TABLE 3-7
Groundwater MNA Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		GMW-07D	GMW-10D	GMW-14D	GMW-15D	GMW-16D	GMW-01D	WMW-16D2	MW-16D2A	WMW-17D	MW-17D2	WMW-18D	WMW-19D2	WMW-19DR	WMW-20D
Field Sample Identification:		05CB32-15	05CB32-43	05CB32-22	05CB32-19	05CB32-29	05CB32-18	05CB32-02	05CB32-26	05CB32-20	05CB32-57	05CB32-14	05CB32-23	05CB32-24	05CB32-13
Matrix:		Water	Water	Water	Water	Water	Water	Wate	Water	Water	Water	Water	Water	Water	Water
Sample Collection Date:		5/5/2005	5/9/2005	5/6/2005	5/6/2005	5/10/2005	5/5/2005	5/3/2005	5/10/2005	5/6/2005	6/22/2005	5/5/2005	5/6/2005	5/6/2005	5/5/2005
Metals	**Units**														
IRON	□g/L	9,550	11,100 J	1,060	2,850	9,330 J	591	6,480	2,620 J	8,880	16,100	817	12,600	9,300	23,900
MANGANESE	□g/L	307	1290 J	83.4	509	435 J	29.4	448	175 J	295	633	75	1,010	287	2,600
Metals															
BROMIDE	mg/L	0.27 J	188	10.5	18	25.9	1.01	28.5	42.1	53.7	1 U	1.37	491	289	76.9
Wet Chemistry															
ALKALINITY, BICARBONATE (AS CACO3)	mg/L	234	13	131	120	153	172	141	72	62	54	231	98	146	28
ALKALINITY, CARBONATE (AS CACO3)	mg/L	0.5 U	13	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	32	0.5 U	0.5 U	0.5 U	0.5 U	146	0.5 U
ALKALINITY, TOTAL (AS CACO3)	mg/L	234	13	131	120	153	172	141	104	62	54	231	98	146	28
CARBON DIOXIDE	□g/L	9,430	3,060	5,970	12,400	23,000	6,150	23,000	91.9 J	11,700	19,700	10,200	19,400	23,800	6,980
CHLORIDE (AS CL)	mg/L	85.9	22,500	453	1,680	3,500	61.4	41.2	5380	2,690	8,480	244	6,070	2,170	18,900
ETHANE	□g/L	10 U	1.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ETHENE	□g/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9 J	10 U	2.4 J	1.8 J	10 U
METHANE	□g/L	14.8 U	696	7.9 J	25.8	157	9.9 U	284	238	162 U	50.2	10 U	452	82.3	436
NITROGEN, NITRATE (AS N)	mg/L	0.0201 U	0.0316 J	0.0201 UJ	0.0201 UJ	0.0201 U	0.0201 UJ	0.0201 U	0.0201 U	0.0201 UJ	0.0201 U	0.0716 J	0.0201 UJ	0.0201 U	0.0201 U
NITROGEN, NITRITE	mg/L	0.0118 U	0.0414 J	0.0118 UJ	0.0118 UJ	0.0118 U	0.0118 UJ	0.0118 UJ	0.0118 U	0.0118 UJ	NR	0.0118 U	0.0118 UJ	0.0148 J	0.0151 J
PH	pH units	7.55	6.75	7.64	7.06	7.05	7.67	6.85	10.7	6.94	6.36	7.52	6.69	6.88	6.7
SULFATE (AS SO4)	mg/L	111	45.2	42.6	91	30.5	152	28.6	15.7	40.1	36.8	147	133	20.2	64.4
TOTAL ORGANIC CARBON	mg/L	0.368 U	5.83	2.42	1.96 U	0.368 U	1.51 U	3.5 J	3.78 J	3.66	4.45	0.368 U	9.99	15.3	2.1

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 3-7
Groundwater MNA Samples
Velsicol Chemical Site - Source Migration Investigation

Field Sample Location:		WMW-21D2R	WMW-21DR	WMW-22D	WMW-22D	WMW-27D	WMW-27D	WMW-28D	WMW-30D	WMW-31D	MW-31DA	MW-31DA	WMW-32D	WMW-33D	MW-34D
Field Sample Identification:		05CB32-42	05CB32-41	05CB32-11	05CB32-12	05CB32-07	05CB32-08	05CB32-09	05CB32-05	05CB32-06	05CB32-45	05CB32-46	05CB32-01	05CB32-17	05CB32-37
Matrix:		Water	Water	Water	Water, Dup	Water	Water, Dup	Water	Water	Water	Water	Water, Dup	Water	Water	Water
Sample Collection Date:		5/8/2005	5/8/2005	5/5/20052	5/5/2005	5/4/2005	5/4/2005	5/4/2005	5/4/2005	5/4/2005	5/9/2005	5/9/2005	5/3/2005	5/5/2005	5/11/2005
Metals	**Units**														
IRON	µg/L	12,400 J	21,400 J	6,710	6,920	938	969	2,010	3,120	13,300	17,000 J	17,100 J	886	1,280	18,400 J
MANGANESE	µg/L	735 J	1,440 J	255	263	39.9	34.3	116	292	1470	992 J	992 J	33.4	178	1,720 J
Metals															
BROMIDE	mg/L	61.2	128	35.5	37.1	0.14 J	0.13 J	0.17 J	4.56	30.9	23.8	32.6	0.36 J	8.07	315
Wet Chemistry															
ALKALINITY, BICARBONATE (AS CACO3)	mg/L	80	51	84	71	189	206	241	235	135	82	99	198	130	20
ALKALINITY, CARBONATE (AS CACO3)	mg/L	80	51	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	82	99	0.5 U	0.5 U	0.5 U
ALKALINITY, TOTAL (AS CACO3)	mg/L	80	51	84	71	189 J	206	241	235	135	82	99	198	130	20
CARBON DIOXIDE	µg/L	18,700	15,900	12,400	12,400	3,590	3,760	8,030	11,900	29,300	17,000	17,000	2,700	6,960	6,860
CHLORIDE (AS CL)	mg/L	6,080	12,300	3,050	3,110	27	29.9	103	1,260	4,750	6,570	6,780	22.5	868	25,000
ETHANE	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ETHENE	µg/L	10 U	0.58 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
METHANE	µg/L	24.1	196	96.7	97.6	119	125	52.1	1750	61	198	205	58.3	14 U	783
NITROGEN, NITRATE (AS N)	mg/L	0.0201 U	0.0201 U	0.0201 U	0.0353 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 UJ	0.0201 U
NITROGEN, NITRITE	mg/L	0.027 J	0.0118 U	0.0118 U	0.0251 J	0.0125 J	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 UJ	0.0275 J
PH	pH units	6.01	6.36	7.04	7.07	8.11	7.93	7.6	7.52	7.01	6.69	6.73	7.94	7.44	6.14 J
SULFATE (AS SO4)	mg/L	66.3	73.4	41.3	38.6	28.3	29.3	56.3	7.92	95.7	92.6	88.8	98.6	105	98.4
TOTAL ORGANIC CARBON	mg/L	3.43 U	4.33	2.1	1.86	0.368 U	0.89 J	0.368 U	21.2	1.6	3.97	3.93	2.85 J	2.47	9.82

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