TABLE 3-6
Monitoring Well Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		MW-16D2A	MW-16I	MW-17D2	WMW-17I	WMW-19DR	WMW-19I	WMW-21D2R	WMW-21DR	MW-21I	MW-22I	MW-23I	MW-27I	WMW-29I	WMW-30D
Field Sample Identification:		05CB32-26	05CB32-49	05CB32-57	05CB32-28	05CB32-24	05CB32-40	05CB32-42	05CB32-41	05CB32-50	05CB32-36	05CB32-25	05CB32-39	05CB32-56	05CB32-6(
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Sample Collection Date:		5/10/2005	5/12/2005	6/22/2005	5/10/2005	5/6/2005	5/11/2005	5/8/2005	5/8/2005	5/12/2005	5/11/2005	5/10/2005	5/11/2005	5/12/2005	7/7/2005
Metals															
ALUMINUM	µg/L	150 UJ	26.8 J	509	23.6 J	71.9 J	300 UJ	150 UJ	300 UJ	239	15 U	15 U	24.2 J	1,120 UJ	669
ANTIMONY	µg/L	23 UJ	2.3 U	11.5 U	2.3 U	2.3 U	46 UJ	23 UJ	46 UJ	2.3 U	2.3 U	2.3 U	2.3 U	172 UJ	2.3
ARSENIC	µg/L	24.7 J	9.85 J	24.1	19.2	8.32	16.3 J	15.5 UJ	15 UJ	15.6 J	13.6 J	25.5 J	15.6 J	0.75 J	3.19
BARIUM	µg/L	3,390 J	1,600	4,600	54.8	2,080	5,860 J	5,100 J	4,100 J	20.2	114	35.6	548	5,040	293
BERYLLIUM	µg/L	3.51 J	0.2 U	1.26 J	0.204 J	0.2 U	6.94 J	2.7 UJ	6.42 UJ	0.205 J	0.332 J	0.296 J	0.355 J	31.6 UJ	0.2
BROMIDE	mg/L	42.1	NR	1 U	NR	289	NR	61.2	128	NR	NR	NR	NR	NR	NR
CADMIUM	µg/L	3.5 UJ	0.35 U	1.75 U	0.35 U	0.35 U	7 UJ	3.5 UJ	7 UJ	0.35 U	0.35 U	0.35 U	0.35 U	26.2 UJ	1.75
CALCIUM	µg/L	2,150,000 J	535,000 J	2,510,000	394,000 J	551,000 J	2,550 UJ	1,980,000 J	3,980,000 J	233,000	433,000 J	94,000	147,000	15,100,000	132,000
CHROMIUM, TOTAL	µg/L	13 UJ	37.3	6.5 U	1.32 J	1.84 J	26 UJ	13 UJ	26 UJ	1.3 U	19	1.3 U	25.4	97.5 UJ	3.92
COBALT	µg/L	7.6 UJ	3.44 J	3.8 U	5.59	0.76 U	15.2 UJ	7.6 UJ	15.2 UJ	0.76 U	5.91	0.76 U	0.76 U	57 UJ	0.76
COPPER	µg/L	9.08 J	6.47	17.5 J	2.73 J	4.42 U	25 J	14.3 UJ	22.3 UJ	4.22 U	13	0.714 J	4.18 J	189 UJ	4.61
CYANIDE	µg/L	76.3 J	3.7 U	3.7 UJ	53.8 J	3.7 U	4.02 J	3.7 U	3.7 U	3.7 U	22.1 J	3.7 U	3.7 U	10.2 J	12.2
IRON	µg/L	2,620 J	2,400	16,100	14,600	9,300	51,300 J	12,400 J	21,400 J	4,640	4,110	320	658	151,000	3,630
LEAD	µg/L	22 UJ	11 UJ	44 UJ	11 UJ	15.6 UJ	110 UJ	22 UJ	44 UJ	2.2 U	11 UJ	2.2 U	2.2 U	165 UJ	7.22
MAGNESIUM	µg/L	133,000 J	162,000	743,000	120,000	210,000	1,240,000 J	558,000 J	918,000 J	36,800	110,000	34,900	62,700	1,760,000	48,400
MANGANESE	µg/L	175 J	204	633	174	287	1,970 J	735 J	1,440 J	103	137	41.2	61.1	4,930	240
MERCURY	µg/L	0.025 U	0.025 U	0.0585 J	0.0539 J	0.0998 J	0.297	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025
NICKEL	µg/L	21.3 J	246	8.5 U	305	10.4	90.9 J	17.1 J	34 J	5.3	447	6.55	40.4	1,060	2.67
POTASSIUM	µg/L	42,300 J	11,700	7,180	5,270	5,550	50,700 J	6,240 J	16,400 J	61,400	6,300	2,290	4,200	470,000	6,560
SELENIUM	µg/L	108 UJ	13 UJ	90.9 J	13 UJ	13 UJ	130 UJ	27.3 UJ	90.2 UJ	2.81 J	13 UJ	2.6 U	4.19 U	195 UJ	2.6
SILICA	mg/L	6.8 J	17.3	NR	18.5 J	14.8 J	18.9 J	14.7 J	13.8 J	20.4	19 J	14.5 J	14.6 J	NR	14.8
SILVER	µg/L	6.5 UJ	0.681 J	3.25 U	0.65 U	0.65 U	13 UJ	6.5 UJ	13 UJ	0.65 U	0.65 U	0.65 U	0.65 U	64.8 UJ	1.56
SODIUM	µg/L	826,000 J	772,000 J	629,000	337,000 J	450,000 J	7,000 UJ	534,000 J	1,930,000 J	568,000 J	357,000 J	74,600	115,000	8,180,000	540,000
THALLIUM	µg/L	42 UJ	21 UJ	84 UJ	21 UJ	21 UJ	210 UJ	42 UJ	84 UJ	4.2 U	21 UJ	4.2 U	4.2 U	315 UJ	21
VANADIUM	µg/L	11 UJ	1.1 U	5.5 U	9.86	1.1 U	22 UJ	11 UJ	22 UJ	1.1 U	1.41 J	1.1 U	1.1 U	116 J	1.81
ZINC		9.4 UJ	0.94 U	4.7 U	4.7 UJ	23.7 UJ	70.8 UJ	9.4 UJ	18.8 UJ	0.94 U	6.85 UJ	0.94 U	0.94 U	70.5 UJ	6.26
pCBSA															
4-CHLOROBENZENE SULFONIC ACID	µg/L	16	86	1 UJ	NR	520	8,100	1.1 J	1.1	11	180 J	1 U	1 UJ	10	NR
Pesticides/PBB/HBB															
HEXABROMOBENZENE	µg/L	0.1 UJ	0.11 UJ	0.12 U	0.11 UJ	0.1 U	0.11 UJ	0.1 UJ	0.1 UJ	0.11 UJ	0.1 UJ	0.1 UJ	0.11 UJ	0.1 U	0.1
HEXABROMOBIPHENYL	µg/L	0.1 U	0.11 U	0.12 U	0.11 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.1
O,P'-DDD	µg/L	0.1 U	0.11 U	0.12 U	0.11 U	0.014 J	0.11 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.016
O,P'-DDE	µg/L	0.1 U	0.11 U	0.12 UJ	0.11 U	0.1 U	0.11 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.1
O,P'-DDT	µg/L	0.1 U	0.11 U	0.12 U	0.11 U	0.1 U	0.11 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.1
P,P'-DDD	µg/L	0.1 U	0.11 U	0.12 U	0.11 U	0.1 U	0.11 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.021
P,P'-DDE	µg/L	0.1 U	0.11 U	0.12 U	0.11 U	0.1 U	0.11 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.009
P,P'-DDT	µg/L	0.1 U	0.11 U	0.12 U	0.11 U	0.1 U	0.11 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.1
Semivolatile Organic Compounds															
2,4,5-TRICHLOROPHENOL	µg/L	25.2 UJ	27.2 U	26.6 UJ	25 UJ	25 UJ	50 U	26.3 UJ	25 UJ	27 U	25.2 U	25.8 UJ	25.8 U	28.1 UJ	25
2,4,6-TRICHLOROPHENOL	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
2,4-DICHLOROPHENOL	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
2,4-DIMETHYLPHENOL	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
2,4-DINITROPHENOL	µg/L	25.2 UJ	27.2 U	26.6 UJ	25 UJ	25 UJ	50 UJ	26.3 UJ	25 UJ	27 U	25.2 UJ	25.8 UJ	25.8 UJ	28.1 UJ	25
2,4-DINITROTOLUENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 U	20 U	10.5 UJ	10 UJ	10.8 U	10.1 U	10.3 UJ	10.3 U	11.2 U	10
2,6-DINITROTOLUENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 U	10.5 UJ	10 UJ	10.8 U	10.1 U	10.3 UJ	10.3 U	11.2 UJ	10
2-CHLORONAPHTHALENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
2-CHLOROPHENOL	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
2-METHYLNAPHTHALENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
2-METHYLPHENOL (O-CRESOL)	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
2-NITROANILINE	µg/L	25.2 UJ	27.2 U	26.6 U	25 UJ	25 UJ	50 U	26.3 UJ	25 UJ	27 U	25.2 U	25.8 UJ	25.8 U	28.1 UJ	25
2-NITROPHENOL	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
3,3'-DICHLOROBENZIDINE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
3-NITROANILINE	µg/L	25.2 UJ	27.2 U	26.6 UJ	25 UJ	25 UJ	50 UJ	26.3 UJ	25 UJ	27 U	25.2 UJ	25.8 UJ	25.8 UJ	28.1 UJ	25
4,6-DINITRO-2-METHYLPHENOL	µg/L	25.2 UJ	27.2 U	26.6 UJ	25 UJ	25 UJ	50 UJ	26.3 UJ	25 UJ	27 U	25.2 UJ	25.8 UJ	25.8 UJ	28.1 UJ	25
4-BROMOPHENYL PHENYL ETHER	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
4-CHLORO-3-METHYLPHENOL	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
4-CHLOROANILINE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 U	10
4-CHLOROPHENYL PHENYL ETHER	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
4-METHYLPHENOL (P-CRESOL)	µg/L	10.1 UJ	10.9 UJ	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 UJ	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
4-NITROANILINE	µg/L	25.2 UJ	27.2 U	26.6 U	25 UJ	25 UJ	50 UJ	26.3 UJ	25 UJ	27 U	25.2 UJ	25.8 UJ	25.8 UJ	28.1 U	25

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-6
Monitoring Well Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		MW-16D2A	MW-16I	MW-17D2	WMW-17I	WMW-19DR	WMW-19I	WMW-21D2R	WMW-21DR	MW-21I	MW-22I	MW-23I	MW-27I	WMW-29I	WMW-30D
Field Sample Identification:		05CB32-26	05CB32-49	05CB32-57	05CB32-28	05CB32-24	05CB32-40	05CB32-42	05CB32-41	05CB32-50	05CB32-36	05CB32-25	05CB32-39	05CB32-56	05CB32-6(
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Sample Collection Date:		5/10/2005	5/12/2005	6/22/2005	5/10/2005	5/6/2005	5/11/2005	5/8/2005	5/8/2005	5/12/2005	5/11/2005	5/10/2005	5/11/2005	5/12/2005	7/7/2005
4-NITROPHENOL	µg/L	25.2 UJ	27.2 UJ	26.6 UJ	25 UJ	25 UJ	50 UJ	26.3 UJ	25 UJ	27 UJ	25.2 UJ	25.8 UJ	25.8 UJ	28.1 UJ	25
ACENAPHTHENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
ACENAPHTHYLENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
ACETOPHENONE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	NR	10.5 UJ	10 UJ	10.8 U	NR	10.3 UJ	NR	11.2 UJ	10
ANTHRACENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
BENZALDEHYDE	µg/L	10.1 U	10.9 U	10.6 UJ	10 U	10 U	NR	10.5 UJ	10 U	10.8 U	NR	10.3 U	NR	11.2 UJ	10
BENZO(A)ANTHRACENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
BENZO(A)PYRENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
BENZO(B)FLUORANTHENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
BENZO(G,H,I)PERYLENE	µg/L	10.1 UJ	10.9 UJ	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 UJ	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
BENZO(K)FLUORANTHENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 U	10.5 UJ	10 UJ	10.8 U	10.1 U	10.3 UJ	10.3 U	11.2 U	10
BENZYL BUTYL PHTHALATE	µg/L	10.1 U	10.9 U	10.6 U	10 U	10 U	20 U	10.5 UJ	10 U	10.8 U	10.1 U	10.3 U	10.3 U	11.2 U	10
BIPHENYL (DIPHENYL)	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	NR	10.5 UJ	10 UJ	10.8 U	NR	10.3 UJ	NR	11.2 UJ	10
BIS(2-CHLOROETHOXY) METHANE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
BIS(2-CHLOROISOPROPYL) ETHER	µg/L	10.1 UJ	10.9 UJ	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 UJ	10.1 UJ	10.3 U	10.3 UJ	11.2 UJ	10
BIS(2-ETHYLHEXYL) PHTHALATE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 U	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
CAPROLACTAM	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	NR	10.5 UJ	10 UJ	10.8 U	NR	10.3 UJ	NR	11.2 R	2.1
CARBAZOLE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
CHRYSENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
DIBENZ(A,H)ANTHRACENE	µg/L	10.1 UJ	10.9 UJ	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 UJ	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
DIBENZOFURAN	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
DIETHYL PHTHALATE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 U	10.5 UJ	10 UJ	10.8 U	10.1 U	10.3 UJ	10.3 U	11.2 UJ	10
DIMETHYL PHTHALATE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 U	10.5 UJ	10 UJ	10.8 U	10.1 U	10.3 UJ	10.3 U	11.2 UJ	10
DI-N-BUTYL PHTHALATE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 U	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
DI-N-OCTYLPHTHALATE	µg/L	10.1 U	10.9 U	10.6 UJ	10 U	10 U	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 U	10.3 UJ	11.2 UJ	10
FLUORANTHENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
FLUORENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
HEXACHLOROBENZENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
HEXACHLOROBUTADIENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
HEXACHLOROCYCLOPENTADIENE	µg/L	10.1 UJ	10.9 UJ	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 UJ	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
HEXACHLOROETHANE	µg/L	10.1 UJ	10.9 UJ	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 UJ	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
INDENO(1,2,3-C,D)PYRENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
ISOPHORONE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
NAPHTHALENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
NITROBENZENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
N-NITROSODI-N-PROPYLAMINE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
N-NITROSODIPHENYLAMINE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
PENTACHLOROPHENOL	µg/L	25.2 UJ	27.2 UJ	26.6 UJ	25 UJ	25 UJ	50 UJ	26.3 UJ	25 UJ	27 UJ	25.2 UJ	25.8 UJ	25.8 UJ	28.1 UJ	25
PHENANTHRENE	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
PHENOL	µg/L	10.1 UJ	10.9 U	10.6 UJ	10 UJ	10 UJ	20 UJ	10.5 UJ	10 UJ	10.8 U	10.1 UJ	10.3 UJ	10.3 UJ	11.2 UJ	10
PYRENE	µg/L	10.1 UJ	10.9 U	10.6 U	10 UJ	10 U	20 U	10.5 UJ	10 UJ	10.8 U	10.1 U	10.3 UJ	10.3 U	11.2 U	10
Volatile Organic Compounds															
1,1,1-TRICHLOROETHANE	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	36 U	90 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	36 U	1.8
1,1,2,2-TETRACHLOROETHANE	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	50 U	125 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	50 U	2.5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
1,1,2-TRICHLOROETHANE	µg/L	2.1 U	2.1 U	2.1 U	2.1 U	42 U	105 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	42 U	2.1
1,1-DICHLOROETHANE	µg/L	2.2 U	2.2 U	0.59 J	2.2 U	44 U	147	2.2 U	0.19 J	0.5 J	2.2 U	2.2 U	2.2 U	17.1 J	2.2
1,1-DICHLOROETHENE	µg/L	2.9 U	2.9 U	2.9 U	2.9 U	58 U	145 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	58 U	2.9
1,2,4-TRICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
1,2-DICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	27.5 J	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
1,2-DICHLOROETHANE	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	34 U	85 U	1.7 U	7.9	1.7 U	1.7 U	1.7 U	1.7 U	34 U	1.7
1,2-DICHLOROETHYLENES	µg/L	2.2 U	2.2 U	2.2 U	2.2 U	44 U	110 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	44 U	2.2
1,2-DICHLOROPROPANE	µg/L	2.2 U	2.2 U	1.7 J	2.2 U	44 U	136	2.2 U	18.7	2.2 U	2.2 U	2.2 U	2.2 U	1,150	2.2
1,3-DICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
1,4-DICHLOROBENZENE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
2-HEXANONE	µg/L	4.6 U	4.6 U	4.6 U	4.6 U	92 U	230 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	92 U	4.6
ACETONE	µg/L	8.3	5.6 U	5.6 U	5.6 U	112 U	731	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	1,030	5.6
BENZENE	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	742	8,960	0.5 U	0.48 J	7.6	0.5 U	0.5 U	0.5 U	3.4 J	0.5

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-6
Monitoring Well Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		MW-16D2A	MW-16I	MW-17D2	WMW-17I	WMW-19DR	WMW-19I	WMW-21D2R	WMW-21DR	MW-21I	MW-22I	MW-23I	MW-27I	WMW-29I	WMW-30D
Field Sample Identification:		05CB32-26	05CB32-49	05CB32-57	05CB32-28	05CB32-24	05CB32-40	05CB32-42	05CB32-41	05CB32-50	05CB32-36	05CB32-25	05CB32-39	05CB32-56	05CB32-6(
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Sample Collection Date:		5/10/2005	5/12/2005	6/22/2005	5/10/2005	5/6/2005	5/11/2005	5/8/2005	5/8/2005	5/12/2005	5/11/2005	5/10/2005	5/11/2005	5/12/2005	7/7/2005
BROMOCHLOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
BROMODICHLOROMETHANE	µg/L	1.6 U	1.6 U	1.6 U	1.6 U	32 U	80 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	32 U	1.6
BROMOFORM	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	36 U	90 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	36 U	1.8
BROMOMETHANE	µg/L	2.8 U	2.8 U	2.8 U	2.8 U	56 U	140 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	56 U	2.8
CARBON DISULFIDE	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	50 U	125 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	50 U	2.5
CARBON TETRACHLORIDE	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	28 U	70 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	1.4
CHLOROBENZENE	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	845	328	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	1.4
CHLOROETHANE	µg/L	5.9 U	5.9 U	5.9 U	5.9 U	118 U	295 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	118 U	5.9
CHLOROFORM	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	48 U	120 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	48 U	2.4
CHLOROMETHANE	µg/L	3.2 U	3.2 U	3.2 U	3.2 U	64 U	160 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	64 U	3.2
CIS-1,3-DICHLOROPROPENE	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	28 U	70 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	1.4
CYCLOHEXANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	6.9 J	175 U	0.57 J	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
DIBROMOCHLOROMETHANE	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	34 U	85 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	34 U	1.7
DICHLORODIFLUOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
DIMETHYL BENZENE	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	34 U	85 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	34 U	1.7
ETHYLBENZENE	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	30 U	75 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	30 U	1.5
ISOPROPYLBENZENE (CUMENE)	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
METHYL ACETATE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
METHYL ETHYL KETONE (2-BUTANONE)	µg/L	7.4 U	7.4 U	7.4 U	7.4 U	148 U	370 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	148 U	7.4
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
METHYLCYCLOHEXANE	µg/L	0.86 J	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	0.63 J	3.5 U	70 U	3.5
METHYLENE CHLORIDE	µg/L	3.1 U	3.1 U	3.1 U	3.1 U	62 U	290	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	515	3.1
STYRENE	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	28 U	70 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	1.4
TETRACHLOROETHYLENE(PCE)	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	28 U	70 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	28 U	1.4
TOLUENE	µg/L	1 U	1 U	1 U	1 U	83.2	395	1 U	1 U	1 U	1 U	1 U	1 U	20 U	1
TRANS-1,3-DICHLOROPROPENE	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	30 U	75 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	30 U	1.5
TRICHLOROETHYLENE (TCE)	µg/L	1.6 U	1.6 U	1.6 U	1.6 U	32 U	41.2 J	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	32 U	1.6
TRICHLOROFLUOROMETHANE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
VINYL CHLORIDE	µg/L	3.5 U	3.5 U	3.5 U	3.5 U	70 U	175 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	70 U	3.5
Wet Chemistry															
ALKALINITY, BICARBONATE (AS CACO3)	mg/L	72	221	54	244	146	192	80	51	182	261	174	157	67	149
ALKALINITY, CARBONATE (AS CACO3)	mg/L	32	0.5 U	0.5 U	0.5 U	146	0.5 U	80	51	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5
ALKALINITY, TOTAL (AS CACO3)	mg/L	104	221	54	244	146	192	80	51	182	261	174	157	67	149
CHLORIDE (AS CL)	mg/L	5,380	2,120 J	8,480	1,200	2,170	29,300	6,080	12,300	282 J	536	182	165 J	53,100	1120
NITROGEN, NITRATE (AS N)	mg/L	0.0201 U	0.0584 J	0.0201 U	0.0201 U	0.0201 U	0.0201 U	0.0201 U	0.0201 U	0.0201 U	0.0201 U	0.0201 U	0.106 J	0.043 UJ	0.0201
NITROGEN, NITRITE	mg/L	0.0118 U	NR	NR	NR	0.0148 J	NR	0.027 J	0.0118 U	NR	NR	NR	NR	NR	NR
SULFATE (AS SO4)	mg/L	15.7	63.3 J	36.8	323	20.2	16.4	66.3	73.4	1,020 J	37.1	136	22.2	14.7	22

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TABLE 3-6
Monitoring Well Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		MW-30I	MW-30I	MW-31DA	MW-31DA	MW-31I	MW-31I	MW-34D	MW-34I	MW-35I
Field Sample Identification:		05CB32-53	05CB32-61	05CB32-45	05CB32-46	05CB32-54	05CB32-55	05CB32-37	05CB32-44	05CB32-48
Matrix:		Water	Water	Water	Water, Dup	Water	Water, Dup	Water	Water	Water
Sample Collection Date:		5/13/2005	7/7/2005	5/9/2005	5/9/2005	5/12/2005	5/12/2005	5/11/2005	5/9/2005	5/12/2005
Metals										
ALUMINUM	µg/L	158	NR	343 J	589 J	74.9 J	76.5 J	300 UJ	300 UJ	155
ANTIMONY	µg/L U	2.3 U	NR	46 UJ	46 UJ	2.3 U	2.3 U	46 UJ	46 UJ	46 UJ
ARSENIC	µg/L B	2.2 J	NR	20.2 UJ	21.4 UJ	33.9	33.9	0.29 U	36.7 UJ	2.75 J
BARIUM	µg/L	464	NR	923 J	919 J	100	102	4,440 J	6,300 J	13,700 J
BERYLLIUM	µg/L U	0.3 U	NR	5.32 UJ	6.46 UJ	0.264 U	0.294 U	7.14 J	7.69 UJ	0.2 U
BROMIDE	mg/L	NR	NR	23.8	32.6	NR	NR	315	NR	NR
CADMIUM	µg/L U	0.35 U	NR	7 UJ	7 UJ	0.35 U	0.35 U	7 UJ	7 UJ	0.35 U
CALCIUM	µg/L	180,000	NR	2,490,000 J	2,500,000 J	184,000	186,000	6,730,000 J	5,320,000 J	3,130,000 J
CHROMIUM, TOTAL	µg/L	1.65 J	NR	26 UJ	26 UJ	2.4	2.4	26 UJ	26 UJ	1.3 U
COBALT	µg/L U	0.76 U	NR	15.2 UJ	15.2 UJ	0.76 U	0.76 U	15.2 UJ	15.2 UJ	15.2 UJ
COPPER	µg/L J	4.13 U	NR	12.7 UJ	12.4 UJ	4.25 U	3.04 U	20 J	12.4 UJ	5.96
CYANIDE	µg/L	3.7 U	NR	3.7 U	6.53 J	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
IRON	µg/L	1,150	NR	17,000 J	17,100 J	3180	3,230	18,400 J	184 UJ	51,400
LEAD	µg/L	2.2 U	NR	44 UJ	44 UJ	2.2 U	2.2 U	110 UJ	98.6 J	44 UJ
MAGNESIUM	µg/L	73,500	NR	359,000 J	362,000 J	78,600	79,600	991,000 J	4,950 J	571,000 J
MANGANESE	µg/L	85.3	NR	992 J	992 J	50.8	51.7	1,720 J	9.2 UJ	1,190 J
MERCURY	µg/L U	0.0545 J	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
NICKEL	µg/L J	5.28	NR	34 UJ	35.5 J	3.08 J	2.98 J	165 J	141 J	7.6
POTASSIUM	µg/L	4,780	NR	14,900 J	14,700 J	4260	4,300	27,800 J	147,000 J	117,000
SELENIUM	µg/L U	2.6 U	NR	52 UJ	52 UJ	2.6 U	2.6 U	130 UJ	167 UJ	52 UJ
SILICA	mg/L	NR	NR	16.4 J	16.4 J	NR	NR	8 J	0.24 J	20
SILVER	µg/L J	0.65 U	NR	13 UJ	13 UJ	0.65 U	0.65 U	13 UJ	17.2 UJ	2.98
SODIUM	µg/L	105,000	NR	580,000 J	578,000 J	98,200	99,100	3,430,000 J	2,130,000 J	3,060,000 J
THALLIUM	µg/L U	4.2 U	NR	84 UJ	84 UJ	4.2 U	4.2 U	210 UJ	105 UJ	84 UJ
VANADIUM	µg/L J	1.1 U	NR	22 UJ	22 UJ	1.1 U	1.1 U	22 UJ	22 UJ	1.1 U
ZINC	J	0.94 U	NR	18.8 UJ	18.8 UJ	0.94 U	0.94 U	47 UJ	23.5 UJ	22.5
pCBSA										
4-CHLOROBENZENE SULFONIC ACID	µg/L	360,000	290,000	1.9	1.8	1 U	1 U	74	58	4,600
Pesticides/PBB/HBB										
HEXABROMOBENZENE	µg/L U	0.1 U	NR	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 UJ	0.1 UJ	0.11 UJ
HEXABROMOBIPHENYL	µg/L U	0.1 U	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U	0.1 U	0.11 U
O,P'-DDD	µg/L J	0.1 UJ	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U	0.1 U	0.11 U
O,P'-DDE	µg/L U	0.1 U	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U	0.1 UJ	0.11 U
O,P'-DDT	µg/L U	0.1 U	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U	0.1 U	0.11 U
P,P'-DDD	µg/L J	0.1 U	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U	0.1 U	0.11 U
P,P'-DDE	µg/L J	0.1 U	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U	0.1 U	0.11 U
P,P'-DDT	µg/L U	0.1 U	NR	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U	0.1 UJ	0.11 U
Semivolatile Organic Compounds										
2,4,5-TRICHLOROPHENOL	µg/L U	25 UJ	NR	26 UJ	29.4 UJ	28.1 UJ	25.9 UJ	25 U	25 UJ	26.3 U
2,4,6-TRICHLOROPHENOL	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
2,4-DICHLOROPHENOL	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
2,4-DIMETHYLPHENOL	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
2,4-DINITROPHENOL	µg/L U	25 UJ	NR	26 UJ	29.4 UJ	28.1 UJ	25.9 UJ	25 UJ	25 UJ	26.3 U
2,4-DINITROTOLUENE	µg/L U	10 U	NR	10.4 UJ	11.8 UJ	11.2 U	10.4 U	10 U	10 UJ	10.5 U
2,6-DINITROTOLUENE	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 U	10 UJ	10.5 U
2-CHLORONAPHTHALENE	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
2-CHLOROPHENOL	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
2-METHYLNAPHTHALENE	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
2-METHYLPHENOL (O-CRESOL)	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
2-NITROANILINE	µg/L U	25 UJ	NR	26 UJ	29.4 UJ	28.1 UJ	25.9 UJ	25 U	25 UJ	26.3 U
2-NITROPHENOL	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
3,3'-DICHLOROBENZIDINE	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
3-NITROANILINE	µg/L U	25 UJ	NR	26 UJ	29.4 UJ	28.1 U	25.9 U	25 UJ	25 UJ	26.3 U
4,6-DINITRO-2-METHYLPHENOL	µg/L U	25 UJ	NR	26 UJ	29.4 UJ	28.1 UJ	25.9 UJ	25 UJ	25 UJ	26.3 U
4-BROMOPHENYL PHENYL ETHER	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
4-CHLORO-3-METHYLPHENOL	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
4-CHLOROANILINE	µg/L U	10 U	NR	10.4 UJ	11.8 UJ	11.2 U	10.4 U	10 UJ	10 UJ	10.5 U
4-CHLOROPHENYL PHENYL ETHER	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
4-METHYLPHENOL (P-CRESOL)	µg/L U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 UJ
4-NITROANILINE	µg/L U	25 UJ	NR	26 UJ	29.4 UJ	28.1 U	25.9 U	25 UJ	25 UJ	26.3 U

QUALIFIER KEY: " " - Analyte found; "U" - Not detected; "J" - Estimated Result; "UJ" - Not detected, estimated; "R" - Rejected; "NR" - Analysis not requested; "R" - Rejected, qualifier in review*

TABLE 3-6
Monitoring Well Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:			MW-30I	MW-30I	MW-31DA	MW-31DA	MW-31I	MW-31I	MW-34D	MW-34I	MW-35I
Field Sample Identification:			05CB32-53	05CB32-61	05CB32-45	05CB32-46	05CB32-54	05CB32-55	05CB32-37	05CB32-44	05CB32-48
Matrix:			Water	Water	Water	Water, Dup	Water	Water, Dup	Water	Water	Water
Sample Collection Date:			5/13/2005	7/7/2005	5/9/2005	5/9/2005	5/12/2005	5/12/2005	5/11/2005	5/9/2005	5/12/2005
4-NITROPHENOL	µg/L	U	25 UJ	NR	26 UJ	29.4 UJ	28.1 UJ	25.9 UJ	25 UJ	25 UJ	26.3 UJ
ACENAPHTHENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
ACENAPHTHYLENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
ACETOPHENONE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	NR	10 UJ	10.5 U
ANTHRACENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
BENZALDEHYDE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	NR	10 UJ	10.5 U
BENZO(A)ANTHRACENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
BENZO(A)PYRENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
BENZO(B)FLUORANTHENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
BENZO(G,H,I)PERYLENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 UJ
BENZO(K)FLUORANTHENE	µg/L	U	10 U	NR	10.4 UJ	11.8 UJ	11.2 U	10.4 U	10 U	10 UJ	10.5 U
BENZYL BUTYL PHTHALATE	µg/L	U	10 U	NR	10.4 UJ	11.8 UJ	11.2 U	10.4 U	10 U	10 UJ	10.5 U
BIPHENYL (DIPHENYL)	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	NR	10 UJ	10.5 U
BIS(2-CHLOROETHOXY) METHANE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
BIS(2-CHLOROISOPROPYL) ETHER	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 UJ
BIS(2-ETHYLHEXYL) PHTHALATE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
CAPROLACTAM	µg/L	J	10 R	NR	10.4 UJ	11.8 UJ	11.2 R	10.4 R	NR	10 UJ	10.5 U
CARBAZOLE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
CHRYSENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
DIBENZ(A,H)ANTHRACENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 UJ
DIBENZOFURAN	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
DIETHYL PHTHALATE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 U	10 UJ	10.5 U
DIMETHYL PHTHALATE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 U	10 UJ	10.5 U
DI-N-BUTYL PHTHALATE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
DI-N-OCTYLPHTHALATE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	5 UJ	10 UJ	10 UJ	10.5 U
FLUORANTHENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
FLUORENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
HEXACHLOROBENZENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
HEXACHLOROBUTADIENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
HEXACHLOROCYCLOPENTADIENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 UJ
HEXACHLOROETHANE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 UJ
INDENO(1,2,3-C,D)PYRENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
ISOPHORONE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
NAPHTHALENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
NITROBENZENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
N-NITROSODI-N-PROPYLAMINE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
N-NITROSODIPHENYLAMINE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
PENTACHLOROPHENOL	µg/L	U	25 UJ	NR	26 UJ	29.4 UJ	28.1 UJ	25.9 UJ	25 UJ	25 UJ	26.3 UJ
PHENANTHRENE	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 U
PHENOL	µg/L	U	10 UJ	NR	10.4 UJ	11.8 UJ	11.2 UJ	10.4 UJ	10 UJ	10 UJ	10.5 UJ
PYRENE	µg/L	U	10 U	NR	10.4 UJ	11.8 UJ	11.2 U	10.4 U	10 U	10 UJ	10.5 U
Volatile Organic Compounds											
1,1,1-TRICHLOROETHANE	µg/L	U	1.8 U	NR	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 U
1,1,2,2-TETRACHLOROETHANE	µg/L	U	2.5 U	NR	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	µg/L	U	3.5 U	NR	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U
1,1,2-TRICHLOROETHANE	µg/L	U	2.1 U	NR	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U
1,1-DICHLOROETHANE	µg/L	U	2.2 U	NR	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 UJ	2.2 U
1,1-DICHLOROETHENE	µg/L	U	2.9 U	NR	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 UJ	2.9 U
1,2,4-TRICHLOROBENZENE	µg/L	U	3.5 U	NR	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	U	3.5 U	NR	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	µg/L	U	3.5 U	NR	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U
1,2-DICHLOROBENZENE	µg/L	U	3.5 U	NR	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U
1,2-DICHLOROETHANE	µg/L	U	1.7 U	NR	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U
1,2-DICHLOROETHYLENES	µg/L	U	2.2 U	NR	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 UJ	2.2 U
1,2-DICHLOROPROPANE	µg/L	U	2.2 U	NR	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 UJ	2.2 U
1,3-DICHLOROBENZENE	µg/L	U	3.5 U	NR	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U
1,4-DICHLOROBENZENE	µg/L	U	3.5 U	NR	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U
2-HEXANONE	µg/L	U	4.6 U	NR	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 UJ	4.6 U
ACETONE	µg/L	U	28	NR	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	21 J	5.6 U
BENZENE	µg/L	U	0.5 U	NR	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.26 J	0.5 U

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TABLE 3-6
Monitoring Well Groundwater Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:			MW-30I		MW-30I		MW-31DA		MW-31DA		MW-31I		MW-31I		MW-34D		MW-34I		MW-35I	
Field Sample Identification:			05CB32-53		05CB32-61		05CB32-45		05CB32-46		05CB32-54		05CB32-55		05CB32-37		05CB32-44		05CB32-48	
Matrix:			Water		Water		Water		Water, Dup		Water		Water, Dup		Water		Water		Water	
Sample Collection Date:			5/13/2005		7/7/2005		5/9/2005		5/9/2005		5/12/2005		5/12/2005		5/11/2005		5/9/2005		5/12/2005	
BROMOCHLOROMETHANE	µg/L	U	3.5	U	NR		3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
BROMODICHLOROMETHANE	µg/L	U	1.6	U	NR		1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	U
BROMOFORM	µg/L	U	1.8	U	NR		1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	UJ	1.8	U
BROMOMETHANE	µg/L	U	2.8	U	NR		2.8	U	2.8	U	2.8	U	2.8	U	2.8	U	2.8	UJ	2.8	U
CARBON DISULFIDE	µg/L	U	2.5	U	NR		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
CARBON TETRACHLORIDE	µg/L	U	1.4	U	NR		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U
CHLOROBENZENE	µg/L	U	1.4	U	NR		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U
CHLOROETHANE	µg/L	U	5.9	U	NR		5.9	U	5.9	U	5.9	U	5.9	U	5.9	U	5.9	UJ	5.9	U
CHLOROFORM	µg/L	U	2.4	U	NR		2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	UJ	2.4	U
CHLOROMETHANE	µg/L	U	3.2	U	NR		3.2	U	3.2	U	3.2	U	3.2	U	3.2	U	3.2	UJ	3.2	U
CIS-1,3-DICHLOROPROPENE	µg/L	U	1.4	U	NR		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U
CYCLOHEXANE	µg/L	U	3.5	U	NR		3.5	U	0.38	J	3.5	U	3.5	U	3.5	U	0.42	J	3.5	U
DIBROMOCHLOROMETHANE	µg/L	U	1.7	U	NR		1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	UJ	1.7	U
DICHLORODIFLUOROMETHANE	µg/L	U	3.5	U	NR		3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
DIMETHYL BENZENE	µg/L	U	1.7	U	NR		1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	UJ	1.7	U
ETHYLBENZENE	µg/L	U	1.5	U	NR		1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ	1.5	U
ISOPROPYLBENZENE (CUMENE)	µg/L	U	3.5	U	NR		3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
METHYL ACETATE	µg/L	U	3.5	U	NR		3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
METHYL ETHYL KETONE (2-BUTANONE)	µg/L	U	7.4	U	NR		7.4	U	7.4	U	7.4	U	7.4	U	7.4	U	7.4	UJ	7.4	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	µg/L	U	3.5	U	NR		3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
METHYLCYCLOHEXANE	µg/L	U	3.5	U	NR		0.61	J	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
METHYLENE CHLORIDE	µg/L	U	3.1	U	NR		3.1	U	3.1	U	3.1	U	3.1	U	3.1	U	3.1	UJ	3.1	U
STYRENE	µg/L	U	1.4	U	NR		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U
TETRACHLOROETHYLENE(PCE)	µg/L	U	1.4	U	NR		1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U
TOLUENE	µg/L	U	0.22	J	NR		1	U	1	U	1	U	1	U	1	U	4.5	J	1	U
TRANS-1,3-DICHLOROPROPENE	µg/L	U	1.5	U	NR		1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ	1.5	U
TRICHLOROETHYLENE (TCE)	µg/L	U	1.6	U	NR		1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	UJ	1.6	U
TRICHLOROFLUOROMETHANE	µg/L	U	3.5	U	NR		3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
VINYL CHLORIDE	µg/L	U	3.5	U	NR		3.5	U	3.5	U	3.5	U	3.5	U	3.5	U	3.5	UJ	3.5	U
Wet Chemistry																				
ALKALINITY, BICARBONATE (AS CACO3)	mg/L		169		NR		82		99		176		62		20		50		171	
ALKALINITY, CARBONATE (AS CACO3)	mg/L	U	0.5	U	NR		82		99		0.5	U	0.5	U	0.5	U	1,850		0.5	U
ALKALINITY, TOTAL (AS CACO3)	mg/L		169		NR		82		99		176		62		20		1,900		171	
CHLORIDE (AS CL)	mg/L		324		NR		6,570		6,780		379		350		25,000		12,700		13,100	J
NITROGEN, NITRATE (AS N)	mg/L	U	0.0201	U	NR		0.0201	U	0.0201	U	0.0201	UJ	0.0201	UJ	0.0201	U	0.0201	U	0.0586	J
NITROGEN, NITRITE	mg/L		NR		NR		0.0118	U	0.0118	U	NR		NR		0.0275	J	NR		NR	
SULFATE (AS SO4)	mg/L		60.1		NR		92.6		88.8		146		141		98.4		12.5		25.5	J

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