98	B-49	Vinyl Chloride	1,200		0.029		41,379
Hart Crowser 1992b	May-92	B-18	Vinyl Chloride	1,200		0.029		41,379
Hart Crowser 1993a	Jul-93	B-48	Vinyl Chloride	1,100		0.029		37,931
Hart Crowser 1992b	May-92	B-20	Vinyl Chloride	1,100		0.029		37,931
Hart Crowser 1993a	Aug-93	B-52 (DUP)	Vinyl Chloride	1,000		0.029		34,483
TV-F&S 2000a	Oct-99	B-62	Vinyl Chloride	1,000		0.029		34,483
TV-F&S 2000a	Oct-99	B-10A	Vinyl Chloride	1,000		0.029		34,483
TV-F&S 2000a	Jul-99	B-61	Vinyl Chloride	970		0.029		33,448

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1993a	Aug-93	B-52	Vinyl Chloride	960		0.029		33,103
Hart Crowser 1992b	May-92	B-16	Vinyl Chloride	920		0.029		31,724
ATI 1991b	Sep-91	B-16	Vinyl Chloride	880		0.029		30,345
Hart Crowser 1997	Dec-96	B-39	Vinyl Chloride	810		0.029		27,931
Hart Crowser 1993a	Aug-93	B-35	Vinyl Chloride	790		0.029		27,241
Hart Crowser 1993a	Aug-93	B-51	Vinyl Chloride	780		0.029		26,897
Hart Crowser 1992b	May-92	B-20	Vinyl Chloride	760		0.029		26,207
TV-F&S 2000a	Nov-99	B-12	Vinyl Chloride	750		0.029		25,862
Hart Crowser 1992b	May-92	B-18	Vinyl Chloride	700		0.029		24,138
TV-F&S 2000a	Nov-98	B-42	Vinyl Chloride	690		0.029		23,793
Hart Crowser 1992b	May-92	B-16	Vinyl Chloride	690		0.029		23,793
Hart Crowser 1997	Dec-96	B-10A	Vinyl Chloride	630		0.029		21,724
Hart Crowser 1992b	May-92	B-10A (DUP)	Vinyl Chloride	620	J	0.029		21,379
Hart Crowser 1993a	Aug-93	B-36	Vinyl Chloride	590		0.029		20,345
Hart Crowser 1992b	May-92	B-10A	Vinyl Chloride	540		0.029		18,621
Hart Crowser 1992b	May-92	B-10A	Vinyl Chloride	510	J	0.029		17,586
TV-F&S 2000a	Oct-99	B-44	Vinyl Chloride	490		0.029		16,897
Hart Crowser 1993a	Sep-92	B-15	Vinyl Chloride	450		0.029		15,517
TV-F&S 2000a	Nov-98	B-10A	Vinyl Chloride	440		0.029		15,172
TV-F&S 2000a	Nov-98	B-18	Vinyl Chloride	430		0.029		14,828
Ecology 1993b	Jun-93	278091	Vinyl Chloride	400	J	0.029		13,793
Hart Crowser 1993a	Aug-93	B-20	Vinyl Chloride	340		0.029		11,724
TV-F&S 2000a	Nov-98	B-45 BAL	Vinyl Chloride	340		0.029		11,724
TV-F&S 2000a	Oct-99	B-16	Vinyl Chloride	340		0.029		11,724
Hart Crowser 1992b	May-92	B-1	Vinyl Chloride	340		0.029		11,724
Hart Crowser 1993a	Aug-93	B-34	Vinyl Chloride	320		0.029		11,034
Hart Crowser 1993a	Sep-92	B-31	Vinyl Chloride	300		0.029		10,345
TV-F&S 2000a	Nov-98	B-45	Vinyl Chloride	290		0.029		10,000
Hart Crowser 1992b	May-92	B-15	Vinyl Chloride	280		0.029		9,655
TV-F&S 2000a	Oct-99	B-45	Vinyl Chloride	270		0.029		9,310
Hart Crowser 1993a	Sep-92	B-30	Vinyl Chloride	260		0.029		8,966
Hart Crowser 1993a	Aug-93	B-30	Vinyl Chloride	260		0.029		8,966
TV-F&S 2000a	Oct-99	B-45 (DUP)	Vinyl Chloride	230		0.029		7,931
Hart Crowser 1992b	May-92	B-30	Vinyl Chloride	230		0.029		7,931

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1997	Dec-96	B-45	Vinyl Chloride	220		0.029		7,586
TV-F&S 2000a	Jul-99	B-58	Vinyl Chloride	220		0.029		7,586
TV-F&S 2000a	Oct-99	B-36	Vinyl Chloride	210		0.029		7,241
Hart Crowser 1993a	Sep-92	B-34	Vinyl Chloride	200		0.029		6,897
TV-F&S 2000a	Jul-99	TW-2	Vinyl Chloride	200		0.029		6,897
Hart Crowser 1992b	May-92	B-30	Vinyl Chloride	200		0.029		6,897
Hart Crowser 1993a	Aug-93	B-31	Vinyl Chloride	190		0.029		6,552
Hart Crowser 1997	Dec-96	B-36	Vinyl Chloride	180		0.029		6,207
TV-F&S 2000a	Oct-99	B-59	Vinyl Chloride	180		0.029		6,207
Hart Crowser 1992b	May-92	B-31	Vinyl Chloride	150		0.029		5,172
Hart Crowser 1993a	Sep-92	B-8	Vinyl Chloride	130		0.029		4,483
Hart Crowser 1997	Oct-95	B-31	Vinyl Chloride	130		0.029		4,483
Hart Crowser 1997	Oct-95	B-10A	Vinyl Chloride	110		0.029		3,793
Hart Crowser 1997	Oct-95	B-45	Vinyl Chloride	96		0.029		3,310
TV-F&S 2000a	Jul-99	B-59	Vinyl Chloride	77		0.029		2,655
Hart Crowser 1993a	Aug-93	B-15	Vinyl Chloride	73		0.029		2,517
Hart Crowser 1992b	May-92	B-8	Vinyl Chloride	70		0.029		2,414
Hart Crowser 1992b	May-92	B-11	Vinyl Chloride	69		0.029		2,379
Hart Crowser 1992b	May-92	B-22	Vinyl Chloride	68		0.029		2,345
Hart Crowser 1992b	May-92	B-22	Vinyl Chloride	62		0.029		2,138
Ecology 1993b	Jun-93	278093	Vinyl Chloride	48		0.029		1,655
TV-F&S 2000a	Feb-99	B-22	Vinyl Chloride	44.0		0.029		1,517
TV-F&S 2000a	Oct-98	B-36	Vinyl Chloride	37		0.029		1,276
TV-F&S 2000a	Oct-98	B-36 (DUP)	Vinyl Chloride	37		0.029		1,276
TV-F&S 2000a	Jul-99	B-62 (DUP)	Vinyl Chloride	36		0.029		1,241
TV-F&S 2000a	Jul-99	B-62	Vinyl Chloride	35		0.029		1,207
TV-F&S 2000a	Jul-99	TW-1	Vinyl Chloride	31		0.029		1,069
Hart Crowser 1997	Oct-95	B-35	Vinyl Chloride	29		0.029		1,000
TV-F&S 2000a	Jul-99	TW-5	Vinyl Chloride	18		0.029		621
TV-F&S 2000a	Dec-98	B-22	Vinyl Chloride	17.4		0.029		600
ATI 1991b	Sep-91	B-17	Vinyl Chloride	16		0.029		552
Hart Crowser 1997	Dec-96	B-9	Vinyl Chloride	16		0.029		552
TV-F&S 2000a	Oct-99	B-9	Vinyl Chloride	14		0.029		483
TV-F&S 2000a	Jul-99	TW-3	Vinyl Chloride	12		0.029		414

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
TV-F&S 2000a	Nov-98	B-9	Vinyl Chloride	11		0.029		379
TV-F&S 2000a	Jul-99	TW-3 (DUP)	Vinyl Chloride	9.9		0.029		341
Hart Crowser 1993a	Sep-92	B-9	Vinyl Chloride	9		0.029		310
Hart Crowser 1993a	Aug-93	B-9	Vinyl Chloride	9		0.029		310
Hart Crowser 1993a	Aug-93	B-33A	Vinyl Chloride	8		0.029		276
Hart Crowser 1993a	Sep-92	B-27	Vinyl Chloride	6		0.029		207
Hart Crowser 1997	Oct-95	B-27	Vinyl Chloride	6		0.029		207
Hart Crowser 1992b	May-92	B-9	Vinyl Chloride	5.8		0.029		200
Hart Crowser 1992b	May-92	B-19	Vinyl Chloride	5.3	J	0.029		183
Hart Crowser 1993a	Aug-93	B-26	Vinyl Chloride	5		0.029		172
TV-F&S 2000a	Oct-98	B-19	Vinyl Chloride	5		0.029		172
TV-F&S 2000a	Oct-99	B-27	Vinyl Chloride	4.3		0.029		148
Hart Crowser 1992b	May-92	B-27	Vinyl Chloride	4		0.029		138
Hart Crowser 1992b	May-92	B-72	Vinyl Chloride	4		0.029		138
TV-F&S 2000a	Oct-98	B-34	Vinyl Chloride	3.7		0.029		128
TV-F&S 2000a	Jul-99	TW-6	Vinyl Chloride	3.4		0.029		117
TV-F&S 2000a	Oct-99	B-17	Vinyl Chloride	3.3		0.029		114
TV-F&S 2000a	Oct-99	B-55	Vinyl Chloride	3.2		0.029		110
Hart Crowser 1992b	May-92	B-72	Vinyl Chloride	3.1		0.029		107
Hart Crowser 1997	Dec-96	B-27	Vinyl Chloride	3		0.029		103
TV-F&S 2000a	Nov-98	B-27	Vinyl Chloride	3		0.029		103
Hart Crowser 1992b	May-92	B-6	Vinyl Chloride	3		0.029		103
TV-F&S 2000a	Oct-99	B-19	Vinyl Chloride	2.8		0.029		97
Hart Crowser 1992b	May-92	B-6	Vinyl Chloride	2.8		0.029		97
Hart Crowser 1992b	May-92	B-23	Vinyl Chloride	2.4		0.029		83
TV-F&S 2000a	Oct-99	B-6	Vinyl Chloride	2.3		0.029		79
TV-F&S 2000a	Oct-99	B-34	Vinyl Chloride	2.2		0.029		76
Hart Crowser 1992b	May-92	B-17	Vinyl Chloride	2.2		0.029		76
Hart Crowser 1997	Oct-95	B-36	Vinyl Chloride	2		0.029		69
Hart Crowser 1997	Dec-96	B-34	Vinyl Chloride	2		0.029		69
Hart Crowser 1992b	May-92	B-23 (DUP)	Vinyl Chloride	2		0.029		69
TV-F&S 2000a	Oct-98	B-8	Vinyl Chloride	1.5		0.029		52
Hart Crowser 1992b	May-92	B-24	Vinyl Chloride	0.5		0.029		17
Hart Crowser 1992b	May-92	B-26	Vinyl Chloride	0.2		0.029		6.9

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1990b	1990	B-10A	Vinyl Chloride	0.170		0.029		5.9
Hart Crowser 1990b	1990	B-9	Vinyl Chloride	0.051		0.029		1.8
Hart Crowser 1990b	1990	B-6	Vinyl Chloride	0.020		0.029		0.7
Hart Crowser 1990b	1990	B-8	Vinyl Chloride	0.010		0.029		0.3
TV-F&S 2000a	Nov-98	B-49	Xylenes (m&p)	4,900		1,000		4.9
TV-F&S 2000a	Oct-99	B-47 (DUP)	Xylenes (m&p)	3,800		1,000		3.8
TV-F&S 2000a	Oct-99	B-47	Xylenes (m&p)	3,600		1,000		3.6
TV-F&S 2000a	Nov-98	B-42	Xylenes (m&p)	2,100		1,000		2.1
TV-F&S 2000a	Oct-99	B-49	Xylenes (m&p)	2,000		1,000		2.0
TV-F&S 2000a	Oct-98	B-44	Xylenes (m&p)	1,300		1,000		1.3
TV-F&S 2000a	Oct-98	B-20	Xylenes (m&p)	1,100		1,000		1.1
TV-F&S 2000a	Nov-98	B-12	Xylenes (m&p)	1,100		1,000		1.1
TV-F&S 2000a	Oct-98	B-21	Xylenes (m&p)	870		1,000		0.9
TV-F&S 2000a	Oct-99	B-10A	Xylenes (m&p)	850		1,000		0.9
TV-F&S 2000a	Oct-99	B-44	Xylenes (m&p)	660		1,000		0.7
TV-F&S 2000a	Nov-98	B-46 BAL	Xylenes (m&p)	480		1,000		0.5
TV-F&S 2000a	Oct-98	B-35	Xylenes (m&p)	420		1,000		0.4
TV-F&S 2000a	Nov-98	B-52	Xylenes (m&p)	310		1,000		0.3
TV-F&S 2000a	Nov-98	B-46	Xylenes (m&p)	290		1,000		0.3
TV-F&S 2000a	Nov-98	B-52 (DUP)	Xylenes (m&p)	220		1,000		0.2
TV-F&S 2000a	Oct-99	B-35	Xylenes (m&p)	210		1,000		0.2
TV-F&S 2000a	Oct-99	B-52	Xylenes (m&p)	100		1,000		0.1
TV-F&S 2000a	Oct-99	B-38	Xylenes (m&p)	98		1,000		0.1
TV-F&S 2000a	Jul-99	B-63 (DUP)	Xylenes (m&p)	27		1,000		0.0
TV-F&S 2000a	Oct-98	B-36	Xylenes (m&p)	2.6		1,000		0.0
TV-F&S 2000a	Oct-98	B-36 (DUP)	Xylenes (m&p)	2.3		1,000		0.0
Ecology 1993b	Jun-93	278091	Xylenes (total)	6,900		1,000		6.9
Hart Crowser 1992b	May-92	B-15	Xylenes (total)	5,300		1,000		5.3
Hart Crowser 1992b	May-92	B-10A	Xylenes (total)	5,100		1,000		5.1
Hart Crowser 1997	Dec-96	B-10A	Xylenes (total)	4,600		1,000		4.6
Ecology 1993c	Jul-93	B-49	Xylenes (total)	4,300	J	1,000		4.3
Hart Crowser 1992b	May-92	B-30	Xylenes (total)	4,200		1,000		4.2
Hart Crowser 1997	Dec-96	B-31	Xylenes (total)	4,100		1,000		4.1
Hart Crowser 1997	Dec-96	B-44	Xylenes (total)	2,400		1,000		2.4

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-16	Xylenes (total)	1,800		1,000		1.8
Hart Crowser 1997	Dec-96	B-39	Xylenes (total)	1,700		1,000		1.7
Ecology 1993b	Jun-93	278094 (DUP)	Xylenes (total)	1,300	J	1,000		1.3
Hart Crowser 1992b	May-92	B-21	Xylenes (total)	1,200		1,000		1.2
Hart Crowser 1992b	May-92	B-31	Xylenes (total)	1,100		1,000		1.1
Ecology 1993b	Jun-93	278094	Xylenes (total)	1,000	J	1,000		1.0
Hart Crowser 1997	Dec-96	B-21	Xylenes (total)	740		1,000		0.7
Hart Crowser 1997	Dec-96	B-20	Xylenes (total)	490		1,000		0.5
Hart Crowser 1992b	May-92	B-29	Xylenes (total)	310		1,000		0.3
ATI 1991b	Sep-91	B-16	Xylenes (total)	220		1,000		0.2
Hart Crowser 1997	Dec-96	B-35	Xylenes (total)	210		1,000		0.2
Hart Crowser 1992b	May-92	B-20	Xylenes (total)	170		1,000		0.2
Hart Crowser 1992b	May-92	B-6	Xylenes (total)	100		1,000		0.1
Hart Crowser 1997	Dec-96	B-45	Xylenes (total)	67		1,000		0.1
Hart Crowser 1992b	May-92	B-27	Xylenes (total)	64		1,000		0.1
Hart Crowser 1992b	May-92	B-9	Xylenes (total)	45		1,000		0.0
Hart Crowser 1992b	May-92	B-17	Xylenes (total)	41		1,000		0.0
Hart Crowser 1992b	May-92	B-25	Xylenes (total)	40		1,000		0.0
Hart Crowser 1992b	May-92	B-72	Xylenes (total)	29		1,000		0.0
Hart Crowser 1992b	May-92	B-19	Xylenes (total)	27		1,000		0.0
Ecology 1993b	Jun-93	278093	Xylenes (total)	26		1,000		0.0
Hart Crowser 1992b	May-92	B-23	Xylenes (total)	21		1,000		0.0
Hart Crowser 1992b	May-92	B-24	Xylenes (total)	20		1,000		0.0
Hart Crowser 1990b	1990	B-7	Xylenes (total)	14		1,000		0.0
Hart Crowser 1992b	May-92	B-23 (DUP)	Xylenes (total)	14		1,000		0.0
Hart Crowser 1997	Dec-96	B-8	Xylenes (total)	13		1,000		0.0
TV-F&S 2000a	Jul-99	B-63	Xylenes (total)	11		1,000		0.0
Hart Crowser 1997	Dec-96	B-33A	Xylenes (total)	10	J	1,000		0.0
TV-F&S 2000a	Jul-99	B-58	Xylenes (total)	9		1,000		0.0
Hart Crowser 1990b	1990	B-10A	Xylenes (total)	5.6		1,000		0.0
Hart Crowser 1990b	1990	B-8	Xylenes (total)	4.3		1,000		0.0
ATI 1991b	Sep-91	B-17	Xylenes (total)	4		1,000		0.0
Hart Crowser 1992b	May-92	B-5	Xylenes (total)	4		1,000		0.0
Hart Crowser 1992b	May-92	B-5 (DUP)	Xylenes (total)	4		1,000		0.0

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1990b	1990	B-12	Xylenes (total)	1		1,000		0.0
Hart Crowser 1992b	May-92	B-22	Xylenes (total)	1		1,000		0.0
Hart Crowser 1990b	1990	B-10	Xylenes (total)	0.540		1,000		0.0
Hart Crowser 1990b	1990	B-11	Xylenes (total)	0.280		1,000		0.0
Hart Crowser 1990b	1990	B-8	Xylenes (total)	0.17		1,000		0.0
Hart Crowser 1990b	1990	B-11	Xylenes (total)	0.140		1,000		0.0
Hart Crowser 1990b	1990	B-1	Xylenes (total)	0.015		1,000		0.0
Hart Crowser 1990a	May-89	B-1	Xylenes (total)	0.010		1,000		0.0
Hart Crowser 1992b	May-92	B-15	Zinc (dissolved)	150		4,800	76	2.0
Hart Crowser 1992b	May-92	B-19	Zinc (dissolved)	54		4,800	76	0.7
Hart Crowser 1992b	May-92	B-25	Zinc (dissolved)	52		4,800	76	0.7
Hart Crowser 1992b	May-92	B-24	Zinc (dissolved)	48		4,800	76	0.6
Hart Crowser 1992b	May-92	B-11	Zinc (dissolved)	40		4,800	76	0.5
Hart Crowser 1992b	May-92	B-18	Zinc (dissolved)	38		4,800	76	0.5
Hart Crowser 1992b	May-92	B-14	Zinc (dissolved)	36		4,800	76	0.5
Hart Crowser 1992b	May-92	B-26	Zinc (dissolved)	36		4,800	76	0.5
Hart Crowser 1992b	May-92	B-6	Zinc (dissolved)	27		4,800	76	0.4
Hart Crowser 1992b	May-92	B-72	Zinc (dissolved)	27		4,800	76	0.4
Hart Crowser 1992b	May-92	B-16	Zinc (dissolved)	24		4,800	76	0.3
Hart Crowser 1992b	May-92	B-29	Zinc (dissolved)	24		4,800	76	0.3
Hart Crowser 1992b	May-92	B-27	Zinc (dissolved)	22		4,800	76	0.3
Hart Crowser 1992b	May-92	B-22	Zinc (dissolved)	21		4,800	76	0.3
Hart Crowser 1992b	May-92	B-28	Zinc (dissolved)	20		4,800	76	0.3
Hart Crowser 1992b	May-92	B-20	Zinc (dissolved)	17		4,800	76	0.2
Hart Crowser 1992b	May-92	B-30	Zinc (dissolved)	16		4,800	76	0.2
Hart Crowser 1992b	May-92	B-9	Zinc (dissolved)	16		4,800	76	0.2
Hart Crowser 1992b	May-92	B-13	Zinc (dissolved)	14		4,800	76	0.2
Hart Crowser 1992b	May-92	B-23	Zinc (dissolved)	13		4,800	76	0.2
Hart Crowser 1992b	May-92	B-21	Zinc (dissolved)	12		4,800	76	0.2
Hart Crowser 1992b	May-92	B-17	Zinc (dissolved)	11		4,800	76	0.1
Hart Crowser 1992b	May-92	B-5	Zinc (dissolved)	11		4,800	76	0.1
Hart Crowser 1992b	May-92	B-31	Zinc (dissolved)	10		4,800	76	0.1
Hart Crowser 1992b	**May-92**	**B-15**	**Zinc (total)**	**1,300**		**4,800**	**76**	**17**
Hart Crowser 1992b	May-92	B-31	Zinc (total)	320		4,800	76	4.2

Table E-2
Chemicals Detected in Groundwater
Fox Avenue Building (Former Great Western Chemical)

Source	Sample Date	Sample Location	Chemical	GW Conc'n (ug/L)		MTCA Cleanup Level[a] (ug/L)	GW-to-Sediment Screening Level (Based on CSL)[b] (ug/L)	Exceedance Factor
Hart Crowser 1992b	May-92	B-24	Zinc (total)	280		4,800	76	3.7
Hart Crowser 1992b	May-92	B-16	Zinc (total)	260		4,800	76	3.4
Hart Crowser 1992b	May-92	B-22	Zinc (total)	250		4,800	76	3.3
Hart Crowser 1992b	May-92	B-23	Zinc (total)	250		4,800	76	3.3
Hart Crowser 1992b	May-92	B-72	Zinc (total)	250		4,800	76	3.3
Hart Crowser 1992b	May-92	B-14	Zinc (total)	210		4,800	76	2.8
Hart Crowser 1992b	May-92	B-11	Zinc (total)	190		4,800	76	2.5
Hart Crowser 1992b	May-92	B-26	Zinc (total)	180		4,800	76	2.4
Hart Crowser 1992b	May-92	B-19	Zinc (total)	140		4,800	76	1.8
Hart Crowser 1992b	May-92	B-18	Zinc (total)	120		4,800	76	1.6
Hart Crowser 1992b	May-92	B-9	Zinc (total)	120		4,800	76	1.6
Hart Crowser 1992b	May-92	B-29	Zinc (total)	96		4,800	76	1.3
Hart Crowser 1992b	May-92	B-27	Zinc (total)	79		4,800	76	1.0
Hart Crowser 1992b	May-92	B-1	Zinc (total)	69		4,800	76	0.9
Hart Crowser 1992b	May-92	B-5	Zinc (total)	58		4,800	76	0.8
Hart Crowser 1992b	May-92	B-30	Zinc (total)	50		4,800	76	0.7
Hart Crowser 1992b	May-92	B-25	Zinc (total)	49		4,800	76	0.6
Hart Crowser 1992b	May-92	B-8	Zinc (total)	45		4,800	76	0.6
Hart Crowser 1992b	May-92	B-5 (DUP)	Zinc (total)	32		4,800	76	0.4
Hart Crowser 1992b	May-92	B-17	Zinc (total)	31		4,800	76	0.4
Hart Crowser 1992b	May-92	B-20	Zinc (total)	26		4,800	76	0.3
Hart Crowser 1992b	May-92	B-6	Zinc (total)	21		4,800	76	0.3
Hart Crowser 1992b	May-92	B-21	Zinc (total)	19		4,800	76	0.3
Hart Crowser 1992b	May-92	B-13	Zinc (total)	17		4,800	76	0.2
Hart Crowser 1992b	May-92	B-28	Zinc (total)	17		4,800	76	0.2
Hart Crowser 1992b	May-92	B-23 (DUP)	Zinc (total)	15		4,800	76	0.2

a - The lower of MTCA Method A or B cleanup levels was selected, from CLARC database
b - From: SAIC 2006

DW - dry weight
CSL - Contaminant Screening Level from Washington Sediment Management Standards
NA - Not available

Notes:
(1) Table presents detected chemicals only.
(2) Exceedance factors are the ratio of the detected concentration to the MTCA Cleanup Level or Soil-to-Sediment Screening Value, whichever is lower.
(3) Chemicals with exceedance factors greater than 10 are shown in **Bold**.

Table E-3
Chemicals Detected in Seep Samples
Fox Avenue Building (Former Great Western Chemical)

Source	Date Sampled	Sample Location	Chemical	Conc'n (ug/L)		Marine Chronic WQS	Marine Acute WQS	Chronic WQS Exceedance Factor	GW-to-Sediment Screening Level (Based on CSL)[a]	Exceedance Factor
TV-F&S 2000b	Apr-98	S-2	1,1-DCA	88						
TV-F&S 2000b	Apr-98	S-2 (DUP)	1,1-DCA	87						
TV-F&S 2000b	Dec-98	S-13	1,1-DCA	62						
TV-F&S 2000b	Nov-98	S-13	1,1-DCA	53						
TV-F&S 2000b	Dec-98	S-14	1,1-DCA	18						
TV-F&S 2000b	May-98	S-2 (DUP)	1,1-DCA	6.2						
TV-F&S 2000b	May-98	S-2	1,1-DCA	5.3						
TV-F&S 2000b	Nov-98	S-1	1,1-DCA	4.1						
TV-F&S 2000b	Apr-98	S-1	1,1-DCA	3.4						
TV-F&S 2000b	Dec-98	S-1	1,1-DCA	2.3						
Hart Crowser 1994a	Apr-94	Seep-1	1,1-DCA	2						
Hart Crowser 1994a	Apr-94	Seep-4	1,1-DCA	2						
Hart Crowser 1994a	Apr-94	Seep-8	1,1-DCA	2						
TV-F&S 2000b	May-98	S-1	1,1-DCA	1.9						
TV-F&S 2000b	Apr-98	S-4	1,1-DCA	1.5						
Hart Crowser 1994a	Apr-94	Seep-2	1,1-DCA	1						
Hart Crowser 1994b	Jul-94	Seep-1	1,1-DCA	1						
Hart Crowser 1994b	Jul-94	Seep-8	1,1-DCA	1						
Hart Crowser 1997	Dec-96	Seep-2	1,1-DCA	1						
TV-F&S 2000b	Dec-98	S-13	1,1-DCE	27						
TV-F&S 2000b	Apr-98	S-2 (DUP)	1,1-DCE	20						
TV-F&S 2000b	Apr-98	S-2	1,1-DCE	19						
TV-F&S 2000b	Nov-98	S-13	1,1-DCE	18						
TV-F&S 2000b	May-98	S-2 (DUP)	1,1-DCE	2						
TV-F&S 2000b	May-98	S-2	1,1-DCE	1.8						
Hart Crowser 1994a	Apr-94	Seep-4	1,1-DCE	1						
TV-F&S 2000b	Apr-98	S-1	1,1-DCE	1						
TV-F&S 2000b	Dec-98	S-1	1,2,4-Trimethylbenzene	4.1						
TV-F&S 2000b	Dec-98	S-14	1,2-DCA	27						
TV-F&S 2000b	Apr-98	S-2	1,2-DCA	9.5						
TV-F&S 2000b	Apr-98	S-2 (DUP)	1,2-DCA	8.9						
TV-F&S 2000b	Nov-98	S-13	1,2-DCA	8.5						
Hart Crowser 1997	Dec-96	Seep-2-Alt	1,2-DCA	8						
Hart Crowser 1997	Dec-96	Seep-8	1,2-DCA	8						
Hart Crowser 1994b	Jul-94	Seep-9	1,2-DCA	2						
TV-F&S 2000b	May-98	S-2	1,2-DCA	1.5						
Hart Crowser 1997	Oct-95	Seep-2	1,2-DCA	1						
Hart Crowser 1997	Dec-96	Seep-2	1,2-DCE (total)	310						

Table E-3
Chemicals Detected in Seep Samples
Fox Avenue Building (Former Great Western Chemical)

Source	Date Sampled	Sample Location	Chemical	Conc'n (ug/L)		Marine Chronic WQS	Marine Acute WQS	Chronic WQS Exceedance Factor	GW-to-Sediment Screening Level (Based on CSL)[a]	Exceedance Factor
Hart Crowser 1994a	Apr-94	Seep-2	1,2-DCE (total)	110						
Hart Crowser 1994a	Apr-94	Seep-8	1,2-DCE (total)	110						
Hart Crowser 1994b	Jul-94	Seep-8	1,2-DCE (total)	110						
Hart Crowser 1994b	Jul-94	Seep-2-3	1,2-DCE (total)	73						
Hart Crowser 1994b	Jul-94	Seep-2-2	1,2-DCE (total)	70						
Hart Crowser 1994b	Jul-94	Seep-2-1	1,2-DCE (total)	46						
Hart Crowser 1994b	Jul-94	Seep-2-4	1,2-DCE (total)	39						
Hart Crowser 1997	Dec-96	Seep-1	1,2-DCE (total)	27						
Hart Crowser 1994a	Apr-94	Seep-4	1,2-DCE (total)	19						
Hart Crowser 1994b	Jul-94	Seep-2-5	1,2-DCE (total)	10						
Hart Crowser 1997	Dec-96	Seep-4	1,2-DCE (total)	8						
Hart Crowser 1994a	Apr-94	Seep-1	1,2-DCE (total)	7						
Hart Crowser 1994b	Jul-94	Seep-1	1,2-DCE (total)	3						
Hart Crowser 1994b	Jul-94	Seep-2-6	1,2-DCE (total)	2						
TV-F&S 2000b	Nov-98	S-13	1,2-Dichlorobenzene	1.3					5.2	
TV-F&S 2000b	Nov-99	S-13	1,2-Dichlorobenzene	1					5.2	
TV-F&S 2000b	Dec-98	S-14	1,2-Dichloropropane	16						
TV-F&S 2000b	Nov-98	S-13	1,2-Dichloropropane	2.7						
TV-F&S 2000b	Nov-99	S-13	Acenaphthene	1.3					9.3	
TV-F&S 2000b	May-98	S-6	Acetone	6.4						
TV-F&S 2000b	May-98	S-2 (DUP)	Acetone	5.6						
TV-F&S 2000b	Apr-98	S-1	Acetone	1						
TV-F&S 2000b	Apr-98	S-2	Benzene	40						
TV-F&S 2000b	Apr-98	S-2 (DUP)	Benzene	39						
TV-F&S 2000b	Dec-98	S-13	Benzene	36						
TV-F&S 2000b	Nov-98	S-13	Benzene	28						
TV-F&S 2000b	Oct-99	S-13	Benzene	28						
TV-F&S 2000b	May-98	S-2 (DUP)	Benzene	3.7						
TV-F&S 2000b	May-98	S-2	Benzene	3.1						
TV-F&S 2000b	Apr-98	S-2	Chlorobenzene	8.9						
TV-F&S 2000b	Apr-98	S-2 (DUP)	Chlorobenzene	8.7						
TV-F&S 2000b	Nov-98	S-13	Chlorobenzene	4.1						
TV-F&S 2000b	Dec-98	S-13	cis-1,2-DCE	5,400						
TV-F&S 2000b	Nov-98	S-13	cis-1,2-DCE	3,300						
TV-F&S 2000b	Oct-99	S-13	cis-1,2-DCE	3,200						
TV-F&S 2000b	Dec-98	S-14	cis-1,2-DCE	2,000						
TV-F&S 2000b	Dec-98	S-2	cis-1,2-DCE	190						

Table E-3
Chemicals Detected in Seep Samples
Fox Avenue Building (Former Great Western Chemical)

Source	Date Sampled	Sample Location	Chemical	Conc'n (ug/L)		Marine Chronic WQS	Marine Acute WQS	Chronic WQS Exceedance Factor	GW-to-Sediment Screening Level (Based on CSL)[a]	Exceedance Factor
TV-F&S 2000b	Oct-99	S-2	cis-1,2-DCE	100						
TV-F&S 2000b	Nov-98	S-2	cis-1,2-DCE	65						
TV-F&S 2000b	Nov-98	S-2 (DUP)	cis-1,2-DCE	59						
TV-F&S 2000b	Nov-98	S-1	cis-1,2-DCE	41						
TV-F&S 2000b	Dec-98	S-1	cis-1,2-DCE	29						
TV-F&S 2000b	Oct-99	S-1	cis-1,2-DCE	6						
TV-F&S 2000b	Oct-99	S-1 (DUP)	cis-1,2-DCE	5.2						
Hart Crowser 1994a	Apr-94	Seep-8	PCE	810						
Hart Crowser 1994a	Apr-94	Seep-2	PCE	760						
Hart Crowser 1994b	Jul-94	Seep-8	PCE	640						
Hart Crowser 1997	Oct-95	Seep-2	PCE	610						
Hart Crowser 1994b	Jul-94	Seep-2-3	PCE	600						
Hart Crowser 1997	Oct-95	Seep-8	PCE	600						
TV-F&S 2000b	Dec-98	S-2	PCE	520						
Hart Crowser 1994b	Jul-94	Seep-2-2	PCE	450						
TV-F&S 2000b	Nov-98	S-2 (DUP)	PCE	320						
Hart Crowser 1994b	Jul-94	Seep-2-1	PCE	300						
TV-F&S 2000b	Nov-98	S-2	PCE	250						
TV-F&S 2000b	Oct-99	S-2	PCE	190						
Hart Crowser 1994b	Jul-94	Seep-2-4	PCE	150						
Hart Crowser 1997	Dec-96	Seep-8	PCE	81						
Hart Crowser 1997	Dec-96	Seep-2-Alt	PCE	79						
Hart Crowser 1994b	Jul-94	Seep-2-5	PCE	40						
TV-F&S 2000b	Apr-98	S-1	PCE	22						
TV-F&S 2000b	May-98	S-2 (DUP)	PCE	17						
TV-F&S 2000b	May-98	S-1	PCE	16						
TV-F&S 2000b	May-98	S-2	PCE	16						
Hart Crowser 1997	Dec-96	Seep-1	PCE	13						
Hart Crowser 1994b	Jul-94	Seep-2-6	PCE	11						
TV-F&S 2000b	Dec-98	S-1	PCE	7.5						
TV-F&S 2000b	Nov-98	S-1	PCE	7.3						
TV-F&S 2000b	Apr-98	S-6	PCE	5.8						
Hart Crowser 1994b	Jul-94	Seep-2-7	PCE	5						
Hart Crowser 1997	Oct-95	Seep-1	PCE	4						
TV-F&S 2000b	Nov-98	S-13	PCE	3.8						
TV-F&S 2000b	Oct-99	S-1	PCE	3.7						
TV-F&S 2000b	Oct-99	S-1 (DUP)	PCE	3.7						

Table E-3
Chemicals Detected in Seep Samples
Fox Avenue Building (Former Great Western Chemical)

Source	Date Sampled	Sample Location	Chemical	Conc'n (ug/L)		Marine Chronic WQS	Marine Acute WQS	Chronic WQS Exceedance Factor	GW-to-Sediment Screening Level (Based on CSL)[a]	Exceedance Factor
Hart Crowser 1994a	Apr-94	Seep-1	PCE	3						
TV-F&S 2000b	May-98	S-4	PCE	2.6						
Hart Crowser 1994b	Jul-94	Seep-1	PCE	2						
TV-F&S 2000b	Nov-98	S-6	PCE	1.3						
TV-F&S 2000b	Dec-98	S-2	TCE	440						
Hart Crowser 1994a	Apr-94	Seep-8	TCE	400						
Hart Crowser 1994a	Apr-94	Seep-2	TCE	370						
Hart Crowser 1997	Oct-95	Seep-2	TCE	360						
Hart Crowser 1997	Oct-95	Seep-8	TCE	360						
Hart Crowser 1994b	Jul-94	Seep-8	TCE	330						
TV-F&S 2000b	Oct-99	S-2	TCE	270						
Hart Crowser 1994b	Jul-94	Seep-2-3	TCE	230						
Hart Crowser 1994b	Jul-94	Seep-2-2	TCE	210						
TV-F&S 2000b	Nov-98	S-2	TCE	180						
TV-F&S 2000b	Nov-98	S-2 (DUP)	TCE	160						
Hart Crowser 1994b	Jul-94	Seep-2-1	TCE	130						
Hart Crowser 1994b	Jul-94	Seep-2-4	TCE	68						
Hart Crowser 1997	Dec-96	Seep-8	TCE	59						
Hart Crowser 1997	Dec-96	Seep-2-Alt	TCE	58						
Hart Crowser 1994b	Jul-94	Seep-2-5	TCE	17						
TV-F&S 2000b	Dec-98	S-13	TCE	11						
TV-F&S 2000b	Apr-98	S-1	TCE	9.9						
TV-F&S 2000b	May-98	S-2	TCE	8.4						
TV-F&S 2000b	May-98	S-2 (DUP)	TCE	7.7						
Hart Crowser 1997	Dec-96	Seep-1	TCE	7						
TV-F&S 2000b	Nov-98	S-13	TCE	6.2						
TV-F&S 2000b	May-98	S-1	TCE	4.6						
Hart Crowser 1997	Oct-95	Seep-1	TCE	4						
TV-F&S 2000b	Nov-98	S-1	TCE	4						
TV-F&S 2000b	Dec-98	S-1	TCE	3.4						
TV-F&S 2000b	Apr-98	S-2 (DUP)	TCE	2.5						
TV-F&S 2000b	Oct-99	S-1 (DUP)	TCE	2.4						
TV-F&S 2000b	Apr-98	S-2	TCE	2.4						
Hart Crowser 1994a	Apr-94	Seep-1	TCE	2						
Hart Crowser 1994b	Jul-94	Seep-2-6	TCE	2						
Hart Crowser 1994b	Jul-94	Seep-2-7	TCE	2						
TV-F&S 2000b	Oct-99	S-1	TCE	1.8						

Table E-3
Chemicals Detected in Seep Samples
Fox Avenue Building (Former Great Western Chemical)

Source	Date Sampled	Sample Location	Chemical	Conc'n (ug/L)		Marine Chronic WQS	Marine Acute WQS	Chronic WQS Exceedance Factor	GW-to-Sediment Screening Level (Based on CSL)[a]	Exceedance Factor
Hart Crowser 1994a	Apr-94	Seep-4	TCE	1						
TV-F&S 2000b	Apr-98	S-2	Toluene	3.4						
TV-F&S 2000b	Apr-98	S-2 (DUP)	Toluene	3.4						
Hart Crowser 1997	Dec-96	Seep-4	Toluene	2						
TV-F&S 2000b	May-98	S-2	Toluene	1.4						
TV-F&S 2000b	Dec-98	S-14	trans-1,2-DCE	110						
TV-F&S 2000b	Dec-98	S-13	trans-1,2-DCE	72						
TV-F&S 2000b	Nov-98	S-13	trans-1,2-DCE	46						
TV-F&S 2000b	Apr-98	S-2	trans-1,2-DCE	28						
TV-F&S 2000b	Apr-98	S-2 (DUP)	trans-1,2-DCE	28						
TV-F&S 2000b	Oct-99	S-13	trans-1,2-DCE	27						
TV-F&S 2000b	Oct-99	S-2	trans-1,2-DCE	12						
TV-F&S 2000b	Dec-98	S-2	trans-1,2-DCE	12						
TV-F&S 2000b	May-98	S-2 (DUP)	trans-1,2-DCE	10						
TV-F&S 2000b	May-98	S-2	trans-1,2-DCE	6.4						
TV-F&S 2000b	Nov-98	S-2	trans-1,2-DCE	3.6						
TV-F&S 2000b	Nov-98	S-2 (DUP)	trans-1,2-DCE	3.4						
TV-F&S 2000b	Oct-99	S-13	Vinyl chloride	3,500						
TV-F&S 2000b	Apr-98	S-2	Vinyl chloride	2,100						
TV-F&S 2000b	Apr-98	S-2 (DUP)	Vinyl chloride	1,900						
TV-F&S 2000b	Dec-98	S-13	Vinyl chloride	1,600						
TV-F&S 2000b	Nov-98	S-13	Vinyl chloride	760						
TV-F&S 2000b	Dec-98	S-14	Vinyl chloride	670						
TV-F&S 2000b	May-98	S-2 (DUP)	Vinyl chloride	140						
TV-F&S 2000b	May-98	S-2	Vinyl chloride	110						
TV-F&S 2000b	Apr-98	S-1	Vinyl chloride	6						
Hart Crowser 1994b	Jul-94	Seep-2-4	Vinyl chloride	3						
Hart Crowser 1997	Dec-96	Seep-2-Alt	Vinyl chloride	3	J					
Hart Crowser 1997	Dec-96	Seep-8	Vinyl chloride	3	J					
TV-F&S 2000b	Dec-98	S-1	Vinyl chloride	1.5						
Hart Crowser 1994a	Apr-94	Seep-4	Vinyl chloride	1						
Hart Crowser 1997	Dec-96	Seep-4	Xylenes (total)	1						

Exceedance factors are the ratio of the detected concentration to the screening level; exceedance factors are shown only if they are greater than or equal to 1.

WQS - Water Quality Standards
CSL - Sediment Management Standards Cleanup Screening Level
a - Groundwater to sediment screening level, based on sediment CSLs. From SAIC 2006.

Table E-4
Surface Sediment Sampling Results
Fox Avenue Building (Former Great Western Chemical)

Sampling Event	Sample Location	Chemical	Specific Mass (µg)
TV-F&S 2000b	2'N of S-13	1,1,2-TCA	0.92
TV-F&S 2000b	2'S of S-13	1,1,2-TCA	0.45
TV-F&S 2000b	10.5'S of S-13	1,1,2-TCA	0.27
TV-F&S 2000b	Seep (S-11)	1,1,2-TCA	0.26
TV-F&S 2000b	20.5'S of S-13	1,1,2-TCA	0.22
TV-F&S 2000b	15.5'S of S-13	1,1,2-TCA	0.17
TV-F&S 2000b	5.5'S of S-13	1,1,2-TCA	0.15
TV-F&S 2000b	2'S of S-13	1,1-DCA	12.48
TV-F&S 2000b	6'S of S-1	1,1-DCA	10.11
TV-F&S 2000b	20.5'S of S-13	1,1-DCA	8.36
TV-F&S 2000b	10.5'S of S-13	1,1-DCA	7.59
TV-F&S 2000b	5.5'S of S-13	1,1-DCA	6.76
TV-F&S 2000b	15.5'S of S-13	1,1-DCA	6.47
TV-F&S 2000b	11'S of S-1	1,1-DCA	5.61
TV-F&S 2000b	16.5'S of S-1	1,1-DCA	2.78
TV-F&S 2000b	2'N of S-13	1,1-DCA	1.98
TV-F&S 2000b	22'S of S-1	1,1-DCA	1.91
TV-F&S 2000b	G1	1,1-DCA	0.58
TV-F&S 2000b	2'S of S-13	1,1-DCE	4.15
TV-F&S 2000b	5.5'S of S-13	1,1-DCE	2.08
TV-F&S 2000b	2'N of S-13	1,1-DCE	1.50
TV-F&S 2000b	15.5'S of S-13	1,1-DCE	1.24
TV-F&S 2000b	10.5'S of S-13	1,1-DCE	1.24
TV-F&S 2000b	20.5'S of S-13	1,1-DCE	0.94
TV-F&S 2000b	6'S of S-1	1,1-DCE	0.41
TV-F&S 2000b	G1	1,1-DCE	0.33
TV-F&S 2000b	2'S of S-13	1,2-DCA	1.01
TV-F&S 2000b	5.5'S of S-13	1,2-DCA	0.46
TV-F&S 2000b	2'N of S-13	1,2-DCA	0.43
TV-F&S 2000b	10.5'S of S-13	1,2-DCA	0.38
TV-F&S 2000b	15.5'S of S-13	1,2-DCA	0.28
TV-F&S 2000b	20.5'S of S-13	1,2-DCA	0.24
TV-F&S 2000b	6'S of S-1	1,2-DCA	0.08
TV-F&S 2000b	2'N of S-13	1,2-DCE (total)	349.05
TV-F&S 2000b	5.5'S of S-13	1,2-DCE (total)	333.87
TV-F&S 2000b	2'S of S-13	1,2-DCE (total)	312.11
TV-F&S 2000b	10.5'S of S-13	1,2-DCE (total)	232.51
TV-F&S 2000b	15.5'S of S-13	1,2-DCE (total)	145.58
TV-F&S 2000b	20.5'S of S-13	1,2-DCE (total)	125.82
TV-F&S 2000b	6'S of S-1	1,2-DCE (total)	43.58
TV-F&S 2000b	G1	1,2-DCE (total)	27.67
TV-F&S 2000b	11'S of S-1	1,2-DCE (total)	1.12
TV-F&S 2000b	Seep (S-11)	1,2-DCE (total)	0.20
TV-F&S 2000b	E1	1,2-DCE (total)	0.12
TV-F&S 2000b	16.5'S of S-1	1,2-DCE (total)	0.10
TV-F&S 2000b	22'S of S-1	1,2-DCE (total)	0.05
TV-F&S 2000b	6'S of S-1	1,2-Dichlorobenzene	0.85

Table E-4
Surface Sediment Sampling Results
Fox Avenue Building (Former Great Western Chemical)

Sampling Event	Sample Location	Chemical	Specific Mass (µg)
TV-F&S 2000b	2'N of S-13	1,2-Dichlorobenzene	0.62
TV-F&S 2000b	2'S of S-13	1,2-Dichlorobenzene	0.51
TV-F&S 2000b	11'S of S-1	1,2-Dichlorobenzene	0.42
TV-F&S 2000b	20.5'S of S-13	1,2-Dichlorobenzene	0.30
TV-F&S 2000b	G1	1,2-Dichlorobenzene	0.26
TV-F&S 2000b	16.5'S of S-1	1,2-Dichlorobenzene	0.20
TV-F&S 2000b	10.5'S of S-13	1,2-Dichlorobenzene	0.19
TV-F&S 2000b	5.5'S of S-13	1,2-Dichlorobenzene	0.18
TV-F&S 2000b	15.5'S of S-13	1,2-Dichlorobenzene	0.11
TV-F&S 2000b	22'S of S-1	1,2-Dichlorobenzene	0.09
TV-F&S 2000b	6'S of S-1	1,3-Dichlorobenzene	0.03
TV-F&S 2000b	6'S of S-1	1,4-Dichlorobenzene	0.23
TV-F&S 2000b	2'S of S-13	1,4-Dichlorobenzene	0.14
TV-F&S 2000b	20.5'S of S-13	1,4-Dichlorobenzene	0.10
TV-F&S 2000b	G1	1,4-Dichlorobenzene	0.09
TV-F&S 2000b	10.5'S of S-13	1,4-Dichlorobenzene	0.08
TV-F&S 2000b	11'S of S-1	1,4-Dichlorobenzene	0.07
TV-F&S 2000b	5.5'S of S-13	1,4-Dichlorobenzene	0.04
TV-F&S 2000b	15.5'S of S-13	1,4-Dichlorobenzene	0.04
TV-F&S 2000b	2'N of S-13	1,4-Dichlorobenzene	0.03
TV-F&S 2000b	2'S of S-13	Chlorobenzene	2.79
TV-F&S 2000b	20.5'S of S-13	Chlorobenzene	1.02
TV-F&S 2000b	5.5'S of S-13	Chlorobenzene	0.91
TV-F&S 2000b	10.5'S of S-13	Chlorobenzene	0.82
TV-F&S 2000b	15.5'S of S-13	Chlorobenzene	0.60
TV-F&S 2000b	6'S of S-1	Chlorobenzene	0.59
TV-F&S 2000b	11'S of S-1	Chlorobenzene	0.29
TV-F&S 2000b	2'N of S-13	Chlorobenzene	0.19
TV-F&S 2000b	16.5'S of S-1	Chlorobenzene	0.11
TV-F&S 2000b	22'S of S-1	Chlorobenzene	0.06
TV-F&S 2000b	2'N of S-13	cis-1,2-DCE	341.94
TV-F&S 2000b	5.5'S of S-13	cis-1,2-DCE	330.41
TV-F&S 2000b	2'S of S-13	cis-1,2-DCE	305.30
TV-F&S 2000b	10.5'S of S-13	cis-1,2-DCE	229.97
TV-F&S 2000b	15.5'S of S-13	cis-1,2-DCE	143.41
TV-F&S 2000b	20.5'S of S-13	cis-1,2-DCE	123.31
TV-F&S 2000b	6'S of S-1	cis-1,2-DCE	42.75
TV-F&S 2000b	G1	cis-1,2-DCE	27.46
TV-F&S 2000b	11'S of S-1	cis-1,2-DCE	1.06
TV-F&S 2000b	Seep (S-11)	cis-1,2-DCE	0.20
TV-F&S 2000b	E1	cis-1,2-DCE	0.12
TV-F&S 2000b	16.5'S of S-1	cis-1,2-DCE	0.10
TV-F&S 2000b	22'S of S-1	cis-1,2-DCE	0.05
TV-F&S 2000b	2'N of S-13	PCE	0.92
TV-F&S 2000b	2'S of S-13	PCE	0.45
TV-F&S 2000b	10.5'S of S-13	PCE	0.27
TV-F&S 2000b	Seep (S-11)	PCE	0.26

Table E-4
Surface Sediment Sampling Results
Fox Avenue Building (Former Great Western Chemical)

Sampling Event	Sample Location	Chemical	Specific Mass (µg)
TV-F&S 2000b	20.5'S of S-13	PCE	0.22
TV-F&S 2000b	15.5'S of S-13	PCE	0.17
TV-F&S 2000b	5.5'S of S-13	PCE	0.15
TV-F&S 2000b	2'N of S-13	TCE	1.76
TV-F&S 2000b	2'S of S-13	TCE	1.55
TV-F&S 2000b	10.5'S of S-13	TCE	0.61
TV-F&S 2000b	20.5'S of S-13	TCE	0.58
TV-F&S 2000b	5.5'S of S-13	TCE	0.48
TV-F&S 2000b	15.5'S of S-13	TCE	0.46
TV-F&S 2000b	6'S of S-1	TCE	0.11
TV-F&S 2000b	2'N of S-13	trans-1,2-DCE	7.11
TV-F&S 2000b	2'S of S-13	trans-1,2-DCE	6.81
TV-F&S 2000b	5.5'S of S-13	trans-1,2-DCE	3.46
TV-F&S 2000b	10.5'S of S-13	trans-1,2-DCE	2.54
TV-F&S 2000b	20.5'S of S-13	trans-1,2-DCE	2.51
TV-F&S 2000b	15.5'S of S-13	trans-1,2-DCE	2.17
TV-F&S 2000b	6'S of S-1	trans-1,2-DCE	0.83
TV-F&S 2000b	G1	trans-1,2-DCE	0.21
TV-F&S 2000b	11'S of S-1	trans-1,2-DCE	0.06
TV-F&S 2000b	6'S of S-1	Vinyl Chloride	103.94
TV-F&S 2000b	10.5'S of S-13	Vinyl Chloride	62.86
TV-F&S 2000b	5.5'S of S-13	Vinyl Chloride	51.75
TV-F&S 2000b	20.5'S of S-13	Vinyl Chloride	47.58
TV-F&S 2000b	15.5'S of S-13	Vinyl Chloride	44.96
TV-F&S 2000b	G1	Vinyl Chloride	42.05
TV-F&S 2000b	2'N of S-13	Vinyl Chloride	38.57
TV-F&S 2000b	2'S of S-13	Vinyl Chloride	27.90
TV-F&S 2000b	11'S of S-1	Vinyl Chloride	7.71

Table presents detections only.