EPA Region 5 Records Ctr.
269180

Free-Phase Hydrocarbon Investigation Report

Volume 2: Tables and Appendices A – F

1190505040 -- Madison County -- ILR000128249
The Hartford Area Hydrocarbon Plume Site
Hartford, Illinois

Prepared for:
THE HARTFORD WORKING GROUP
Hartford, Illinois

Clayton Project No. 15-03095.14.006
October 29, 2004

CLAYTON GROUP SERVICES, INC.
3140 Finley Road
Downers Grove, Illinois 60515
630.795.3200

TABLES

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-29	07/12/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	10.8	
		7.5-10.0	9.7	
		10.0-12.5	25.3	N. Olive
		12.5-15.0	41.3	Clay above Rand below N. Olive
		15.0-17.5	64.1	Rand
		17.5-20.0	750	
		20.0-22.5	276	
		22.5-25.0	133	
MP-30	07/21/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	0	
		7.5-10.0	0	
		10.0-12.5	0	N. Olive
		12.5-15.0	0	
		15.0-17.5	27.4	
		17.5-20.0	357	Clay above Rand below N. Olive
		20.0-22.5	254	
		22.5-25.0	>2,000	Rand
		25.0-27.5	156	
		27.5-30.0	110	
		30.0-32.5	64.2	Clay above Main below Rand
		32.5-35.0	68.2	
		35.0-37.5	>2,000	Main
		37.5-40.0	>2,000	
MP-31	07/20/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	--	
		10.0-12.5	5.9	
		12.5-15.0	2.8	N. Olive
		15.0-17.5	9.3	
		17.5-20.0	6.9	Clay above Main below N. Olive
		20.0-22.5	6.7	
		22.5-25.0	9.8	Main
		25.0-27.5	26.4	
		27.5-30.0	751	
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-32	07/19/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	--	
		10.0-12.5	4.8	
		12.5-15.0	8.7	N. Olive
		15.0-17.5	8.3	Clay above Rand below N. Olive
		17.5-20.0	302.0	Rand
		20.0-22.5	>2,000	
		22.5-25.0	>2,000	
		25.0-27.5	>2,000	
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	Clay above Main below Rand
		32.5-35.0	>2,000	Main
MP-33	07/19/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	--	
		10.0-12.5	8.8	
		12.5-15.0	9.1	N. Olive
		15.0-17.5	11.4	Clay above Rand below N. Olive
		17.5-20.0	1,363	Rand
		20.0-22.5	>2,000	
		22.5-25.0	32.6	
		25.0-27.5	>2,000	Clay above Main below Rand
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	
MP-34	07/19/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	--	
		10.0-12.5	9.5	
		12.5-15.0	28.7	N. Olive
		15.0-17.5	13.2	Clay above Rand below N. Olive
		17.5-20.0	24.3	Rand
		20.0-22.5	>2,000	
		22.5-25.0	44.5	
		25.0-27.5	997	Clay above Main below Rand
		27.5-30.0	>2,000	Main
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-35	07/13/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	0	
		7.5-10.0	0.1	
		10.0-12.5	0.1	
		12.5-15.0	10.1	
		15.0-17.5	5.1	N. Olive
		17.5-20.0	432	Clay above Rand below N. Olive
		20.0-22.5	1,339	Rand
		22.5-25.0	>2,000	
		25.0-27.5	550	Clay above Main below Rand
		27.5-30.0	1,639	Main
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	
MP-36	07/12/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	17.2	
		10.0-12.5	27.2	N. Olive
		12.5-15.0	15.7	Clay above Rand below N. Olive
		15.0-17.5	348.0	Rand
		17.5-20.0	1,771	
		20.0-22.5	329	
MP-37	07/16/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	33.1	
		7.5-10.0	42.2	
		10.0-12.5	530.0	N. Olive
		12.5-15.0	848.0	
		15.0-17.5	76.3	Clay above Rand below N. Olive
		17.5-20.0	1231.0	Rand
		20.0-22.5	362	
		22.5-25.0	64.5	Clay in Rand
		25.0-27.5	75.5	Rand
		27.5-30.0	27.0	Clay above Main below Rand
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-38	07/19/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	16.6	
		10.0-12.5	14.0	N. Olive
		12.5-15.0	25.9	Clay above Rand below N. Olive
		15.0-17.5	33.8	Rand
		17.5-20.0	129	
		20.0-22.5	65.3	
		22.5-25.0	>2,000	Clay above Main below Rand
		25.0-27.5	>2,000	Main
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	
MP-39	07/20/04	0-2.5	9.0	Fill/Clay above N. Olive
		2.5-5.0	7.5	
		5.0-7.5	3.2	
		7.5-10.0	1.1	
		10.0-12.5	6.2	N. Olive
		12.5-15.0	5.1	Clay above Rand below N. Olive
		15.0-17.5	2.8	
		17.5-20.0	13.6	
		20.0-22.5	7.0	
		22.5-25.0	2.9	
		25.0-27.5	10.1	Rand
		27.5-30.0	21.3	Clay above Main below Rand
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	
MP-40	07/20/04	0-2.5	--	Fill/Clay above Rand
		2.5-5.0	--	
		5.0-7.5	13.2	
		7.5-10.0	9.9	
		10.0-12.5	12.2	
		12.5-15.0	22.8	
		15.0-17.5	18.2	
		17.5-20.0	20.1	
		20.0-22.5	17.3	
		22.5-25.0	24.7	
		25.0-27.5	19.4	
		27.5-30.0	88.1	Rand
		30.0-32.5	>2,000	Clay above Main below Rand
		32.5-35.0	>2,000	
		35.0-37.5	>2,000	Main
		37.5-40.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-41	07/12/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	15.5	
		10.0-12.5	166	
		12.5-15.0	36.4	N. Olive
		15.0-17.5	--	Clay above Rand below N. Olive
		17.5-20.0	--	
		20.0-22.5	22.0	Rand
		22.5-25.0	>2,000	
		25.0-27.5	831	Clay above Main below Rand
		27.5-30.0	126	
		30.0-32.5	--	
		32.5-35.0	--	Main
MP-42	07/12/04	0-2.5	0	Fill/Clay above N. Olive
		2.5-5.0	1.5	
		5.0-7.5	0.0	
		7.5-10.0	5.6	
		10.0-12.5	5.5	N. Olive
MP-43	07/21/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	0	
		7.5-10.0	0	N. Olive
		10.0-12.5	0	Clay above Main below N. Olive
		12.5-15.0	0	Main
		15.0-17.5	74.1	
		17.5-20.0	7.9	
		20.0-22.5	>2,000	
		22.5-25.0	>2,000	
		25.0-27.5	>2,000	
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-44	07/13/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	17.8	
		10.0-12.5	68.1	
		12.5-15.0	36.8	N. Olive
		15.0-17.5	37.2	Clay above Rand below N. Olive
		17.5-20.0	67.7	
		20.0-22.5	>2,000	Rand
		22.5-25.0	>2,000	
		25.0-27.5	249	Clay above Main below Rand
		27.5-30.0	338	
		30.0-32.5	>2,000	
		32.5-35.0	1,587	Main
MP-45	07/13/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	61.7	
		10.0-12.5	67.8	N. Olive
		12.5-15.0	83.4	Clay above Rand below N. Olive
		15.0-17.5	109	
		17.5-20.0	247	Rand
		20.0-22.5	592	
		22.5-25.0	1,233	
		25.0-27.5	233	Clay above Main below Rand
		27.5-30.0	1,851	
		30.0-32.5	1,677	Main
		32.5-35.0	1,666	
MP-46	07/13/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	2.7	
		7.5-10.0	17.9	
		10.0-12.5	128	N. Olive
		12.5-15.0	84.7	
		15.0-17.5	95.5	Clay above Rand below N. Olive
		17.5-20.0	78.1	
		20.0-22.5	228	Rand
		22.5-25.0	901	
		25.0-27.5	755	Clay above Main below Rand
		27.5-30.0	1,413	
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-47	07/13/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	14.7	
		7.5-10.0	4.0	N. Olive
		10.0-12.5	27.4	
		12.5-15.0	26.3	
		15.0-17.5	151	Clay above Rand below N. Olive
		17.5-20.0	782	
		20.0-22.5	511	Rand
		22.5-25.0	905	Clay above Main below Rand
		25.0-27.5	1,210	
		27.5-30.0	1,515	
		30.0-32.5	914	Main
		32.5-35.0	1,108	
MP-48	07/20/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	5.2	
		10.0-12.5	11.2	
		12.5-15.0	11.8	
		15.0-17.5	12.2	N. Olive
		17.5-20.0	24.3	
		20.0-22.5	50.3	Clay above Main Shallow below N. Olive
		22.5-25.0	81.4	
		25.0-27.5	1,704	Main Shallow
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	Clay above Main below Main Shallow
		32.5-35.0	>2,000	Main
MP-49	07/20/04	0-2.5	--	Fill/Clay above Rand
		2.5-5.0	--	
		5.0-7.5	17.2	
		7.5-10.0	16.8	
		10.0-12.5	18.1	
		12.5-15.0	19.2	
		15.0-17.5	23.3	
		17.5-20.0	36.7	
		20.0-22.5	35.6	
		22.5-25.0	25.6	Rand
		25.0-27.5	15.9	Clay above Main below Rand
		27.5-30.0	>2,000	Main
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-50	07/15/04	0-2.5	--	Fill/Clay above Rand
		2.5-5.0	--	
		5.0-7.5	11.6	
		7.5-10.0	7.9	
		10.0-12.5	7.9	
		12.5-15.0	22.8	
		15.0-17.5	13.4	
		17.5-20.0	490	
		20.0-22.5	228	Rand
		22.5-25.0	1,534	
		25.0-27.5	1,966	Clay above Main below Rand
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	
MP-51	07/15/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	10.5	
		7.5-10.0	7.0	
		10.0-12.5	12.1	
		12.5-15.0	4.1	N. Olive
		15.0-17.5	13.9	Clay above Rand below N. Olive
		17.5-20.0	>2,000	
		20.0-22.5	>2,000	Rand
		22.5-25.0	1,446	
		25.0-27.5	>2,000	Clay above Main below Rand
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	
MP-52	07/15/04	0-2.5	--	Fill/Clay above Rand
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	18.9	
		10.0-12.5	28.3	
		12.5-15.0	58.8	
		15.0-17.5	>2,000	
		17.5-20.0	>2,000	Rand
		20.0-22.5	>2,000	
		22.5-25.0	1,387	Clay above Main below Rand
		25.0-27.5	783	
		27.5-30.0	>2,000	Main
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-53	07/15/04	0-2.5	--	Fill/Clay above Rand
		2.5-5.0	--	
		5.0-7.5	13.3	
		7.5-10.0	7.3	
		10.0-12.5	--	
		12.5-15.0	6.7	
		15.0-17.5	12.4	
		17.5-20.0	>2,000	Rand
		20.0-22.5	1,610	
		22.5-25.0	>2,000	
		25.0-27.5	1,052	Clay above Main below Rand
		27.5-30.0	1,976	
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	
MP-54	07/15/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	14.9	
		7.5-10.0	213	N. Olive
		10.0-12.5	21.1	
		12.5-15.0	68.3	
		15.0-17.5	41.1	Clay above Rand below N. Olive
		17.5-20.0	>2,000	
		20.0-22.5	>2,000	Rand
		22.5-25.0	432	
		25.0-27.5	458	Clay above Main below Rand
		27.5-30.0	744	
		30.0-32.5	562	
		32.5-35.0	>2,000	Main
MP-55	07/16/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	23.0	N. Olive
		7.5-10.0	28.0	
		10.0-12.5	65.0	
		12.5-15.0	135	
		15.0-17.5	96.1	
		17.5-20.0	>2,000	Clay above Rand below N. Olive
		20.0-22.5	>2,000	Rand
		22.5-25.0	542	
		25.0-27.5	>2,000	Clay above Main below Rand
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-56	07/16/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	7.7	
		7.5-10.0	9.4	N. Olive
		10.0-12.5	9.6	Clay above Rand below N. Olive
		12.5-15.0	60.3	
		15.0-17.5	64.2	
		17.5-20.0	128	
		20.0-22.5	224	
		22.5-25.0	>2,000	Rand
		25.0-27.5	>2,000	
		27.5-30.0	>2,000	Clay above Main below Rand
		30.0-32.5	>2,000	Main
		32.5-35.0	>2,000	
MP-57	07/15/04	0-2.5	--	Fill/Clay above N. Olive
		2.5-5.0	--	
		5.0-7.5	10.8	
		7.5-10.0	32.3	N. Olive
		10.0-12.5	217	
		12.5-15.0	23.4	
		15.0-17.5	478	Clay above Rand below N. Olive
		17.5-20.0	>2,000	Rand
		20.0-22.5	>2,000	
		22.5-25.0	>2,000	Clay above Main below Rand
		25.0-27.5	>2,000	
		27.5-30.0	570	
		30.0-32.5	1,227	Main
		32.5-35.0	811	
MP-58	07/21/04	0-2.5	--	Fill/Clay above Main
		2.5-5.0	--	
		5.0-7.5	0	
		7.5-10.0	0	
		10.0-12.5	0	
		12.5-15.0	94.3	
		15.0-17.5	8.7	
		17.5-20.0	175	Main
		20.0-22.5	444	
		22.5-25.0	>2,000	
		25.0-27.5	>2,000	
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-59	07/21/04	0-2.5	--	Fill/Clay above Main
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	--	
		10.0-12.5	0	
		12.5-15.0	0	
		15.0-17.5	0	Main
		17.5-20.0	26.2	
		20.0-22.5	584	
		22.5-25.0	>2,000	
		25.0-27.5	>2,000	
		27.5-30.0	>2,000	
MP-60	07/22/04	0-2.5	--	Fill/Clay above Main
		2.5-5.0	--	
		5.0-7.5	25.7	
		7.5-10.0	207	
		10.0-12.5	3.8	
		12.5-15.0	19.7	
		15.0-17.5	69.8	
		17.5-20.0	1,956	Main
		20.0-22.5	1,039	
		22.5-25.0	1,871	
		25.0-27.5	>2,000	
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	
MP-61	07/22/04	0-2.5	--	Fill/Clay above Main
		2.5-5.0	--	
		5.0-7.5	4.1	
		7.5-10.0	6.6	
		10.0-12.5	3.0	
		12.5-15.0	6.5	
		15.0-17.5	5.8	
		17.5-20.0	5.1	Main
		20.0-22.5	6.8	
		22.5-25.0	4.4	
		25.0-27.5	14.3	
		27.5-30.0	18.8	
		30.0-32.5	20.8	
		32.5-35.0	20.8	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-62	07/22/04	0-2.5	--	Fill/Clay above Main
		2.5-5.0	--	
		5.0-7.5	18.1	
		7.5-10.0	14.6	
		10.0-12.5	16.5	
		12.5-15.0	16.5	
		15.0-17.5	17.9	
		17.5-20.0	23.8	Main
		20.0-22.5	36.1	
		22.5-25.0	35.7	
		25.0-27.5	30.9	
		27.5-30.0	97.0	
		30.0-32.5	30.3	
		32.5-35.0	21.2	
MP-63	07/22/04	0-2.5	--	Fill/Clay above Main
		2.5-5.0	--	
		5.0-7.5	--	
		7.5-10.0	--	
		10.0-12.5	15.7	
		12.5-15.0	15.5	
		15.0-17.5	24.9	
		17.5-20.0	53.1	Main
		20.0-22.5	26.5	
		22.5-25.0	43.5	
		25.0-27.5	62.5	
		27.5-30.0	57.5	
		30.0-32.5	36.3	
		32.5-35.0	32.6	
MP-64	07/22/04	0-2.5	--	Fill/Clay above Main
		2.5-5.0	--	
		5.0-7.5	881	
		7.5-10.0	374	
		10.0-12.5	82.4	
		12.5-15.0	897	
		15.0-17.5	--	
		17.5-20.0	165	Main
		20.0-22.5	94.5	
		22.5-25.0	480	
		25.0-27.5	1,990	
		27.5-30.0	>2,000	
		30.0-32.5	>2,000	
		32.5-35.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-65	08/18/04	0-2.0	--	Fill/Clay above Main
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	--	
		8.0-10.0	0	
		10.0-12.0	0.9	Main
		12.0-14.0	0	
		14.0-16.0	0	
		16.0-18.0	0	
		18.0-20.0	1.7	
		20.0-22.0	0	
		22.0-24.0	0.7	
		24.0-26.0	0	
		26.0-28.0	0	
		28.0-30.0	0	
		30.0-32.0	0	
		32.0-34.0	0	
		34.0-36.0	0	
MP-66	08/20/04	0-2.0	0	Fill/Clay above Main
		2.0-4.0	0	
		4.0-6.0	0	
		6.0-8.0	0	
		8.0-10.0	0	
		10.0-12.0	0	
		12.0-14.0	0	Main
		14.0-16.0	0.2	
		16.0-18.0	0	
		18.0-20.0	0	
		20.0-22.0	0	
		22.0-24.0	0	
		24.0-26.0	0	
		26.0-28.0	0.4	
		28.0-30.0	0.5	
		30.0-32.0	0	
		32.0-34.0	0	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
MP-67	08/19/04	0-2.0	--	Fill/Clay above Main
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	--	
		8.0-10.0	0	
		10.0-12.0	0	
		12.0-14.0	0	
		14.0-16.0	2.3	
		16.0-18.0	0	
		18.0-20.0	0	Main
		20.0-22.0	1.2	
		22.0-24.0	--	
		24.0-26.0	0	
		26.0-28.0	0	
HMW-38	08/03/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	29.3	
		8.0-10.0	95.4	
		10.0-12.0	68.9	N. Olive
		12.0-14.0	55.4	
		14.0-16.0	45.8	
		16.0-18.0	191	Clay above Main below N. Olive
		18.0-20.0	135	
		20.0-22.0	402	
		22.0-24.0	1,997	
		24.0-26.0	>2,000	
		26.0-28.0	1,970	
		28.0-30.0	1,124	
		30.0-32.0	1,783	
		32.0-34.0	1,962	Main
		34.0-36.0	>2,000	
		36.0-38.0	1,535	
		38.0-40.0	429	
		40.0-42.0	29.8	
		42.0-44.0	17.5	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
HMW-39	08/30/04	0-2.0	0	Fill/Clay above Rand/N. Olive
		2.0-4.0	0	
		4.0-6.0	0	
		6.0-8.0	0	
		8.0-10.0	5.0	
		10.0-12.0	5.9	
		12.0-14.0	6.7	Rand/N. Olive
		14.0-16.0	12.5	
		16.0-18.0	14.7	
		18.0-20.0	13.8	
		20.0-22.0	6.5	
		22.0-24.0	8.1	
		24.0-26.0	14.5	
		26.0-28.0	13.2	
		28.0-30.0	14.5	
		30.0-32.0	18.7	Clay above Main below Rand/N. Olive
		32.0-34.0	12.2	Main
		34.0-36.0	13.6	
HMW-40	08/03/04	0-2.0	--	Fill/Clay above Main
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	25.9	
		8.0-10.0	43.3	
		10.0-12.0	1.4	
		12.0-14.0	1.1	
		14.0-16.0	0.6	
		16.0-18.0	2.6	
		18.0-20.0	2.0	
		20.0-22.0	0.9	
		22.0-24.0	0.7	Main
		24.0-26.0	2.5	
		26.0-28.0	1.7	
		28.0-30.0	1.6	
		30.0-32.0	2.4	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
HMW-41	08/04/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	25.7	
		8.0-10.0	29.7	
		10.0-12.0	29.3	
		12.0-14.0	22.2	
		14.0-16.0	26.7	N. Olive
		16.0-18.0	34.2	
		18.0-20.0	35.5	Clay above Main below N. Olive
		20.0-22.0	31.1	
		22.0-24.0	48.4	Main
		24.0-26.0	59.5	
		26.0-28.0	91.2	
		28.0-30.0	165	
		30.0-32.0	53.5	
		32.0-34.0	24.7	
		34.0-36.0	18.6	
HMW-42	08/04/04	0-2.0	--	Fill/Clay above Main
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	18.3	
		8.0-10.0	22.3	
		10.0-12.0	23.6	
		12.0-14.0	19.7	
		14.0-16.0	22.1	
		16.0-18.0	24.3	
		18.0-20.0	25.0	Main
		20.0-22.0	31.8	
		22.0-24.0	39.8	
		24.0-26.0	25.7	
		26.0-28.0	37.8	
		28.0-30.0	42.4	
		30.0-32.0	91.6	
		32.0-34.0	273	
		34.0-36.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
HMW-43	08/04/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	4.4	
		8.0-10.0	5.3	N. Olive
		10.0-12.0	15.0	
		12.0-14.0	77.7	
		14.0-16.0	71.6	
		16.0-18.0	740	
		18.0-20.0	1,824	Clay above Main below N. Olive
		20.0-22.0	560	
		22.0-24.0	>2,000	
		24.0-26.0	>2,000	
		26.0-28.0	>2,000	
		28.0-30.0	>2,000	
		30.0-32.0	129	
		32.0-34.0	>2,000	Main
		34.0-36.0	74.6	
HMW-44	08/05/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	1,556	
		8.0-10.0	1,448	N. Olive
		10.0-12.0	1,847	
		12.0-14.0	1,839	
		14.0-16.0	1,574	
		16.0-18.0	1,440	Clay above Rand below N. Olive
		18.0-20.0	1,170	
		20.0-22.0	1,714	Rand
		22.0-24.0	1,640	
		24.0-26.0	1,206	Clay above Main below Rand
		26.0-28.0	1,739	
		28.0-30.0	1,059	Main
		30.0-32.0	>2,000	
		32.0-34.0	1,110	
		34.0-36.0	>2,000	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
HMW-45	08/04/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	--	
		8.0-10.0	19.7	
		10.0-12.0	10.9	
		12.0-14.0	31.7	N. Olive
		14.0-16.0	16.1	
		16.0-18.0	10.2	
		18.0-20.0	30.4	Clay above Rand below N. Olive
		20.0-22.0	12.0	
		22.0-24.0	487	
		24.0-26.0	1,098	Rand
		26.0-28.0	662	
		28.0-30.0	100	Clay above Main below Rand
		30.0-32.0	1,509	
		32.0-34.0	1,939	Main
		34.0-36.0	>2,000	
HMW-46	08/02/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	23.3	
		8.0-10.0	42.7	
		10.0-12.0	61.9	
		12.0-14.0	114	N. Olive
		14.0-16.0	748	
		16.0-18.0	470	
		18.0-20.0	1,277	Clay above Main below N. Olive
		20.0-22.0	746	
		22.0-24.0	1,194	
		24.0-26.0	595	
		26.0-28.0	468	
		28.0-30.0	1,361	
		30.0-32.0	112	
		32.0-34.0	--	Main
		34.0-36.0	--	
		36.0-38.0	1,225	
		38.0-40.0	1,086	
		40.0-42.0	1,427	
		42.0-44.0	77.7	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
HMW-47	08/02/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	19.1	
		8.0-10.0	17.8	
		10.0-12.0	24.6	
		12.0-14.0	11.7	
		14.0-16.0	20.2	N. Olive
		16.0-18.0	24.4	
		18.0-20.0	21.7	
		20.0-22.0	20.5	Clay above EPA below N. Olive
		22.0-24.0	20.3	
		24.0-26.0	13.7	
		26.0-28.0	66.6	
		28.0-30.0	14.1	
		30.0-32.0	481	
		32.0-34.0	155	
		34.0-36.0	111	
		36.0-38.0	1,413	EPA
		38.0-40.0	1,535	
		40.0-42.0	1,368	
		42.0-44.0	110	Clay above Main below EPA
				Main
HMW-48	08/02/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	379	
		8.0-10.0	1,711	N. Olive
		10.0-12.0	1,739	
		12.0-14.0	1,660	
		14.0-16.0	1,005	
		16.0-18.0	1,030	Clay above Rand below N. Olive
		18.0-20.0	1,422	
		20.0-22.0	1,562	Rand
		22.0-24.0	1,477	
		24.0-26.0	201	
		26.0-28.0	659	
		28.0-30.0	91.4	
		30.0-32.0	53.1	Clay above EPA below Rand
		32.0-34.0	228	EPA
		34.0-36.0	1,430	
		36.0-38.0	105	
		38.0-40.0	48.0	
		40.0-42.0	35.7	Clay above Main below EPA
		42.0-44.0	1,712	Main

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
HMW-49	08/24/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-7.0	--	
		7.0-9.0	0	
		9.0-11.0	0	
		11.0-13.0	0	N. Olive
		13.0-15.0	0	Clay above EPA below N. Olive
		15.0-17.0	0	
		17.0-19.0	0.1	
		19.0-21.0	0.3	
		21.0-23.0	30.1	
		23.0-25.0	187	
		25.0-27.0	438	
		27.0-29.0	>2,000	
		29.0-31.0	>2,000	
		31.0-33.0	>2,000	EPA
		33.0-35.0	>2,000	
		35.0-37.0	>2,000	
		37.0-39.0	>2,000	
		39.0-41.0	384	Clay above Main below EPA
		41.0-43.0	>2,000	Main
HMW-50	08/24/04	0-2.0	--	Fill/Clay above Rand
		2.0-4.0	--	
		4.0-7.0	--	
		7.0-9.0	1.2	
		9.0-11.0	0	
		11.0-13.0	0	
		13.0-15.0	9.1	
		15.0-17.0	1.4	
		17.0-19.0	12.2	
		19.0-21.0	0	Rand
		21.0-23.0	14.3	
		23.0-25.0	0	
		25.0-27.0	0	
		27.0-29.0	1.1	Clay above EPA below Rand
		29.0-31.0	0	
		31.0-33.0	0	
		33.0-35.0	0	
		35.0-37.0	0	EPA
		37.0-39.0	0	
		39.0-41.0	0	Clay above Main below EPA
		41.0-43.0	40.2	Main
		43.0-45.0	84.1	
		45.0-47.0	--	

TABLE 3-1
Soil Screening Summary - Monitoring Probe/Well Installations
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

BORING NO.	DATE COLLECTED	SAMPLE INTERVAL (bgs)	PID HEADSPACE (ppm)	STRATUM
HMW-51	08/03/04	0-2.0	--	Fill/Clay above N. Olive
		2.0-4.0	--	
		4.0-6.0	--	
		6.0-8.0	2.5	
		8.0-10.0	5.4	
		10.0-12.0	7.6	N. Olive
		12.0-14.0	4.0	
		14.0-16.0	10.5	Clay above Main below N. Olive
		16.0-18.0	3.6	Main
		18.0-20.0	3.9	
		20.0-22.0	3.0	
		22.0-24.0	1.5	
		24.0-26.0	3.5	
		26.0-28.0	4.4	
		28.0-30.0	1.6	
		30.0-32.0	4.2	
		32.0-34.0	2.2	
		34.0-36.0	0	
HMW-52	08/25/04	0-3.0	--	Fill/Clay above Main
		3.0-5.0	--	
		5.0-8.0	--	
		8.0-10.0	0	
		10.0-12.0	0	
		12.0-14.0	0.1	Main
		14.0-16.0	0	
		16.0-18.0	0	
		18.0-20.0	0	
		20.0-22.0	0	
		22.0-24.0	0	
		24.0-26.0	0	
		26.0-28.0	--	
		28.0-30.0	0.1	
		30.0-32.0	0.1	
		32.0-34.0	0.1	
		34.0-36.0	0.1	

NOTES:
PID = Photoionization Detector
ppm = parts per million
-- = Not analyzed
bgs = below ground surface
Bold depths indicate wet/saturated samples

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
HMW-1	11/19/90		12/29/03	430.29	790776.09	2317419.02	23.10	23.10	-0.32	429.97	407.19	2	PVC	PVC.010	17.80	4.73	0.25	18.12	412.17	22.85	407.44		No	Yes	Rand
HMW-2	11/19/90		12/29/03	430.08	790784.87	2317417.77	36.44	36.44	-0.43	429.65	393.64	2	PVC	PVC.010	25.94	9.82	0.25	26.37	403.71	36.19	393.89	Silty sand	Yes	Yes	EPA
HMW-3	11/19/90		12/29/03	429.38	791444.11	2317205.64	35.00	34.92	-0.66	428.72	394.46	2	PVC	PVC.010	29.29	4.73	0.25	29.94	399.44	34.67	394.71	Silty sand	Yes	Yes	EPA
HMW-4	11/20/90		12/29/03	429.46	791433.95	2317208.28	26.00	26.00	-0.54	428.96	403.46	2	PVC	PVC.010	20.38	4.98	0.25	20.77	408.69	25.75	403.71		Yes	Yes	Rand
HMW-5	11/20/90			433.22			22.25	22.25	-0.48	432.74	410.97	2	PVC	PVC.010	16.79	4.73	0.25	17.27	415.95	22.00	411.22	Upper: Silty clay Lower: Silty sand	Yes	Yes	
HMW-6	11/20/90			432.83			38.24	38.24	-0.44	432.39	394.59	2	PVC	PVC.010	27.73	9.82	0.25	28.17	404.66	37.99	394.84	Silty sand	Yes	Yes	
HMW-7	11/20/90		12/29/03	430.00	791159.27	2317045.11	27.03	27.03	-0.87	429.12	402.97	2	PVC	PVC.010	16.09	9.82	0.25	16.96	413.04	26.78	403.22	Upper: Silty clay Lower: Silty sand	Yes	Yes	Rand
HMW-8	11/21/90		12/29/03	430.15	791142.11	2317044.40	43.00	42.65	-0.41	429.74	387.50	2	PVC	PVC.010	32.17	9.82	0.25	32.58	397.57	42.40	387.75	Upper: Fine sand Lower: Sand with gravel	Yes	Yes	Main
HMW-9	03/22/91		12/29/03	430.47	790773.14	2317391.09	23.00	23.00	-0.24	430.23	407.47	2	PVC	PVC.010	12.47	10.20	0	12.80	417.67	23.00	407.47		No	Yes	N. Olive/Rand
HMW-10	03/22/91		12/29/03	430.47	790773.14	2317391.09	43.00	43.00	-0.27	430.20	387.47	2	PVC	PVC.010	27.33	15.30	0	27.70	402.77	43.00	387.47		No	Yes	EPA/Main
HMW-11	03/20/91						21.00	21.00	-0.62			2	PVC	PVC.010	10.38	10.00	0	11.00		21.00			No	Yes	
HMW-12	03/20/91						39.50	39.50	-0.68			2	PVC	PVC.010	23.32	15.00	0	24.50		39.50			No	Yes	
HMW-13	03/20/91		12/29/03	431.42	790757.93	2317033.88	19.50	19.50	-0.61	430.81	411.92	2	PVC	PVC.010	8.86	10.10	0	9.40	422.02	19.50	411.92		No	Yes	Rand
HMW-14	03/20/91		12/29/03	431.42	790757.93	2317033.88	39.50	39.50	-0.56	430.86	391.92	2	PVC	PVC.010	23.50	15.30	0	24.20	407.22	39.50	391.92		No	Yes	Main
HMW-15	03/21/91			433.40			21.00	21.00	-0.28	433.12	412.40	2	PVC	PVC.010	11.16	10.20	0	10.80	422.60	21.00	412.40		No	Yes	
HMW-16	03/21/91			433.40			43.50	43.50	-0.28	433.12	389.90	2	PVC	PVC.010	27.07	15.30	0	28.20	405.20	43.50	389.90		No	Yes	
HMW-17	03/26/91			431.81			44.00	44.00	-0.34	431.47	387.81	2	PVC	PVC.010	28.70	15.30	0	28.70	403.11	44.00	387.81		No	Yes	
HMW-18	03/26/91		12/29/03	432.01	790758.42	2316674.26	43.00	43.00	-0.43	431.58	389.01	2	PVC	PVC.010	28.15	15.30	0	27.70	404.31	43.00	389.01		No	Yes	Main
HMW-19	03/25/91		12/29/03	431.96	790445.62	2316740.23	43.00	43.00	-0.16	431.80	388.96	2	PVC	PVC.010	27.09	15.60	0	27.40	404.56	43.00	388.96		No	Yes	Main
HMW-20	03/25/91		12/29/03	431.34	790117.35	2317498.63	43.00	43.00	-0.68	430.65	388.34	2	PVC	PVC.010	27.55	15.30	0	27.70	403.64	43.00	388.34		No	Yes	Main
HMW-21	09/04/91		12/29/03	430.38	791078.13	2317075.23	24.40	24.40	-0.33	430.05	405.98	2	PVC	PVC.010	14.35	10.00	0.2	14.20	416.18	24.20	406.18	Upper: Silty clay Lower: Sandy silt	Yes	Yes	Rand
HMW-22	09/04/91		12/29/03	430.38	791078.13	2317075.23	40.00	40.00	-0.23	430.15	390.38	2	PVC	PVC.010	30.47	10.00	0.2	29.80	400.58	39.80	390.58	Sandy silt	Yes	Yes	Main
HMW-23	09/04/91						24.70	24.70	0.52			2	PVC	PVC.020	14.52	10.00	0.2	14.50		24.50		Sandy silt	Yes	Yes	
HMW-24	09/04/91						40.00	40.00	0.52			2	PVC	PVC.020	29.55	10.00	0.2	29.80		39.80		Upper: Silty sand Lower: Fine sand	Yes	Yes	
HMW-25	12/02/03		12/29/03	427.78	789758.95	2316192.37	39.00	38.70	-0.32	427.45	389.08	2	PVC	PVC.010	23.50	14.70	0.3	23.70	404.08	38.40	389.38	Upper: Fine sand Lower: Silty sand	Yes	Yes	Main
HMW-26	12/03/03		12/29/03	425.59	789647.92	2316656.71	40.00	39.70	-0.40	425.20	385.89	2	PVC	PVC.010	24.50	14.70	0.3	24.70	400.89	39.40	386.19	Silty fine sand	Yes	Yes	Main
HMW-27	12/04/03		12/29/03	431.05	789349.95	2317042.45	40.00	39.70	-0.31	430.75	391.35	2	PVC	PVC.010	24.50	14.70	0.3	24.70	406.35	39.40	391.65	Upper: Fine sand Lower: Silty sand	Yes	Yes	Main
HMW-28	12/05/03		12/29/03	431.30	788928.80	2317153.14	40.00	39.70	-0.33	430.97	391.60	2	PVC	PVC.010	24.50	14.70	0.3	24.70	406.60	39.40	391.90	Fine grained sand	Yes	Yes	Main
HMW-29	12/06/03		12/29/03	430.13	788688.12	2317621.08	40.00	39.70	-0.14	429.99	390.43	2	PVC	PVC.010	24.50	14.70	0.3	24.70	405.43	39.40	390.73	Upper: Silty sand Lower: Fine sand	Yes	Yes	Main
HMW-30	03/16/04		04/28/04	430.38	791163.75	2317094.86	45.50	43.90	-0.31	430.07	386.48	2	PVC	PVC.010	23.19	20.00	0.4	23.50	406.88	43.50	386.88	Upper: Silty clay Lower: Medium sand	Yes	Yes	
HMW-31	03/18/04		04/28/04	430.50	791156.20	2317101.18	44.00	43.90	-0.41	430.09	386.60	2	PVC	PVC.010	22.99	20.00	0.4	23.50	407.00	43.50	387.00	Upper: Fine sand, silty sand, clayey silt Lower: Clayey sand, medium sand	Yes	Yes	
HMW-32	03/19/04		04/28/04	430.38	791144.47	2317110.94	44.00	42.90	-0.37	430.01	387.48	2	PVC	PVC.010	22.13	20.00	0.4	22.50	407.88	42.50	387.88	Upper: Silty sand, fine sand, clayey silt Lower: Fine-coarse sand	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
HMW-33	03/19/04		04/28/04	430.54	791129.92	2317123.08	44.00	43.80	-0.41	430.13	386.74	2	PVC	PVC.010	22.99	20.00	0.4	23.40	407.14	43.40	387.14	Upper: Fine sand Lower: Fine-coarse sand	Yes	Yes	
HMW-34	06/11/04		09/22/04	430.20	790777.10	2317369.11	46.00	43.90	-0.37	429.83	386.30	2	PVC	PVC.010	19.00	25.00	0	18.90	411.30	43.90	386.30	Upper: Silt, fine sand Lower: Fine to medium sand	Yes	Yes	
HMW-35	06/12/04		09/22/04	430.11	790778.93	2317378.70	46.00	43.50	-0.30	429.81	386.61	2	PVC	PVC.010	18.50	25.00	0	18.50	411.61	43.50	386.61	Upper: Silt, fine sand Lower: Fine to medium sand	Yes	Yes	
HMW-36	06/13/04		09/22/04	430.28	790782.13	2317392.52	46.00	44.20	-0.37	429.91	386.08	2	PVC	PVC.010	19.20	25.00	0	19.20	411.08	44.20	386.08	Upper: Silt Lower: Fine to medium sand	Yes	Yes	
HMW-37	06/14/04		09/22/04	430.11	790786.49	2317412.03	46.00	44.00	-0.50	429.61	386.11	2	PVC	PVC.010	19.00	25.00	0	19.00	411.11	44.00	386.11	Upper: Silt Lower: Fine to medium sand			
HMW-38A	08/17/04		09/15/04	430.46	791598.14	2316446.87	17.00	17.00	-0.40	430.06	413.46	2	PVC	PVC.010	9.60	6.70	0.3	10.00	420.46	16.70	413.76	Silt	Yes	Yes	N. Olive
HMW-38B	08/17/04		09/15/04	430.43	791602.49	2316447.63	25.60	25.60	-0.19	430.24	404.83	2	PVC	PVC.010	23.41	1.70	0.3	23.60	406.83	25.30	405.13	Clayey silt	Yes	Yes	Main (shallow)
HMW-38C	08/17/04		09/15/04	430.43	791606.92	2316448.39	42.20	42.20	-0.42	430.01	388.23	2	PVC	PVC.010	31.78	9.70	0.3	32.20	398.23	41.90	388.53	Fine to coarse sand	Yes	Yes	Main
HMW-39A	08/31/04		09/15/04	426.74	791060.33	2316262.90	21.00	21.00	-0.28	426.46	405.74	2	PVC	PVC.010	12.72	7.70	0.3	13.00	413.74	20.70	406.04	Upper: Sand Lower: Silty sand	Yes	Yes	Rand/N. Olive
HMW-39B	08/31/04		09/15/04	426.85	791064.20	2316262.80	30.00	30.00	-0.35	426.50	396.85	2	PVC	PVC.010	22.25	7.00	0.4	22.60	404.25	29.60	397.25	Fine sand	Yes	Yes	Rand (deep)
HMW-39C	08/30/04		09/15/04	426.79	791067.84	2316262.86	43.00	42.00	-0.33	426.46	384.79	2	PVC	PVC.010	31.17	9.70	0.3	32.00	394.79	41.70	385.09	Upper: Silty sand Lower: Fine sand	Yes	Yes	Main
HMW-40A	08/23/04		09/15/04	425.27	790700.14	2316354.50	13.00	13.00	-0.26	425.01	412.27	2	PVC	PVC.010	8.74	3.70	0.3	9.00	416.27	12.70	412.57	Clayey silt	Yes	Yes	Clayey silt
HMW-40B	08/25/04		09/15/04	425.17	790692.37	2316353.20	25.00	25.00	-0.31	424.86	400.17	2	PVC	PVC.010	17.19	7.20	0.3	17.50	407.67	24.70	400.47	Fine to medium sand	Yes	Yes	Main (shallow)
HMW-40C	08/24/04		09/15/04	425.26	790695.95	2316353.97	39.00	39.00	-0.51	424.75	386.26	2	PVC	PVC.010	23.49	14.70	0.3	24.00	401.26	38.70	386.56	Fine to medium sand	Yes	Yes	Main (deep)
HMW-41A	08/20/04		09/15/04	425.71	789984.47	2316658.78	19.00	18.00	-0.29	425.42	407.71	2	PVC	PVC.010	14.71	2.70	0.3	15.00	410.71	17.70	408.01	Upper: Sand Lower: Silt	Yes	Yes	N. Olive
HMW-41B	08/19/04		09/15/04	425.91	789980.68	2316655.74	32.00	32.00	-0.29	425.62	393.91	2	PVC	PVC.010	18.21	13.20	0.3	18.50	407.41	31.70	394.21	Silt	Yes	Yes	Main (shallow)
HMW-41C	08/19/04		09/15/04	426.04	789980.76	2316662.51	50.60	49.00	-0.29	425.75	377.04	2	PVC	PVC.010	33.71	14.70	0.3	34.00	392.04	48.70	377.34	Fine to medium sand	Yes	Yes	Main (deep)
HMW-42A	08/18/04		09/15/04	431.72	789593.29	2317011.10	26.50	26.50	-0.33	431.39	405.22	2	PVC	PVC.010	17.57	8.20	0.4	17.90	413.82	26.10	405.62	Silt	Yes	Yes	Main (shallow)
HMW-42B	08/18/04		09/15/04	431.80	789597.40	2317011.17	41.00	40.00	-0.34	431.46	391.80	2	PVC	PVC.010	24.66	14.70	0.3	25.00	406.80	39.70	392.10	Fine to coarse sand	Yes	Yes	Main (deep)
HMW-43A	08/23/04		09/15/04	429.15	789562.17	2317780.55	18.00	17.80	-0.42	428.73	411.35	2	PVC	PVC.010	10.88	6.20	0.3	11.30	417.85	17.50	411.65	Silt	Yes	Yes	N. Olive
HMW-43B	08/25/04		09/15/04	429.19	789564.73	2317780.08	22.70	22.70	-0.25	428.94	406.49	2	PVC	PVC.010	20.05	2.00	0.4	20.30	408.89	22.30	406.89	Clayey silt	Yes	Yes	Main (shallow)
HMW-43C	08/23/04		09/15/04	429.19	789568.56	2317779.81	45.00	41.00	-0.39	428.80	388.19	2	PVC	PVC.010	30.61	9.70	0.3	31.00	398.19	40.70	388.49	Upper: Silty sand Lower: Fine to medium sand	Yes	Yes	Main (deep)
HMW-44A	08/25/04		09/15/04	429.85	790138.21	2317677.94	17.10	17.10	-0.35	429.50	412.75	2	PVC	PVC.010	6.75	9.70	0.3	7.10	422.75	16.80	413.05	Upper: Silt; clayey silt Lower: Silt	Yes	Yes	N. Olive
HMW-44B	08/26/04		09/15/04	429.83	790129.60	2317680.40	24.00	24.00	-0.37	429.46	405.83	2	PVC	PVC.010	18.63	4.70	0.3	19.00	410.83	23.70	406.13	Silt	Yes	Yes	Rand
HMW-44C	08/26/04		09/15/04	429.78	790122.87	2317681.76	42.50	42.50	-0.34	429.44	387.28	2	PVC	PVC.010	26.86	14.90	0.4	27.20	402.58	42.10	387.68	Upper: Silty sand Lower: Fine to coarse sand	Yes	Yes	Main
HMW-45A	08/23/04		09/15/04	431.63	791398.86	2316717.00	18.00	18.00	-0.46	431.17	413.63	2	PVC	PVC.010	10.54	6.70	0.3	11.00	420.63	17.70	413.93	Clayey silt	Yes	Yes	N. Olive
HMW-45B	08/23/04		09/15/04	431.56	791398.11	2316727.22	28.50	28.50	-0.34	431.22	403.06	2	PVC	PVC.010	23.16	4.70	0.3	23.50	408.06	28.20	403.36	Silt	Yes	Yes	Rand
HMW-45C	08/20/04		09/15/04	431.56	791398.23	2316721.27	45.00	45.00	-0.69	430.87	386.56	2	PVC	PVC.010	29.31	14.70	0.3	30.00	401.56	44.70	386.86	Fine to coarse sand	Yes	Yes	Main
HMW-46A	08/18/04		09/15/04	431.04	791594.82	2316602.73	18.10	18.10	-0.53	430.51	412.94	2	PVC	PVC.010	10.70	6.70	0.3	11.10	419.94	17.80	413.24	Silt	Yes	Yes	N. Olive
HMW-46B	08/18/04		09/15/04	430.98	791601.60	2316601.93	26.00	26.00	-0.37	430.61	404.98	2	PVC	PVC.010	23.63	1.70	0.3	24.00	406.98	25.70	405.28	Clayey silt	Yes	Yes	Clayey silt

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
HMW-46C	08/18/04		09/15/04	430.87	791606.83	2316601.13	41.50	41.20	-0.38	430.49	389.67	2	PVC	PVC.010	30.82	9.70	0.3	31.20	399.67	40.90	389.97	Fine to coarse sand	Yes	Yes	Main
HMW-47A	08/19/04		09/15/04	430.73	791596.62	2316789.30	20.00	20.00	-0.23	430.50	410.73	2	PVC	PVC.010	12.77	6.70	0.3	13.00	417.73	19.70	411.03	Silt	Yes	Yes	N. Olive
HMW-47B	08/19/04		09/15/04	430.79	791601.62	2316789.47	23.00	23.00	-0.66	430.13	407.79	2	PVC	PVC.010	20.34	1.70	0.3	21.00	409.79	22.70	408.09	Clayey silt	Yes	Yes	Clayey silt/Rand
HMW-47C	08/19/04		09/15/04	430.81	791607.38	2316789.67	44.50	44.50	-0.20	430.61	386.31	2	PVC	PVC.010	34.30	9.70	0.3	34.50	396.31	44.20	386.61	Upper: Silt Lower: Fine to coarse sand	Yes	Yes	Main
HMW-48A	08/18/04		09/15/04	429.46	791553.40	2317171.36	15.50	15.00	-0.30	429.16	414.46	2	PVC	PVC.010	5.70	8.70	0.3	6.00	423.46	14.70	414.76	Silt	Yes	Yes	N. Olive
HMW-48B	08/18/04		09/15/04	429.42	791550.99	2317172.12	29.50	29.50	-0.24	429.18	399.92	2	PVC	PVC.010	20.26	8.70	0.3	20.50	408.92	29.20	400.22	Upper: Silt Lower: Fine to coarse sand	Yes	Yes	Rand
HMW-48C	08/17/04		09/15/04	429.34	791547.14	2317172.90	41.00	41.00	-0.24	429.10	388.34	2	PVC	PVC.010	31.76	8.70	0.3	32.00	397.34	40.70	388.64	Fine to coarse sand	Yes	Yes	EPA
HMW-48D	08/17/04		09/15/04	429.34	791544.04	2317173.96	58.00	53.00	-0.36	428.98	376.34	2	PVC	PVC.010	42.64	9.70	0.3	43.00	386.34	52.70	376.64	Fine to coarse sand	Yes	Yes	Main
HMW-49A	08/25/04		09/15/04	430.48	791907.79	2316589.57	13.50	13.50	-0.27	430.21	416.98	2	PVC	PVC.010	11.23	1.70	0.3	11.50	418.98	13.20	417.28	Silt	Yes	Yes	N. Olive
HMW-49B	08/26/04		09/15/04	430.49	791905.78	2316592.17	25.00	24.10	-0.26	430.23	406.39	2	PVC	PVC.010	22.84	0.70	0.3	23.10	407.39	23.80	406.69	Silt	Yes	Yes	Rand
HMW-49C	08/26/04		09/15/04	430.49	791910.72	2316586.12	40.00	39.50	-0.28	430.21	390.99	2	PVC	PVC.010	29.90	9.30	0.3	29.90	400.59	39.20	391.29	Upper: Fine to medium sand Lower: Silt	Yes	Yes	EPA
HMW-49D	08/25/04		09/15/04	430.53	791913.91	2316582.59	51.00	51.00	-0.20	430.33	379.53	2	PVC	PVC.010	40.80	9.60	0.4	41.00	389.53	50.60	379.93	Fine to coarse sand	Yes	Yes	Main
HMW-50A	08/25/04		09/15/04	431.59	791292.84	2317599.79	27.00	27.00	2.82	434.41	404.59	2	PVC	PVC.010	20.12	9.30	0.4	17.30	414.29	26.60	404.99	Silt	Yes	Yes	Rand
HMW-50B	08/25/04		09/15/04	431.16	791274.64	2317605.08	40.00	40.00	2.99	434.15	391.16	2	PVC	PVC.010	37.99	4.60	0.4	35.00	396.16	39.60	391.56	Upper: Silty sand Lower: Fine to coarse sand	Yes	Yes	EPA
HMW-50C	08/24/04		09/15/04	431.40	791284.92	2317602.19	59.00	55.00	2.89	434.29	376.40	2	PVC	PVC.010	47.89	9.60	0.4	45.00	386.40	54.60	376.80	Fine to coarse sand	Yes	Yes	Main
HMW-51A	08/24/04		09/15/04	425.84	790450.28	2316421.39	14.00	14.00	-0.38	425.46	411.84	2	PVC	PVC.010	9.02	4.30	0.3	9.40	416.44	13.70	412.14	Silt	Yes	Yes	N. Olive
HMW-51B	08/24/04		09/15/04	425.74	790450.49	2316425.20	25.50	25.50	-0.23	425.51	400.24	2	PVC	PVC.010	15.27	9.70	0.3	15.50	410.24	25.20	400.54	Fine sand	Yes	Yes	Main (shallow)
HMW-51C	08/24/04		09/15/04	425.69	790450.54	2316429.02	43.00	42.50	-0.27	425.42	383.19	2	PVC	PVC.010	27.23	14.70	0.3	27.50	398.19	42.20	383.49	Fine to medium sand	Yes	Yes	Main (deep)
HMW-52A	08/27/04		09/15/04	428.13	789433.32	2317799.30	20.50	20.50	-0.33	427.80	407.63	2	PVC	PVC.010	11.47	8.30	0.4	11.80	416.33	20.10	408.03	Silt	Yes	Yes	Silt
HMW-52B	08/26/04		09/15/04	428.14	789437.89	2317798.66	27.00	27.00	-0.33	427.81	401.14	2	PVC	PVC.010	22.17	4.10	0.4	22.50	405.64	26.60	401.54	Silt	Yes	Yes	Main (shallow)
HMW-52C	08/26/04		09/15/04	428.21	789442.19	2317797.84	50.00	40.00	-0.38	427.83	388.21	2	PVC	PVC.010	24.62	14.60	0.4	25.00	403.21	39.60	388.61	Silt	Yes	Yes	Main
HB-3	06/01/78			429.77			40.50	38.50	1.50	431.27	391.27	2	PVC	PVC.020	28.50	14.00	0	24.50	405.27	38.50	391.27	Upper: Silty sand Lower: Fine sand	Yes	Yes	
HB-4	06/02/78	03/15/90[2]					40.50	39.00	1.50			2	PVC	PVC.020	28.00	14.00	0	25.00		39.00		Upper: Fine Sand Lower: Fine-medium silty sand	Yes	Yes	
HB-5	06/05/78	03/15/90[2]		429.50			40.50	39.00	1.50		390.50	2	PVC	PVC	32.00	10.00	0	29.00	400.50	39.00	390.50	Upper: Silty clay Lower: Fine-medium sand	Yes	Yes	
HB-7	05/26/78		12/29/03	431.77	790025.87	2316756.36	42.50	41.50	0.55	432.32	390.27	2	PVC	PVC	22.50	21.00	0	20.50	411.27	41.50	390.27	Fine sand	Yes	Yes	
HB-8	05/30/78	03/15/90[2]		430.15			40.50	39.00	2.16	432.31	391.15	2	PVC	PVC	29.00	14.00	0	25.00	405.15	39.00	391.15	Fine sand	Yes	Yes	
HB-9	05/30/78	03/15/90[2]		430.50			40.50	39.00	1.00		391.50	2	PVC	PVC.020	27.50	14.00	0	25.00	405.50	39.00	391.50	Fine sand	Yes	Yes	
HB-10	05/26/78	03/15/90[2]		429.00			43.00	41.50	1.50		387.50	2	PVC	PVC.020	23.50	21.00	0	20.50	408.50	41.50	387.50	Fine sand	Yes	Yes	
HB-11	05/31/78	03/15/90[2]					40.50	37.50	1.50			2	PVC	PVC	28.00	14.00	0	23.50		37.50		Upper: Silty clay Lower: Fine-medium sand	Yes	Yes	
HB-13	05/30/78						40.50	37.00	0.67			2	PVC	PVC.020	27.17	14.00	0	23.00		37.00		Fine sand	Yes	Yes	
HB-14	05/25/78						45.50	44.00	1.90			2	PVC	PVC	33.40	14.00	0	30.00		44.00		Fine sand	Yes	Yes	
HB-15	06/01/78			431.00			40.50	38.00	1.00		393.00	2	PVC	PVC.020	20.50	21.00	0	17.00	414.00	38.00	393.00	Fine sand	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
HB-16	05/25/78		03/05/04	431.01	790876.40	2317124.76	40.50	39.00	0.41	431.42	392.01	2	PVC	PVC.020	30.50	11.00	0	28.00	403.01	39.00	392.01	Upper: Silty clay Lower: Fine sand	Yes	Yes	
HB-17	06/02/78						50.50	46.75	2.00			2	PVC	PVC	25.50	27.00	0	19.75		46.75		Upper: Silty clay Lower: Fine-coarse sand	Yes	Yes	
HB-19	06/05/78			429.48			50.50	49.00	1.50	430.98	380.48	2	PVC	PVC.020	33.50	17.00	0	32.00	397.48	49.00	380.48	Upper: Clay Lower: Fine-coarse sand	Yes	Yes	
HB-19A	06/13/78			429.48			50.50	27.00	1.50		402.48	2	PVC	PVC	21.50	7.00	0	20.00	409.48	27.00	402.48	Upper: Silty clay Lower: Fine-medium sand	Yes	Yes	
HB-19B	09/13/78			429.48			50.50	20.00	1.00		409.48	2	PVC	PVC	9.00	12.00	0	8.00	421.48	20.00	409.48	Silty clay	Yes	Yes	
HB-20	06/12/78			429.00			50.50	48.00	1.00		381.00	2	PVC	PVC	31.50	20.00	0	28.00	401.00	48.00	381.00	Upper: Silty clay Lower: Fine-coarse sand	Yes	Yes	
HB-23	05/24/78	03/15/90[2]		430.00			47.50	46.00	1.50		384.00	2	PVC	PVC	35.00	14.00	0	32.00	398.00	46.00	384.00	Upper: Silty clay Lower: Fine-coarse sand	Yes	Yes	
HB-24	05/24/78			431.55			48.00	44.00	0.66	432.21	387.55	2	PVC	PVC	27.67	21.00	0	23.00	408.55	44.00	387.55	Upper: Silty clay Lower: Fine-coarse sand	Yes	Yes	
HB-25	05/31/78			431.00			40.50	39.00	2.00		392.00	2	PVC	PVC	28.50	14.00	0	25.00	406.00	39.00	392.00	Silty sand	Yes	Yes	
HB-26	05/31/78	03/15/90[2]					40.50	39.00	1.17			2	PVC	PVC.020	27.67	14.00	0	25.00		39.00		Upper: Clayey silt Lower: Fine sand	Yes	Yes	
HB-27	06/09/78		03/05/04	425.53	789733.25	2316674.56	40.50	39.00	0.30	425.83	386.53	2	PVC	PVC	21.67	20.00	0	19.00	406.53	39.00	386.53	Fine sand	Yes	Yes	Main
HB-28	06/08/78	03/15/90[2]		430.00			48.00	41.50	2.00		388.50	2	PVC	PVC	33.50	10.00	0	31.50	398.50	41.50	388.50	Upper: Silty clay Lower: Fine sand	Yes	Yes	
HB-29	06/09/78			430.00			50.50	48.00	2.00		382.00	2	PVC	PVC	26.00	24.00	0	24.00	406.00	48.00	382.00	Upper: Silty clay Lower: Fine-coarse sand	Yes	Yes	
HB-30	06/08/78		03/05/04	430.74	790477.15	2317420.83	40.50	39.00	0.34	431.08	391.74	2	PVC	PVC	28.00	12.00	0	27.00	403.74	39.00	391.74	Fine sand	Yes	Yes	Main
HB-31	06/08/78		12/29/03	431.80	791156.00	2316599.65	45.50	44.00	-0.31	431.49	387.80	2	PVC	PVC	35.50	10.00	0	34.00	397.80	44.00	387.80	Fine-coarse sand	Yes	Yes	Main
HB-32	06/06/78	03/15/90[2]	01/27/04	430.50	791102.15	2317070.40	45.50	43.00	2.83	433.33	387.50	2	PVC	PVC	29.25	15.00	0	28.00	402.50	43.00	387.50	Upper: Silty clay Lower: Fine-coarse sand	Yes	Yes	Main
HB-33	06/06/78	03/15/90[2]	03/05/04	429.73	791082.81	2317303.61	48.00	43.00	0.50	430.23	386.73	2	PVC	PVC	28.00	17.00	0	26.00	403.73	43.00	386.73	Upper: Silty clay Lower: Fine-medium sand	Yes	Yes	EPA/Main
HB-34	06/12/78			430.63			40.50	39.00	2.00	432.63	391.63	2	PVC	PVC	31.00	10.00	0	29.00	401.63	39.00	391.63	Fine sand	Yes	Yes	
HB-35	06/13/78	03/15/90[2]		430.08			40.50	39.00	2.33	432.41	391.08	2	PVC	PVC	30.00	10.00	0	29.00	401.08	39.00	391.08	Upper: Clay Lower: Fine silty sand	Yes	Yes	
HB-36	06/13/78			429.68			40.50	39.00	1.50	431.18	390.68	2	PVC	PVC	27.50	13.00	0	26.00	403.68	39.00	390.68	Fine sand	Yes	Yes	
HB-37	06/14/78		12/29/03	431.35	790308.41	2317342.26	40.50	37.70	0.42	431.77	393.65	2	PVC	PVC	31.00	10.00	0	27.70	403.65	37.70	393.65	Upper: Silty clay Lower: Fine-medium sand	Yes	Yes	Main
HB-38	06/15/78		03/05/04	429.77	789507.08	2317446.49	40.50	38.50	0.15	429.92	391.27	2	PVC	PVC	25.17	15.00	0	23.50	406.27	38.50	391.27	Fine sand	Yes	Yes	Main
HB-39	06/15/78						50.50	48.00	1.00			2	PVC	PVC	39.00	10.00	0	38.00		48.00		Upper: Silty clay Lower: Fine-coarse sand	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
HB-39A	06/16/78						50.50	24.50	0.50			2	PVC	PVC	11.00	14.00	0	10.50		24.50		Silty clay	Yes	Yes	
IEPA 1	04/18/78			430.50			45.00	45.00	0.40	430.90	385.50	2	PVC	PVC	25.00	20.00	0	25.00	405.50	45.00	385.50	Upper: Silty clay Lower: Medium sand	Yes	No	
IEPA 2	04/11/78	03/15/90[2]		429.60			39.50	39.50	3.60	433.20	390.10	2	PVC	PVC	23.00	20.00	0	19.50	410.10	39.50	390.10	Medium sand	Yes	No	
IEPA 3	04/12/78						51.50	51.50	1.70			2	PVC	PVC	23.20	30.00	0	21.50		51.50		Medium sand	Yes	No	
IEPA 4	04/12/78		03/05/04	429.92	790691.52	2317435.61	44.50	44.50	0.43	430.35	385.42	2	PVC	PVC	25.50	20.00	0	24.50	405.42	44.50	385.42	Upper: Silty clay Lower: Medium sand	Yes	No	EPA/Main
IEPA 5	04/19/78	03/15/90[2]		429.46			40.00	40.00	1.84	431.30	389.46	2	PVC	PVC	21.90	20.00	0	20.00	409.46	40.00	389.46	Fine sand	Yes	No	
IEPA 6	04/19/78	03/15/90[2]		430.80			45.00	45.00	2.10	432.90	385.80	2	PVC	PVC	27.10	20.00	0	25.00	405.80	45.00	385.80	Upper: Silt Lower: Fine sand	Yes	No	
IEPA 7	04/20/78			430.20			55.00	53.00	0.70	430.90	377.20	2	PVC	PVC	20.70	35.00	0	18.00	412.20	53.00	377.20	Upper: Silty loam Lower: Sand and gravel	Yes	No	
IEPA 8	04/20/78			429.60			45.00	42.00	2.20	431.80	387.60	2	PVC	PVC	24.20	20.00	0	22.00	407.60	42.00	387.60	Upper: Silt Lower: Medium sand	Yes	No	
IEPA 9	04/21/78			430.10			45.00	45.00	1.00	431.10	385.10	2	PVC	PVC	16.00	30.00	0	15.00	415.10	45.00	385.10	Upper: Loam Lower: Medium sand	Yes	No	
IEPA 10	04/21/78			429.20			45.00	45.00	0.00	429.20	384.20	2	PVC	PVC	25.00	20.00	0	25.00	404.20	45.00	384.20	Upper: Clay Lower: Coarse sand	Yes	No	
RW-1			12/29/03	431.83	790073.09	2316878.24			1.95	433.78	431.83												No	No	
RW-2			12/29/03	431.22	790762.59	2317351.36			0.77	431.99	431.22												No	No	
RW-3			12/29/03	430.27	791178.41	2317083.89		44.00	3.08	433.35	386.27	4	PVC	PVC									No	No	
RW-4	03/18/04		04/28/04	430.38	791171.80	2317089.38	44.00	43.90	-0.73	429.65	386.48	4	PVC	PVC.020	22.67	20.00	0.5	23.40	406.98	43.40	386.98	Upper: Sandy silt, clayey silt, silty sand, silty clay Lower: Fine-medium sand	Yes	Yes	
RW-5	06/09/04		09/28/04	430.90	790772.45	2317356.86	46.00	44.00	-0.68	430.22	386.90	4	PVC	PVC.020	19.00	25.00	0.5	18.50	412.40	43.50	387.40	Upper: Sandy silt Lower: Fine-medium sand	Yes	Yes	
SHELL-1	04/05/78			431.90			45.00	45.00	0.00	431.90	386.90	2	PVC	PVC	20.00	20.00	0	25.00	406.90	45.00	386.90	Upper: Silt Lower: Fine-medium sand	Yes	No	
SHELL-2	04/05/78			432.10			45.00	45.00	0.52	432.62	387.10	2	PVC	PVC	20.00	20.00	0	25.00	407.10	45.00	387.10	Upper: Clay Lower: Fine-medium sand	Yes	No	
VW-1	03/18/91						38.00	38.00	-1.00			6	PVC	SS; PVC.020	7.15	29.85	0	8.15		38.00			No	Yes	
VCB-1	09/06/91						35.00	35.00	0.00														Yes	No	
VCB-2	12/04/91						33.50	32.00	0.00	430.96 [3]		8	Steel	SS 0.02	12.00	20.00	0	12.00		32.00		Upper: Silty clay Lower: Clayey sand	Yes	Yes	
VCB-3	11/27/91						33.40	32.00	0.00	433.14 [3]		8	Steel	SS 0.02	12.00	20.00	0	12.00		32.00		Upper: Clayey silt Lower: Sandy clay	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
VCB-4	12/02/91						33.60	32.00	0.00	433.55 [3]		8	Steel	SS 0.02	12.00	20.00	0	12.00		32.00		Upper: Clayey silt Lower: Sandy silt	Yes	Yes	
VCB-5	12/03/91						33.40	32.00	0.00	428.10 [3]		8	Steel	SS 0.02	12.00	20.00	0	12.00		32.00		Upper: Clayey silt Lower: Sand	Yes	Yes	
VCB-6	12/09/91						33.60	32.00	0.00	432.67 [3]		8	Steel	SS 0.02	12.00	20.00	0	12.00		32.00		Upper: Clayey silt Lower: Sand	Yes	Yes	
VCB-7	12/09/91						33.60	32.00	0.00	432.96 [3]		8	Steel	SS 0.02	12.00	20.00	0	12.00		32.00		Upper: Clayey silt Lower: Silty sand	Yes	Yes	
VCB-8	12/06/91						33.30	32.00	0.00	423.09 [3]		8	Steel	SS 0.02	12.00	20.00	0	12.00		32.00		Upper: Silty clay Lower: Silty sand	Yes	Yes	
VCB-9	12/10/91						32.60	31.00	0.00	432.66 [3]		8		SS 0.02	11.00	20.00	0	11.00		31.00		Upper: Clay with sand Lower: Silt	Yes	No	
VCB-10	12/11/91						32.00	31.00	0.00	432.88 [3]		8	Steel	SS 0.02	11.00	20.00	0	11.00		31.00		Silty clay	Yes	Yes	
VCB-11	12/03/91						32.00	32.00	0.00	432.33 [3]													Yes	No	
VCB-12	12/05/91						32.30	31.00	0.00	429.08 [3]		8	Steel	SS 0.02	11.00	20.00	0	11.00		31.00		Upper: Silty sand Lower: Fine sand	Yes	Yes	
HSVE-1			03/04/04	430.27	791076.11	2317136.15			-1.44	428.83	430.27														
HSVE-1S	08/17/04		09/15/04	430.15	791075.05	2317126.20	12.0	12.00	-0.31	429.84	418.15	4	PVC	PVC.020	6.69	4.40	0.6	7.00	423.15	11.40	418.75	Not logged	No	Yes	
HSVE-2	08/02/04		09/15/04	428.80	790901.08	2316474.59	27.5	27.00	-0.29	428.51	401.80	4	PVC	PVC.020	6.71	19.40	0.6	7.00	421.80	26.40	402.40	Not logged	No	Yes	
HSVE-3	08/02/04		09/15/04	430.81	790905.18	2316669.54	27.0	27.00	-0.26	430.55	403.81	4	PVC	PVC.020	6.74	19.40	0.6	7.00	423.81	26.40	404.41	Not logged	No	Yes	
HSVE-4	08/03/04		09/15/04	430.92	790909.92	2316879.86	27.0	27.00	-0.33	430.59	403.92	4	PVC	PVC.020	6.67	19.40	0.6	7.00	423.92	26.40	404.52	Not logged	No	Yes	
HSVE-5	08/02/04		09/15/04	428.89	790595.57	2316511.44	27.0	27.00	-0.31	428.58	401.89	4	PVC	PVC.020	6.69	19.40	0.6	7.00	421.89	26.40	402.49	Not logged	No	Yes	
HSVE-6D	08/04/04		09/15/04	432.65	790611.89	2316705.64	27.0	27.00	-0.26	432.39	405.65	4	PVC	PVC.020	6.74	19.40	0.6	7.00	425.65	26.40	406.25	Not logged	No	Yes	
HSVE-6S	08/17/04		09/15/04	432.71	790612.16	2316709.59	12.0	12.00	-0.29	432.42	420.71	4	PVC	PVC.020	6.71	4.40	0.6	7.00	425.71	11.40	421.31	Not logged	No	Yes	
HSVE-7	07/27/04		09/15/04	430.81	790594.92	2317142.31	27.0	27.00	-0.26	430.55	403.81	4	PVC	PVC.020	6.74	19.40	0.6	7.00	423.81	26.40	404.41	Not logged	No	Yes	
HSVE-8D	07/27/04		09/15/04	429.81	790592.32	2317331.94	27.0	27.00	-0.25	429.56	402.81	4	PVC	PVC.020	6.75	19.40	0.6	7.00	422.81	26.40	403.41	Not logged	No	Yes	
HSVE-8S	07/28/04		09/15/04	429.80	790592.78	2317337.40	12.0	12.00	-0.39	429.41	417.80	4	PVC	PVC.020	6.61	4.40	0.6	7.00	422.80	11.40	418.40	Not logged	No	Yes	
HSVE-9	07/28/04		09/15/04	430.58	790295.75	2317159.80	27.0	27.00	-0.27	430.31	403.58	4	PVC	PVC.020	6.73	19.40	0.6	7.00	423.58	26.40	404.18	Not logged	No	Yes	
HSVE-10	08/04/04		09/15/04	430.83	790298.65	2317315.16	27.0	27.00	-0.30	430.53	403.83	4	PVC	PVC.020	6.70	19.40	0.6	7.00	423.83	26.40	404.43	Not logged	No	Yes	
HSVE-11	07/29/04		09/15/04	430.31	790288.18	2317440.38	27.0	27.00	-0.29	430.02	403.31	4	PVC	PVC.020	6.71	19.40	0.6	7.00	423.31	26.40	403.91	Not logged	No	Yes	
HSVE-12	07/29/04		09/15/04	429.22	789963.36	2317308.02	27.0	27.00	-0.26	428.96	402.22	4	PVC	PVC.020	6.74	19.40	0.6	7.00	422.22	26.40	402.82	Not logged	No	Yes	
HSVE-13			09/15/04	431.50	789655.77	2317040.68			-0.41	431.09															
HSVE-14			09/15/04	430.89	789653.94	2317236.36			-0.36	430.53															
HSVE-15			09/15/04	430.20	789652.23	2317405.09			-1.01	429.19															
HSVE-16			09/15/04	428.97	789651.72	2317580.53			-0.78	428.19															
HSVE-17	08/17/04		09/15/04	431.51	789663.53	2317116.67	27.0	27.00	-0.37	431.14	404.51	4	PVC	PVC.020	6.63	19.40	0.6	7.00	424.51	26.40	405.11	Not logged	No	Yes	
HSVE-18	08/16/04		09/15/04	430.02	789663.56	2317411.55	27.0	26.90	-0.28	429.74	403.12	4	PVC	PVC.020	6.62	19.40	0.6	6.90	423.12	26.30	403.72	Not logged	No	Yes	
HSVE-19	08/16/04		09/15/04	429.22	789658.64	2317663.69	27.0	27.00	-0.34	428.88	402.22	4	PVC	PVC.020	6.66	19.40	0.6	7.00	422.22	26.40	402.82	Not logged	No	Yes	
HVW-3	09/06/91						35.00	35.00	0.00			8	Carbon Steel	SS304 0.2	9.80	25.00	0.2	9.80		34.80		Upper: Silty clay Lower: Silty sand	Yes	Yes	
HVW-4	09/09/91						35.00	35.00	0.00			8	Carbon Steel	SS304 0.2	9.80	25.00	0.2	9.80		34.80		Upper: Silty clay Lower: Silty sand	Yes	Yes	
MP-5S	07/23/03		12/29/03	430.34	791100.10	2317147.05	10.00	10.00	-0.51	429.83	420.34	1	PVC	PVC.010	5.00	5.00		5.00	425.34	10.00	420.34	Silty clay	Yes	Yes	
MP-5D	07/23/03		12/29/03	430.34	791100.42	2317144.96	32.00	32.00	-0.25	430.09	398.34	1	PVC	PVC.010	17.35	10.00		22.00	408.34	32.00	398.34	Silty sand	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
MP-6S	07/23/03		12/29/03	430.26	791089.23	2317146.81	10.00	10.00	-0.11	430.15	420.26	1	PVC	PVC.010	5.00	5.00		5.00	425.26	10.00	420.26	Silty clay	Yes	Yes	
MP-6D	07/23/03		12/29/03	430.26	791088.92	2317148.61	28.00	28.00	-0.13	430.13	402.26	1	PVC	PVC.010	17.35	10.00		18.00	412.26	28.00	402.26	Silty sand	Yes	Yes	
MP-7S	07/23/03		12/29/03	430.38	791125.20	2317138.83	10.00	10.00	-0.21	430.17	420.38	1	PVC	PVC.010	5.00	5.00		5.00	425.38	10.00	420.38	Silty clay	Yes	Yes	
MP-7D	07/23/03		12/29/03	430.38	791125.49	2317140.61	28.00	28.00	-0.22	430.16	402.38	1	PVC	PVC.010	16.65	10.00		18.00	412.38	28.00	402.38	Upper: Silty clay Lower: Silty sand	Yes	Yes	
MP-8S	07/23/03		12/29/03	430.37	791147.46	2317125.98	10.00	10.00	-0.17	430.20	420.37	1	PVC	PVC.010	5.00	5.00		5.00	425.37	10.00	420.37	Silty clay	Yes	Yes	
MP-8D	07/23/03		12/29/03	430.37	791148.25	2317127.74	28.00	28.00	-0.23	430.14	402.37	1	PVC	PVC.010	17.35	10.00		18.00	412.37	28.00	402.37	Silty clay	Yes	Yes	
MP-9S	07/24/03		12/29/03	430.22	791170.97	2317119.01	10.00	10.00	-0.17	430.05	420.22	1	PVC	PVC.010	5.00	5.00		5.00	425.22	10.00	420.22	Silty clay	Yes	Yes	
MP-9D	07/24/03		12/29/03	430.22	791171.77	2317120.70	28.00	28.00	-0.22	430.00	402.22	1	PVC	PVC.010	17.60	10.00		18.00	412.22	28.00	402.22	Silty clay, with silty sand towards middle of screen	Yes	Yes	
MP-10S	07/24/03		12/29/03	430.84	790612.78	2316701.47	10.00	10.00	-0.31	430.53	420.84	1	PVC	PVC.010	5.00	5.00		5.00	425.84	10.00	420.84	Clayey silt	Yes	Yes	
MP-10D	07/24/03		12/29/03	430.71	790614.66	2316701.73	28.00	28.00	-0.34	430.37	402.71	1	PVC	PVC.010	17.85	10.00		18.00	412.71	28.00	402.71	Clayey silt	Yes	Yes	
MP-11S	07/24/03		12/29/03	431.56	790643.47	2316700.18	10.00	10.00	-0.37	431.19	421.56	1	PVC	PVC.010	5.00	5.00		5.00	426.56	10.00	421.56	Silty sand and clay	Yes	Yes	
MP-11D	07/24/03		12/29/03	431.56	790643.26	2316701.90	28.00	28.00	-0.37	431.19	403.56	1	PVC	PVC.010	17.85	10.00		18.00	413.56	28.00	403.56	Clayey silt	Yes	Yes	
MP-12S	07/24/03		12/29/03	431.95	790667.72	2316700.00	10.00	10.00	-0.25	431.70	421.95	1	PVC	PVC.010	5.00	5.00		5.00	426.95	10.00	421.95	Silty sand	Yes	Yes	
MP-12D	07/24/03		12/29/03	431.95	790667.72	2316701.91	28.00	28.00	-0.32	431.63	403.95	1	PVC	PVC.010	17.85	10.00		18.00	413.95	28.00	403.95	Clayey silt	Yes	Yes	
MP-13S	07/25/03		12/29/03	429.44	789962.08	2317299.17	10.00	10.00	-0.24	429.20	419.44	1	PVC	PVC.010	5.00	5.00		5.00	424.44	10.00	419.44	Silty clay	Yes	Yes	
MP-13D	07/25/03		12/29/03	429.44	789963.84	2317299.28	28.00	28.00	-0.14	429.30	401.44	1	PVC	PVC.010	17.85	10.00		18.00	411.44	28.00	401.44	Silty sand	Yes	Yes	
MP-14S	07/25/03		12/29/03	429.74	789961.61	2317267.68	10.00	10.00	-0.23	429.51	419.74	1	PVC	PVC.010	5.00	5.00		5.00	424.74	10.00	419.74	Clayey silt	Yes	Yes	
MP-14D	07/25/03		12/29/03	429.74	789963.46	2317267.85	28.00	28.00	-0.23	429.51	401.74	1	PVC	PVC.010	17.35	10.00		18.00	411.74	28.00	401.74	Silty sand	Yes	Yes	
MP-15S	07/25/03		12/29/03	429.90	789961.14	2317243.41	10.00	10.00	-0.27	429.63	419.90	1	PVC	PVC.010	5.00	5.00		5.00	424.90	10.00	419.90	Silty clay	Yes	Yes	
MP-15D	07/25/03		12/29/03	429.90	789963.00	2317243.37	28.00	28.00	-0.32	429.58	401.90	1	PVC	PVC.010	17.35	10.00		18.00	411.90	28.00	401.90	Silty sand	Yes	Yes	
MP-16S	07/25/03		12/29/03	430.02	789961.22	2317219.23	10.00	10.00	-0.27	429.75	420.02	1	PVC	PVC.010	5.00	5.00		5.00	425.02	10.00	420.02	Clayey silt	Yes	Yes	
MP-16D	07/25/03		12/29/03	430.02	789963.11	2317219.17	28.00	28.00	-0.25	429.77	402.02	1	PVC	PVC.010	17.85	10.00		18.00	412.02	28.00	402.02	Silty sand	Yes	Yes	
MP-19			09/28/04	430.82	789653.16	2317236.76			-0.90	429.92	430.82														
MP-23			09/28/04	429.27	789651.77	2317525.91			-0.41	428.86	429.27														
MP-25	06/14/04		09/22/04	430.15	790781.81	2317368.32	29.00	28.80	-0.44	429.71	401.35	1	PVC	PVC.010	13.80	15.00	0	13.80	416.35	28.80	401.35	Clayey silts and fine sand	Yes		
MP-26	06/14/04		09/22/04	429.93	790783.77	2317377.34	29.00	28.80	-0.39	429.54	401.13	1	PVC	PVC.010	13.80	15.00	0	13.80	416.13	28.80	401.13	Clayey silts and fine sand	Yes		
MP-27	06/15/04		09/22/04	429.92	790788.78	2317390.73	29.50	29.30	-0.37	429.55	400.62	1	PVC	PVC.010	14.30	15.00	0	14.30	415.62	29.30	400.62	Silts	Yes		
MP-28	06/14/04		09/22/04	430.13	790791.13	2317410.93	29.50	29.30	-0.33	429.80	400.83	1	PVC	PVC.010	14.30	15.00	0	14.30	415.83	29.30	400.83	Silts	Yes		
MP-29A	07/28/04		09/15/04	429.70	791249.17	2317049.16	20.50	12.10	-0.31	429.39	417.60	1	PVC	PVC.010	9.79	2.00	0	10.10	419.60	12.10	417.60	Silty sand	Yes	Yes	N. Olive/Rand (shallow)
MP-29B	07/28/04		09/15/04	429.70	791248.82	2317049.49	20.50	20.50	-0.27	429.43	409.20	1	PVC	PVC.010	15.23	5.00	0	15.50	414.20	20.50	409.20	Upper: Silty sand/clayey silt Lower: Silt	Yes	Yes	N. Olive/Rand (shallow)
MP-29C	07/28/04		09/15/04	429.69	791245.61	2317049.63	28.60	28.60	-0.30	429.39	401.09	2	PVC	PVC.010	21.30	6.70	0.3	21.60	408.09	28.30	401.39	Upper: Clayey silt/sand Lower: Fine sand/clayey silt	Yes	Yes	Rand (deep)
MP-29D	07/13/04		09/15/04	429.74	791243.01	2317049.47	42.80	41.50	-0.27	429.47	388.24	2	PVC	PVC.010	31.50	9.70	0.3	31.50	398.24	41.20	388.54	Fine sand	Yes	Yes	Main
MP-30A	08/05/04		09/15/04	431.52	791065.90	2316777.81	30.50	19.00	-0.32	431.20	412.52	1	PVC	PVC.010	8.68	10.00	0	9.00	422.52	19.00	412.52	Silt	Yes	Yes	N. Olive/Rand
MP-30B	08/05/04		09/15/04	431.52	791065.65	2316777.67	30.50	30.50	-0.31	431.21	401.02	1	PVC	PVC.010	22.19	8.00	0	22.50	409.02	30.50	401.02	Upper: Silt Lower: Fine to medium sand	Yes	Yes	N. Olive/Rand
MP-30C	08/05/04		09/15/04	431.47	791066.00	2316781.27	59.50	49.50	-0.34	431.13	381.97	2	PVC	PVC.010	34.16	14.70	0.3	34.50	396.97	49.20	382.27	Fine to medium sand	Yes	Yes	Main

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
MP-31A	08/02/04		09/15/04	427.03	790899.04	2316419.18	10.00	10.00	-0.32	426.71	417.03	1	PVC	PVC.010	6.68	3.00	0	7.00	420.03	10.00	417.03	Not logged/clayey silt	Yes	Yes	Not logged/ clayey silt
MP-31B	08/02/04		09/15/04	427.12	790899.30	2316422.27	18.00	18.00	-0.33	426.79	409.12	1	PVC	PVC.010	12.67	5.00	0	13.00	414.12	18.00	409.12	Silt	Yes	Yes	N. Olive
MP-31C	07/29/04		09/15/04	427.33	790898.71	2316428.07	38.20	38.00	-0.35	426.98	389.33	2	PVC	PVC.010	22.65	14.70	0.3	23.00	404.33	37.70	389.63	Upper: Silt Lower: Fine sand	Yes	Yes	Main
MP-32A	07/29/04		09/15/04	430.04	790896.83	2316588.58	31.30	14.30	-0.36	429.68	415.74	1	PVC	PVC.010	11.94	2.00	0	12.30	417.74	14.30	415.74	Clayey silt/silt	Yes	Yes	N. Olive/Main (shallow) (Rand)
MP-32B	07/29/04		09/15/04	430.04	790896.91	2316588.70	31.30	31.30	-0.36	429.68	398.74	1	PVC	PVC.010	18.94	12.00	0	19.30	410.74	31.30	398.74	Silt	Yes	Yes	N. Olive/Main (shallow) (Rand)
MP-32C	07/28/04		09/15/04	430.01	790896.82	2316585.39	55.00	48.30	-0.29	429.72	381.71	2	PVC	PVC.010	33.31	14.70	0.3	33.30	396.71	48.00	382.01	Fine to medium sand	Yes	Yes	Main
MP-33A	08/16/04		09/15/04	430.34	790894.85	2316652.89	10.00	10.00	-0.29	430.05	420.34	1	PVC	PVC.010	6.71	3.00	0	7.00	423.34	10.00	420.34	Not logged/clayey silt	Yes	Yes	Not logged/ clayey silt
MP-33B	08/04/04		09/15/04	430.38	790897.31	2316649.30	26.50	14.50	-0.29	430.09	415.88	1	PVC	PVC.010	11.21	3.00	0	11.50	418.88	14.50	415.88	Silt	Yes	Yes	N. Olive/Rand
MP-33C	08/04/04		09/15/04	430.38	790897.00	2316649.32	26.50	26.50	-0.29	430.09	403.88	1	PVC	PVC.010	18.22	8.00	0	18.50	411.88	26.50	403.88	Upper: Silt Lower: Clayey silt/silty sand	Yes	Yes	N. Olive/Rand
MP-33D	07/29/04		09/15/04	430.37	790897.18	2316652.53	54.00	44.50	-0.28	430.09	385.87	2	PVC	PVC.010	29.22	14.70	0.3	29.50	400.87	44.20	386.17	Fine to medium sand	Yes	Yes	Main
MP-34A	07/29/04		09/15/04	431.04	790903.75	2316769.85	16.20	16.20	-0.31	430.73	414.84	1	PVC	PVC.010	13.89	2.00	0	14.20	416.84	16.20	414.84	Silt	Yes	Yes	N. Olive
MP-34B	07/29/04		09/15/04	430.99	790904.16	2316782.29	24.70	24.70	-0.25	430.74	406.29	1	PVC	PVC.010	18.45	6.00	0	18.70	412.29	24.70	406.29	Silty sand/silt	Yes	Yes	Rand
MP-34C	07/28/04		09/15/04	430.98	790904.20	2316784.70	45.00	43.80	-0.36	430.62	387.18	2	PVC	PVC.010	28.44	14.70	0.3	28.80	402.18	43.50	387.48	Upper: Silt Lower: fine to medium sand	Yes	Yes	Main
MP-35A	08/16/04		09/15/04	430.67	790908.65	2316931.17	10.00	10.00	-0.31	430.36	420.67	1	PVC	PVC.010	6.69	3.00	0	7.00	423.67	10.00	420.67	Silty clay	Yes	Yes	Silty clay
MP-35B	07/21/04		09/15/04	430.66	790911.32	2316934.03	25.60	17.30	-0.25	430.41	413.36	1	PVC	PVC.010	13.05	4.00	0	13.30	417.36	17.30	413.36	Silt	Yes	Yes	N. Olive
MP-35C	07/21/04		09/15/04	430.72	790911.22	2316928.92	25.60	25.60	-0.28	430.44	405.12	1	PVC	PVC.010	18.32	7.00	0	18.60	412.12	25.60	405.12	Silt	Yes	Yes	Rand
MP-35D	07/20/04		09/15/04	430.73	790911.85	2316924.26	44.00	43.30	-0.30	430.43	387.43	2	PVC	PVC.010	28.00	14.70	0.3	28.30	402.43	43.00	387.73	Fine sand	Yes	Yes	Main
MP-36A	07/26/04		09/15/04	432.21	790953.40	2316988.55	13.00	13.00	-0.30	431.91	419.21	1	PVC	PVC.010	9.70	3.00	0	10.00	422.21	13.00	419.21	Clayey silt	Yes	Yes	N. Olive
MP-36B	07/26/04		09/15/04	432.28	790957.78	2316988.58	29.50	29.50	-0.30	431.98	402.78	1	PVC	PVC.010	14.20	15.00	0	14.50	417.78	29.50	402.78	Upper: Clayey silt Lower: Silt	Yes	Yes	Rand
MP-36C	07/13/04		09/15/04	432.38	790964.98	2316987.17	44.20	44.20	-0.39	431.99	388.18	2	PVC	PVC.010	33.81	9.70	0.3	34.20	398.18	43.90	388.48	Fine to medium sand	Yes	Yes	Main
MP-37A	07/21/04		09/15/04	429.33	790897.32	2317215.81	22.80	13.50	-0.32	429.01	415.83	1	PVC	PVC.010	8.18	5.00	0	8.50	420.83	13.50	415.83	Silt	Yes	Yes	N. Olive/Rand (shallow)
MP-37B	07/21/04		09/15/04	429.33	790897.51	2317215.57	22.80	22.80	-0.34	428.99	406.53	1	PVC	PVC.010	17.46	5.00	0	17.80	411.53	22.80	406.53	Clayey silt/silt	Yes	Yes	N. Olive/Rand (shallow)
MP-37C	07/20/04		09/15/04	429.35	790897.62	2317212.30	28.00	28.00	-0.28	429.07	401.35	2	PVC	PVC.010	23.72	3.70	0.3	24.00	405.35	27.70	401.65	Clayey silt/silt	Yes	Yes	Rand (deep)
MP-37D	07/20/04		09/15/04	429.38	790897.56	2317209.44	50.00	40.00	-0.34	429.04	389.38	2	PVC	PVC.010	29.66	9.70	0.3	30.00	399.38	39.70	389.68	Fine to medium sand	Yes	Yes	Main
MP-38A	07/27/04		09/15/04	427.46	790762.48	2316438.47	13.00	13.00	-0.29	427.17	414.46	1	PVC	PVC.010	8.71	4.00	0	9.00	418.46	13.00	414.46	Silt	Yes	Yes	N. Olive
MP-38B	07/27/04		09/15/04	427.32	790762.76	2316435.25	23.20	23.20	-0.29	427.03	404.12	1	PVC	PVC.010	14.91	8.00	0	15.20	412.12	23.20	404.12	Silt/clayey silt	Yes	Yes	Rand
MP-38C	07/26/04		09/15/04	427.22	790762.65	2316432.17	44.00	39.00	-0.31	426.91	388.22	2	PVC	PVC.010	26.69	14.70	0.3	24.00	403.22	38.70	388.52	Upper: Silty sand Lower: Fine to medium sand	Yes	Yes	Main
MP-39A	07/27/04		09/15/04	432.37	790758.50	2316606.34	26.50	13.00	-0.28	432.09	419.37	1	PVC	PVC.010	7.72	5.00	0	8.00	424.37	13.00	419.37	Silty sand	Yes	Yes	N. Olive/Rand
MP-39B	07/27/04		09/15/04	432.37	790758.72	2316606.34	26.50	26.50	-0.27	432.10	405.87	1	PVC	PVC.010	23.23	3.00	0	23.50	408.87	26.50	405.87	Silt	Yes	Yes	N. Olive/Rand
MP-39C	07/27/04		09/15/04	432.34	790758.56	2316609.45	54.00	44.00	-0.27	432.07	388.34	2	PVC	PVC.010	28.73	14.70	0.3	29.00	403.34	43.70	388.64	Silt/fine to medium sand	Yes	Yes	Main
MP-40A	08/11/04		09/15/04	433.06	790664.24	2316828.53	30.20	11.50	-0.30	432.76	421.56	1	PVC	PVC.010	6.20	5.00	0	6.50	426.56	11.50	421.56	Upper: Silty sand Lower: clayey silt	Yes	Yes	Silty sand-clayey silt/Rand
MP-40B	08/11/04		09/15/04	433.06	790664.61	2316828.52	30.20	30.20	-0.28	432.78	402.86	1	PVC	PVC.010	26.92	3.00	0	27.20	405.86	30.20	402.86	Clayey silt/ silty sand	Yes	Yes	Silty sand-clayey silt/Rand

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
MP-40C	08/11/04		09/15/04	433.07	790659.36	2316828.16	54.00	49.00	-0.30	432.77	384.07	2	PVC	PVC.010	33.70	14.70	0.3	34.00	399.07	48.70	384.37	Upper: Fine to medium sand/ silty sand Lower: fine to coarse sand	Yes	Yes	Main
MP-41A	07/20/04		09/15/04	431.53	790687.58	2317034.09	26.00	14.00	-0.29	431.24	417.53	1	PVC	PVC.010	11.71	2.00	0	12.00	419.53	14.00	417.53	Silt/clayey silt	Yes	Yes	N. Olive/Rand
MP-41B	07/20/04		09/15/04	431.53	790687.69	2317033.85	26.00	26.00	-0.30	431.23	405.53	1	PVC	PVC.010	23.70	2.00	0	24.00	407.53	26.00	405.53	Silt	Yes	Yes	N. Olive/Rand
MP-41C	07/19/04		09/15/04	431.41	790687.62	2317040.05	45.00	44.80	-0.32	431.09	386.61	2	PVC	PVC.010	29.48	14.70	0.3	29.80	401.61	44.50	386.91	Clayey silt/fine sand	Yes	Yes	Main
MP-42A	07/15/04		09/15/04	430.50	790814.74	2317306.68	28.50	18.00	-0.29	430.21	412.50	1	PVC	PVC.010	7.71	10.00	0	8.00	422.50	18.00	412.50	Upper: Clayey silt Lower: Silt	Yes	Yes	N. Olive/Rand
MP-42B	07/15/04		09/15/04	430.50	790814.89	2317306.54	28.50	28.50	-0.30	430.20	402.00	1	PVC	PVC.010	26.20	2.00	0	26.50	404.00	28.50	402.00	Sandy silt	Yes	Yes	N. Olive/Rand
MP-42C	07/13/04		09/15/04	430.54	790810.17	2317308.23	42.00	39.50	-0.22	430.32	391.04	2	PVC	PVC.010	29.28	9.70	0.3	29.50	401.04	39.20	391.34	Upper: Silty clay Lower: Fine to medium sand	Yes	Yes	Main
MP-43A	08/05/04		09/15/04	427.06	790612.87	2316489.20	17.80	8.70	-0.31	426.75	418.36	1	PVC	PVC.010	6.39	2.00	0	6.70	420.36	8.70	418.36	Clayey silt/silt	Yes	Yes	N. Olive/Main (shallow)
MP-43B	08/05/04		09/15/04	427.06	790612.90	2316488.74	17.80	17.50	-0.34	426.72	409.56	1	PVC	PVC.010	12.16	5.00	0	12.50	414.56	17.50	409.56	Silt	Yes	Yes	N. Olive/Main (shallow)
MP-43C	08/05/04		09/15/04	426.88	790616.05	2316489.55	37.00	36.00	-0.49	426.39	390.88	2	PVC	PVC.010	20.51	14.70	0.3	21.00	405.88	35.70	391.18	Upper: Silt Lower: fine sand	Yes	Yes	Main (deep)
MP-44A	08/16/04		09/15/04	430.92	790611.26	2317124.87	10.00	10.00	-0.28	430.64	420.92	1	PVC	PVC.010	6.72	3.00	0	7.00	423.92	10.00	420.92	Clayey silt	Yes	Yes	Silty clay
MP-44B	07/19/04		09/15/04	430.84	790610.75	2317131.33	25.00	15.00	-0.30	430.54	415.84	1	PVC	PVC.010	12.70	2.00	0	13.00	417.84	15.00	415.84	Silt	Yes	Yes	N. Olive/Rand
MP-44C	07/19/04		09/15/04	430.84	790610.81	2317131.62	25.00	25.00	-0.30	430.54	405.84	1	PVC	PVC.010	18.70	6.00	0	19.00	411.84	25.00	405.84	Silt	Yes	Yes	N. Olive/Rand
MP-44D	07/19/04		09/15/04	430.91	790610.61	2317127.84	49.00	44.80	-0.29	430.62	386.11	2	PVC	PVC.010	29.51	14.70	0.3	29.80	401.11	44.50	386.41	Upper: Clayey silt Lower: Fine to medium sand	Yes	Yes	Main
MP-45A	07/16/04		09/15/04	430.28	790608.67	2317242.93	24.20	13.00	-0.24	430.04	417.28	1	PVC	PVC.010	8.76	4.00	0	9.00	421.28	13.00	417.28	Clayey silt/silt	Yes	Yes	N. Olive/Rand
MP-45B	07/16/04		09/15/04	430.28	790608.74	2317243.15	24.20	24.20	-0.24	430.04	406.08	1	PVC	PVC.010	17.96	6.00	0	18.20	412.08	24.20	406.08	Silt	Yes	Yes	N. Olive/Rand
MP-45C	07/15/04		09/15/04	430.30	790608.85	2317246.86	47.00	44.00	-0.37	429.93	386.30	2	PVC	PVC.010	28.63	14.70	0.3	29.00	401.30	43.70	386.60	Fine sand	Yes	Yes	Main
MP-46A	07/15/04		09/15/04	429.95	790607.34	2317326.53	24.70	15.00	-0.28	429.67	414.95	1	PVC	PVC.010	8.72	6.00	0	9.00	420.95	15.00	414.95	Silt/clayey silt/silt	Yes	Yes	N. Olive/Rand
MP-46B	07/15/04		09/15/04	429.95	790607.11	2317326.65	24.70	24.50	-0.30	429.65	405.45	1	PVC	PVC.010	18.20	6.00	0	18.50	411.45	24.50	405.45	Silt	Yes	Yes	N. Olive/Rand
MP-46C	07/15/04		09/15/04	429.99	790607.05	2317322.18	43.00	41.80	-0.39	429.60	399.19	2	PVC	PVC.010	26.41	14.70	0.3	26.80	403.19	41.50	388.49	Upper: Clayey silt Lower: Fine sand	Yes	Yes	Main
MP-47A	07/19/04		09/15/04	429.35	790607.11	2317468.21	22.80	14.50	-0.23	429.12	414.85	1	PVC	PVC.010	8.27	6.00	0	8.50	420.85	14.50	414.85	Silt	Yes	Yes	N. Olive/Rand
MP-47B	07/16/04		09/15/04	429.35	790607.21	2317468.08	22.80	22.80	-0.24	429.11	406.55	1	PVC	PVC.010	18.56	4.00	0	18.80	410.55	22.80	406.55	Silt	Yes	Yes	N. Olive/Rand
MP-47C	07/16/04		09/15/04	429.42	790607.04	2317464.03	43.00	38.55	-0.41	429.01	390.87	2	PVC	PVC.010	23.14	14.70	0.3	23.55	405.87	38.25	391.17	Upper: Clayey silt Lower: Fine sand	Yes	Yes	Main
MP-48A	08/03/04		09/15/04	429.61	790447.01	2316603.37	31.00	19.50	-0.32	429.29	410.11	1	PVC	PVC.010	9.18	10.00	0	9.50	420.11	19.50	410.11	Silty sand/silt/silty sand	Yes	Yes	N. Olive/Rand/ Main (shallow)
MP-48B	08/03/04		09/15/04	429.61	790447.10	2316603.51	31.00	31.00	-0.32	429.29	398.61	1	PVC	PVC.010	22.68	8.00	0	23.00	406.61	31.00	398.61	Silty sand	Yes	Yes	N. Olive/Rand/ Main (shallow)
MP-48C	08/03/04		09/15/04	429.80	790447.15	2316606.54	59.00	48.00	-0.31	429.49	381.80	2	PVC	PVC.010	32.69	14.70	0.3	33.00	396.80	47.70	382.10	Upper: Silt Lower: fine to medium sand	Yes	Yes	Main
MP-49A	08/10/04		09/15/04	433.10	790524.36	2316824.39	24.50	11.50	-0.29	432.81	421.60	1	PVC	PVC.010	6.21	5.00	0	6.50	426.60	11.50	421.60	Upper: Silty sand Lower: Clayey silt	Yes	Yes	Silty sand-clayey silt/Rand
MP-49B	08/10/04		09/15/04	433.10	790524.69	2316824.54	24.50	24.50	-0.28	432.82	408.60	1	PVC	PVC.010	22.22	2.00	0	22.50	410.60	24.50	408.60	Silt	Yes	Yes	Silty sand-clayey silt/Rand
MP-49C	08/10/04		09/15/04	433.10	790528.89	2316824.60	48.50	43.30	-0.30	432.80	389.80	2	PVC	PVC.010	28.00	14.70	0.3	28.30	404.80	43.00	390.10	Silty sand	Yes	Yes	Main
MP-50A	08/16/04		09/15/04	430.63	790516.25	2317029.03	15.00	15.00	-0.25	430.38	415.63	1	PVC	PVC.010	6.75	8.00	0	7.00	423.63	15.00	415.63	Silty clay	Yes	Yes	Silty clay

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
MP-50B	07/23/04		09/15/04	430.56	790507.07	2317028.78	24.50	24.50	-0.32	430.24	406.06	1	PVC	PVC.010	18.18	6.00	0	18.50	412.06	24.50	406.06	Upper: Silt Lower: Silty clay	Yes	Yes	Rand
MP-50C	07/23/04		09/15/04	430.57	790511.06	2317029.03	45.00	44.30	-0.34	430.23	386.27	2	PVC	PVC.010	28.96	14.70	0.3	29.30	401.27	44.00	386.57	Fine to medium sand	Yes	Yes	Main
MP-51A	08/16/04		09/15/04	431.24	790438.72	2317341.48	10.20	10.20	-0.34	430.90	421.04	1	PVC	PVC.010	6.86	3.00	0	7.20	424.04	10.20	421.04	Silty clay/silt/silty clay	Yes	Yes	Silty clay/silt/silty clay
MP-51B	07/22/04		09/15/04	431.22	790438.72	2317344.24	25.00	15.50	-0.31	430.91	415.72	1	PVC	PVC.010	13.19	2.00	0	13.50	417.72	15.50	415.72	Silt	Yes	Yes	N. Olive/Rand
MP-51C	07/22/04		09/15/04	431.22	790438.57	2317344.04	25.00	25.00	-0.29	430.93	406.22	1	PVC	PVC.010	18.71	6.00	0	19.00	412.22	25.00	406.22	Silt	Yes	Yes	N. Olive/Rand
MP-51D	07/22/04		09/15/04	431.29	790438.83	2317348.00	45.00	43.30	-0.30	430.99	387.99	2	PVC	PVC.010	28.00	14.70	0.3	28.30	402.99	43.00	388.29	Fine sand	Yes	Yes	Main
MP-52A	07/26/04		09/15/04	430.29	790350.87	2317024.69	22.80	10.50	-0.33	429.96	419.79	1	PVC	PVC.010	6.17	4.00	0	6.50	423.79	10.50	419.79	Upper: Silt Lower: Silty clay	Yes	Yes	Silt-silty clay/Rand
MP-52B	07/26/04		09/15/04	430.29	790350.77	2317024.46	22.80	22.80	-0.32	429.97	407.49	1	PVC	PVC.010	16.48	6.00	0	16.80	413.49	22.80	407.49	Upper: Silty sand Lower: Silt	Yes	Yes	Silt-silty clay/Rand
MP-52C	07/23/04		09/15/04	430.31	790346.03	2317024.06	50.00	43.00	-0.32	429.99	387.31	2	PVC	PVC.010	27.68	14.70	0.3	28.00	402.31	42.70	387.61	Upper: Silty sand Lower: Fine to medium sand	Yes	Yes	Main
MP-53A	07/28/04		09/15/04	430.92	790299.80	2317252.40	25.00	12.00	-0.33	430.59	418.92	1	PVC	PVC.010	6.67	5.00	0	7.00	423.92	12.00	418.92	Silty clay	Yes	Yes	Silty clay/Rand
MP-53B	07/28/04		09/15/04	430.92	790299.94	2317252.27	25.00	25.00	-0.32	430.60	405.92	1	PVC	PVC.010	18.68	6.00	0	19.00	411.92	25.00	405.92	Silt/clayey silt/silt	Yes	Yes	Silty clay/Rand
MP-53C	07/21/04		09/15/04	430.88	790296.16	2317250.31	48.00	44.30	-0.24	430.64	386.58	2	PVC	PVC.010	29.06	14.70	0.3	29.30	401.58	44.00	386.88	Fine to medium sand	Yes	Yes	Main
MP-54A	07/27/04		09/15/04	430.34	790300.05	2317421.53	25.00	12.90	-0.34	430.00	417.44	1	PVC	PVC.010	7.56	5.00	0	7.90	422.44	12.90	417.44	Silt	Yes	Yes	N. Olive/Rand
MP-54B	07/27/04		09/15/04	430.34	790299.95	2317421.43	25.00	25.00	-0.35	429.99	405.34	1	PVC	PVC.010	18.65	6.00	0	19.00	411.34	25.00	405.34	Silt	Yes	Yes	N. Olive/Rand
MP-54C	07/27/04		09/15/04	430.36	790299.94	2317417.63	50.00	46.50	-0.30	430.06	383.86	2	PVC	PVC.010	31.20	14.70	0.3	31.50	398.86	46.20	384.16	Upper: Silt Lower: fine to medium sand	Yes	Yes	Main
MP-55A	07/21/04		09/15/04	429.98	790296.16	2317578.22	17.70	17.30	-0.33	429.65	412.68	1	PVC	PVC.010	6.97	10.00	0	7.30	422.68	17.30	412.68	Silt/silty clay/silt	Yes	Yes	N. Olive
MP-55B	07/21/04		09/15/04	429.99	790296.29	2317574.06	24.30	24.30	-0.35	429.64	405.69	1	PVC	PVC.010	18.95	5.00	0	19.30	410.69	24.30	405.69	Silty sand	Yes	Yes	Rand
MP-55C	07/20/04		09/15/04	429.98	790296.54	2317567.46	45.00	43.50	-0.31	429.67	386.48	2	PVC	PVC.010	28.19	14.70	0.3	28.50	401.48	43.20	386.78	Upper: Silty sand Lower: Fine to medium sand	Yes	Yes	Main
MP-56A	07/22/04		09/15/04	430.57	790124.52	2317359.18	28.50	11.50	-0.32	430.25	419.07	1	PVC	PVC.010	6.18	5.00	0	6.50	424.07	11.50	419.07	Silty clay/silt/silty clay	Yes	Yes	N. Olive/Rand
MP-56B	07/22/04		09/15/04	430.57	790124.43	2317358.95	28.50	28.00	-0.32	430.25	402.57	1	PVC	PVC.010	21.68	6.00	0	22.00	408.57	28.00	402.57	Silt	Yes	Yes	N. Olive/Rand
MP-56C	07/26/04		09/15/04	430.50	790124.53	2317354.91	45.30	45.00	-0.35	430.15	385.50	2	PVC	PVC.010	29.65	14.70	0.3	30.00	400.50	44.70	385.80	Upper: Silty sand Lower: Fine to medium sand	Yes	Yes	Main
MP-57A	07/23/04		09/15/04	429.32	789975.22	2317517.55	24.50	15.00	-0.27	429.05	414.32	1	PVC	PVC.010	7.73	7.00	0	8.00	421.32	15.00	414.32	Silt	Yes	Yes	N. Olive/Rand
MP-57B	07/23/04		09/15/04	429.32	789975.06	2317517.33	24.50	24.50	-0.28	429.04	404.82	1	PVC	PVC.010	18.22	6.00	0	18.50	410.82	24.50	404.82	Silt	Yes	Yes	N. Olive/Rand
MP-57C	08/02/04		09/15/04	429.31	789974.97	2317514.26	55.00	44.50	-0.32	428.99	384.81	2	PVC	PVC.010	29.18	14.70	0.3	29.50	399.81	44.20	385.11	Upper: Clayey sand Lower: sand	Yes	Yes	Main
MP-58A	08/05/04		09/15/04	430.62	789811.29	2317352.87	22.40	10.70	-0.33	430.29	419.92	1	PVC	PVC.010	6.17	4.00	0	6.70	423.92	10.70	419.92	Clayey silt	Yes	Yes	Clayey silt/Main (shallow)
MP-58B	08/05/04		09/15/04	430.62	789811.13	2317353.05	22.40	21.50	-0.33	430.29	409.12	1	PVC	PVC.010	16.17	5.00	0	16.50	414.12	21.50	409.12	Silt	Yes	Yes	Clayey silt/Main (shallow)
MP-58C	08/05/04		09/15/04	430.73	789809.75	2317343.36	40.20	39.50	-0.40	430.33	391.23	2	PVC	PVC.010	24.10	14.70	0.3	24.50	406.23	39.20	391.53	Silt/silty sand/fine to coarse sand	Yes	Yes	Main (deep)
MP-59A	08/06/04		09/15/04	430.48	789808.70	2317053.91	19.00	9.50	-0.51	429.97	420.98	1	PVC	PVC.010	5.99	3.00	0	6.50	423.98	9.50	420.98	Not logged	Yes	Yes	Silty clay/ Main (shallow)
MP-59B	08/06/04		09/15/04	430.48	789808.74	2317054.42	19.00	19.00	-0.60	429.88	411.48	1	PVC	PVC.010	12.40	6.00	0	13.00	417.48	19.00	411.48	Silty clay/silt	Yes	Yes	Silty clay/ Main (shallow)

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
MP-59C	08/06/04		09/15/04	430.46	789808.39	2317047.65	37.00	37.00	-0.56	429.90	393.46	2	PVC	PVC.010	21.44	14.70	0.3	22.00	408.46	36.70	393.76	Upper: Silt Lower: Fine to coarse sand	Yes	Yes	Main (deep)
MP-60A	08/09/04		09/15/04	429.53	789811.18	2317544.01	21.20	10.00	-0.32	429.21	419.53	1	PVC	PVC.010	5.68	4.00	0	6.00	423.53	10.00	419.53	Silt	Yes	Yes	Silt/Silty clay/ Main (shallow)
MP-60B	08/09/04		09/15/04	429.53	789811.03	2317543.97	21.20	21.20	-0.33	429.20	408.33	1	PVC	PVC.010	15.87	5.00	0	16.20	413.33	21.20	408.33	Silty clay/silt	Yes	Yes	Silt/Silty clay/ Main (shallow)
MP-60C	08/09/04		09/15/04	429.56	789810.43	2317546.99	44.00	37.00	-0.35	429.21	392.56	2	PVC	PVC.010	21.65	14.70	0.3	22.00	407.56	36.70	392.86	Upper: Silt Lower: fine to coarse sand	Yes	Yes	Main (deep)
MP-61A	08/12/04		09/15/04	430.28	789496.96	2317046.71	21.80	10.50	-0.30	429.98	419.78	1	PVC	PVC.010	6.20	4.00	0	6.50	423.78	10.50	419.78	Silt	Yes	Yes	Silt/ Main (shallow)
MP-61B	08/12/04		09/15/04	430.28	789497.04	2317046.86	21.80	21.70	-0.30	429.98	408.58	1	PVC	PVC.010	17.40	4.00	0	17.70	412.58	21.70	408.58	Silt	Yes	Yes	Silt/ Main (shallow)
MP-61C	08/12/04		09/15/04	430.33	789496.80	2317042.58	44.00	37.00	-0.33	430.00	393.33	2	PVC	PVC.010	21.67	14.70	0.3	22.00	408.33	36.70	393.63	Upper: Silt Lower: Fine to coarse sand	Yes	Yes	Main (deep)
MP-62A	08/16/04		09/15/04	429.43	789495.56	2317369.64	18.50	10.00	-0.32	429.11	419.43	1	PVC	PVC.010	5.68	4.00	0	6.00	423.43	10.00	419.43	Silt/silty clay	Yes	Yes	Silt/Silty clay/ Main (shallow)
MP-62B	08/16/04		09/15/04	429.43	789495.45	2317369.77	18.50	18.50	-0.32	429.11	410.93	1	PVC	PVC.010	15.18	3.00	0	15.50	413.93	18.50	410.93	Silt	Yes	Yes	Silt/Silty clay/ Main (shallow)
MP-62C	08/16/04		09/15/04	429.39	789495.05	2317366.57	37.00	37.00	-0.45	428.94	392.39	2	PVC	PVC.010	21.55	14.70	0.3	22.00	407.39	36.70	392.69	Fine to coarse sand	Yes	Yes	Main (deep)
MP-63A	08/06/04		09/15/04	429.53	789489.78	2317594.34	20.20	10.50	-0.27	429.26	419.03	1	PVC	PVC.010	6.23	4.00	0	6.50	423.03	10.50	419.03	Not logged/silty clay	Yes	Yes	Silty clay/Main (shallow)
MP-63B	08/06/04		09/15/04	429.53	789489.59	2317594.44	20.20	20.20	-0.27	429.26	409.33	1	PVC	PVC.010	14.93	5.00	0	15.20	414.33	20.20	409.33	Upper: Clayey silt Lower: silt	Yes	Yes	Silty clay/Main (shallow)
MP-63C	08/06/04		09/15/04	429.62	789490.44	2317589.66	37.50	37.00	-0.33	429.29	392.62	2	PVC	PVC.010	21.67	14.70	0.3	22.00	407.62	36.70	392.92	Upper: Silt Lower: Fine to coarse sand	Yes	Yes	Main (deep)
MP-64A	08/06/04		09/15/04	429.01	789662.24	2317571.58	22.00	10.00	-0.28	428.73	419.01	1	PVC	PVC.010	5.72	4.00	0	6.00	423.01	10.00	419.01	Silt	Yes	Yes	Silt/Silty clay/ Main (shallow)
MP-64B	08/06/04		09/15/04	429.01	789661.99	2317571.62	22.00	22.00	-0.27	428.74	407.01	1	PVC	PVC.010	16.73	5.00	0	17.00	412.01	22.00	407.01	Silt	Yes	Yes	Silt/Silty clay/ Main (shallow)
MP-64C	08/06/04		09/15/04	428.96	789662.38	2317577.75	44.00	37.00	-0.27	428.69	391.96	2	PVC	PVC.010	21.73	14.70	0.3	22.00	406.96	36.70	392.26	Upper: Silt Lower: Fine to coarse sand	Yes	Yes	Main (deep)
MP-65A	08/19/04		09/15/04	431.76	789074.94	2316994.62	25.50	16.80	-0.35	431.41	414.96	1	PVC	PVC.010	9.45	7.00	0	9.80	421.96	16.80	414.96	Upper: Fine sand Lower: Silt	Yes	Yes	Silty clay/Main (shallow)
MP-65B	08/19/04		09/15/04	431.76	789074.63	2316994.50	25.50	25.50	-0.32	431.44	406.26	1	PVC	PVC.010	20.18	5.00	0	20.50	411.26	25.50	406.26	Fine sand	Yes	Yes	Silty clay/Main (shallow)
MP-65C	08/18/04		09/15/04	431.83	789072.75	2316994.82	45.00	40.00	-0.29	431.54	391.83	2	PVC	PVC.010	24.71	14.70	0.3	25.00	406.83	39.70	392.13	Fine sand	Yes	Yes	Main (deep)
MP-66A	08/23/04		09/15/04	431.10	788860.08	2317429.90	26.00	15.00	-0.29	430.81	416.10	1	PVC	PVC.010	11.71	3.00	0	12.00	419.10	15.00	416.10	Silty sand	Yes	Yes	Silt/Clayey silt/ Main (shallow)
MP-66B	08/23/04		09/15/04	431.10	788860.33	2317429.71	26.00	26.00	-0.28	430.82	405.10	1	PVC	PVC.010	18.72	7.00	0	19.00	412.10	26.00	405.10	Fine sand	Yes	Yes	Silt/Clayey silt/ Main (shallow)
MP-66C	08/20/04		09/15/04	431.12	788860.33	2317425.79	45.00	40.00	-0.33	430.79	391.12	2	PVC	PVC.010	24.67	14.70	0.3	25.00	406.12	39.70	391.42	Fine sand	Yes	Yes	Main (deep)
MP-67A	08/20/04		09/15/04	430.64	789079.55	2317851.11	26.00	10.40	-0.35	430.29	420.24	1	PVC	PVC.010	6.05	4.00	0	6.40	424.24	10.40	420.24	Upper: Sandy silt Lower: Clayey silt	Yes	Yes	Silt/Silty clay/ Main (shallow)
MP-67B	08/20/04		09/15/04	430.64	789079.43	2317851.24	26.00	26.00	-0.33	430.31	404.64	1	PVC	PVC.010	16.67	9.00	0	17.00	413.64	26.00	404.64	Upper: Clayey silt Lower: Fine sand	Yes	Yes	Silt/Silty clay/Main (shallow)
MP-67C	08/19/04		09/15/04	430.54	789083.74	2317850.18	45.00	40.00	-0.35	430.19	390.54	2	PVC	PVC.010	24.65	14.70	0.3	25.00	405.54	39.70	390.84	Fine sand	Yes	Yes	Main (deep)

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
PA-40			09/28/04	432.90	790276.46	2316981.25			0.10	433.00	432.90														
PA-50			09/28/04	429.08	790278.47	2316683.34			0.00	429.08	429.08														
PA-60			09/28/04	426.25	790279.26	2316493.94			-0.02	426.23	426.25														
PA-69			09/28/04	428.73	790280.49	2316325.13			0.02	428.75	428.73														
Shell / Tannery Wells																									
I. Shoe-2	April-51																						Yes	No	
Explorer-1	10/25/71																						Yes	No	
N. Marine-2	June-63			415.00																			Yes	No	
N. Marine-3	10/19/73			415.00																			Yes	No	
N. Marine-4	October-73			415.00																			Yes	No	
SP-1	12/21/89		01/27/04	429.01	791876.65	2317591.60	30.0	28.00	-0.01	429.00	401.01	4	PVC	PVC.02	13.00	15.00	0	13.00	416.01	28.00	401.01	Upper: Clay Lower: Clay and sand	Yes	Yes	
SP-2	12/22/89						45.0	43.00				4	PVC	PVC.02	23.00	20.00	0	23.00		43.00		Upper: Silt Lower: Fine sand with silt	Yes	Yes	
SP-2B	10/21/91		01/27/04	429.08	791915.25	2317525.00	41.0	41.00	0.02	429.10	388.08	2	PVC	PVC.01	27.00	14.00	0	27.00	402.08	41.00	388.08	Upper: Clay and sand Lower: Fine grained sand	Yes	Yes	
SP-3	12/27/89						30.0	28.00				4	PVC	PVC.02	18.00	10.00	0	18.00		28.00		Fine sand	Yes	Yes	
SP-4	12/28/89						30.0	30.00				4	PVC	PVC.02	10.00	20.00	0	10.00		30.00		Upper: Clay Lower: Fine sand	Yes	Yes	
SP-5	12/28/89		01/27/04	431.29	791850.55	2317356.80	30.0	30.00	-0.07	431.22	401.29	4	PVC	PVC.02	10.00	20.00	0	10.00	421.29	30.00	401.29	Upper: Clay Lower: Fine sand	Yes	Yes	
SP-6	12/29/89		01/27/04	430.68	791645.35	2317582.50	30.0	30.00	2.35	433.03	400.68	4	PVC	PVC.02	10.00	20.00	0	10.00	420.68	30.00	400.68	Upper: Clay Lower: Fine sand	Yes	Yes	
SP-7	01/10/90		01/27/04	429.07	791872.05	2317691.50	28.0	27.00	-0.08	428.99	402.07	4	PVC	PVC.01	7.00	20.00	0	7.00	422.07	27.00	402.07	Upper: Clay, silt, sand Lower: Clay and sand	Yes	Yes	
SP-8	01/10/90		01/27/04	429.14	791793.25	2317765.00	25.0	25.00	-0.11	429.03	404.14	4	PVC	PVC.01	5.00	20.00	0	5.00	424.14	25.00	404.14	Upper: Clay Lower: Sand, silt, clay	Yes	Yes	
SP-9	01/09/90		01/27/04	429.68	791639.25	2317707.50	28.3	27.00	2.94	432.62	402.68	4	PVC	PVC.01	7.00	20.00	0	7.00	422.68	27.00	402.68	Upper: Clay Lower: Sand, silt and clay	Yes	Yes	
SP-10	01/08/90		01/27/04	429.86	791517.95	2317597.30	26.0	26.00	2.73	432.59	403.86	4	PVC	PVC.01	6.00	20.00	0	6.00	423.86	26.00	403.86	Upper: Clay Lower: Sand and clay	Yes	Yes	
SP-11	01/09/90		01/27/04	430.12	791619.55	2317444.50	30.0	28.00	2.29	432.41	402.12	4	PVC	PVC.01	10.00	20.00	0	8.00	422.12	28.00	402.12	Upper: Clay Lower: Sand and clay	Yes	Yes	
SP-12	01/14/90		01/27/04	429.68	791630.55	2317704.90	50.0	50.00	2.67	432.35	379.68	4	PVC	PVC.01	30.00	20.00	0	30.00	399.68	50.00	379.68	Sand and clay	Yes	Yes	
SP-13	01/13/90		01/27/04	430.12	791613.75	2317449.30	50.0	50.00	2.36	432.48	380.12	4	PVC	PVC.01	30.00	20.00	0	30.00	400.12	50.00	380.12	Upper: Fine-medium sand Lower: Fine sand and clay	Yes	Yes	
SP-14	01/12/90		01/27/04	428.88	791869.85	2317700.50	50.0	50.00	0.04	428.92	378.88	4	PVC	PVC.01	30.00	20.00	0	30.00	398.88	50.00	378.88	Fine sand and silt	Yes	Yes	
SP-15	01/11/90		01/27/04	428.32	791941.45	2317762.90	25.0	25.00	0.37	428.69	403.32	4	PVC	PVC.01	5.00	20.00	0	5.00	423.32	25.00	403.32	Upper: Clay and silt Lower: Clay, sand, and silt	Yes	Yes	
SP-16	01/12/90		01/27/04	428.69	791975.55	2317612.20	28.0	28.00	0.69	429.38	400.69	4	PVC	PVC.01	8.00	20.00	0	8.00	420.69	28.00	400.69	Upper: Clay Lower: Fine sand	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
SP-17	01/13/90		01/27/04	428.04	791860.55	2317890.30	28.0	28.00	0.15	428.19	400.04	4	PVC	PVC.01	8.00	20.00	0	8.00	420.04	28.00	400.04	Upper: Silt and clay Lower: Sand and clay	Yes	Yes	
SP-18	01/14/90		01/27/04	428.61	792055.75	2317820.60	46.0	46.00	2.46	431.07	382.61	4	PVC	PVC.01	31.00	15.00	0	31.00	397.61	46.00	382.61	Upper: Clay Lower: Fine-coarse sand and gravel	Yes	Yes	
SP-19	03/19/90		01/27/04	428.26	792019.95	2317883.80	27.0	25.00	2.63	430.89	403.26	4	PVC	PVC.01	12.50	15.00	0	10.00	418.26	25.00	403.26	Upper: Clay Lower: Fine sand and clay	Yes	Yes	
SP-20	03/20/90		01/27/04	429.20	792103.25	2317745.40	25.0	23.00	1.90	431.10	406.20	4	PVC	PVC.01	10.50	15.00	0	8.00	421.20	23.00	406.20	Upper: Silt Lower: Fine sand, silty clay	Yes	Yes	
SP-21	03/20/90		01/27/04	429.15	792201.45	2317603.50	27.0	25.00	2.50	431.65	404.15	4	PVC	PVC.01	12.50	15.00	0	10.00	419.15	25.00	404.15	Upper: Clay Lower: Silty sand and clay	Yes	Yes	
SP-22	03/21/90		01/27/04	428.27	791989.65	2317677.20	29.0	27.00	2.09	430.36	401.27	4	PVC	PVC.01	14.50	15.00	0	12.00	416.27	27.00	401.27	Upper: Silt and clay Lower: Sand and clay	Yes	Yes	
SP-23	03/21/90		01/27/04	428.42	792035.95	2317590.50	25.0	25.00	2.25	430.67	403.42	4	PVC	PVC.01	12.50	15.00	0	10.00	418.42	25.00	403.42	Upper: Silt and clay Lower: Sand and clay	Yes	Yes	
SP-24	03/22/90		01/27/04	428.88	791859.45	2317707.00	25.0	25.00	-0.02	428.86	403.88	4	PVC	PVC.01	10.00	15.00	0	10.00	418.88	25.00	403.88	Upper: Silt and clay Lower: Sand and clay	Yes	Yes	
SP-25	03/23/90		01/27/04	428.57	791908.25	2317676.50	25.0	25.00	0.04	428.61	403.57	4	PVC	PVC.01	10.00	15.00	0	10.00	418.57	25.00	403.57	Upper: Silt and clay Lower: Sand and clay	Yes	Yes	
SP-26	03/23/90		01/27/04	429.07	791881.75	2317695.40	28.5	28.50	0.77	429.84	400.57	4	PVC	PVC.02	13.50	15.00	0	13.50	415.57	28.50	400.57	Upper: Silt and clay Lower: Sand and clay	Yes	Yes	
SP-27	04/29/04		01/27/04	429.01	791868.55	2317600.00	27.5	27.50	2.89	431.90	401.51	6	PVC	PVC.01	8.00	20.00	2	5.50	423.51	25.50	403.51	Upper: Silt and Clay Lower: Sand and Clay	Yes	Yes	
SP-28	04/04/92		01/27/04	431.53	791772.45	2317589.80	27.4	27.40	0.66	432.19	404.13	6	PVC	PVC.01	12.50	15.00	1.9	10.50	421.03	25.50	406.03	Upper: Silt and Clay Lower: Fine Sand and Silt	Yes	Yes	
SP-29	05/02/92		01/27/04	429.14	791801.05	2317758.60	28.0	28.00	2.64	431.78	401.14	6	PVC	PVC 0.015	11.00	17.50	2	8.50	420.64	26.00	403.14	Upper: Clay, little silt Lower: Sand, some silt	Yes	Yes	
SP-30	04/29/92		01/27/04	429.09	791988.55	2317537.00	27.0	27.00	2.74	431.83	402.09	6	PVC	PVC 0.015	8.00	20.00	1.5	5.50	423.59	25.50	403.59	Upper: Clay, little silt Lower: Sand, some silt	Yes	Yes	
SP-31	05/03/92		01/27/04	428.04	791874.25	2317816.20	25.0	25.00	1.73	429.77	403.04	6	PVC	PVC 0.01	10.00	15.00	2	8.00	420.04	23.00	405.04	Upper: Clay, little silt Lower: Silt and Clay	Yes	Yes	
SP-32	10/22/92		01/27/04	428.32	791938.75	2317768.60	24.5	24.50	2.10	430.42	403.82	6	PVC	PVC 0.01	10.00	15.00	2	7.50	420.82	22.50	405.82	Upper: Silt, little clay Lower: Silt and Clay	Yes	Yes	
SP-33	05/01/92		01/27/04	428.90	791974.15	2317598.40	28.0	28.00	2.05	430.95	400.90	6	PVC	PVC 0.01	13.50	15.00	2	11.00	417.90	26.00	402.90	Upper: Clay, little silt Lower: Sand, some silt	Yes	Yes	
SP-34	04/04/92		01/27/04	428.04	791861.85	2317886.40	27.5	27.50	2.08	430.12	400.54	6	PVC	PVC 0.01	12.50	15.00	2	10.50	417.54	25.50	402.54	Upper: Clay, little silt Lower: Sand and silt	Yes	Yes	
SP-35	04/30/92		01/27/04	429.10	791885.25	2317691.30	27.0	27.00	2.03	431.13	402.10	6	PVC	PVC 0.01	12.50	15.00	2	10.00	419.10	25.00	404.10	Upper: Clay, little silt Lower: Fine Sand	Yes	Yes	
SP-36	01/23/02		01/27/04	426.89	791802.16	2318122.56	54.0	53.03	2.52	429.41	373.86	2	PVC	PVC 0.01	50.55	5.00	0	48.03	378.86	53.03	373.86	Upper: Fine Sand Lower: Medium Sand	Yes	Yes	
SP-37	01/23/02		01/27/04	426.99	791801.64	2318116.66	54.0	34.00	2.59	429.58	392.99	2	PVC	PVC 0.01	36.60	5.00	0	29.00	397.99	34.00	392.99	Upper: Silty, fine sand Lower: Silt and Clay	Yes	Yes	
SP-38	01/28/02		01/27/04	428.19	791834.62	2318012.36	54.0	22.61	2.65	430.84	405.58	2	PVC	PVC 0.01	15.26	10.00	0	12.61	415.58	22.61	405.58	Upper: Silty, fine sand Lower: Silty fine sand	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
SP-39	01/28/02		01/27/04	429.08	792312.46	2317230.06	29.0	29.00	2.84	431.92	400.08	2	PVC	PVC 0.01	19.26	10.00	2.58	16.42	412.66	26.42	402.66	Upper: Silt, trace fine sand Lower: Fine Sand	Yes	Yes	
SP-40	01/24/02		01/27/04	429.08	792306.58	2317234.47	39.8	39.83	2.70	431.78	389.25	2	PVC	PVC 0.01	37.53	5.00	0	34.83	394.25	39.83	389.25	Fine sand, trace coarse sand	Yes	Yes	
SP-41	01/24/02		01/27/04	428.97	792301.29	2317238.79	58.2	58.23	2.48	431.45	370.74	2	PVC	PVC 0.01	55.71	5.00	0	53.23	375.74	58.23	370.74	Fine and coarse sand	Yes	Yes	
SP-42	01/31/04		12/29/03	431.56	791774.28	2317091.65	55.6	55.57	0.15	431.71	375.99	2	PVC	PVC 0.01	50.57	5.00	0	50.57	380.99	55.57	375.99	Sand, fine-coarse gravel	Yes	Yes	
SP-43	01/31/04		12/29/03	431.55	791769.96	2317094.00	41.4	41.39	0.19	431.74	390.16	2	PVC	PVC 0.01	36.39	5.00	0	36.39	395.16	41.39	390.16	Sand, trace sandy clay	Yes	Yes	
SP-44	02/01/04		12/29/03	431.61	791765.20	2317092.63	26.5	26.23	0.23	431.83	405.38	2	PVC	PVC 0.01	21.23	5.00	0	21.23	410.38	26.23	405.38	Silty sand with sandy silt	Yes	Yes	
SP-80			01/27/04	430.54	790361.05	2317897.59				433.04															
SP-81			01/27/04	430.54	790366.38	2317908.57				433.20															
P-1			01/27/04	429.62	789327.88	2318572.52				430.62															
P-2			01/27/04	429.92	789118.73	2318823.05				430.71															
P-5			01/27/04	428.58	789188.78	2320109.04				429.33															
P-6			01/27/04	429.88	789984.17	2318196.28				430.38															
P-47	06/24/87		03/05/04	425.86	791837.06	2315911.97	45.7	45.70	2.34	428.20	380.16	2	PVC	PVC 0.01	28.50	20.00	0	25.70	400.16	45.70	380.16	Upper: Silty clay Lower: Fine sand with silt	Yes	Yes	
P-51	06/29/87		03/05/04	424.09	792281.27	2315859.56	44.0	38.00	2.53	426.62	386.09	2	PVC	PVC	20.00	20.00	0	18.00	406.09	38.00	386.09	Silty sand and gravel	Yes	Yes	
P-76	01/31/90		01/27/04	430.30	791646.45	2317869.20	60.0	60.00	2.98	433.28	370.30	4	PVC	PVC 0.01	33.00	30.00	0	30.00	400.30	60.00	370.30	Upper: Silt and clay Lower: Fine sand	Yes	Yes	
P-77	02/02/90		01/27/04	431.33	791366.75	2317833.60	68.0	68.00	3.24	434.57	363.33	4	PVC	PVC 0.01	51.00	20.00	0	48.00	383.33	68.00	363.33	Fine-coarse grained sand	Yes	Yes	
P-78	02/07/90		01/27/04	430.15	791171.75	2317828.20	65.0	65.00	3.14	433.29	365.15	4	PVC	PVC 0.01	48.00	20.00	0	45.00	385.15	65.00	365.15	Fine-medium grained sand	Yes	Yes	
P-79	02/03/90		01/27/04	429.22	790959.75	2317803.20	60.0	60.00	3.43	432.65	369.22	4	PVC	PVC 0.01	43.00	20.00	0	40.00	389.22	60.00	369.22	Upper: Silty sand Lower: gravel	Yes	Yes	
P-80	02/12/90						61.5	61.50	0.00			4	PVC	PVC 0.01	44.50	20.00	0	41.50		61.50		Upper: Clay and sand Lower: Medium-coarse grained sand	Yes	Yes	
P-81	02/06/90						39.0	39.00	0.00			4	PVC	PVC 0.01	32.00	10.00	0	29.00		39.00		Fine grained sand	Yes	Yes	
P-104	04/02/90		01/27/04	430.06	790757.95	2317760.90	25.0	25.00	2.61	432.67	405.06	4	PVC	PVC 0.01	12.50	15.00	0	10.00	420.06	25.00	405.06	Upper: Sand, some silt Lower: Silt, very fine sand	Yes	Yes	
P-105	04/03/90		01/27/04	430.06	790761.65	2317759.60	38.0	38.00	2.48	432.54	392.06	4	PVC	PVC 0.01	30.50	10.00	0	28.00	402.06	38.00	392.06	Upper: Clay, trace silt Lower: Sand, fine grained	Yes	Yes	
P-106	04/03/90		01/27/04	430.12	790765.85	2317757.80	51.5	51.50	2.52	432.64	378.62	4	PVC	PVC 0.01	44.00	10.00	0	41.50	388.62	51.50	378.62	Upper: Clay and silt Lower: Sand, fine and medium grained	Yes	Yes	
P-107	04/07/90		01/27/04	429.22	790956.25	2317802.30	40.0	40.00	2.61	431.83	389.22	4	PVC	PVC 0.01	32.50	10.00	0	30.00	399.22	40.00	389.22	Upper: Silt, some clay Lower: Sand some silt	Yes	yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
P-108	10/08/90						42.0	42.00	0.00			2	SS	SS 0.01	29.50	15.00	0	27.00		42.00		Upper: Sand and silt Lower: Fine and medium	Yes	Yes	
P-109	10/09/90						40.0	40.00	0.00			2	SS	SS 0.01	27.50	15.00	0	25.00		40.00		Medium grained sand	Yes	Yes	
P-110	06/24/91						50.0	50.00	0.00			2	SS	SS 0.01	33.00	20.00	0	30.00		50.00		Fine, medium, and coarse grained sand	Yes	Yes	
P-111	06/27/91						50.0	50.00	0.00			2	SS	SS 0.01	33.00	20.00	0	30.00		50.00		Upper: Fine-medium sand Lower: Unknown (last page of log not provided)	Yes	Yes	
P-112	06/28/91						50.0	50.00	0.00			2	SS	SS 0.01	33.00	20.00	0	30.00		50.00		Upper: Fine-medium sand Lower: Unknown (last page of log not provided)	Yes	Yes	
P-113	06/26/91						50.0	50.00	0.00			2	SS	SS 0.01	33.00	20.00	0	30.00		50.00		Upper: Medium-coarse sand Lower: Fine-medium sand	Yes	Yes	
P-114	06/29/91						50.0	50.00	0.00			2	SS	SS 0.01	33.00	20.00	0	30.00		50.00		Fine and medium sand	Yes	Yes	
P-115	07/01/91						49.0	49.00	0.00			2	SS	SS 0.01	32.00	20.00	0	29.00		49.00		Fine and medium sand	Yes	Yes	
P-116	06/30/91						54.0	54.00	0.00			2	SS	SS 0.01	37.00	20.00	0	34.00		54.00		Fine and medium sand	Yes	Yes	
P-117	06/25/91						50.0	50.00	0.00			2	SS	SS 0.01	33.00	20.00	0	30.00		50.00		Upper: Fine grained sand Lower: Medium and coarse grained sand	Yes	Yes	
P-118	11/20/91						45.0	45.00	0.00			2	SS	SS 0.01	31.00	15.93	0	29.07		45.00		Upper: Medium sand Lower: Very fine and fine sand	Yes	Yes	
P-119	11/19/91						44.0	44.00	0.00			2	SS	SS 0.01	30.00	15.93	0	28.07		44.00		Upper: Medium sand Lower: Very fine and fine sand	Yes	Yes	
P-120	11/19/91						45.0	45.00	0.00			2	SS	SS 0.01	33.00	15.93	0	29.07		45.00		Upper: Fine-medium sand Lower: Medium and coarse sand	Yes	Yes	
P-121	10/29/91						38.0	38.00	0.00			2	SS	SS 0.01	25.00	15.93	0	22.07		38.00		Fine, medium, and coarse grained sand	Yes	Yes	
P-122	10/31/91						41.0	41.00	0.00			2	SS	SS 0.01	28.00	15.93	0	25.07		41.00		Fine and medium sand	Yes	Yes	
P-123	10/30/91						38.0	38.00	0.00			2	SS	SS 0.01	24.10	15.93	0	22.07		38.00		Fine and medium sand	Yes	Yes	
P-124	10/29/91						40.0	40.00	0.00			2	SS	SS 0.01	28.00	15.93	0	24.07		40.00		Fine and medium sand	Yes	Yes	
P-125	10/28/91						41.5	41.50	0.00			2	SS	SS 0.01	28.00	15.93	0	25.57		41.50		Fine and medium sand	Yes	Yes	
P-126	10/31/91						40.0	40.00	0.00			2	SS	SS 0.01	27.00	15.93	0	24.07		40.00		Fine grained sand	Yes	Yes	
P-127	11/05/91						39.0	39.00	0.00			2	SS	SS 0.01	26.00	15.93	0	23.07		39.00		Upper: Clay Lower: Medium grained sand	Yes	Yes	
P-128	11/06/91						36.0	36.00	0.00			2	SS	SS 0.01	23.00	15.93	0	20.07		36.00		Medium grained sand	Yes	Yes	

TABLE 3-2
Well Construction Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

Work in Progress
October 25, 2004

Well Number	Installation Date	Abandonment Date	Last Survey Date	Ground Elevation (ft MSL)	Location (1) Northing	Location (1) Easting	Depth of Boring from GS (ft)	Total Well Depth from GS (ft)	Stickup (ft)	Top of Well Casing Elevation (ft MSL)	Bottom of Well Elevation (Sump) (ft MSL)	Well ID (in)	Well Material Riser	Well Material Screen	Riser Length (ft)	Screen Length 1st slot to last slot (ft)	Bottom of Screen to End Cap (ft)	Screen Depth Top Slot from GS (ft)	Screen Depth Top Slot Elevation (ft MSL)	Screen Depth Bottom Slot from GS (ft)	Screen Depth Bottom Slot Elevation (ft MSL)	Hydrostratigraphic Information Soil Screened	Soil Boring Log	Well Completion Report	Stratum Screened
P-129	11/13/91						46.0	46.00	0.00			2	SS	SS 0.01	33.00	15.93	0	30.07		46.00		Upper: Fine grained sand Lower: Medium grained sand	Yes	Yes	
P-130	11/12/91		01/27/04	428.27	791414.45	2318625.00	34.0	25.00	3.40	431.67	403.27	2	SS	SS 0.01	18.00	10.62	0	14.38	413.89	25.00	403.27	Upper: Clay with some silt Lower: Silt with some fine grained sand	Yes	Yes	
P-131	11/07/91		01/27/04	429.24	791322.75	2318197.30	30.0	24.00	3.30	432.54	405.24	2	SS	SS 0.01	22.00	5.31	0	18.69	410.55	24.00	405.24	Upper: Silt Lower: Fine sand	Yes	Yes	
P-132	11/15/91		01/27/04	429.24	791313.15	2318200.90	38.0	35.50	2.84	432.08	393.74	2	SS	SS 0.01	33.50	5.31	0	30.19	399.05	35.50	393.74	Upper: Silt and sand Lower: Fine grained sand with some silt	Yes	Yes	
P-133	11/07/91		01/27/04	428.63	790848.55	2319100.40	34.0	22.00	2.31	430.94	406.63	2	SS	SS 0.01	22.00	5.31	0	16.69	411.94	22.00	406.63	Upper: Silt Lower: Clay and silt	Yes	Yes	
P-134	11/11/91		01/27/04	429.98	790857.05	2318413.50	30.0	21.00	2.48	432.46	408.98	2	SS	SS 0.01	14.00	10.62	0	10.38	419.60	21.00	408.98	Silt	Yes	Yes	

NOTES:
GS = Ground Surface
NA = Not Applicable
ID = Inside Diameter
(1) = Illinois State Plane West Zone NAD 83 (feet) and vertical control referenced to mean sea level (feet).
(2) = According to March 23, 1990 Clark Oil & Refining Corporation survey, these wells were found to have been destroyed, paved over or plugged.
(3) = Top of casing for the VCB wells is generally 3-4 feet below ground surface
* = Well Abandonment Date Unkown
Fields left blank indicate that no data was found with the exception of the Abandonment Date column.

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-29C	08/06/04	0813	8	65.3	6.22	872	456	Very Cloudy
		---	Purged Dry	---	---	---	---	---
	08/11/04	---	Dry	---	---	---	---	---
MP-29 D	07/26/04	1003	2.5	71.7	6.34	1050	545	Dark Brown, Cloudy, Oil Droplets
		---	10	65.6	5.74	1112	576	Dark Brown, Cloudy, Oil Droplets
		---	25	64.8	5.54	497	265	Light Brown, Cloudy, Oil Droplets
		---	35	63.8	5.45	299	586	Light Brown, Cloudy, Oil Droplets
		---	50	63.4	5.41	334	174	Clear/Light Brown, Oil Droplets
		---	100	65.1	5.30	956	495	Clear/Semi-Cloudy, Oil Droplets
		---	110	64.4	5.29	1064	548	Clear/Semi-Cloudy, Oil Droplets
		---	125	65.0	5.25	986	514	Clear/Semi-Cloudy, Oil Droplets
		---	150	64.9	5.28	1007	527	Clear/Semi-Cloudy, Oil Droplets
		1054	160	64.7	5.28	988	520	Clear/Semi-Cloudy, Oil Droplets
MP-30 C	08/10/04	0903	12	66.9	6.27	1085	552	Very Cloudy
		0907	28	66.6	6.53	1025	523	Slightly Cloudy
		0913	64	63.8	6.52	1022	521	Very Cloudy
		0915	76	64.9	6.48	1022	522	Slightly Cloudy
		0918	94	65.7	6.50	1030	523	Slightly Cloudy
		0921	112	67.9	6.48	1020	515	Slightly Cloudy
		0926	142	64.9	6.50	1013	516	Slightly Cloudy
		0928	154	64.9	6.53	1003	512	Slightly Cloudy
		0930	166	65.1	6.53	1020	519	Slightly Cloudy
		0932	178	65.1	6.51	1023	524	Slightly Cloudy
		0934	190	65.0	6.53	1039	517	Slightly Cloudy
		0936	202	64.6	6.54	1011	514	Slightly Cloudy
MP-31C	08/05/04	0900	5	64.4	5.97	739	384	Very Cloudy
		0904	10.2	64.3	6.13	834	431	Very Cloudy
		0909	16.7	63.8	6.01	1050	546	Cloudy
		0914	23.2	64.4	5.89	1218	633	Cloudy
		0919	29.7	64.1	5.87	1274	662	Cloudy
		0924	36.2	64.2	6.01	1306	678	Slightly Cloudy
		0929	42.7	63.5	5.97	1288	669	Cloudy
		0933	47.9	63.8	6.02	1364	709	Cloudy
		0937	53.1	64.0	6.03	1401	728	Cloudy
		0940	57	64.1	6.05	1358	705	Slightly Cloudy

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-31C	08/05/04	0945	63.5	63.6	6.05	1390	722	Slightly Cloudy
		0954	75.2	64.0	6.05	1294	673	Slightly Cloudy
		0958	80.4	64.7	6.05	1417	736	Cloudy
		1001	84.3	64.0	6.08	1373	713	Slightly Cloudy
		1003	86.9	63.5	6.09	1394	721	Slightly Cloudy
		1005	89.5	63.7	6.09	1390	718	Clear
		1007	92.1	64.3	6.10	1383	720	Clear
MP-32C	08/05/04	1255	5	65.9	6.03	1201	616	Very Cloudy
		1258	20	65.3	6.09	1206	631	Very Cloudy
		1302	40	65.1	6.07	1175	609	Very Cloudy
		1306	60	64.8	6.08	1193	613	Very Cloudy
		1310	80	66.1	6.09	1163	603	Cloudy
		1312	90	66.2	6.09	1169	607	Slightly Cloudy
		1314	100	64.9	6.15	1163	609	Clear
		1317	115	65.0	6.19	1159	602	Clear
		1319	125	64.8	6.20	1144	597	Clear
MP-33D	08/05/04	1415	15	66.1	6.10	1073	556	Cloudy
		1418	30	65.6	6.15	1063	550	Cloudy
		1422	50	65.2	6.14	1076	557	Cloudy
		1424	60	65.6	6.16	1065	552	Cloudy
		1427	75	65.6	6.16	1066	554	Cloudy
		1430	90	65.4	6.15	1090	569	Cloudy
		1432	100	65.6	6.16	1063	552	Slightly Cloudy
		1434	110	64.7	6.16	1062	552	Clear
		1435	115	66.0	6.16	1092	569	Clear
		1437	125	64.5	6.21	1079	561	Clear
		1439	135	64.2	6.21	1061	553	Clear
		1441	145	64.6	6.21	1055	550	Clear
MP-34C	08/02/04	1124	8	74.6	5.83	944	489	Very Cloudy
		1126	18	70.2	5.97	953	498	Cloudy
		1128	35	68.9	6.01	927	4901	Slightly Cloudy
		1130	55	67.7	6.15	977	510	Slightly Cloudy
		1131	65	66.1	6.21	963	502	Slightly Cloudy
		1134	85	65.3	6.22	963	497	Clear
		1136	100	65.0	6.20	958	498	Clear

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-34C	08/02/04	1138	125	64.8	6.23	958	497	Clear
		1140	130	65.0	6.21	960	498	Clear
MP-35D	07/28/04	0956	3	74.6	5.92	1104	570	Dark Brown, Strong Petroleum-like Odor
		---	25	69.5	5.97	1005	523	Light Brown, Strong Petroleum-like Odor
		---	40	67.7	5.98	1014	526	Milky to Clear, Strong Petroleum-like Odor
		---	55	67.6	5.97	996	518	Milky to Clear, Strong Petroleum-like Odor
		1017	70	67.9	5.97	1003	528	Milky to Clear, Strong Petroleum-like Odor
MP-36C	07/28/04	0820	3.5	66.1	6.54	1129	586	Dark Brown, Strong Petroleum-like Odor
		---	15	63.6	6.27	911	475	Light Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	25	62.7	6.19	960	499	Semi-Cloudy to Clear, Strong Petroleum-like Odor
		---	50	62.7	6.14	938	486	Clear, Strong Petroleum-like Odor
		---	65	62.4	6.13	947	489	Clear, Strong Petroleum-like Odor
		0839	85	62.3	6.12	927	482	Clear, Strong Petroleum-like Odor
MP-37D	07/26/04	1254	2.5	78.8	6.24	475	245	Dark Brown, Slight Sheen, Strong Petroleum-like Odor
		---	25	67.0	6.01	624	325	Brown, Cloudy, Strong Petroleum-like Odor
		---	50	65.6	5.86	687	354	Light Brown, Cloudy, Strong Petroleum-like Odor
		---	75	64.8	5.79	732	365	Light Brown, Cloudy, Strong Petroleum-like Odor
		---	110	64.6	5.73	750	391	Light Brown, Cloudy, Strong Petroleum-like Odor
		1422	125	64.7	5.70	769	403	Semi-Cloudy/Clear, Strong Petroleum-like Odor
MP-38C	07/29/04	1413	5	76.0	6.52	547	283	Dark Brown, Strong Petroleum-like Odor
		---	Purged Dry	---	---	---	---	---
	08/02/04	1325	2	69.1	6.13	724	374	Very Cloudy
		1331	11	68.1	6.25	811	418	Very Cloudy
		1336	21	72.6	6.25	872	451	Cloudy
		1340	29	68.2	6.31	991	515	Cloudy
		1344	37	67.3	6.25	1026	529	Cloudy
		1347	43	67.3	6.24	1026	538	Slightly Cloudy
		1350	49	67.6	6.19	1135	592	Slightly Cloudy
		1356	61	68.4	6.17	1208	625	Slightly Cloudy
		1359	67	68.0	6.23	1208	631	Clear
		1401	71	68.0	6.21	1249	650	Slightly Cloudy
		1404	77	67.8	6.23	1257	643	Slightly Cloudy
		1406	81	67.6	6.28	1252	654	Slightly Cloudy
	08/11/04	0932	23.4	64.4	6.65	1341	674	Slightly Cloudy
		0937	28.6	63.4	6.72	1333	681	Clear

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-38C	08/11/04	0939	31.2	62.9	6.68	1376	701	Clear
		0940.5	33.2	62.9	6.74	1359	686	Clear
		0943	36.5	62.9	6.75	1359	693	Clear
		0945	39.1	63.0	6.71	1372	708	Clear
MP-39C	07/29/04	1125	3	71.1	6.20	806	420	Dark Brown, Sheen, Strong Petroleum-like Odor
		---	20	65.1	6.16	990	515	Dark Brown, Sheen, Strong Petroleum-like Odor
		---	30	68.5	6.23	910	475	Dark Brown, Strong Petroleum-like Odor
		---	45	64.6	6.22	1009	527	Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	50	63.6	6.22	988	518	Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	55	64.3	6.20	1043	542	Light Brown, Semi-Cloudy, Slight Petroleum-like Odor
		---	60	64.2	6.23	1053	544	Semi-Cloudy to Clear, Slight Petroleum-like Odor
		1201	75	64.2	6.23	1066	550	Semi-Cloudy to Clear, Slight Petroleum-like Odor
MP-40C	08/24/04	0929	24	63.5	6.51	1405	715	Very Cloudy
		0931	40	62.3	6.63	1351	685	Very Cloudy
		0935	72	62.1	6.67	1275	650	Slightly Cloudy
		0938	96	62.2	6.63	1240	632	Very Cloudy
		0941	120	62.9	6.61	1251	627	Very Cloudy
		0944	144	62.9	6.63	1239	631	Very Cloudy
		0947	168	63.4	6.59	1216	620	Cloudy
		0949	184	62.7	6.61	1234	622	Slightly Cloudy
		0951	200	63.3	6.64	1227	625	Slightly Cloudy
		0953	216	62.5	6.63	1226	625	Clear
MP-41C	07/27/04	1340	3	77.6	6.36	1318	685	Dark Brown, Strong Petroleum-like Odor
		---	15	67.0	6.06	1135	589	Brown, Cloudy, Strong Petroleum-like Odor
		---	35	67.1	5.99	1122	580	Light Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	50	65.2	6.04	1124	585	Light Yellow to Clear, Semi-Cloudy, Strong Petroleum-like Odor
		---	85	64.4	6.06	1129	585	Light Yellow to Clear, Semi-Cloudy, Strong Petroleum-like Odor
		---	105	64.0	6.08	1123	582	Semi-Cloudy/Clear, Strong Petroleum-like Odor
		1404	120	63.9	6.10	1115	578	---
MP-42C	07/26/04	1449	4	78.7	5.84	759	390	Brown, Cloudy, Strong Petroleum-like Odor
		---	45	66.9	5.69	828	432	Semi-Cloudy/Clear, Strong Petroleum-like Odor
		---	60	64.6	5.68	843	438	Clear, Strong Petroleum-like Odor
		---	80	63.9	5.67	840	436	Clear, Strong Petroleum-like Odor
		---	105	63.7	5.61	829	432	Clear, Strong Petroleum-like Odor
		1515	125	64.1	5.69	829	429	Clear, Strong Petroleum-like Odor

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-43C	08/06/04	0913	7	67.1	6.40	762	396	Very Cloudy
		0917	12.2	67.5	6.50	746	389	Very Cloudy
		0922	18.7	67.9	6.41	1003	522	Slightly Cloudy
		0925	22.6	68.6	6.41	1084	564	Slightly Cloudy
		0929	27.8	68.1	6.41	1209	630	Slightly Cloudy
		0931	30.4	68.6	6.43	1202	625	Slightly Cloudy
		0933	33.0	68.7	6.47	1261	648	Very Cloudy
		0935	35.6	67.6	6.47	1358	707	Slightly Cloudy
		0937	38.2	67.2	6.45	1349	703	Slightly Cloudy
		0939	40.8	67.9	6.46	1417	726	Slightly Cloudy
		0941	43.4	67.3	6.45	1484	772	Slightly Cloudy
		0943	46.0	68.1	6.50	1392	724	Slightly Cloudy
		0945	48.6	68.3	6.48	1445	744	Slightly Cloudy
		0947	51.2	68.2	6.48	1479	769	Slightly Cloudy
		0949	53.8	68.2	6.46	1489	778	Slightly Cloudy
		0952	57.7	68.9	6.50	1443	750	Slightly Cloudy
		0954	60.3	67.9	6.48	1498	778	Slightly Cloudy
MP-44D	07/26/04	1637	3	74.8	6.35	842	435	Dark Brown, Sheen, Strong Petroleum-like Odor
		---	25	65.2	6.04	1099	575	Gray, Slightly Oily, Sheen, Strong Petroleum-like Odor
		---	50	64.0	5.99	1069	555	Semi-Cloudy/Clear, Sheen, Strong Petroleum-like Odor
		---	75	63.7	5.99	1067	558	Clear, Slightly Oily, Sheen, Strong Petroleum-like Odor
		1721	100	63.9	5.99	1069	559	Clear, Slightly Oily, Sheen, Strong Petroleum-like Odor
MP-45C	07/27/04	0817	3	67.9	6.42	1602	830	Dark Brown, Foamy, Strong Petroleum-like Odor
		---	25	64.9	6.05	1297	675	Dark Brown, Strong Petroleum-like Odor
		---	50	65.2	5.98	1234	631	Semi-Cloudy, Strong Petroleum-like Odor
		---	75	64.0	5.98	1194	619	Light Yellow to Clear, Strong Petroleum-like Odor
		---	100	63.8	5.98	1204	628	Light Yellow to Clear, Strong Petroleum-like Odor
		0854	120	63.8	5.99	1193	602	Clear, Strong Petroleum-like Odor
MP-46C	07/28/04	1331	3	78.9	6.02	1231	633	Dark Brown, Strong Petroleum-like Odor
		---	30	68.4	6.03	1192	618	Brown, Cloudy, Strong Petroleum-like Odor
		---	50	67.2	6.06	1170	607	Light Brown, Strong Petroleum-like Odor
		---	60	66.0	6.05	1126	587	Light Yellow to Clear, Strong Petroleum-like Odor
		---	85	65.8	6.04	1120	575	Light Yellow to Clear, Strong Petroleum-like Odor
		1353	105	65.8	6.05	1125	578	Clear, Strong Petroleum-like Odor

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-47C	07/27/04	1057	3	74.2	6.48	1058	550	Dark Brown, Strong Petroleum-like Odor
		---	15	67.0	5.96	1140	591	Dark Brown, Strong Petroleum-like Odor
		---	30	65.3	5.95	1103	576	Brown, Cloudy, Strong Petroleum-like Odor
		---	50	65.3	5.91	1057	551	Brown, Cloudy, Strong Petroleum-like Odor
		---	60	65.5	5.91	1064	551	Light Gray, Semi-Cloudy to Clear, Strong Petroleum-like Odor
		1127	255	---	---	---	---	---
MP-48C	08/05/04	1537	18	64.7	6.20	970	508	Very Cloudy
		1542	48	64.1	6.17	1008	524	Very Cloudy
		1545	66	63.6	6.21	1060	557	Very Cloudy
		1548	84	64.2	6.22	1076	560	Slightly Cloudy
		1551	102	63.6	6.21	1092	566	Cloudy
		1554	120	63.9	6.22	1062	553	Clear
		1556	132	64.2	6.26	1043	542	Clear
		1558	144	63.8	6.27	1045	541	Clear
MP-49C	08/11/04	1438	12	65.9	6.68	613	313	Very Cloudy
		1440	24	64.6	6.77	732	375	Very Cloudy
		1444	48	64.8	6.64	1100	559	Very Cloudy
		1451	90	65.1	6.65	1287	660	Very Cloudy
		1459	138	65.4	6.65	1502	768	Very Cloudy
		1504	168	64.4	6.69	1503	766	Very Cloudy
		1509	198	64.2	6.66	1504	770	Very Cloudy
		1512	216	64.5	6.66	1535	782	Cloudy
		1515	234	64.3	6.68	1508	769	Cloudy
		1519	258	64.1	6.65	1497	763	Cloudy
		1521	270	63.4	6.71	1493	760	Cloudy
		1524	288	63.2	6.68	1537	782	Slightly Cloudy
		1525	294	63.1	6.69	1536	780	Slightly Cloudy
		1527	306	63.1	6.70	1527	781	Slightly Cloudy
MP-50C	07/27/04	1526	3	74.4	6.02	1118	574	Dark Brown, Strong Petroleum-like Odor
		---	25	66.1	6.01	1050	543	Light Brown, Cloudy, Strong Petroleum-like Odor
		---	35	64.3	6.02	1018	531	Light Brown, Cloudy, Strong Petroleum-like Odor
		---	50	64.1	6.01	1014	526	Light Yellow, Semi-Cloudy Strong Petroleum-like Odor
		1543	65	64.3	5.99	996	520	Light Yellow, Semi-Cloudy Strong Petroleum-like Odor
MP-51D	07/28/04	1456	3	78.8	6.10	1022	530	Dark Brown, Strong Petroleum-like Odor
		---	25	65.6	6.12	1067	554	Dark Brown, Strong Petroleum-like Odor

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-51D	07/28/04	---	40	64.2	6.11	1050	543	Brown, Strong Petroleum-like Odor
		---	50	63.8	6.10	1038	536	Light Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	80	63.4	6.10	1027	535	Light Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	90	62.9	6.10	1025	535	Light Yellow, Semi-Cloudy Strong Petroleum-like Odor
		1517	110	62.9	6.12	1028	533	Light Yellow, Semi-Cloudy Strong Petroleum-like Odor
MP-52C	07/27/04	1645	3	77.9	6.90	1053	543	Dark Brown, Cloudy, Strong Petroleum-like Odor
		---	20	68.0	6.28	1003	525	Dark Brown, Cloudy, Strong Petroleum-like Odor
		---	35	66.3	6.19	1119	584	Light Yellow, Semi-Cloudy Strong Petroleum-like Odor
		---	60	66.0	6.16	1153	597	Light Yellow, Semi-Cloudy Strong Petroleum-like Odor
		---	70	66.0	6.15	1165	607	Light Yellow to Clear, Semi-Cloudy, Strong Petroleum-like Odor
		1702	80	65.6	6.16	1174	612	Light Yellow to Clear, Semi-Cloudy, Strong Petroleum-like Odor
MP-53C	07/28/04	1134	3	74.7	6.17	1161	602	Dark Brown, Cloudy, Strong Petroleum-like Odor
		---	20	66.8	6.16	1137	588	Light Brown, Strong Petroleum-like Odor
		---	35	66.2	6.14	1098	569	Light Yellow to Clear, Strong Petroleum-like Odor
		---	50	65.0	6.13	1032	541	Light Yellow to Clear, Strong Petroleum-like Odor
		---	70	64.5	6.13	1016	530	Clear, Strong Petroleum-like Odor
		1155	100	64.9	6.14	1034	524	Clear, Strong Petroleum-like Odor
MP-54C	07/29/04	1540	5	75.5	6.09	1129	580	Dark Brown, Strong Petroleum-like Odor
		---	40	66.4	6.19	1112	578	Brown, Strong Petroleum-like Odor
		---	60	65.0	6.19	1093	567	Light Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	80	64.6	6.21	1069	555	Light Yellow to Clear, Strong Petroleum-like Odor
		1558	105	64.6	6.20	1054	548	Light Yellow to Clear, Strong Petroleum-like Odor
MP-55C	07/27/04	0959	3	74.6	6.30	1040	537	Dark Brown, Strong Petroleum-like Odor
		---	35	66.7	6.05	1089	565	Brown, Strong Petroleum-like Odor
		---	50	65.3	5.99	1059	551	Light Brown, Cloudy, Strong Petroleum-like Odor
		---	70	65.1	6.00	1059	551	Light Brown, Cloudy, Strong Petroleum-like Odor
		1015	100	65.4	6.00	1040	540	Light Yellow, Semi-Cloudy, Strong Petroleum-like Odor
MP-56C	07/29/04	1025	4	71.7	6.13	1016	530	Dark Brown, Strong Petroleum-like Odor
		---	40	65.5	6.13	1002	523	Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	50	64.4	6.13	1016	526	Light Brown, Semi-Cloudy, Strong Petroleum-like Odor
		---	60	64.1	6.13	1003	520	Light Brown, Semi-Cloudy, Strong Petroleum-like Odor
		1039	80	64.0	6.17	1014	527	Light Yellow to Clear, Semi-Cloudy, Strong Petroleum-like Odor
MP-57C	08/06/04	1036	18	65.7	6.33	973	513	Very Cloudy
		1040	42	63.8	6.30	992	515	Very Cloudy
		1044	66	62.8	6.30	994	519	Very Cloudy

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-57C	08/06/04	1047	84	63.8	6.23	999	519	Cloudy
		1048	90	63.6	6.24	986	515	Slightly Cloudy
		1050	102	63.5	6.25	1003	517	Slightly Cloudy
		1052	114	63.2	6.25	1001	520	Slightly Cloudy
		1054	126	63.6	6.25	997	518	Cloudy
		1055	132	62.9	6.26	999	520	Slightly Cloudy
		1057	144	62.8	6.28	1003	523	Slightly Cloudy
		1059	156	63.1	6.27	1003	523	Slightly Cloudy
		1101	168	62.7	6.27	1001	521	Slightly Cloudy
MP-58C	08/10/04	1533	24	67.4	6.59	1224	627	Very Cloudy
		1535	40	65.7	6.66	1168	595	Very Cloudy
		1537	56	63.6	6.67	1160	592	Very Cloudy
		1539	72	63.7	6.68	1158	583	Very Cloudy
		1542	96	64.4	6.70	1129	578	Slightly Cloudy
		1545	120	63.3	6.70	1133	578	Slightly Cloudy
MP-59C	08/11/04	1312	16	64.1	6.58	1027	516	Very Cloudy
		1315	40	62.9	6.69	1072	555	Very Cloudy
		1317	56	62.9	6.68	1085	557	Milky Cloudy
		1319	72	63.2	6.71	1116	569	Milky Cloudy
		1321	88	63.0	6.72	1079	551	Very Cloudy
		1323	104	63.1	6.68	1118	570	Slightly Cloudy
		1326	128	62.5	6.70	1112	565	Very Cloudy
		1329	152	63.2	6.69	1139	585	Very Cloudy
		1335	200	64.5	6.62	1123	573	Slightly Cloudy
		1336.5	212	63.5	6.64	1137	584	Slightly Cloudy
		1339	232	63.0	6.64	1158	567	Slightly Cloudy
MP-60C	08/10/04	1406	16	67.6	6.41	833	425	Very Cloudy
		1408	32	64.1	6.48	742	374	Very Cloudy
		1410	48	63.2	6.54	764	389	Very Cloudy
		1412	64	62.9	6.51	794	404	Very Cloudy
		1416	96	65.1	6.45	819	413	Very Cloudy
		1418	112	63.4	6.50	848	432	Cloudy
		1420	128	63.7	6.48	864	439	Cloudy
		1422	144	62.5	6.52	887	449	Slightly Cloudy
		1424	160	63.2	6.51	913	466	Slightly Cloudy

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-61C	08/24/04	1057	16	64.2	6.42	1041	---	Very Cloudy
		1101	48	63.3	6.49	1031	---	Very Cloudy
		1103	64	63.2	6.47	1038	---	Cloudy
		1105	80	63.0	6.51	1036	---	Clear
		1107	96	62.9	6.52	1051	---	Clear
		1109	112	62.4	6.53	1056	---	Clear
MP-62C	08/24/04	1305	24	63.8	6.29	632	324	Very Cloudy
		1308	48	63.2	6.41	705	361	Very Cloudy
		1311	72	63.7	6.39	714	364	Cloudy
		1315	104	62.9	6.43	695	356	Slightly Cloudy
		1318	128	62.6	6.48	704	358	Clear
		1320	144	63.3	6.47	694	353	Clear
		1321	152	62.8	6.51	706	360	Clear
MP-63C	08/10/04	1049	24	65.6	6.31	602	308	Very Cloudy
		1053	56	63.7	6.21	589	301	Very Cloudy
		1055	72	63.8	6.24	607	308	Cloudy
		1058	96	62.9	6.26	630	316	Cloudy
		1100	112	64.5	6.24	648	326	Cloudy
		1103	136	63.1	6.26	613	313	Slightly Cloudy
MP-64C	08/10/04	1152	24	65.7	6.38	797	412	Very Cloudy
		1154	40	64.7	6.49	922	455	Cloudy
		1156	56	63.9	6.49	922	470	Cloudy
		1158	72	64.1	6.47	916	466	Very Cloudy
		1200	88	63.8	6.50	930	474	Very Cloudy
		1202	104	63.8	6.51	939	478	Very Cloudy
		1204	120	64.1	6.53	945	499	Very Cloudy
		1206	136	63.8	6.49	949	486	Very Cloudy
		1208	152	64.0	6.51	924	474	Cloudy
		1209	160	65.1	6.53	914	469	Slightly Cloudy
MP-65C	08/24/04	1050	16	64.5	6.48	1003	512	Very Cloudy
		1053	40	64.0	6.53	981	500	Slightly Cloudy
		1056	64	64.0	6.54	971	495	Cloudy
		1059	88	63.3	6.54	967	492	Slightly Cloudy
		1101	104	63.7	6.56	962	490	Slightly Cloudy
		1105	136	63.3	6.56	959	490	Clear

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
MP-65C	08/24/04	1108	160	63.6	6.54	967	491	Clear
		1109	168	63.2	6.55	959	488	Clear
MP-66C	08/25/04	1423	24	65.2	6.65	851	433	Very Cloudy
		1426	48	62.2	6.68	808	411	Very Cloudy
		1428	64	61.8	6.67	857	437	Very Cloudy
		1431	88	62.5	6.67	865	444	Very Cloudy
		1433	104	61.8	6.66	987	452	Very Cloudy
		1438	144	63.1	6.57	909	463	Slightly Cloudy
		1441	168	61.8	6.64	912	468	Clear
		1443	184	61.6	6.66	920	467	Clear
MP-67C	08/25/04	1309	32	66.0	6.41	1004	514	Very Cloudy
		1311	48	64.6	6.50	964	494	Very Cloudy
		1313	64	64.1	6.52	960	489	Very Cloudy
		1315	80	64.7	6.56	954	488	Slightly Cloudy
		1317	96	63.7	6.58	951	486	Cloudy
		1319	112	63.5	6.57	954	485	Cloudy
		1321	128	64.0	6.62	949	483	Slightly Cloudy
		1323	144	64.1	6.61	937	477	Clear
		1325	160	63.7	6.62	930	474	Clear
HMW-38A	08/27/04	1135	Dry	---	---	---	---	---
HMW-38B	09/01/04	0855	Dry	---	---	---	---	---
HMW-38C	08/26/04	0943	40	64.6	6.46	1122	570	Very Cloudy
		0948	80	64.0	6.45	1112	568	Very Cloudy
		0951	104	63.7	6.48	1104	562	Very Cloudy
		0955	136	63.5	6.48	1111	567	Slightly Cloudy
		0957	152	63.2	6.48	1103	562	Clear
		0959	168	63.2	6.47	1106	540	Slightly Cloudy
		1004	208	65.9	6.45	1139	582	Clear
HMW-39A	09/01/04	0905	Dry	---	---	---	---	---
HMW-39B	09/01/04	0910	1	71.6	8.17	533	---	Turbid
		0940	7	65.2	7.24	730	---	Turbid
		0950	8.5	---	8.50	---	---	---
		1000	Purged Dry	---	---	---	---	---
		1340	9	70.0	7.63	930	---	Very Turbid
		1344	9.5	66.0	7.52	983	---	Very Turbid

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-39B	09/01/04	1354	14	63.8	7.75	1117	---	Very Turbid
		1355	Purged Dry	---	---	---	---	---
	09/07/04	1617	11	68.0	8.00	1002	510	Turbid
		1625	Purged Dry	---	---	---	---	---
HMW-39C	08/31/04	1549	7	75.4	7.54	770	391	Very Turbid
		1551	13	66.0	7.28	952	487	Very Turbid
		1555	20	64.3	7.21	1048	533	Very Turbid
		1600	30	62.0	7.11	1092	556	Very Turbid
		1603	40	61.4	7.12	1126	576	Very Turbid
		1607	50	61.6	7.12	1142	580	Turbid
		1610	60	61.0	7.05	1138	578	Turbid
		1614	70	60.7	7.08	1137	579	Turbid
		1617	80	61.3	7.15	1161	591	Turbid
		1621	90	61.1	7.14	1155	590	Turbid
		1629	100	65.1	7.29	1134	578	Very Turbid
		1632	110	62.6	7.22	1158	590	Very Turbid
		1636	120	61.4	7.13	1131	577	Very Turbid
		1639	130	61.0	7.13	1151	586	Very Turbid
		1643	140	60.4	7.11	1152	586	Turbid
		1650	150	63.8	7.17	1142	582	Very Turbid
		1655	160	63.3	7.04	1138	579	Very Turbid
		1700	170	61.8	7.03	1147	585	Very Turbid
	09/01/04	1407	175	74.7	7.18	1211	617	Turbid
		1411	185	66.2	7.07	1174	601	Slightly Turbid
		1413	200	63.3	6.93	1160	591	Clear
		1415	215	62.4	6.90	1159	590	Clear
		1416	220	62.2	6.85	1140	579	Clear
		1418	230	61.6	6.84	1135	578	Clear
		1419	238	62.5	6.85	1134	577	Clear
		1421	250	62.1	6.76	1140	581	Clear
		1423	265	61.6	6.77	1136	577	Clear
		1424	275	61.6	6.79	1134	575	Clear
HMW-40A	08/27/04	0807	Dry	---	---	---	---	---
HMW-40C	08/27/04	0827	24	63.2	6.76	566	288	Very Cloudy
		0831	56	62.0	6.75	536	273	Very Cloudy

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-40C	08/27/04	0834	80	61.8	6.74	563	287	Very Cloudy
		0835	88	61.7	6.77	542	276	Very Cloudy
		0838	112	62.0	6.75	554	285	Cloudy
		0840	128	61.7	6.78	561	287	Slightly Cloudy
		0842	144	61.7	6.75	559	284	Clear
		0844	160	61.6	6.76	560	282	Clear
		0845	168	61.3	6.77	546	278	Clear
HMW-41A	08/31/04	---	Dry	---	---	---	---	---
HMW-41B	09/01/04	1112	5	72.2	6.62	999	---	Very Turbid
		1141	18	80.3	6.59	1300	---	Turbid
		1200	23	76.3	6.50	1270	---	Slightly Clear
		1212	27.5	80.5	6.90	1330	---	Clear
		1233	30	82.5	6.49	1300	---	Clear
		1306	43	83.6	6.58	1340	---	Clear
		1332	50	80.3	6.61	1280	---	Clear
		1342	55	78.6	6.83	1270	---	Clear
		1407	62	80.2	6.87	1240	---	Clear
		1418	68	78.5	6.82	1200	---	Clear
HMW-41C	08/25/04	1723	40	63.6	6.61	1102	562	Very Cloudy
		1729	80	62.5	6.58	1163	593	Cloudy
		1731	96	62.9	6.58	1177	597	Cloudy
		1733	112	62.9	6.59	1177	599	Cloudy
		1735	128	62.3	6.58	1161	592	Cloudy
		1737	144	62.0	6.59	1184	602	Slightly Cloudy
		1739	160	61.8	6.61	1181	602	Clear
		1741	176	61.9	6.60	1182	602	Clear
HMW-42A	08/31/04	---	Dry	---	---	---	---	---
HMW-42B	08/31/04	1243	5	87.1	7.49	509	510	Very Turbid
		1245	25	70.6	7.03	856	436	Turbid
		1247	40	67.6	7.02	855	436	Turbid
		1250	50	65.2	6.92	863	441	Turbid
		1300	65	71.5	7.04	880	443	Turbid
		1305	75	72.0	7.14	817	415	Turbid
		1308	80	67.5	6.87	862	448	Clear
		1310	85	65.6	6.83	851	435	Turbid

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-42B	08/31/04	1313	90	64.4	6.88	854	435	Clear
		1315	95	64.2	6.91	850	432	Clear
		1316	100	64.0	6.94	847	433	Turbid
		1318	110	63.4	6.97	842	429	Clear
		1320	115	63.1	6.97	850	432	Clear
		1322	120	63.0	6.98	842	430	Clear
HMW-43C	08/25/04	0935	56	63.5	6.53	8784	445	Very Cloudy
		0938	80	62.6	6.56	898	455	Very Cloudy
		0940	96	62.4	6.57	901	461	Very Cloudy
		0943	120	62.8	6.54	916	468	Very Cloudy
		0948	160	62.6	6.60	925	472	Slightly Cloudy
		0952	192	62.5	6.58	929	475	Cloudy
		0955	216	62.6	6.55	923	470	Slightly Cloudy
		0957	240	62.5	6.55	936	475	Slightly Cloudy
		0959	256	62.2	6.56	936	482	Clear
		1001	272	62.6	6.52	935	480	Clear
		1006	312	62.6	6.59	949	483	Clear
HMW-44A	08/30/04	1115	0.75	70.3	6.41	935	475	Very Turbid
		1118	Purged Dry	---	---	---	---	---
		1130	Dry	---	---	---	---	---
HMW-44B	08/30/04	1307	0.5	77.1	6.47	1269	115	Very Turbid
		1309	1.0	66.1	6.30	1406	113	Very Turbid
		1311	Purged Dry	---	---	---	---	---
HMW-44C	08/30/04	1016	2	70.7	5.92	712	360	Very Turbid
		1019	12	63.6	5.99	1028	526	Very Turbid
		1022	30	63.0	6.09	1008	514	Very Turbid
		1024	50	62.4	6.15	1021	521	Very Turbid
		1025	58	62.5	6.18	975	495	Slightly Turbid
		1028	70	62.7	6.19	1006	515	Slightly Turbid
		1036	110	62.7	6.22	991	504	Slightly Clear
		1038	118	62.2	6.26	1002	506	Slightly Clear
		1040	125	62.1	6.26	971	503	Slightly Clear
		1042	135	62.6	6.26	1008	515	Slightly Clear
		1048	170	63.5	6.28	1005	512	Slightly Clear
		1050	182	63.3	6.23	997	508	Clear

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-44C	08/30/04	1052	200	62.5	6.25	999	511	Clear
		1054	210	62.1	6.26	999	501	Clear
		1057	230	62.1	6.26	974	498	Clear
HMW-45A	08/27/04	1145	Purged Dry	---	---	---	---	---
	08/31/04	---	Dry	---	---	---	---	---
HMW-45B	08/27/04	1150	Dry	---	---	---	---	---
	09/01/04	1008	0.25	72.2	6.54	846	---	Turbid
		1012	Purged Dry	---	---	---	---	---
		1136	Dry	---	---	---	---	---
HMW-45C	08/26/04	0814	40	63.8	6.46	1005	511	Very Cloudy
		0816	56	63.1	6.50	1023	518	Very Cloudy
		0820	88	62.5	6.57	984	502	Slightly Cloudy
		0822	104	62.6	6.56	973	496	Cloudy
		0825	128	62.6	6.54	962	501	Slightly Cloudy
		0828	152	63.2	6.55	957	488	Clear
		0830	168	62.3	6.55	969	494	Clear
		0832	184	62.5	6.56	962	489	Clear
HMW-46A	08/27/04	1200	Dry	---	---	---	---	---
	08/31/04	---	Dry	---	---	---	---	---
HMW-46B	09/01/04	0835	1.0	63.2	7.28	866	441	Turbid
		0840	Purged Dry	---	---	---	---	---
		1136	Dry	---	---	---	---	---
HMW-46C	08/26/04	1052	16	67.1	6.38	1110	566	Very Cloudy
		1057	56	65.4	6.45	1108	561	Very Cloudy
		1102	88	63.8	6.48	1106	567	Very Cloudy
		1104	104	63.8	6.46	1103	561	Slightly Cloudy
		1107	128	63.4	6.44	1100	563	Slightly Cloudy
		1109	144	63.4	6.44	1108	566	Clear
HMW-47A	08/27/04	1215	Dry	---	---	---	---	---
	09/01/04	0816	Dry	---	---	---	---	---
		1136	Dry	---	---	---	---	---
HMW-47B	09/01/04	0800	1.0	62.1	7.65	927	473	Turbid
		0806	Purged Dry	---	---	---	---	---
		1136	Dry	---	---	---	---	---

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-47C	08/26/04	1253	48	67.1	6.28	1208	616	Very Cloudy
		1256	72	65.7	6.37	1220	612	Very Cloudy
		1303	128	65.2	6.32	1196	588	Very Cloudy
		1305	144	65.5	6.33	1179	601	Very Cloudy
		1308	168	65.3	6.32	1196	609	Very Cloudy
		1311	192	65.5	6.32	1167	602	Very Cloudy
		1315	224	65.5	6.34	1182	605	Very Cloudy
		1317	240	68.1	6.30	1195	609	Very Cloudy
		1320	264	64.5	6.35	1133	576	Very Cloudy
		1324	296	65.9	6.34	1150	589	Very Cloudy
		1615	304	*86.9	6.43	1107	564	Very Cloudy
		1626	392	65.8	6.21	1174	598	Very Cloudy
		1628	408	64.2	6.33	1134	578	Very Cloudy
		1630	424	64.7	6.34	1144	584	Cloudy
		1631	432	63.8	6.36	1157	581	Cloudy
		1633	448	63.9	6.38	1139	581	Slightly Cloudy
		1634	456	64.7	6.37	1145	583	Slightly Cloudy
		1636	472	64.1	6.37	1143	581	Very Cloudy
HMW-48A	08/30/04	1643	1.0	71.0	6.81	1187	---	Turbid
		1646	1.5	66.9	6.58	1143	---	Turbid
		1648	Purged Dry	---	---	---	---	---
	08/31/04	1805	2.0	68.0	7.08	1108	565	Slightly Turbid
		1810	Purged Dry	---	---	---	---	---
	09/01/04	0953	1.0	68.7	6.56	1062	542	Turbid
		---	Purged Dry	---	---	---	---	---
HMW-48B	09/01/04	0817	2.5	65.6	7.56	958	486	Very Turbid
		0825	Purged Dry	---	---	---	---	---
	09/07/04	1155	3.5	68.5	6.95	981	507	Very Turbid
		1207	10.0	64.5	6.65	1003	510	Very Turbid
		1214	15.0	64.4	6.66	1011	518	Very Turbid
		1312	45	70.0	6.59	997	507	Slightly Turbid
		1325	52	66.4	6.59	1015	518	Clear
		1350	65	67.4	6.62	1009	514	Clear
		1400	72	66.2	6.70	1011	514	Clear
		1410	80	65.2	6.66	1021	528	Clear

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-48B	09/07/04	1420	87	65.6	6.65	1007	515	Clear
		1430	94	65.2	6.67	1011	515	Clear
		1500	115	65.7	6.69	1005	512	Clear
		1535	139	65.6	6.77	999	511	Clear
HMW-48C	09/01/04	0830	0.5	64.7	7.20	805	410	Very Turbid
		0837	5.0	62.7	7.08	840	428	Very Turbid
		0849	8.0	61.7	7.10	872	444	Very Turbid
		0854	9.5	63.0	7.10	828	423	Very Turbid
		0857	11	61.9	7.10	870	444	Very Turbid
		0900	12	62.5	7.06	855	436	Very Turbid
		1010	15	86.8	6.93	834	423	Very Turbid
		1013	20	76.1	6.87	846	432	Very Turbid
		1016	25	73.2	6.83	831	424	Very Turbid
		1022	27	71.2	6.57	835	426	Very Turbid
		1025	30	71.7	6.46	836	424	Very Turbid
		1031	33	72.0	6.50	868	447	Very Turbid
	09/07/01	1206	38	66.1	6.68	877	447	Very Turbid
		1320	68	65.0	6.78	875	443	Turbid
		1332	74	65.6	6.60	1026	523	Slightly Turbid
		1343	80	66.9	6.89	882	455	Slightly Turbid
		1355	86	66.9	6.71	850	437	Slightly Turbid
		1405	91	65.7	6.71	864	441	Slightly Turbid
		1415	96	65.7	6.71	854	434	Clear
		1425	101	65.4	6.72	854	434	Clear
		1435	106	65.7	6.74	856	437	Clear
		1505	121	65.7	6.78	839	421	Clear
HMW-48D	08/23/04	1243	16	66.2	6.72	893	454	Very Cloudy
		1251	80	66.8	6.56	906	464	Clear
		1256	120	63.4	6.57	893	454	Very Cloudy
		1302	168	63.7	6.56	902	463	Very Cloudy
		1307	208	63.4	6.63	894	456	Slightly Cloudy
		1312	248	63.3	6.58	904	459	Clear
		1316	280	63.9	6.55	898	460	Clear
		1318	296	62.2	6.61	896	456	Clear
HMW-49A	08/30/04	1250	Dry	---	---	---	---	---

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-49B	09/01/04	1322	0.3	75.5	7.05	1820	---	Turbid
		1325	Purged Dry	---	---	---	---	---
	09/03/04	0850	0.5	66.7	6.62	1614	822	Slightly Turbid
		0856	Purged Dry	---	---	---	---	---
	09/07/04	1328	1.5	69.6	6.55	1575	804	Slightly Turbid
		---	Purged Dry	---	---	---	---	---
HMW-49C	09/01/04	1507	5	76.8	7.38	720	---	Very Turbid
		1518	8	73.2	7.38	710	---	Very Turbid
		1520	Purged Dry	---	---	---	---	---
		1537	9	73.8	6.72	790	---	Turbid
		1540	Purged Dry	---	---	---	---	---
	09/01/04	1612	10	71.6	6.92	770	---	Slightly Turbid
		1616	Purged Dry	---	---	---	---	---
HMW-49D	08/30/04	1447	40	69.3	6.37	955	489	Very Turbid
		1452	70	65.2	6.36	941	478	Very Turbid
		1455	80	63.9	6.35	935	478	Slightly Clear
		1459	100	63.9	6.36	939	478	Turbid
		1506	140	64.0	6.36	928	475	Clear
		1513	175	64.0	6.36	922	469	Clear
		1520	210	64.3	6.37	928	470	Clear
		1528	255	64.2	6.34	916	466	Clear
HMW-50A	09/08/04	0927	5	63.2	7.25	1036	527	Turbid
		0931	25	61.1	7.25	1044	532	Very Turbid
		0935	35	61.2	7.21	1013	517	Slightly Turbid
		0937	45	61.3	7.21	1011	516	Clear
		0942	55	61.0	7.19	1025	521	Slightly Turbid
		0957	100	63.5	7.30	1027	523	Clear
		1002	120	62.5	7.19	1014	517	Clear
		1005	130	62.0	7.20	993	506	Clear
		1008	140	62.3	7.15	1006	513	Clear
HMW-50B	09/08/04	1425	4	66.2	7.70	1243	635	Very Turbid
		1432	7.5	62.5	7.64	1290	658	Very Turbid
		---	Purged Dry	---	---	---	---	---
	09/09/04	1000	20	62.4	8.00	1355	691	Very Turbid
		1015	25	61.4	7.34	1395	710	Very Turbid

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-50B	09/09/04	1030	30	63.0	7.33	1339	681	Very Turbid
		1055	35	61.7	7.35	1315	671	Turbid
		1107	40	60.7	7.02	1399	711	Turbid
		1114	Purged Dry	---	---	---	---	---
		1417	48	66.3	7.29	1473	751	Turbid
		1432	53	61.8	7.29	1496	762	Turbid
		1446	58	61.1	7.23	1532	779	Turbid
		1500	Purged Dry	---	---	---	---	---
HMW-50C	08/31/04	0820	15	66.0	7.44	1464	746	Very Turbid
		0828	90	62.9	7.31	1500	766	Clear
		0833	110	61.3	7.24	1459	745	Clear
		0843	150	63.9	7.17	1409	709	Clear
		0857	215	63.0	7.23	1343	686	Clear
		0859	230	61.8	7.17	1327	676	Clear
		0902	260	61.3	7.14	1307	666	Clear
		0905	290	61.0	7.14	1300	661	Clear
		0907	310	61.1	7.15	1288	658	Clear
		1020	475	61.9	7.10	1227	623	Clear
HMW-51A	08/27/04	0922	Dry	---	---	---	---	---
	08/31/04	---	Dry	---	---	---	---	---
HMW-51B	08/27/04	0925	Dry	---	---	---	---	---
	08/31/04	---	Dry	---	---	---	---	---
HMW-51C	08/27/04	0948	48	65.1	6.56	1010	515	Very Cloudy
		0953	88	63.4	6.60	1053	528	Very Cloudy
		0957	120	62.4	6.64	1052	540	Very Cloudy
		1000	144	61.9	6.64	1054	537	Very Cloudy
		1003	168	61.6	6.65	1052	537	Cloudy
		1005	184	61.7	6.63	1066	543	Slightly Cloudy
		1007	200	61.6	6.64	1072	545	Clear
		1009	216	61.5	6.63	1070	545	Clear
HMW-52A	08/31/04	---	Dry	---	---	---	---	---
HMW-52B	08/31/04	---	Dry	---	---	---	---	---
HMW-52C	09/01/04	1458	1	75.7	7.09	599	303	Turbid
		1506	2.5	70.2	7.04	567	289	Turbid
		1509	3.5	66.1	7.02	591	301	Slightly Turbid

TABLE 3-3
Probe/Well Development Indicator Parameters Summary
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Probe/Well Number	Date	Time	Total Volume of Water Purged (gals)	Temperature (°F)	pH (std. units)	Conductivity (uS/cm)	Total Dissolved Solids (ppm)	Visual Clarity/Observations
HMW-52C	09/01/04	1547	4.5	77.7	7.04	685	347	Turbid
		1550	7.0	69.7	7.00	725	369	Very Turbid
		1556	8.0	67.0	6.94	741	378	Very Turbid
		1600	12	67.0	6.83	814	415	Turbid
		1608	20	67.0	6.84	889	453	Turbid
		1618	30	66.9	6.63	915	446	Turbid
		1624	40	66.5	6.70	932	475	Turbid
		---	Purged Dry	---	---	---	---	---
	09/07/04	1113	45	69.1	6.90	937	474	Clear
		1125	Purged Dry	---	---	---	---	---
	09/08/04	735	47	59.5	7.51	940	476	Clear
		745	54	60.6	7.34	891	453	Clear
		755	61	61.1	7.19	935	475	Clear
		805	68	61.1	7.16	946	481	Clear
		815	75	61.5	7.18	949	485	Clear
		948	100	62.5	7.20	982	500	Clear
		1025	125	62.7	7.23	983	501	Clear
		1045	140	67.1	7.30	968	493	Clear
		1115	155	64.0	7.34	982	498	Clear
	09/09/04	1209	160	72.6	7.14	948	480	Clear
		1320	220	73.5	7.01	956	482	Clear
		1350	235	72.8	7.06	965	496	Clear
		1537	255	68.7	7.09	981	501	Clear
		1610	295	69.2	7.08	983	500	Clear
		1635	315	--	---	---	---	---

NOTES:
°F = Degrees Fahrenheit
uS/cm = microsiemens per centimeter
ppm = parts per million
--- = No Data Available

TABLE 3-4
PID Readings - East Watkins Street Sewer Replacement Excavation
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

APPROXIMATE SAMPLING REFERENCE LOCATION	PID READINGS (ppm)			
	SOILS BENEATH SEWER	SOILS ABOVE SEWER	MATERIAL INSIDE SEWER PIPE*	SIDEWALL SOILS
101 East Watkins St.	1.3	--	--	--
102 East Watkins St.	24.8	--	--	--
104 East Watkins St.	0.4	--	--	--
105 East Watkins St.	50	--	325	--
112 East Watkins St.	0	--	1.9	--
119 East Watkins St.	--	--	--	5.6
122 East Watkins St.	82	--	1.9	--
126 East Watkins St.	14.5	--	0	--
130 East Watkins St.	33.5	--	11.2	--
134 East Watkins St.	83.4	44.2	--	--
139 East Watkins St.	64.9	36.2	--	--
142 East Watkins St.	135	--	1350	--

NOTES:
PID = Photoionization Detector
ppm = parts per million
* Black, tightly packed sediment was observed inside the sewer pipe.
-- = Not Analyzed

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Main Sand
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
MP-31	07/20/04	24.0	3.2	2.3 J	6.4	5.8	< 2.3	14.8	17.7	Shallow outside of FPH plume	NA
MP-48	07/20/04	24.0	37,300	89,300	195,000	389,000	< 2,170	8.44	710,600	Shallow within FPH plume	NA
Dup-03	07/20/04	24.0	38,100	84,900	192,000	372,000	< 2,200	7.29	687,000		
MP-65	08/19/04	10.0-12.0	1.1 J	3.2 J	5.6	10.1	< 2.9	7.77	20	Shallow outside of FPH plume	NA
Dup-01	08/19/04	10.0-12.0	< 1.5	< 7.6	< 7.6	2.1	< 3.0	9.16	2.1		
MP-65	08/18/04	20.0-22.0	3.4	3.8 J	8.1	10.2	< 2.7	6.95	25.5	Deep outside of FPH plume	NA
MP-66	08/20/04	10.0-12.0	2.2	4.5 J	13	13.8	< 2.4	14.8	33.5	Shallow outside of FPH plume	NA
MP-66	08/20/04	20.0-22.0	1.1	1.4 J	3.2	4.6	< 2.2	3.1 J	10.3	Deep outside of FPH plume	NA
MP-67	08/19/04	20.0-22.0	1 J	1.9 J	2.8	7.1	< 3.3	6.82	12.8	Deep outside of FPH plume	NA
HMW-40	08/03/04	22.0-24.0	3.9	2.2 J	6.6	6.4	< 2.5	4.86	19.1	Outside of FPH plume	NA
HMW-42	08/04/04	23.0-24.0	5.8	3.5 J	8.7	34.5	< 2.7	6.84	52.5	Outside of FPH plume	NA
HMW-51	08/03/04	18.0-20.0	4.6	2.8 J	10.6	8.1	< 2.8	4.78	26.1	Outside of FPH plume	NA
Dup-02	08/03/04	18.0-20.0	3.6	3.8 J	9.2	8.9	< 2.7	4.6	25.5		
HMW-52	08/25/04	14.0-16.0	3.1	1.9 J	7.0	7.5	< 2.7	10.1	19.5	Outside of FPH plume	NA
VMP-21	07/23/04	29.0-30.0	408	10,300	6,980	43,900	< 184	---	61,588	Within FPH plume (sample collected in wet/saturated conditions)	Rand
VMP-36	09/01/04	34.0	23,000	121,000	291,000	562,000	< 1,340	---	997,000	Within FPH plume (sample collected in wet/saturated conditions)	N. of E. Elm
VMP-44	09/01/04	27.0	128	117	36.7	267	< 2.3	---	548.7	Outside of FPH plume (sample collected in wet/saturated conditions)	NA

NOTES:

ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
J = Analyte detected below reporting limits.
NA = *Not Applicable*
--- = compound not analyzed

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
North Olive Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
MP-47	07/13/04	10.0	0.6 J	1.7 J	3.2 J	7.1 J	< 2.3	13.3	12.6	Within FPH plume	N. Olive
MP-55	07/16/04	12.0	179	120 J	172	664 J	< 54.8	13.9	1,135	Within FPH plume	Elm/N. Olive
HMW-38	08/03/04	12.0-14.0	228	< 153	< 153	42 J	< 61.1	15	270	Outside of FPH plume	Rand
HMW-39	08/30/04	14.0-15.0	3.2	1.5 J	6.6 J	6.3 J	< 2.8	8.37	17.6	N.Olive/Rand outside of FPH plume	NA
Dup-01	08/30/04	14.0-15.0	3	1.2 J	5.6 J	5.2 J	< 2.5	9.49	15		
HMW-40	08/03/04	12.0-14.0	4.7	2.8 J	10.2	7.5	< 2.5	9.33	25.2	Outside of FPH plume	NA
HMW-41	08/04/04	15.0-16.0	6.1	7.9 J	16.5	19.7	< 6.0	10.6	50.2	Outside of FPH plume	NA
HMW-43	08/23/04	12.0-14.0	1,060	34,900	17,300	177,000	< 292	7.15	230,260	Outside of FPH plume	NA
HMW-44	08/05/04	10.0-12.0	33,900	81,000	146,000	321,000	< 2,920	13.8	581,900	Within FPH plume	N. Olive
Dup-04	08/05/04	10.0-12.0	27,700	101,000	149,000	412,000	< 2,880	11.4	689,700		
HMW-45	08/04/04	12.0-14.0	31.1	2.5 J	4.8 J	9.2	< 2.4	14.4	47.6	Within FPH plume	NA
HMW-46	08/02/04	12.0-14.0	3,220	2,090	55 J	1,750 J	< 74	13.6	7,115	Within FPH plume	Rand
HMW-47	08/02/04	14.0-16.0	2.1	< 9.1	2.6 J	6.9 J	< 3.7	20.2	11.6	Within FPH plume	Rand
HMW-48	08/02/04	12.0-14.0	20,500	37,000	1,020	105,000	< 253	13.5	163,520	Within FPH plume	N. Olive / Rand
HMW-51	08/03/04	10.0-12.0	3.3	1.8 J	5.5 J	4.6 J	< 3	11.2	15.2	Outside of FPH plume	NA

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
North Olive Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
VMP-15	09/02/04	12.5	17,900	57,200	58,500	219,000	< 1,210	---	352,600	Within FPH plume	N. Olive
A1	09/18/03	14.0	250	400 J	370 J	2,450 J	---	---	3,470	Within FPH plume	Elm St.
A2	09/18/03	14.0	120 J	< 598	480 J	15,200	---	---	15,800	Within FPH plume	Elm St.
A3	09/18/03	14.0	45 J	78 J	62 J	181	---	---	366	Within FPH plume	Elm St.
A4	09/18/03	10.0	39	15	18	50	---	---	122	Within FPH plume	Elm St.
A5	09/18/03	10.0	141	34	35	236	---	---	446	Within FPH plume	Elm St.
A6	09/18/03	10.0	4,150	19,500	22,600	117,000	---	---	163,250	Within FPH plume	Elm St.
A7	09/18/03	10.0	7	5 J	9	12	---	---	33	Within FPH plume	Elm St.
A8	09/18/03	10.0	344	4,970	5,440	72,100	---	---	82,854	Within FPH plume	Elm St.
A9	09/18/03	10.0	2 J	2 J	3 J	5 J	---	---	12	Within FPH plume	Elm St.
A10	09/18/03	14.0	11,600	116,000	36,000	383,000	---	---	546,600	Within FPH plume	Elm St.
A11	10/07/03	14.0	5,240	23,300	7,610	56,500	---	---	92,650	Within FPH plume	Elm St.
A12	10/07/03	14.0	27,300	57,000	138,000	255,000	---	---	477,300	Within FPH plume	Elm St.
*SB-1	08/06/03	14.0	912	8,470	7,000	49,900	---	---	66,282	Within FPH plume	Elm St.
*SB-2	08/06/03	14.0	44,900	194,000	385,000	914,000	---	---	1,537,900	Within FPH plume	Elm St.
*SB-3	08/06/03	14.0	32,100	230,000	354,000	1,110,000	---	---	1,726,100	Within FPH plume	Elm St.
*SW-1	08/05/03	12.0	4,910	6,540,000	5,390,000	32,700,000	---	---	44,634,910	Within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
North Olive Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS							COMMENTS	PIPELINE CORRIDOR
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg		
*SW-3	08/05/03	12.0	927	110 J	160 J	334	---	---	1,531	Within FPH plume	Elm St.
*SW-5	08/05/03	12.0	3,530	2,110	1,190	3,980	---	---	10,810	Within FPH plume	Elm St.
*SW-7	08/05/03	12.0	24	9	15	68	---	---	116	Within FPH plume	Elm St.
*SW-9	08/05/03	12.0	903	344	302	850	---	---	2,399	Within FPH plume	Elm St.
*SW-11	08/05/03	12.0	5,070	10,800	10,800	66,000	---	---	92,670	Within FPH plume	Elm St.

NOTES:

ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
* = sample location subsequently excavated

ft bgs = feet below ground surface
J = Analyte detected below reporting limits.

NA = Not Applicable
--- = compound not analyzed

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Rand Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
MP-29	07/12/04	16.0	17	2.5	5.1	7.2	< 2.3	16.4	31.8	Within FPH plume	NA
MP-34	07/19/04	19.5	1.5	2.1 J	3.8 J	6.2	< 2.1	15.6	13.6	Within FPH plume	NA
MP-47	07/13/04	20.0	8,550	156,000	277,000	1,498,000	< 3,810	17.3	1,939,550	Within FPH plume	N. Olive
MP-53	07/15/04	19.5	2,090	170,000	< 5,540	259,000	< 2,220	29.7	431,090	Within FPH plume	Elm
MP-55	07/16/04	20.0	94,600	85,000	299,000	368,000	< 1,060	13.2	846,600	Within FPH plume	Elm/N. Olive
HMW-44	08/05/04	20.0-22.0	293,000	310,000	997,000	1,304,000	< 1,400	23.7	2,904,000	Within FPH plume	N. Olive
HMW-48	08/02/04	22.0-24.0	33,600	33,000	1,130	95,930	< 111	12.4	163,660	Within FPH plume	N. Olive/Rand
VMP-12	09/01/04	20.0	< 26.9	< 135	< 135	< 135	< 53.9	---	ND	Within FPH plume (sample collected in wet/saturated conditions)	N. Olive
VMP-15	09/02/04	25.0	247,000	291,000	896,000	1,260,000	< 12,600	---	2,694,000	Within FPH plume (sample collected in wet/saturated conditions)	N. Olive
VMP-22	07/13/04	26.0	2.5	< 5.8	< 5.8	< 5.8	2.6	---	5.1	Within FPH plume (sample collected in wet/saturated conditions)	NA

NOTES:
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
J = Analyte detected below reporting limits.
NA = Not Applicable
ND = Non-Detect
--- = compound not analyzed

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
MP-29	07/12/04	7.5	2.3	< 5.8	< 5.8	1.6 J	< 2.3	16.7	3.9	Clay above N.Olive within FPH plume	NA
MP-29	07/12/04	13.0	9.7	3 J	5 J	10.6 J	< 2.4	23	28.3	Clay above Rand below N.Olive within FPH plume	NA
MP-31	07/20/04	12.0	3.8	4.2 J	13.2	12.4	< 3	13.5	33.6	Clay above N.Olive outside of FPH plume	NA
Dup-02	07/20/04	12.0	3.9	3.4 J	12.5	10.4	< 2.2	11.5	30.2		
MP-31	07/20/04	19.0	1.8	< 5.8	2.8 J	2.6 J	< 2.3	14.8	7.2	Clay above Main below N.Olive outside of FPH plume	NA
MP-34	07/19/04	13.5	1.2	0.9 J	2.8 J	3.4	< 1.2	17	8.3	Clay above N.Olive within FPH plume	NA
MP-34	07/19/04	27.5	375	6,010	7,140	51,800	< 438	16.3	65,325	Clay above Main below Rand within FPH plume	NA
MP-47	07/13/04	7.0	0.8 J	1.3 J	3.9 J	5.4 J	< 2.1	16.1	11.4	Clay above N.Olive within FPH plume	N. Olive
MP-47	07/13/04	17.0	3.7	1.6 J	5.8 J	7.4	< 2.6	15.1	18.5	Clay above Rand below N.Olive within FPH plume	N. Olive
MP-47	07/13/04	27.0	16,200	10,300	35,400	50,400	640 J	24.4	112,300	Clay above Main below Rand within FPH plume	N. Olive
MP-48	07/20/04	14.5	2.1	1.3 J	3.7 J	4.2 J	< 2.2	15.4	11.3	Clay above N.Olive within FPH plume	NA
MP-53	07/15/04	14.0	4	3 J	10	9.2	< 2.3	17.8	26.2	Clay above Rand within FPH plume	Elm
MP-53	07/15/04	26.0	12,000	7,570	14,500	32,800	< 2,580	25.8	66,870	Clay above Main below Rand within FPH plume	Elm
Dup-01	07/15/04	26.0	29,000	33,800	61,100	146,000	< 2,310	23.4	269,900		
MP-55	07/16/04	17.5	2,620	2,940	7,170	13,200	< 112	17	25,930	Clay above Rand below N.Olive within FPH plume	Elm/N. Olive
MP-55	07/16/04	25.0	14,100	2,250	15,400	10,200	< 474	20.6	41,950	Clay above Main below Rand within FPH plume	Elm/N. Olive
MP-65	08/18/04	8.0-10.0	0.8 J	1.6 J	2.1 J	5.9 J	< 2.4	21.5	10.4	Clay above Main outside of FPH plume	NA

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS							COMMENTS	PIPELINE CORRIDOR
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg		
MP-66	08/20/04	6.0-8.0	< 1.3	< 6.3	1.7 J	4 J	< 2.5	18.7	5.7	Clay above Main outside of FPH plume	NA
MP-67	08/19/04	6.0-8.0	0.9 J	1.6 J	2.4 J	5.9 J	< 2.8	8.19	10.8	Shallow Fill outside of FPH plume	NA
MP-67	08/19/04	14.0-16.0	1.1 J	< 6.9	2.2 J	< 6.9	< 2.8	14.1	3.3	Clay above Main outside of FPH plume	NA
HMW-38	08/03/04	6.0-8.0	184	< 151	< 151	53 J	< 60.2	16	237	Clay above N.Olive outside of FPH plume	Rand
HMW-38	08/03/04	26.0-28.0	11,900	16,800	420 J	47,590	< 537	15	76,710	Clay above Main below N.Olive outside of FPH plume	Rand
HMW-39	08/30/04	6.0-8.0	1.4 J	< 7.7	1.7 J	2.7 J	< 3.1	30.2	5.8	Shallow Fill / Clay outside of FPH plume	NA
HMW-39	08/30/04	8.0-10.0	0.7 J	< 7.3	1.8 J	< 7.3	< 2.9	45	2.5	Shallow Fill outside of FPH plume	NA
HMW-39	08/30/04	12.0-13.0	0.8 J	< 7.5	< 7.5	< 7.5	< 3.0	10.8	0.8	Clay above N.Olive/ Rand outside of FPH plume	NA
HMW-39	08/30/04	30.0	1.8	< 8.0	2.2 J	3.8 J	< 3.2	15.8	7.8	Clay above Main below N.Olive/Rand outside of FPH plume	NA
HMW-40	*08/03/04*	*8.0-10.0*	*1.9*	*< 9*	*< 9*	*3.4 J*	*< 3.6*	*11.9*	*5.3*	*Fill / Clayey Silt outside of FPH plume*	NA
HMW-41	08/04/04	10.0-12.0	3.8	3.4 J	4.3 J	8.9	< 3.2	25.1	20.4	Clay above N.Olive outside of FPH plume	NA
Dup-03	08/04/04	10.0-12.0	2.5	3.2 J	4.3 J	6.7	< 2.7	21.5	16.7		
HMW-42	08/04/04	14.0-16.0	1.9	2.5 J	4.5 J	9.8	< 3.2	22.6	18.7	Clay above Main outside of FPH plume	NA
HMW-43	08/04/04	7.0-8.0	1.4	1.5 J	2.1 J	5.5 J	< 2.5	16.3	10.5	Clay above N.Olive outside of FPH plume	NA
HMW-43	08/23/04	22.0-24.0	15,200	16,600	31,200	56,800	< 201	13.7	119,800	Clay above Main below N.Olive outside of FPH plume	NA
Dup-02	08/23/04	22.0-24.0	465	12,100	7,390	56,000	< 227	7.98	75,955		
HMW-44	08/05/04	6.0-8.0	85,000	267,000	3,200 J	31,900	< 5,370	20.0	387,100	Clay above N.Olive within FPH plume	N. Olive

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
HMW-44	08/05/04	16.0-18.0	35,400	25,300	86,900	104,500	< 554	22.1	252,100	Clay above Rand below N.Olive within FPH plume	N. Olive
HMW-44	08/05/04	26.0-28.0	38,200	27,000	91,600	113,500	< 681	21.7	270,300	Clay above Main below Rand within FPH plume	N. Olive
HMW-45	08/04/04	10.0-12.0	135	< 162	47 J	53 J	< 64.9	20.4	235	Clay above N.Olive within FPH plume	NA
HMW-45	08/04/04	22.0-24.0	1,370	< 210	42 J	58 J	< 84.0	18.8	1,470	Clay above Rand below N.Olive within FPH plume	NA
HMW-45	08/04/04	28.0-30.0	2,260	72 J	57 J	110 J	< 93.7	19.2	2,499	Clay above Main below Rand within FPH plume	NA
HMW-46	08/02/04	8.0-10.0	2,160	346	< 156	442	< 62.3	12.8	2,948	Clay above N.Olive within FPH plume	Rand
HMW-46	08/02/04	22.0-24.0	7,760	2,900	300 J	1,320	< 479	12.6	12,280	Clay above Main below N.Olive within FPH plume	Rand
HMW-47	08/02/04	10.0-12.0	2.1	1.1 J	1 J	3.9 J	< 2.0	14	8.1	Clay above N.Olive within FPH plume	Rand
HMW-47	08/02/04	24.0-26.0	415	150 J	198	353	< 74.3	16.7	1,116	Clay above EPA below N.Olive within FPH plume	Rand
Dup-01	08/02/04	24.0-26.0	< 35.3	< 177	< 177	< 177	< 70.7	14.6	ND		
HMW-47	08/02/04	42.0-44.0	2,790	373	92 J	725	< 65.6	11.7	3,980	Clay above Main below EPA within FPH plume	Rand
HMW-48	08/02/04	6.0-8.0	28,400	136,000	2,270	277,000	< 545	14.6	443,670	Clay above N.Olive within FPH plume	N. Olive/Rand
HMW-48	08/02/04	14.0-16.0	9,580	9,430	380 J	23,540 J	< 478	17.9	42,930	Clay above Rand below N.Olive within FPH plume	N. Olive/Rand
HMW-48	08/02/04	30.0-32.0	1,220	23	45.8	77.4	< 2.9	17.8	1,366.2	Clay above EPA below Rand within FPH plume	N. Olive/Rand
HMW-48	08/02/04	42.0-44.0	145	4.3 J	3.6 J	6.4	< 2.1	10.9	159.3	Clay above Main below EPA within FPH plume	N. Olive/Rand
HMW-49	08/24/04	7.0-9.0	< 1.0	< 5.1	< 5.1	1.7 J	< 2.0	15	1.7	Clay above N.Olive outside of FPH plume	NA

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
HMW-49	08/24/04	15.0-17.0	0.6 J	< 5.2	< 5.2	< 5.2	< 2.1	21.1	0.6	Clay above EPA below N.Olive outside of FPH plume	NA
HMW-50	08/24/04	9.0-11.0	< 1.2	< 5.8	< 5.8	< 5.8	< 2.3	12.7	ND	Clay above Rand outside of FPH plume	NA
HMW-50	08/24/04	27.0-29.0	1.1 J	< 6.8	1.9 J	2.3 J	< 2.7	15.6	5.3	Clay above EPA below Rand outside of FPH plume	NA
HMW-50	08/24/04	41.0-43.0	1.7	11	9.4	51.4	< 2.6	13.9	73.5	Clay above Main below EPA outside of FPH plume	NA
HMW-51	08/03/04	8.0-10.0	4.2	2.1 J	6.8 J	6.9 J	< 3.8	12.8	20	Clay above N.Olive outside of FPH plume	NA
HMW-52	08/25/04	10.0-12.0	0.8 J	< 7.1	1.8 J	4.9 J	< 2.8	11.5	7.5	Clay above Main outside of FPH plume	NA
HSVE-12	07/29/04	20.0-22.0	72.9	1,320	863	286,000	74 J	25.8	288,329.9	Clay within FPH plume	NA
VMP-15	09/02/04	8.0	22,300	51,000	76,400	199,000	< 2,370	---	348,700	Clay above N.Olive within FPH plume	N.Olive
A1N	09/18/03	8.0	1,540	70 J	110 J	297	---	---	2,017	Fill/Clay above N. Olive within FPH plume	Elm St.
A2N	09/18/03	8.0	7	3 J	2 J	18	---	---	30	Fill/Clay above N. Olive within FPH plume	Elm St.
A3N	09/18/03	8.0	4	3 J	3 J	6	---	---	16	Fill/Clay above N. Olive within FPH plume	Elm St.
A4S	09/18/03	8.0	5	26	40	633	---	---	704	Fill/Clay above N. Olive within FPH plume	Elm St.
A4N	09/18/03	8.0	110	4 J	5 J	8	---	---	127	Fill/Clay above N. Olive within FPH plume	Elm St.
A5S	09/18/03	8.0	144	4 J	4 J	110 J	---	---	262	Fill/Clay above N. Olive within FPH plume	Elm St.
A5N	09/18/03	8.0	1 J	1 J	1 J	3 J	---	---	6	Fill/Clay above N. Olive within FPH plume	Elm St.
A6S	09/18/03	8.0	17	5	4 J	16	---	---	42	Fill/Clay above N. Olive within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS							COMMENTS	PIPELINE CORRIDOR
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg		
A6N	09/18/03	8.0	850	160 J	220 J	472	---	---	1,702	Fill/Clay above N. Olive within FPH plume	Elm St.
A7S	09/18/03	8.0	10	5 J	8	10	---	---	33	Fill/Clay above N. Olive within FPH plume	Elm St.
A7N	09/18/03	8.0	3	2 J	3 J	4 J	---	---	12	Fill/Clay above N. Olive within FPH plume	Elm St.
A8S	09/18/03	8.0	3	3 J	4 J	7	---	---	17	Fill/Clay above N. Olive within FPH plume	Elm St.
A8N	09/18/03	8.0	6	3 J	7	19	---	---	35	Fill/Clay above N. Olive within FPH plume	Elm St.
A9S	09/18/03	8.0	1 J	2 J	2 J	5 J	---	---	10	Fill/Clay above N. Olive within FPH plume	Elm St.
A9N	09/18/03	8.0	2 J	3 J	4 J	6 J	---	---	15	Fill/Clay above N. Olive within FPH plume	Elm St.
A10S	10/08/03	8.0	11,800	41,400	2,700	32,000	---	---	87,900	Fill/Clay above N. Olive within FPH plume	Elm St.
A10E	10/08/03	8.0	4,790	4,500	430 J	983	---	---	10,703	Fill/Clay above N. Olive within FPH plume	Elm St.
A11S	10/07/03	8.0	430	416	210 J	1,380	---	---	2,436	Fill/Clay above N. Olive within FPH plume	Elm St.
A12S	10/07/03	8.0	692	74 J	77 J	261	---	---	1,104	Fill/Clay above N. Olive within FPH plume	Elm St.
A12W	10/07/03	8.0	20	96 J	140	425	---	---	681	Fill/Clay above N. Olive within FPH plume	Elm St.
C1S	09/18/03	6.0	4	3 J	6	5 J	---	---	18	Fill/Clay above Rand within FPH plume	Elm St.
C1	09/18/03	12.0	100 J	310 J	250 J	778	---	---	1,438	Fill/Clay above Rand within FPH plume	Elm St.
C1N	09/18/03	6.0	22 J	32 J	41 J	54 J	---	---	149	Fill/Clay above Rand within FPH plume	Elm St.
C2S	09/18/03	6.0	279	736	98 J	3,510	---	---	4,623	Fill/Clay above Rand within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS							COMMENTS	PIPELINE CORRIDOR
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg		
C2	09/18/03	12.0	8	6 J	7	34	---	---	55	Fill/Clay above Rand within FPH plume	Elm St.
C2N	09/18/03	6.0	2 J	< 5	1 J	2 J	---	---	5	Fill/Clay above Rand within FPH plume	Elm St.
C3S	09/18/03	6.0	3	2 J	4 J	5 J	---	---	14	Fill/Clay above Rand within FPH plume	Elm St.
C3	09/18/03	12.0	14 J	33 J	31 J	73 J	---	---	151	Fill/Clay above Rand within FPH plume	Elm St.
C3N	09/18/03	6.0	36 J	52 J	49 J	110 J	---	---	247	Fill/Clay above Rand within FPH plume	Elm St.
D1S	09/18/03	4.0	2 J	2 J	2 J	5 J	---	---	11	Fill/Clay above Main outside of FPH plume	Elm St.
D1	09/18/03	8.0	25 J	100 J	39 J	723	---	---	887	Fill/Clay above Main outside of FPH plume	Elm St.
D1N	09/18/03	4.0	21 J	29 J	44 J	86 J	---	---	180	Fill/Clay above Main outside of FPH plume	Elm St.
D1W	09/24/03	4.0	19	12	16	42	---	---	89	Fill/Clay above Main outside of FPH plume	Elm St.
E1S	09/18/03	4.0	2 J	3 J	7	9	---	---	21	Fill/Clay above Main within FPH plume	Elm St.
E1	09/18/03	8.0	104	54	7 J	40	---	---	205	Fill/Clay above Main within FPH plume	Elm St.
E1N	09/18/03	4.0	174	85	7	137	---	---	403	Fill/Clay above Main within FPH plume	Elm St.
E2S	09/18/03	4.0	8	7	15	9	---	---	39	Fill/Clay above Main within FPH plume	Elm St.
E2	09/18/03	8.0	7	2 J	2 J	6 J	---	---	17	Fill/Clay above Main within FPH plume	Elm St.
E2N	09/18/03	4.0	10	3 J	1 J	6	---	---	20	Fill/Clay above Main within FPH plume	Elm St.
F1S	09/23/03	4.0	17	11	20	13	---	---	61	Fill/Clay above Main within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
F1	09/23/03	8.0	75	38	18	53	---	---	184	Fill/Clay above Main within FPH plume	Elm St.
F1N	09/23/03	4.0	194	133	117	304	---	---	748	Fill/Clay above Main within FPH plume	Elm St.
F2S	09/23/03	4.0	11	2 J	6	8	---	---	27	Fill/Clay above Main within FPH plume	Elm St.
F2	09/23/03	8.0	2,900	6,450	13,600	32,500	---	---	55,450	Fill/Clay above Main within FPH plume	Elm St.
F2N	09/23/03	4.0	3	1 J	5 J	6	---	---	15	Fill/Clay above Main within FPH plume	Elm St.
F3S	09/23/03	4.0	25	67	18	101	---	---	211	Fill/Clay above Main within FPH plume	Elm St.
F3	09/23/03	8.0	30,400	60,200	137,000	389,000	---	---	616,600	Fill/Clay above Main within FPH plume	Elm St.
F3N	09/23/03	4.0	499	773	2,680	194,000	---	---	197,952	Fill/Clay above Main within FPH plume	Elm St.
F4S	09/23/03	4.0	28	28	20	56	---	---	132	Fill/Clay above Main within FPH plume	Elm St.
F4	09/23/03	8.0	903	29,500	21,900	203,000	---	---	255,303	Fill/Clay above Main within FPH plume	Elm St.
F4N	09/23/03	4.0	3,780	76,400	60,900	515,000	---	---	656,080	Fill/Clay above Main within FPH plume	Elm St.
F5S	09/23/03	4.0	81	7	17	39	---	---	144	Fill/Clay above Main within FPH plume	Elm St.
F5	09/23/03	8.0	41	7	17	20	---	---	85	Fill/Clay above Main within FPH plume	Elm St.
F5N	09/23/03	4.0	15	6	4 J	7	---	---	32	Fill/Clay above Main within FPH plume	Elm St.
G1S	09/24/03	4.0	2 J	3 J	4 J	9	---	---	18	Fill/Clay above Main within FPH plume	Elm St.
G1	09/24/03	8.0	7	3 J	4 J	8	---	---	22	Fill/Clay above Main within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS								
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg	COMMENTS	PIPELINE CORRIDOR
G1E	09/24/03	4.0	2	34	5 J	32	---	---	73	Fill/Clay above Main within FPH plume	Elm St.
G1N	09/24/03	4.0	1 J	2 J	3 J	6	---	---	12	Fill/Clay above Main within FPH plume	Elm St.
G2S	09/24/03	4.0	40 J	48 J	40 J	120	---	---	248	Fill/Clay above Main within FPH plume	Elm St.
G2	09/24/03	8.0	48 J	140 J	91 J	244	---	---	523	Fill/Clay above Main within FPH plume	Elm St.
G2N	09/24/03	4.0	52 J	331	68 J	336	---	---	787	Fill/Clay above Main within FPH plume	Elm St.
N. WALL	11/21/03	7.0	100 J	120 J	150 J	300 J	---	---	670	Fill/Clay above Main outside of FPH plume	Elm St.
S. WALL	11/21/03	3.0	3 J	2 J	5 J	8	---	---	17	Fill/Clay above Main outside of FPH plume	Elm St.
E. WALL	11/21/03	4.0	675	1,310	1,430	3,060	---	---	6,475	Fill/Clay above Main outside of FPH plume	Elm St.
W. WALL	11/21/03	4.0	3	3 J	6 J	7	---	---	18	Fill/Clay above Main outside of FPH plume	Elm St.
N. BOTTOM	11/21/03	12.0	< 62.7	< 157	< 157	< 157	---	---	ND	Fill/Clay above Main outside of FPH plume	Elm St.
S. BOTTOM	11/21/03	6.0	3 J	5 J	9 J	11	---	---	28	Fill/Clay above Main outside of FPH plume	Elm St.
*SW-2	08/05/03	7.0	3,620	354	294	1,000	---	---	5,268	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-4	08/05/03	7.0	2,340	69	94	460	---	---	2,963	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-6	08/05/03	7.0	297	158	205	587	---	---	1,247	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-8	08/05/03	7.0	16	4 J	9	8	---	---	37	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-10	08/05/03	7.0	372	73	33	122	---	---	600	Fill/Clay above N. Olive within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - BETX/MTBE and LEAD
Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS							COMMENTS	PIPELINE CORRIDOR
ID	Date Collected	Sample Depth ft bgs	Benzene ug/kg	Ethylbenzene ug/kg	Toluene ug/kg	Total Xylenes ug/kg	MTBE ug/kg	Lead mg/kg	Total BETX ug/kg		
*SW-12	08/05/03	7.0	443	14	8	30	---	---	495	Fill/Clay above N. Olive within FPH plume	Elm St.
*A1S	09/18/03	8.0	1,680	5,140	6,520	31,600	---	---	44,940	Fill/Clay above N. Olive within FPH plume	Elm St.
*A2S	09/18/03	8.0	144	130	94 J	752	---	---	1,120	Fill/Clay above N. Olive within FPH plume	Elm St.
*A3S	09/18/03	8.0	98	5 J	10	21	---	---	134	Fill/Clay above N. Olive within FPH plume	Elm St.

NOTES:
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
J = Analyte detected below reporting limits.
NA = Not Applicable
ND = Non-Detect
--- = compound not analyzed
* = sample location subsequently excavated

TABLE 4-1
Soil Chemical Analysis Results - Metals and Inorganics
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			METAL COMPOUNDS														INORGANICS		
ID	Date Collected	Sample Depth ft bgs	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Total Chromium mg/kg	Cobalt mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Vanadium mg/kg	Zinc mg/kg	Cyanide mg/kg	COMMENTS	PIPELINE CORRIDOR
MP-29	07/12/04	13.0	0.45 J	16.7	217	1.04	1.37	30.8	14.5	23.0	0.04	37.4	< 0.566	< 0.89	78.2	102	< 0.64	Clay above Rand below N.Olive within FPH plume	NA
MP-31	07/20/04	19.0	0.64	8.99	243	0.78	0.66	19.5	9.54	14.8	0.04	24.8	0.45 J	< 0.94	35.9	83.4	< 0.66	Clay above Main below N.Olive outside FPH plume	NA
MP-34	07/19/04	27.5	0.43 J	14.0	171	0.76	0.35	24.5	12.7	16.3	0.04	29.3	< 0.588	< 0.98	48.5	89.4	< 0.66	Clay above Main below Rand within FPH plume	NA
MP-47	07/13/04	10.0	0.24 J	8.69	124	< 0.09	0.47	13.4	6.27	13.3	0.02	19	< 0.588	< 0.94	29.6	51	< 0.64	N.Olive within FPH plume	N. Olive
MP-47	07/13/04	20.0	0.28 J	4.39	216	0.63	0.62	17.4	6.72	17.3	0.03	19.7	< 0.600	< 0.89	32.9	77.9	< 0.70	Rand within FPH plume	N. Olive
MP-47	07/13/04	27.0	0.43 J	8.2	198	1.15	1.23	27.5	12.0	24.4	0.05	35.8	< 0.545	< 0.93	59.6	88.0	< 0.67	Clay above Main below Rand within FPH plume	N. Olive
MP-55	07/16/04	12.0	0.43 J	6.51	199	< 0.10	0.32	13.6	7.94	13.9	0.03	22.8	< 0.600	< 0.96	33.0	59.2	< 0.62	N.Olive within FPH plume	Elm/N. Olive
MP-55	07/16/04	20.0	0.20 J	< 2.45	183	0.50	0.27	12.8	6.61	13.2	0.03	16.2	< 0.577	< 0.98	24.5	77.9	< 0.64	Rand within FPH plume	Elm/N. Olive
HMW-38	08/03/04	26.0-28.0	0.58	8.75	314	0.79	0.36	25.0	11.5	15.0	0.05	29.6	< 0.600	< 0.98	50.7	86.4	0.2 J	Clay above Main below N.Olive outside FPH plume	Rand
HMW-44	08/05/04	16.0-18.0	0.9	21.8	240	1.22	1.33	27.2	12.9	22.1	0.07	38.4	< 0.588	< 0.98	69.8	108	< 0.68	Clay above Rand below N.Olive within FPH plume	N. Olive
HMW-44	08/05/04	20.0-22.0	0.18 J	3.92	132	< 0.10	0.45	13.0	6.09	23.7	0.06	17.2	< 0.556	< 1.00	23.7	41.6	< 0.63	Rand within FPH plume	N. Olive
HMW-44	08/05/04	26.0-28.0	0.67	1.6 J	212	1.11	0.55	27.5	11.1	21.7	0.06	31.1	< 0.588	< 0.93	42.6	101	< 0.70	Clay above Main below Rand within FPH plume	N. Olive
HMW-45	08/04/04	22.0-24.0	0.45 J	9.5	196	0.56	0.43	20.8	10.6	18.8	0.05	20.6	< 0.600	< 1.00	42.1	70.2	< 0.63	Clay above Rand below N.Olive within FPH plume	NA
HMW-45	08/04/04	28.0-30.0	0.21 J	4.19	184	0.95	0.92	26.6	9.1	19.2	0.02	25.5	< 0.577	< 0.98	37.9	89.7	< 0.70	Clay above Main below Rand within FPH plume	NA
HMW-46	08/02/04	12.0-14.0	0.68	6.89	208	0.61	0.36	19	8.99	13.6	0.02	25.3	< 0.600	< 1.00	38.8	62.7	< 0.63	N.Olive within FPH plume	Rand
HMW-47	08/02/04	14.0-16.0	0.92	11.3	245	0.92	0.41	24	11.8	20.2	0.05	30.3	< 0.566	< 1.00	48.3	89.6	0.22 J	N.Olive within FPH plume	Rand
HMW-48	08/02/04	14.0-16.0	1.17	9.46	259	0.97	0.39	23.2	9.51	17.9	0.05	29.4	< 0.566	< 0.94	45.7	88.6	0.30 J	Clay above Rand below N.Olive within FPH plume	N. Olive
HMW-48	08/02/04	22.0-24.0	0.27 J	3.94	82.2	0.47	0.22	13.4	8.55	12.4	0.02	19.7	< 0.588	< 1.00	26.0	38.0	0.23 J	Rand within FPH plume	N. Olive
HMW-51	08/03/04	10.0-12.0	0.44 J	5.85	296	0.41	0.22	11.5	9.46	11.2	0.01	18.5	< 0.556	< 0.94	26.0	51.2	< 0.59	N.Olive outside FPH plume	NA
HSVE-12	07/29/04	20.0-22.0	0.91	6.14	196	< 0.10	0.42	13.9	9.03	25.8	0.03	22	0.951	< 0.98	21.3	57.1	< 0.61	Clay within FPH plume	NA

NOTES:
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
J = Analyte detected below reporting limits.
NA = Not Applicable

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS											
ID	Date Collected	Sample Depth ft bgs	2,4-Dimethylphenol mg/kg	Acenaphthene mg/kg	Acenaphylthene mg/kg	Anthracene mg/kg	Benzo(a)anthracene mg/kg	Benzo(a)pyrene mg/kg	Benzo(b)fluoranthene mg/kg	Benzo(g,h,i)perylene mg/kg	Benzo(k)fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h)anthracene mg/kg	Fluoranthene mg/kg
MP-29	07/12/04	13.0	< 0.673	< 0.471	---	< 0.471	< 0.471	< 0.471	< 0.471	---	< 0.471	< 0.471	< 0.089	< 0.471
MP-31	07/20/04	19.0	< 0.678	< 0.475	---	< 0.475	< 0.475	< 0.475	< 0.475	---	< 0.475	< 0.475	< 0.090	< 0.475
MP-34	07/19/04	27.5	< 1.350	< 0.947	---	< 0.947	< 0.947	< 0.947	< 0.947	---	< 0.947	< 0.947	< 0.090	< 0.947
MP-47	07/13/04	10.0	< 0.645	< 0.452	---	< 0.452	< 0.452	< 0.452	< 0.452	---	< 0.452	< 0.452	< 0.085	< 0.452
MP-47	07/13/04	20.0	< 0.690	< 0.483	---	< 0.483	< 0.483	< 0.483	< 0.483	---	< 0.483	< 0.483	< 0.090	< 0.483
MP-47	07/13/04	27.0	< 0.670	< 0.469	---	< 0.469	< 0.469	< 0.469	< 0.469	---	< 0.469	< 0.469	< 0.088	< 0.469
MP-55	07/16/04	12.0	< 0.643	< 0.450	---	< 0.450	< 0.450	< 0.450	< 0.450	---	< 0.450	< 0.450	< 0.090	< 0.450
MP-55	07/16/04	20.0	< 0.635	0.160 J	---	< 0.444	< 0.444	< 0.444	< 0.444	---	< 0.444	< 0.444	< 0.084	< 0.444
HMW-38	08/03/04	26.0-28.0	0.400 J	< 0.454	---	< 0.454	< 0.454	< 0.454	< 0.454	---	< 0.454	< 0.454	< 0.086	< 0.454
HMW-44	08/05/04	16.0-18.0	< 0.683	< 0.478	---	< 0.478	< 0.478	< 0.478	< 0.478	---	< 0.478	< 0.478	< 0.090	< 0.478
HMW-44	08/05/04	20.0-22.0	< 15.700	< 11.000	---	< 11.000	< 2.200	< 2.200	< 2.200	---	< 2.200	< 2.200	< 0.414	< 11.000
HMW-44	08/05/04	26.0-28.0	< 0.682	< 0.478	---	< 0.478	< 0.478	< 0.478	< 0.478	---	< 0.478	< 0.478	< 0.090	< 0.478
HMW-45	08/04/04	22.0-24.0	< 0.644	< 0.451	---	< 0.451	< 0.451	< 0.451	< 0.451	---	< 0.451	< 0.451	< 0.090	< 0.451
HMW-45	08/04/04	28.0-30.0	< 0.688	< 0.482	---	< 0.482	< 0.482	< 0.482	< 0.482	---	< 0.482	< 0.482	< 0.089	< 0.482
HMW-46	08/02/04	12.0-14.0	< 0.628	< 0.440	---	< 0.440	< 0.440	< 0.440	< 0.440	---	< 0.440	< 0.440	< 0.083	< 0.440
HMW-47	08/02/04	14.0-16.0	< 0.647	< 0.453	---	< 0.453	< 0.453	< 0.453	< 0.453	---	< 0.453	< 0.453	< 0.085	< 0.453
HMW-48	08/02/04	14.0-16.0	< 0.665	< 0.465	---	< 0.465	< 0.465	< 0.465	< 0.465	---	< 0.465	< 0.465	< 0.090	< 0.465
HMW-48	08/02/04	22.0-24.0	< 0.617	0.200 J	---	< 0.432	< 0.432	< 0.432	< 0.432	---	< 0.432	< 0.432	< 0.081	< 0.432
HMW-51	08/03/04	10.0-12.0	< 0.604	< 0.423	---	< 0.423	< 0.423	< 0.423	< 0.423	---	< 0.423	< 0.423	< 0.080	< 0.423
HSVE-12	07/29/04	20.0-22.0	< 6.030	0.230 J	---	< 0.422	< 0.422	< 0.422	< 0.422	---	< 0.422	< 0.422	< 0.090	< 0.422
A1	09/18/03	14.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	0.044	0.017	0.076	< 0.013	< 0.013	0.720
A1N	09/18/03	8.0	---	< 0.039	< 0.039	< 0.013	< 0.010	0.028	0.040	< 0.013	< 0.013	< 0.013	< 0.013	0.750
A2	09/18/03	14.0	---	< 0.200	< 0.200	< 0.065	< 6.400	0.500	0.960	< 0.065	1.200	1.900	< 0.065	18.000
A2N	09/18/03	8.0	---	< 0.035	< 0.035	< 0.012	< 0.009	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.023

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS											
ID	Date Collected	Sample Depth ft bgs	2,4-Dimethylphenol mg/kg	Acenaphthene mg/kg	Acenaphylthene mg/kg	Anthracene mg/kg	Benzo(a)anthracene mg/kg	Benzo(a)pyrene mg/kg	Benzo(b)fluoranthene mg/kg	Benzo(g,h,i)perylene mg/kg	Benzo(k)fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h)anthracene mg/kg	Fluoranthene mg/kg
A3	09/18/03	14.0	---	< 0.075	< 0.075	< 0.025	< 0.020	0.160	0.230	< 0.025	< 0.025	< 0.025	< 0.025	0.680
A3N	09/18/03	8.0	---	< 0.036	< 0.036	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.024
A4S	09/18/03	8.0	---	< 0.075	< 0.075	< 0.310	< 0.250	3.300	3.300	< 0.310	4.000	< 0.310	< 0.310	4.600
A4	09/18/03	10.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
A4N	09/18/03	8.0	---	< 0.078	< 0.078	< 0.026	< 0.021	0.120	0.170	< 0.026	< 0.026	< 0.026	< 0.026	0.068
A5S	09/18/03	8.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.082	0.130	< 0.013	< 0.013	< 0.013	< 0.013	0.074
A5	09/18/03	10.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
A5N	09/18/03	8.0	---	< 0.039	< 0.039	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
A6S	09/18/03	8.0	---	< 0.073	< 0.073	< 0.024	< 0.020	< 0.024	0.270	< 0.024	0.200	< 0.024	< 0.024	0.590
A6	09/18/03	10.0	---	< 0.330	< 0.330	< 2.800	< 2.200	2.900	5.200	< 0.110	< 2.800	< 2.800	< 0.110	120.000
A6N	09/18/03	8.0	---	< 0.750	2.500	< 0.630	< 0.500	1.900	2.400	< 0.630	< 0.630	< 0.630	< 0.630	11.000
A7S	09/18/03	8.0	---	< 0.040	< 0.040	< 0.013	< 0.027	0.048	0.039	0.055	< 0.013	0.032	< 0.013	0.035
A7	09/18/03	10.0	---	< 0.037	< 0.037	< 0.012	< 0.010	0.016	0.039	< 0.012	< 0.012	< 0.012	< 0.012	0.028
A7N	09/18/03	8.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.025
A8S	09/18/03	8.0	---	< 0.039	< 0.039	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
A8	09/18/03	10.0	---	< 0.120	< 0.120	< 0.042	< 0.033	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.083
A8N	09/18/03	8.0	---	< 0.039	< 0.039	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
A9S	09/18/03	8.0	---	< 0.039	< 0.039	< 0.013	< 0.011	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
A9	09/18/03	10.0	---	< 0.040	< 0.040	< 0.013	< 0.011	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.027
A9N	09/18/03	8.0	---	< 0.039	< 0.039	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
A10	10/08/03	14.0	---	< 1.900	29.000	< 0.650	15.000	0.640	3.000	0.330	< 0.130	< 0.650	< 0.013	31.000
A10S	10/08/03	8.0	---	< 0.880	13.000	< 0.290	8.900	0.380	< 0.059	0.280	0.460	4.900	0.210	15.000
A10E	10/08/03	8.0	---	< 0.037	0.360	< 0.012	0.092	0.021	0.050	< 0.012	0.061	0.073	0.290	0.077
A11	10/07/03	14.0	---	< 2.000	41.000	< 0.650	26.000	< 0.650	< 0.650	< 0.650	< 0.650	< 0.650	< 0.650	35.000

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS											
ID	Date Collected	Sample Depth ft bgs	2,4-Dimethylphenol mg/kg	Acenaphthene mg/kg	Acenaphylthene mg/kg	Anthracene mg/kg	Benzo(a)anthracene mg/kg	Benzo(a)pyrene mg/kg	Benzo(b)fluoranthene mg/kg	Benzo(g,h,i)perylene mg/kg	Benzo(k)fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h)anthracene mg/kg	Fluoranthene mg/kg
A11S	10/07/03	8.0	---	< 1.900	0.940	< 0.620	< 0.490	0.079	< 0.620	0.041	< 0.012	< 0.620	< 0.012	4.700
A12	10/07/03	14.0	---	< 2.000	48.000	< 0.660	27.000	1.400	0.790	< 0.660	< 0.660	< 0.660	< 0.660	22.000
A12S	10/07/03	8.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	0.046
A12W	10/07/03	8.0	---	< 0.039	< 0.039	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	0.031	< 0.013	0.045
C1S	09/18/03	6.0	---	< 0.035	< 0.035	< 0.012	< 0.009	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.023
C1	09/18/03	12.0	---	< 0.170	< 0.170	< 1.400	< 1.100	< 0.057	2.000	< 0.057	< 0.057	< 1.400	< 0.057	31.000
C1N	09/18/03	6.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	0.022	< 0.012	< 0.012	0.063	< 0.012	0.098
C2S	09/18/03	6.0	---	< 0.068	0.210	< 0.023	< 0.018	0.360	0.490	< 0.023	< 0.023	< 0.023	< 0.023	0.350
C2	09/18/03	12.0	---	< 0.073	< 0.073	< 0.024	< 0.020	0.350	0.280	< 0.024	< 0.024	< 0.024	< 0.024	0.073
C2N	09/18/03	6.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	0.032	< 0.012	< 0.012	< 0.012	< 0.012	0.030
C3S	09/18/03	6.0	---	< 0.038	< 0.038	< 0.013	0.040	0.045	0.037	0.040	0.022	< 0.037	< 0.013	0.088
C3	09/18/03	12.0	---	0.410	< 0.069	< 0.023	< 0.092	< 0.023	< 0.023	< 0.023	< 0.023	< 0.120	< 0.023	3.000
C3N	09/18/03	6.0	---	< 0.040	< 0.040	< 0.013	< 0.110	< 0.013	< 0.013	< 0.013	< 0.013	< 0.130	< 0.013	1.400
D1S	09/18/03	4.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.025
D1	09/18/03	8.0	---	< 0.360	19.000	< 0.120	< 0.480	2.200	3.800	< 0.120	< 0.600	< 0.600	< 0.120	12.000
D1N	09/18/03	4.0	---	< 1.900	22.000	< 0.630	< 0.510	7.800	9.600	< 0.630	16.000	< 0.630	< 0.630	18.000
D1W	09/24/03	4.0	---	< 0.082	< 0.082	< 0.340	3.500	< 0.027	< 0.027	< 0.027	< 0.027	< 0.340	< 0.027	7.000
E1S	09/18/03	4.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	< 0.012	0.048	< 0.012	< 0.012	< 0.012	0.026
E1	09/18/03	8.0	---	< 0.041	< 0.041	< 0.014	< 0.011	0.053	0.061	< 0.014	< 0.014	0.069	< 0.014	< 0.027
E1N	09/18/03	4.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.025
E2S	09/18/03	4.0	---	< 0.036	< 0.036	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.024
E2	09/18/03	8.0	---	< 0.040	< 0.040	< 0.013	< 0.011	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
E2N	09/18/03	4.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.024
F1S	09/23/04	4.0	---	< 0.039	< 0.039	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS											
ID	Date Collected	Sample Depth ft bgs	2,4-Dimethylphenol mg/kg	Acenaphthene mg/kg	Acenaphylthene mg/kg	Anthracene mg/kg	Benzo(a)anthracene mg/kg	Benzo(a)pyrene mg/kg	Benzo(b)fluoranthene mg/kg	Benzo(g,h,i)perylene mg/kg	Benzo(k)fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h)anthracene mg/kg	Fluoranthene mg/kg
F1	09/23/04	8.0	---	< 0.041	< 0.041	< 0.014	< 0.011	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.027
F1N	09/23/04	4.0	---	< 0.041	< 0.041	< 0.014	< 0.011	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.027
F2S	09/23/04	4.0	---	< 0.037	< 0.037	< 0.012	< 0.010	0.024	< 0.025	< 0.012	< 0.012	0.055	< 0.012	0.027
F2	09/23/04	8.0	---	< 0.040	0.140	< 0.013	< 0.011	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	0.029
F2N	09/23/04	4.0	---	0.130	0.070	< 0.022	< 0.017	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	0.070
F3S	09/23/04	4.0	---	< 0.035	< 0.035	< 0.012	< 0.009	< 0.012	0.042	< 0.012	< 0.012	0.098	< 0.012	0.190
F3	09/23/04	8.0	---	< 0.200	< 0.200	< 0.130	< 0.100	0.180	1.100	< 0.066	< 0.066	< 0.130	< 0.066	19.000
F3N	09/23/04	4.0	---	< 0.720	< 0.720	< 0.240	< 0.190	< 0.240	< 0.240	< 0.240	< 0.240	2.000	< 0.240	6.100
F4S	09/23/04	4.0	---	< 0.035	< 0.035	< 0.012	< 0.009	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.023
F4	09/23/04	8.0	---	< 0.054	< 0.054	< 0.360	< 0.290	< 0.180	5.000	< 0.180	< 0.180	< 0.360	< 0.180	47.000
F4N	09/23/04	4.0	---	< 0.068	< 0.068	< 0.230	0.420	< 0.230	< 0.400	< 0.230	< 0.230	1.500	< 0.230	7.600
F5S	09/23/04	4.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.024
F5	09/23/04	8.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	0.029
F5N	09/23/04	4.0	---	< 0.066	< 0.066	< 0.022	< 0.018	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.044
G1S	09/24/03	4.0	---	< 0.040	< 0.040	< 0.013	< 0.011	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.026
G1	09/24/03	8.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.042
G1E	09/24/03	4.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.025
G1N	09/24/03	4.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.025
G2S	09/24/03	4.0	---	< 0.170	1.700	< 1.400	2.800	1.500	2.100	< 0.056	< 1.400	< 1.400	< 0.056	12.000
G2	09/24/03	8.0	---	< 0.041	4.100	< 0.350	< 0.280	< 0.014	< 0.014	< 0.014	< 0.014	< 0.350	< 0.014	5.900
G2N	09/24/03	4.0	---	< 0.370	7.700	< 0.120	1.900	0.280	0.410	< 0.120	< 0.120	1.900	< 0.120	4.300
N. WALL	11/21/03	7.0	---	< 0.037	< 0.037	< 0.062	0.920	< 0.012	< 0.012	< 0.012	< 0.012	1.200	< 0.012	3.000
S. WALL	11/21/03	3.0	---	< 0.036	< 0.036	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.024
E. WALL	11/21/03	4.0	---	< 0.036	< 0.036	< 0.012	0.079	0.024	< 0.012	0.020	< 0.012	0.110	< 0.012	0.320

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS											
ID	Date Collected	Sample Depth ft bgs	2,4-Dimethylphenol mg/kg	Acenaphthene mg/kg	Acenaphylthene mg/kg	Anthracene mg/kg	Benzo(a)anthracene mg/kg	Benzo(a)pyrene mg/kg	Benzo(b)fluoranthene mg/kg	Benzo(g,h,i)perylene mg/kg	Benzo(k)fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h)anthracene mg/kg	Fluoranthene mg/kg
W. WALL	11/21/03	4.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.025
N. BOTTOM	11/21/03	12.0	---	< 0.038	0.310	< 0.064	1.900	0.060	0.920	< 0.013	< 0.013	2.300	< 0.021	4.300
S. BOTTOM	11/21/03	6.0	---	< 0.034	< 0.034	< 0.011	0.330	< 0.011	0.070	< 0.011	0.036	0.220	< 0.011	0.280
*SB-1	08/06/03	14.0	---	< 0.190	< 0.190	< 1.600	< 1.300	0.700	< 1.600	< 0.064	< 0.064	< 1.600	0.450	60.000
*SB-2	08/06/03	14.0	---	< 0.370	13.000	< 0.120	< 0.100	0.600	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	10.000
*SB-3	08/06/03	14.0	---	< 0.920	16.000	< 0.310	< 0.250	0.420	< 0.310	< 0.310	< 0.310	< 0.310	< 0.310	15.000
*SW-1	08/05/03	12.0	---	< 0.970	< 0.970	< 0.320	< 0.260	< 0.320	< 0.320	< 0.320	< 0.320	< 0.320	< 0.320	20.000
*SW-2	08/05/03	7.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.029
*SW-3	08/05/03	12.0	---	< 0.040	< 0.040	< 0.013	< 0.011	0.067	0.072	< 0.013	< 0.013	< 0.013	< 0.013	0.430
*SW-4	08/05/03	7.0	---	< 0.038	< 0.038	< 0.013	< 0.010	0.100	0.160	0.095	< 0.013	< 0.013	< 0.013	0.280
*SW-5	08/05/03	12.0	---	< 0.190	< 0.190	< 0.630	< 0.500	0.310	0.900	0.120	< 0.063	< 0.630	< 0.063	26.000
*SW-6	08/05/03	7.0	---	< 1.000	< 1.000	< 0.340	< 0.270	< 0.340	< 0.340	< 0.340	< 0.340	< 0.340	< 0.340	12.000
*SW-7	08/05/03	12.0	---	< 0.037	< 0.037	< 0.012	< 0.010	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.025
*SW-8	08/05/03	7.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.025
*SW-9	08/05/03	12.0	---	< 0.038	< 0.038	< 0.013	< 0.010	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	0.310
*SW-10	08/05/03	7.0	---	< 0.041	< 0.041	< 0.014	< 0.011	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.027
*SW-11	08/05/03	12.0	---	< 0.930	< 0.930	< 0.310	< 0.250	0.980	< 0.310	< 0.310	< 0.310	< 0.310	< 0.310	62.000
*SW-12	08/05/03	7.0	---	< 0.035	< 0.035	< 0.012	< 0.009	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.023
*A1S	09/18/03	8.0	---	< 0.940	110.000	30.000	< 1.300	3.300	4.900	< 0.310	6.100	37.000	< 0.310	110.000
*A2S	09/18/03	8.0	---	< 0.920	< 0.920	< 0.310	< 0.250	0.950	2.500	< 0.310	< 0.310	< 0.310	< 0.310	31.000
*A3S	09/18/03	8.0	---	< 0.037	< 0.037	< 0.012	< 0.010	0.096	0.180	0.036	< 0.012	< 0.012	< 0.012	0.034

NOTES:
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
J = Analyte detected below reporting limits
NA = Not Applicable
ND = Non-Detect
--- = Compound not analyzed
* Sample location subsequently excavated

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS										
ID	Date Collected	Sample Depth ft bgs	Fluorene mg/kg	Indeno(1,2,3-cd)pyrene mg/kg	m,p-Cresol mg/kg	Naphthalene mg/kg	o-Cresol mg/kg	Phenanthrene mg/kg	Pyrene mg/kg	Phenol mg/kg	Total SVOCs mg/kg	COMMENTS	PIPELINE CORRIDOR
MP-29	07/12/04	13.0	< 0.471	< 0.471	< 0.673	< 0.471	< 0.673	< 0.471	< 0.673	< 0.471	ND	Clay above Rand below N.Olive within FPH plume	NA
MP-31	07/20/04	19.0	< 0.475	< 0.475	< 0.678	< 0.475	< 0.678	< 0.475	< 0.678	< 0.475	ND	Clay above Main Below N.Olive outside FPH plume	NA
MP-34	07/19/04	27.5	< 0.947	< 0.947	< 1.350	< 0.947	< 1.350	< 0.947	< 1.350	< 0.947	ND	Clay above Main below Rand within FPH plume	NA
MP-47	07/13/04	10.0	< 0.452	< 0.452	< 0.645	< 0.452	< 0.645	< 0.452	< 0.645	< 0.452	ND	N.Olive within FPH plume	N. Olive
MP-47	07/13/04	20.0	< 0.483	< 0.483	< 0.690	1.950	< 0.690	< 0.483	< 0.690	< 0.483	1.950	Rand within FPH plume	N. Olive
MP-47	07/13/04	27.0	< 0.469	< 0.469	< 0.670	0.967	< 0.670	< 0.469	< 0.670	< 0.469	0.967	Clay above Main below Rand within FPH plume	N. Olive
MP-55	07/16/04	12.0	< 0.450	< 0.450	< 0.643	< 0.450	< 0.643	< 0.450	< 0.643	< 0.450	ND	N. Olive within FPH plume	Elm/N. Olive
MP-55	07/16/04	20.0	0.240 J	< 0.444	< 0.635	8.620	< 0.635	0.380 J	< 0.635	< 0.444	9.400	Rand within FPH plume	Elm/N. Olive
HMW-38	08/03/04	26.0-28.0	< 0.454	< 0.454	< 0.649	0.775	< 0.649	< 0.454	< 0.649	0.220 J	1.395	Clay above Main below N. Olive outside FPH plume	Rand
HMW-44	08/05/04	16.0-18.0	< 0.478	< 0.478	0.180 J	0.792	0.220 J	< 0.478	< 0.683	0.370 J	1.562	Clay above Rand Below N.Olive within FPH plume	N. Olive
HMW-44	08/05/04	20.0-22.0	< 11.000	< 2.200	< 15.700	52.700	< 15.700	< 11.000	< 15.700	< 11.000	52.700	Rand within FPH plume	N. Olive
HMW-44	08/05/04	26.0-28.0	< 0.478	< 0.478	< 0.682	0.767	< 0.682	< 0.478	< 0.682	0.230 J	0.997	Clay above Main below Rand within FPH plume	N. Olive
HMW-45	08/04/04	22.0-24.0	< 0.451	< 0.451	< 0.644	< 0.451	< 0.644	< 0.451	< 0.644	< 0.451	ND	Clay above Rand below N. Olive within FPH plume	NA
HMW-45	08/04/04	28.0-30.0	< 0.482	< 0.482	< 0.688	< 0.482	< 0.688	< 0.482	< 0.688	< 0.482	ND	Clay above Main below Rand within FPH plume	NA
HMW-46	08/02/04	12.0-14.0	< 0.440	< 0.440	< 0.628	< 0.440	< 0.628	< 0.440	< 0.628	< 0.440	ND	N.Olive within FPH plume	Rand
HMW-47	08/02/04	14.0-16.0	< 0.453	< 0.453	< 0.647	< 0.453	< 0.647	< 0.453	< 0.647	< 0.453	ND	N. Olive within FPH plume	Rand
HMW-48	08/02/04	14.0-16.0	< 0.465	< 0.465	< 0.665	< 0.465	< 0.665	< 0.465	< 0.665	< 0.465	ND	Clay above Rand below N. Olive within FPH plume	N. Olive
HMW-48	08/02/04	22.0-24.0	0.180 J	< 0.432	< 0.617	3.580	< 0.617	0.420 J	< 0.617	0.220 J	4.600	Rand within FPH plume	N. Olive
HMW-51	08/03/04	10.0-12.0	< 0.423	< 0.423	< 0.604	< 0.423	< 0.604	< 0.423	< 0.604	< 0.423	ND	N.Olive outside FPH plume	NA
HSVE-12	07/29/04	20.0-22.0	< 0.422	< 0.422	< 6.030	51.100	< 6.030	0.513	< 0.603	< 4.220	51.843	Clay within FPH plume	NA
A1	09/18/03	14.0	0.600	0.026	---	0.320	---	1.100	0.290	---	3.193	N. Olive within FPH plume	Elm St.
A1N	09/18/03	8.0	0.330	0.019	---	< 0.052	---	0.630	0.190	---	1.987	Fill/Clay above N. Olive within FPH plume	Elm St.
A2	09/18/03	14.0	7.300	0.300	---	0.700	---	16.000	5.600	---	52.460	N. Olive within FPH plume	Elm St.
A2N	09/18/03	8.0	< 0.012	< 0.012	---	< 0.047	---	0.012	0.012	---	0.024	Fill/Clay above N. Olive within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS										
ID	Date Collected	Sample Depth ft bgs	Fluorene mg/kg	Indeno(1,2,3-cd)pyrene mg/kg	m,p-Cresol mg/kg	Naphthalene mg/kg	o-Cresol mg/kg	Phenanthrene mg/kg	Pyrene mg/kg	Phenol mg/kg	Total SVOCs mg/kg	COMMENTS	PIPELINE CORRIDOR
A3	09/18/03	14.0	0.210	< 0.025	---	< 0.100	---	0.500	0.370	---	1.940	N. Olive within FPH plume	Elm St.
A3N	09/18/03	8.0	< 0.012	< 0.012	---	< 0.048	---	0.012	0.012	---	0.024	Fill/Clay above N. Olive within FPH plume	Elm St.
A4S	09/18/03	8.0	0.780	1.600	---	0.260	---	3.900	2.400	---	24.140	Fill/Clay above N. Olive within FPH plume	Elm St.
A4	09/18/03	10.0	< 0.013	< 0.013	---	< 0.051	---	0.013	0.013	---	0.026	N. Olive within FPH plume	Elm St.
A4N	09/18/03	8.0	< 0.026	< 0.026	---	< 0.100	---	0.026	0.053	---	0.437	Fill/Clay above N. Olive within FPH plume	Elm St.
A5S	09/18/03	8.0	< 0.013	< 0.013	---	< 0.051	---	0.039	0.051	---	0.294	Fill/Clay above N. Olive within FPH plume	Elm St.
A5	09/18/03	10.0	< 0.013	< 0.013	---	< 0.051	---	< 0.013	< 0.013	---	ND	N. Olive within FPH plume	Elm St.
A5N	09/18/03	8.0	< 0.013	< 0.013	---	< 0.052	---	< 0.013	< 0.013	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
A6S	09/18/03	8.0	< 0.056	< 0.024	---	< 0.098	---	0.340	0.370	---	1.770	Fill/Clay above N. Olive within FPH plume	Elm St.
A6	09/18/03	10.0	22.000	0.730	---	35.000	---	120.000	25.000	---	330.830	N. Olive within FPH plume	Elm St.
A6N	09/18/03	8.0	5.400	0.720	---	1.700	---	12.000	< 0.630	---	37.620	Fill/Clay above N. Olive within FPH plume	Elm St.
A7S	09/18/03	8.0	< 0.013	0.038	---	< 0.054	---	< 0.013	0.340	---	0.587	Fill/Clay above N. Olive within FPH plume	Elm St.
A7	09/18/03	10.0	< 0.012	0.016	---	< 0.050	---	< 0.012	0.017	---	0.116	N. Olive within FPH plume	Elm St.
A7N	09/18/03	8.0	< 0.013	< 0.013	---	< 0.051	---	< 0.013	< 0.013	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
A8S	09/18/03	8.0	< 0.013	< 0.013	---	< 0.051	---	< 0.013	< 0.013	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
A8	09/18/03	10.0	< 0.042	< 0.042	---	< 0.170	---	< 0.042	< 0.042	---	ND	N. Olive within FPH plume	Elm St.
A8N	09/18/03	8.0	< 0.013	< 0.013	---	< 0.052	---	< 0.013	< 0.013	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
A9S	09/18/03	8.0	< 0.013	< 0.013	---	< 0.053	---	< 0.013	< 0.013	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
A9	09/18/03	10.0	< 0.013	< 0.013	---	< 0.053	---	< 0.013	< 0.013	---	ND	N. Olive within FPH plume	Elm St.
A9N	09/18/03	8.0	< 0.013	< 0.013	---	< 0.051	---	< 0.013	< 0.013	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
A10	10/08/03	14.0	20.000	0.420	---	46.000	---	28.000	9.900	---	137.290	N. Olive within FPH plume	Elm St.
A10S	10/08/03	8.0	10.000	< 0.059	---	6.500	---	14.000	4.600	---	78.230	Fill/Clay above N. Olive within FPH plume	Elm St.
A10E	10/08/03	8.0	0.062	< 0.012	---	0.940	---	0.120	0.081	---	2.227	Fill/Clay above N. Olive within FPH plume	Elm St.
A11	10/07/03	14.0	< 0.650	< 0.650	---	39.000	---	63.000	15.000	---	219.000	N. Olive within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS										
ID	Date Collected	Sample Depth ft bgs	Fluorene mg/kg	Indeno(1,2,3-cd)pyrene mg/kg	m,p-Cresol mg/kg	Naphthalene mg/kg	o-Cresol mg/kg	Phenanthrene mg/kg	Pyrene mg/kg	Phenol mg/kg	Total SVOCs mg/kg	COMMENTS	PIPELINE CORRIDOR
A11S	10/07/03	8.0	1.700	0.065	---	0.400	---	4.900	< 0.620	---	12.825	Fill/Clay above N. Olive within FPH plume	Elm St.
A12	10/07/03	14.0	25.000	< 0.660	---	89.000	---	35.000	8.400	---	256.590	N. Olive within FPH plume	Elm St.
A12S	10/07/03	8.0	< 0.013	< 0.013	---	< 0.051	---	0.026	< 0.013	---	0.072	Fill/Clay above N. Olive within FPH plume	Elm St.
A12W	10/07/03	8.0	< 0.013	< 0.013	---	< 0.052	---	0.033	< 0.013	---	0.109	Fill/Clay above N. Olive within FPH plume	Elm St.
C1S	09/18/03	6.0	< 0.012	< 0.012	---	< 0.047	---	< 0.012	< 0.012	---	ND	Fill/Clay above Rand within FPH plume	Elm St.
C1	09/18/03	12.0	18.000	< 0.057	---	3.400	---	32.000	12.000	---	98.400	Fill/Clay above Rand within FPH plume	Elm St.
C1N	09/18/03	6.0	0.020	< 0.012	---	< 0.050	---	0.068	0.048	---	0.319	Fill/Clay above Rand within FPH plume	Elm St.
C2S	09/18/03	6.0	0.041	< 0.023	---	< 0.090	---	0.190	0.190	---	1.831	Fill/Clay above Rand within FPH plume	Elm St.
C2	09/18/03	12.0	< 0.024	< 0.024	---	< 0.098	---	< 0.024	0.170	---	0.873	Fill/Clay above Rand within FPH plume	Elm St.
C2N	09/18/03	6.0	< 0.012	< 0.012	---	< 0.050	---	< 0.012	0.035	---	0.097	Fill/Clay above Rand within FPH plume	Elm St.
C3S	09/18/03	6.0	< 0.013	< 0.037	---	< 0.050	---	0.020	0.065	---	0.357	Fill/Clay above Rand within FPH plume	Elm St.
C3	09/18/03	12.0	0.470	< 0.023	---	0.830	---	1.500	2.000	---	8.210	Fill/Clay above Rand within FPH plume	Elm St.
C3N	09/18/03	6.0	0.120	< 0.013	---	< 0.053	---	0.530	0.570	---	2.620	Fill/Clay above Rand within FPH plume	Elm St.
D1S	09/18/03	4.0	< 0.012	< 0.012	---	< 0.050	---	< 0.012	< 0.012	---	ND	Fill/Clay above Main outside FPH plume	Elm St.
D1	09/18/03	8.0	8.800	< 0.120	---	2.100	---	16.000	4.500	---	68.400	Fill/Clay above Main outside FPH plume	Elm St.
D1N	09/18/03	4.0	9.300	4.100	---	< 2.500	---	14.000	14.000	---	114.800	Fill/Clay above Main outside FPH plume	Elm St.
D1W	09/24/03	4.0	4.600	< 0.027	---	< 0.110	---	6.600	< 0.340	---	21.700	Fill/Clay above Main outside FPH plume	Elm St.
E1S	09/18/03	4.0	< 0.012	< 0.012	---	< 0.050	---	0.028	0.026	---	0.128	Fill/Clay above Main within FPH plume	Elm St.
E1	09/18/03	8.0	< 0.014	< 0.014	---	< 0.055	---	< 0.014	0.031	---	0.214	Fill/Clay above Main within FPH plume	Elm St.
E1N	09/18/03	4.0	< 0.013	< 0.013	---	< 0.050	---	< 0.013	< 0.013	---	ND	Fill/Clay above Main within FPH plume	Elm St.
E2S	09/18/03	4.0	< 0.012	< 0.012	---	< 0.048	---	< 0.012	< 0.012	---	ND	Fill/Clay above Main within FPH plume	Elm St.
E2	09/18/03	8.0	< 0.013	< 0.013	---	< 0.053	---	< 0.013	< 0.013	---	ND	Fill/Clay above Main within FPH plume	Elm St.
E2N	09/18/03	4.0	< 0.012	< 0.012	---	< 0.049	---	< 0.012	< 0.012	---	ND	Fill/Clay above Main within FPH plume	Elm St.
F1S	09/23/04	4.0	< 0.013	< 0.013	---	< 0.052	---	< 0.013	< 0.013	---	ND	Fill/Clay above Main within FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS										
ID	Date Collected	Sample Depth ft bgs	Fluorene mg/kg	Indeno(1,2,3-cd)pyrene mg/kg	m,p-Cresol mg/kg	Naphthalene mg/kg	o-Cresol mg/kg	Phenanthrene mg/kg	Pyrene mg/kg	Phenol mg/kg	Total SVOCs mg/kg	COMMENTS	PIPELINE CORRIDOR
F1	09/23/04	8.0	< 0.014	< 0.014	---	< 0.055	---	< 0.014	< 0.014	---	ND	Fill/Clay above Main within FPH plume	Elm St.
F1N	09/23/04	4.0	< 0.014	< 0.014	---	< 0.054	---	< 0.014	0.017	---	0.017	Fill/Clay above Main within FPH plume	Elm St.
F2S	09/23/04	4.0	< 0.012	0.019	---	< 0.050	---	< 0.012	0.027	---	0.152	Fill/Clay above Main within FPH plume	Elm St.
F2	09/23/04	8.0	0.023	< 0.013	---	0.470	---	0.059	< 0.013	---	0.721	Fill/Clay above Main within FPH plume	Elm St.
F2N	09/23/04	4.0	< 0.022	< 0.022	---	< 0.087	---	0.060	< 0.022	---	0.330	Fill/Clay above Main within FPH plume	Elm St.
F3S	09/23/04	4.0	0.042	< 0.012	---	< 0.046	---	0.210	0.084	---	0.666	Fill/Clay above Main within FPH plume	Elm St.
F3	09/23/04	8.0	4.400	< 0.066	---	13.000	---	35.000	4.200	---	76.880	Fill/Clay above Main within FPH plume	Elm St.
F3N	09/23/04	4.0	0.980	< 0.240	---	14.000	---	8.800	< 0.240	---	31.880	Fill/Clay above Main within FPH plume	Elm St.
F4S	09/23/04	4.0	< 0.012	< 0.012	---	< 0.047	---	< 0.012	< 0.012	---	ND	Fill/Clay above Main within FPH plume	Elm St.
F4	09/23/04	8.0	8.800	< 0.180	---	29.000	---	67.000	8.700	---	165.500	Fill/Clay above Main within FPH plume	Elm St.
F4N	09/23/04	4.0	7.900	< 0.230	---	39.000	---	10.000	12.000	---	78.420	Fill/Clay above Main within FPH plume	Elm St.
F5S	09/23/04	4.0	< 0.012	< 0.012	---	< 0.049	---	< 0.012	< 0.012	---	ND	Fill/Clay above Main within FPH plume	Elm St.
F5	09/23/04	8.0	< 0.013	< 0.013	---	< 0.051	---	< 0.022	< 0.019	---	0.029	Fill/Clay above Main within FPH plume	Elm St.
F5N	09/23/04	4.0	< 0.022	< 0.022	---	< 0.088	---	< 0.022	< 0.022	---	ND	Fill/Clay above Main within FPH plume	Elm St.
G1S	09/24/03	4.0	< 0.013	< 0.013	---	< 0.053	---	< 0.013	< 0.013	---	ND	Fill/Clay above Main within FPH plume	Elm St.
G1	09/24/03	8.0	< 0.012	< 0.012	---	< 0.050	---	0.480	< 0.012	---	0.522	Fill/Clay above Main within FPH plume	Elm St.
G1E	09/24/03	4.0	< 0.013	< 0.013	---	< 0.051	---	< 0.013	< 0.013	---	ND	Fill/Clay above Main within FPH plume	Elm St.
G1N	09/24/03	4.0	< 0.013	< 0.013	---	< 0.051	---	< 0.013	< 0.013	---	ND	Fill/Clay above Main within FPH plume	Elm St.
G2S	09/24/03	4.0	8.600	< 0.056	---	3.700	---	13.000	< 1.400	---	45.400	Fill/Clay above Main within FPH plume	Elm St.
G2	09/24/03	8.0	6.100	< 0.014	---	2.000	---	7.100	9.500	---	34.700	Fill/Clay above Main within FPH plume	Elm St.
G2N	09/24/03	4.0	8.100	< 0.120	---	6.900	---	7.300	2.000	---	38.890	Fill/Clay above Main within FPH plume	Elm St.
N. WALL	11/21/03	7.0	0.790	< 0.012	---	< 0.049	---	2.800	0.660	---	8.170	Fill/Clay above Main outside FPH plume	Elm St.
S. WALL	11/21/03	3.0	< 0.012	< 0.012	---	< 0.048	---	< 0.012	< 0.012	---	ND	Fill/Clay above Main outside FPH plume	Elm St.
E. WALL	11/21/03	4.0	0.060	< 0.012	---	< 0.048	---	0.290	0.080	---	0.873	Fill/Clay above Main outside FPH plume	Elm St.

TABLE 4-1
Soil Chemical Analysis Results - SVOCs
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			COMPOUNDS										
ID	Date Collected	Sample Depth ft bgs	Fluorene mg/kg	Indeno(1,2,3-cd)pyrene mg/kg	m,p-Cresol mg/kg	Naphthalene mg/kg	o-Cresol mg/kg	Phenanthrene mg/kg	Pyrene mg/kg	Phenol mg/kg	Total SVOCs mg/kg	COMMENTS	PIPELINE CORRIDOR
W. WALL	11/21/03	4.0	< 0.013	< 0.013	---	< 0.051	---	< 0.013	< 0.013	---	ND	Fill/Clay above Main outside FPH plume	Elm St.
N. BOTTOM	11/21/03	12.0	1.500	< 0.013	---	< 0.051	---	4.700	1.300	---	14.680	Fill/Clay above Main outside FPH plume	Elm St.
S. BOTTOM	11/21/03	6.0	0.068	< 0.011	---	< 0.045	---	1.300	0.120	---	2.204	Fill/Clay above Main outside FPH plume	Elm St.
*SB-1	08/06/03	14.0	9.700	< 0.064	---	17.000	---	54.000	13.000	---	154.850	N. Olive within FPH plume	Elm St.
*SB-2	08/06/03	14.0	5.100	< 0.120	---	46.000	---	14.000	2.100	---	90.800	N. Olive within FPH plume	Elm St.
*SB-3	08/06/03	14.0	8.700	< 0.310	---	56.000	---	17.000	4.900	---	118.020	N. Olive within FPH plume	Elm St.
*SW-1	08/05/03	12.0	4.400	< 0.320	---	12.000	---	22.000	3.300	---	61.700	N. Olive within FPH plume	Elm St.
*SW-2	08/05/03	7.0	< 0.012	< 0.012	---	< 0.049	---	0.021	< 0.012	---	0.050	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-3	08/05/03	12.0	0.065	< 0.013	---	0.130	---	0.370	0.140	---	1.274	N. Olive within FPH plume	Elm St.
*SW-4	08/05/03	7.0	0.028	0.034	---	< 0.051	---	0.200	0.150	---	1.047	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-5	08/05/03	12.0	5.700	< 0.063	---	10.000	---	28.000	5.400	---	76.430	N. Olive within FPH plume	Elm St.
*SW-6	08/05/03	7.0	4.400	< 0.340	---	7.200	---	12.000	2.600	---	38.200	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-7	08/05/03	12.0	< 0.012	< 0.012	---	< 0.050	---	< 0.012	0.110	---	0.110	N. Olive within FPH plume	Elm St.
*SW-8	08/05/03	7.0	< 0.013	< 0.013	---	< 0.050	---	< 0.013	< 0.013	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-9	08/05/03	12.0	0.160	< 0.013	---	1.100	---	0.420	0.095	---	2.085	N. Olive within FPH plume	Elm St.
*SW-10	08/05/03	7.0	< 0.014	< 0.014	---	< 0.055	---	< 0.014	< 0.014	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
*SW-11	08/05/03	12.0	12.000	< 0.310	---	33.000	---	61.000	9.400	---	178.380	N. Olive within FPH plume	Elm St.
*SW-12	08/05/03	7.0	< 0.012	< 0.012	---	< 0.046	---	< 0.012	< 0.012	---	ND	Fill/Clay above N. Olive within FPH plume	Elm St.
*A1S	09/18/03	8.0	120.000	0.310	---	60.000	---	130.000	31.000	---	642.610	Fill/Clay above N. Olive within FPH plume	Elm St.
*A2S	09/18/03	8.0	5.400	0.310	---	< 1.200	---	18.000	7.800	---	65.960	Fill/Clay above N. Olive within FPH plume	Elm St.
*A3S	09/18/03	8.0	< 0.012	0.029	---	< 0.049	---	0.022	0.032	---	0.429	Fill/Clay above N. Olive within FPH plume	Elm St.

NOTES:
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ft bgs = feet below ground surface
J = Analyte detected below reporting limits
NA = Not Applicable
ND = Non-Detect
--- = Compound not analyzed
* *Sample location subsequently excavated*

TABLE 4-2
Soil Geotechnical Analysis Results - North Olive Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS								DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	Permeability (K) (cm/sec)	PERCENT COMPOSITION				
							Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
MP-29	07/28/04	10.0-12.0	29.1	0.022	--	--	0	40	46	14	Gray Sandy Lean SILT, ML
MP-31	07/29/04	14.0-16.0	26.4	0.025	--	--	0	64	25	11	Brown Sandy Lean SILT, ML
MP-34	07/28/04	14.0-16.0	32.2	0.036	--	--	0	3	66	32	Gray-Brown Lean CLAY, Trace SAND, CL
MP-47	07/16/04	8.0-10.0	30.5	0.022	--	--	0	3	76	22	Brown Lean SILT, Trace SAND, ML
		10.0-12.0	34.5	0.022	--	--	0	2	77	20	Brown Lean SILT, Trace SAND, ML
MP-48	08/02/04	16.0-18.0	27.6	0.042	--	--	0	14	72	15	Gray-Brown Lean SILT, Trace SAND, ML
MP-55	07/20/04	10.0-12.0	28.8	0.017	--	--	0	5	83	12	Gray Lean SILT, Trace SAND, ML
HMW-35	06/15/04	12.0-14.0	36.2	--	--	--	0	7	71	22	Lean SILT, Trace SAND, ML
HMW-38	08/17/04	14.0-16.0	29.1	0.047	--	--	0	5	64	31	Gray-Brown Lean CLAY, Trace SAND, CL
HMW-41	08/19/04	15.0-17.0	24.8	0.034	--	--	0	4	82	15	Gray-Brown Lean SILT, Trace SAND, ML
HMW-43	08/23/04	12.0-14.0	31.1	0.038	--	--	0	6	81	14	Gray-Brown Lean SILT, Trace SAND, ML
HMW-44	08/25/04	10.0-12.0	22.3	0.027	--	--	0	10	72	18	Gray-Brown Lean SILT, Trace SAND, ML
HMW-45	08/20/04	14.0-15.0	24.2	0.031	49.4	1.60E-05	0	7	83	10	Gray-Brown Lean SILT, With SAND, ML
HMW-46	08/19/04	12.5-13.0	24.3	0.019	48.3	2.90E-04	0	11	72	17	Gray Lean SILT, Trace SAND, ML
	08/18/04	14.0-16.0	33.1	0.036	--	--	0	14	66	20	Gray-Brown Lean SILT, Trace SAND, ML
HMW-47	08/19/04	17.0-17.5	36.8	0.050	50.0	1.40E-06	0	2	77	21	Gray Lean SILT, Trace SAND, ML
HMW-48	08/17/04	12.0-14.0	35.2	0.069	--	--	0	3	44	53	Gray-Brown Fat CLAY, Trace SAND, CH
HMW-49	08/24/04	11.0-13.0	32.2	0.023	--	--	0	9	71	20	Gray Lean SILT, Trace SAND, ML
HMW-51	08/23/04	10.0-12.0	15.4	0.013	--	--	0	10	80	10	Brown Lean SILT, Trace SAND, ML
PMP-18	07/23/04	13.5	31.5	--	48.4	--	0	6	77	17	Dark gray-brown Clayey SILT, ML-CL
VMP-24M	07/20/04	16.0-18.0	36.5	--	50.5	--	0	3	31	66	Dark gray SILT, with sand, ML
Average			29.6	0.032	49.3	1.02E-04	0	11	67	22	

NOTES:
-- = Not Analyzed
ft bgs = feet below ground surface
Grain size results that were <0.5% are reported as 0% and may be classified as "trace" amounts in the soil description.

TABLE 4-2
Soil Geotechnical Analysis Results - Rand Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS							DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	PERCENT COMPOSITION				
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
MP-29	07/28/04	18.0-20.0	30.1	0.021	--	0	18	63	20	Gray Lean SILT with SAND, ML (shallow)
MP-29	07/28/04	22.0-24.0	32.5	0.030	--	0	9	66	25	Gray Lean SILT, Trace SAND, ML (deep)
MP-34	07/28/04	20.0-22.0	26.3	0.023	--	0	9	72	19	Gray-Brown Lean SILT, Trace SAND, ML
MP-47	07/16/04	20.0-22.0	37.7	0.033	--	0	6	63	32	Gray-Brown Lean SILT, Trace SAND, ML
MP-53	07/21/04	22.0-24.0	35.3	0.043	--	0	8	78	15	Gray-Brown Lean SILT, Trace Silt, ML
MP-55	07/20/04	20.0-22.0	35.9	0.023	--	0	6	78	16	Gray Lean SILT, Trace SAND, ML
HMW-35	06/15/04	21.0-22.0	32.0	--	--	0	23	63	13	Lean SILT, With SAND, ML
HMW-39	08/30/04	18.0-20.0	30.2	0.028	--	0	20	66	14	Brown Lean SILT, With SAND, ML - N. Olive/Rand
HMW-39	08/30/04	26.0-28.0	34.0	0.048	--	0	38	48	14	Gray Sandy Lean SILT, ML - N. Olive/Rand
HMW-44	08/26/04	20.0-22.0	24.9	0.020	--	0	10	72	18	Brown Lean SILT, Trace SAND, ML
HMW-45	08/20/04	24.0-26.0	35.5	0.033	--	0	3	23	73	Gray-Brown Fat CLAY, Trace SAND, CH
HMW-48	08/17/04	24.0-26.0	29.2	0.037	--	0	13	68	19	Gray Lean SILT, Trace SAND, ML
HMW-50	08/24/04	19.0-21.0	34.1	0.022	--	0	13	69	18	Brown Lean SILT, Trace SAND, ML
VMP-15	09/02/04	11.0-13.0	14.2	--	52.1	0	25	64	11	Very dark gray CLAY, CH
VMP-15	09/02/04	24.0-26.0	44.4	--	56	0	0	15	85	Dark gray CLAY, CH
Average			31.8	0.030	54.1	0	13	61	26	

NOTES:
-- = Not Analyzed
ft bgs = feet below ground surface
Grain size results that were <0.5% are reported as 0% and may be classified as "trace" amounts in the soil description.

TABLE 4-2
Soil Geotechnical Analysis Results - Main Sand
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS							DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	PERCENT COMPOSITION				
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
MP-29	07/13/04	32.0-34.0	19.6	0.010	--	0	96	2	2	Brown fine SAND, Trace Silt, SP
MP-31	07/29/04	30.0-32.0	34.8	0.057	--	0	13	75	12	Gray Lean SILT, Trace SAND, ML
MP-34	07/28/04	34.0-36.0	18.8	0.019	--	4	93	1	2	Brown Fine SAND, Trace Gravel, SILT, SP
MP-42	07/13/04	32.0-34.0	20.6	0.003	--	0	95	3	2	Brown fine SAND, Trace SILT, SP
MP-47	07/16/04	30.0-32.0	21.1	0.010	--	0	95	2	3	Brown Fine SAND, Trace Gravel, SILT, SP
MP-48	08/02/04	24.0-26.0	13.1	0.036	--	0	38	53	9	Brown Sandy Lean SILT, ML (shallow)
MP-48	08/03/04	38.0-40.0	24.2	0.023	--	0	88	8	4	Gray Fine SAND with Silt, SP-SM
MP-53	07/21/04	36.0-38.0	19.2	0.017	--	4	88	4	4	Brown-Fine SAND, Trace Gravel, Silt, SP
MP-55	07/20/04	34.0-36.0	16.1	0.010	--	6	88	4	3	Brown Fine-Medium SAND, Trace Gravel, Silt, SP
MP-65	08/18/04	14.0-16.0	33.1	0.033	--	0	3	79	18	Gray-Brown Lean SILT, Trace SAND, ML (shallow)
MP-65	08/19/04	20.5-21.0	9.4	0.018	43.3	0	73	23	4	Brown Fine Silty SAND, SM (deep)
MP-66	08/20/04	12.0-14.0	26.5	0.022	--	0	9	75	16	Gray-Brown Lean SILT, Trace SAND, ML (shallow)
MP-66	08/20/04	22.0-22.5	24.3	0.024	--	0	16	72	12	Gray-Brown Lean SILT, Trace SAND, ML (shallow)
MP-67	08/19/04	23.0-23.5	8.9	0.020	44.5	0	92	4	4	Brown Fine SAND with Silt, SP-SM (deep)
HMW-35	06/15/04	32.0-34.0	21.5	--	--	0	85	7	7	Silty SAND, SM
HMW-39	08/30/04	34.5-35.0	30.7	0.033	54.4	0	91	6	3	Gray Fine SAND, With SILT, Trace Wood, SP-SM
HMW-41	08/19/04	22.0-24.0	28.4	0.030	--	0	30	61	9	Dark Gray Lean SILT, With SAND, ML (shallow)
HMW-41	08/19/04	35.0-35.5	22.9	0.022	36.4	0	77	18	4	Gray Fine Silty SAND, SM (deep)
HMW-42	08/18/04	24.5-25.0	14.2	0.018	39.3	0	76	20	4	Gray fine Silty SAND, Trace Gravel, SM (deep)
HMW-51	08/23/04	18.0-20.0	9.8	0.038	--	0	63	32	5	Brown Fine Silty SAND, SM (shallow)
HMW-51	08/23/04	29.0-29.5	22.6	0.014	43.8	0	93	5	2	Gray Fine SAND, With Silt, SP-SM (shallow)
HMW-52	08/25/04	14.0-16.0	32.0	0.049	--	0	9	51	40	Gray-Brown Fat CLAY, Trace SAND, CH (deep)
Average			21.4	0.024	43.6	1	64	28	8	

NOTES:
-- = Not Analyzed
ft bgs = feet below ground surface
Grain size results that were <0.5% are reported as 0% and may be classified as "trace" amounts in the soil description.

TABLE 4-2
Soil Geotechnical Analysis Results - EPA Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS							DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	PERCENT COMPOSITION				
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
HMW-48	08/17/04	36.0-38.0	41.5	0.088	--	0	36	51	14	Dark Gray Sandy Lean SILT, Trace Wood, ML
HMW-49	08/24/04	31.0-33.0	21.6	0.040	--	0	96	1	3	Brown Fine SAND, SILT, SP
HMW-50	08/25/04	38.5-39.0	24.8	0.036	41.7	0	73	15	12	Gray Fine Silty SAND, SM
Average			29.3	0.055	41.7	0	68	22	10	

NOTES:
-- = Not Analyzed
ft bgs = feet below ground surface
Grain size results that were <0.5% are reported as 0% and may be classified as "trace" amounts in the soil description.

TABLE 4-2
Soil Geotechnical Analysis Results - Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS							DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	PERCENT COMPOSITION				
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
MP-31	07/29/04	10.0-12.0	29.1	0.053	--	0	1	70	28	Gray-Brown Lean CLAY, Trace SAND, CL
										Clay Above N. Olive
MP-31	07/29/04	18.0-20.0	44.2	0.068	--	0	1	19	81	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main Below N. Olive
MP-34	07/28/04	10.0-12.0	34.1	0.043	--	0	0	45	55	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above N. Olive
MP-34	07/28/04	16.0-18.0	29.2	0.022	--	0	3	75	22	Gray-Brown Lean CLAY, Trace SAND, CL
										Clay Above Rand Below N. Olive
MP-34	07/28/04	26.0-28.0	27.2	0.023	--	0	4	52	45	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main Below Rand
MP-47	07/16/04	16.0-18.0	36.1	0.034	--	0	1	60	39	Gray-Brown Lean CLAY, Trace SAND, CL
										Clay Above Rand Below N. Olive
MP-47	07/16/04	24.0-26.0	40.3	0.042	--	0	4	27	69	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main Below Rand
MP-48	08/02/04	20.0-22.0	34.2	0.057	--	0	7	68	25	Gray-Brown Lean CLAY, Trace SAND, CL
										Clay Above Main Below N. Olive
MP-53	07/21/04	12.0-14.0	27.3	0.034	--	0	5	42	53	Gray Fat CLAY, Trace SAND, CH
										Clay Above Rand
MP-53	07/21/04	26.0-28.0	33.9	0.039	--	0	1	38	61	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main Below Rand
MP-55	07/20/04	17.0-19.0	33.1	0.030	--	0	8	59	33	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Rand Below N. Olive
MP-55	07/20/04	26.0-28.0	24.8	0.023	--	0	32	30	38	Gray-Brown Sandy Fat CLAY, CH
										Clay Above Main Below Rand
MP-65	08/18/04	8.0-10.0	28.6	0.045	--	0	4	26	70	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main
MP-66	08/23/04	6.0-8.0	28.7	0.048	--	0	2	33	66	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main
MP-67	08/19/04	8.0-10.0	20.8	0.018	--	0	41	48	11	Brown Sandy Lean, SILT, ML
										Fill

TABLE 4-2
Soil Geotechnical Analysis Results - Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS							DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	PERCENT COMPOSITION Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
MP-67	08/19/04	14.0-16.0	38.1	0.058	--	0	3	21	76	Gray Fat CLAY, Trace SAND, CH *Clay Above Main*
HMW-35	06/15/04	4.0-6.0	27.7	--	--	0	9	48	44	Dark Gray-Brown Fat CLAY, CH *Clay Above N. Olive*
HMW-35	06/15/04	15.0-17.0	33.8	--	--	0	0	58	42	Fat CLAY, Trace SAND, CH *Clay Above Rand Below N. Olive*
HMW-35	*06/15/04*	*25.0-27.0*	*36.5*	--	--	*0*	*0*	31	69	*Fat CLAY, Trace SAND, CH* *Clay Above Main Below Rand*
HMW-38	08/17/04	6.0-8.0	24.9	0.035	--	0	6	51	43	Gray-Brown Fat CLAY, Trace SAND, CH *Clay Above N. Olive*
HMW-38	08/17/04	30.0-32.0	37.7	0.053	--	0	4	27	70	Gray Fat CLAY, Trace SAND, CH *Clay Above Main*
HMW-39	08/30/04	6.0-8.0	34.0	0.065	--	0	0	36	64	Gray Fat CLAY, Trace SAND, CH *Fill*
HMW-39	08/30/04	8.0-10.0	24.5	0.050	--	0	22	48	30	Dark Brown Lean CLAY, With SAND, CL *Fill*
HMW-39	08/30/04	10.0-12.0	24.8	0.044	--	0	12	56	33	Dark Brown Lean CLAY, With SAND, CL *Clay Above N. Olive/Rand*
HMW-39	08/30/04	21.0-22.0	41.5	0.055	--	0	6	70	24	Gray Lean CLAY, Trace SAND, CL *Clay Seam in the N. Olive/Rand*
HMW-39	08/30/04	30.0-32.0	45.4	0.073	--	0	5	24	71	Gray Fat CLAY, Trace SAND, CH *Clay Above Main Below N. Olive/Rand*
HMW-40	08/23/04	8.0-10.0	32.5	0.048	--	1	8	51	40	Gray-Brown Lean CLAY, Trace Gravel, SAND, CL *Fill*
HMW-40	08/24/04	14.0-16.0	17.1	0.033	--	0	35	55	10	Gray-Brown Sandy Lean SILT, ML *Fill*
HMW-41	08/19/04	10.0-12.0	36.1	0.048	--	0	1	43	56	Gray-Brown fat CLAY, Trace SAND, CH *Clay Above N.Olive*
HMW-42	08/18/04	14.0-16.0	39.0	0.054	--	0	1	14	84	Gray-Brown Fat CLAY, Trace SAND, CH *Clay Above Main*

TABLE 4-2
Soil Geotechnical Analysis Results - Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS							DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	PERCENT COMPOSITION				
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
HMW-43	08/23/04	6.0-8.0	29.4	0.041	--	0	10	45	45	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above N. Olive
HMW-43	08/23/04	22.0-24.0	29.9	0.041	--	0	1	43	56	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main Below N. Olive
HMW-44	08/25/04	6.0-8.0	29.1	0.032	--	0	7	63	30	Gray-Brown Lean CLAY, Trace SAND, CL
										Clay Above N. Olive
HMW-44	08/26/04	16.0-18.0	40.7	0.057	--	0	1	20	79	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Rand Below N. Olive
HMW-44	08/26/04	26.0-28.0	38.9	0.051	--	0	2	22	76	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main Below Rand
HMW-45	08/20/04	8.0-10.0	28.2	0.033	--	0	4	61	34	Gray-Brown Lean CLAY, Trace SAND, CL
										Clay Above N. Olive
HMW-45	08/20/04	21.0-23.0	28.0	0.030	--	0	19	55	26	Gray Lean SILT, With SAND, ML
										Clay Above Rand Below N. Olive
HMW-45	08/20/04	28.0-30.0	37.6	0.044	--	0	26	23	51	Gray-Brown Fat CLAY, Trace SAND, CL
										Clay Above Main Below Rand
HMW-46	08/18/04	8.0-10.0	26.3	0.033	--	0	4	67	29	Gray-Brown Lean CLAY, Trace SAND, CL
										Clay Above N. Olive
HMW-46	08/18/04	22.0-24.0	35.2	0.048	--	0	3	46	51	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main Below N. Olive
HMW-46	08/18/04	28.0-30.0	38.2	0.053	--	0	5	25	70	Gray Fat CLAY, Trace SAND, CH
										Clay Above Main Below N. Olive
HMW-47	08/19/04	10.0-12.0	31.1	0.040	--	0	3	39	58	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above N. Olive
HMW-47	08/19/04	22.0-24.0	35.2	0.048	--	0	1	31	69	Gray Fat CLAY, Trace SAND, CH
										Clay Above EPA Below N. Olive
HMW-48	08/17/04	6.0-8.0	28.9	0.038	--	0	5	55	40	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above N. Olive
HMW-48	08/17/04	30.0-32.0	46.3	0.057	--	0	1	32	66	Dark Gray Fat CLAY, Trace SAND, CH
										Clay Above EPA Below Rand

TABLE 4-2
Soil Geotechnical Analysis Results - Clay Strata
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			SAMPLE ANALYSIS							DESCRIPTION
Boring ID	Date Collected	Sample Depth (ft bgs)	Natural Moisture Content (%)	Fraction Of Organic Carbon (mg/kg)	Porosity (%)	PERCENT COMPOSITION				
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)	
HMW-48	08/17/04	40.0-42.0	33.8	0.062	--	0	0	60	40	Gray Fat CLAY, Trace SAND, CH
										Clay Above Main Below EPA
HMW-49	08/24/04	7.0-9.0	27.5	0.035	--	0	2	51	47	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above N. Olive
HMW-49	08/24/04	15.0-17.0	40.6	0.054	--	0	0	18	82	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above EPA Below N. Olive
HMW-50	08/24/04	11.0-13.0	34.0	0.031	--	0	8	68	24	Brown Lean SILT, Trace SAND, ML
										Clay Above Rand
HMW-50	08/24/04	27.0-29.0	39.3	0.068	--	0	3	24	74	Gray Fat CLAY, Trace SAND, CH
										Clay Above EPA Below Rand
HMW-50	08/24/04	41.0-43.0	33.4	0.062	--	0	6	61	33	Gray Lean CLAY, Trace SAND, CL
										Clay Above Main Below EPA
HMW-51	08/23/04	8.0-10.0	29.5	0.020	--	0	5	69	26	Gray-Brown Lean SILT, Trace SAND, ML
										Clay Above N. Olive
HMW-52	08/25/04	10.0-12.0	28.0	0.038	--	0	4	48	48	Gray-Brown Fat CLAY, Trace SAND, CH
										Clay Above Main
VMP-24M	07/20/04	7.5-9.0	29.7	--	50	0	10	49	41	Gray Clayey SILT, ML-CL
										Fill/Clay above N. Olive
VMP-24M	07/20/04	13.5-14.5	32.7	--	52	0	2	54	44	Gray CLAY, with Silty Clay Lenses, CH
										Clay above N. Olive
VMP-24M	07/20/04	18.5-21.0	42.1	--	54.6	0	2	44	54	Dark gray CLAY, CH
										Clay above Main below N. Olive
Average			32.8	0.044	52.2	0	6	45	49	

NOTES:
-- = Not Analyzed
ft bgs = feet below ground surface
Grain size results that were <0.5% are reported as 0% and may be classified as "trace" amounts in the soil description.

TABLE 5-1
Wells/Piezometers Used To Determine Groundwater Flow in the Main Sand
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE	NOTES
HB-07		Appears obstructed at approximately 9 ft below top of casing	If it can be restored, the well appears appropriate to use (20' screen)
HB-16[1]		Interpreted to screen multiple hydrostratigraphic units.	
HB-27		Appears obstructed at approximately 14 ft below top of casing	If it can be restored, the well appears appropriate to use (20' screen)
HB-30	X		
HB-31[1]	X		
HB-32	X		
HB-33		Potentially screening multiple hydrostratigraphic units.	No Well Construction Report
HB-37	X		Upper 3.5' of screen set in clay (10' screen)
HB-38	X		
HMW-02	X		
HMW-08	X		10' screen
HMW-10		Interpreted to screen multiple hydrostratigraphic units.	Screens both Main & EPA. Well is satisfactory to use on product thickness maps of both strata (see Fig. 6-Sentinel Well Rpt.-4/04)
HMW-14	X		No Log-15' screen. Evaluation based on CPT/ROST investigation data.
HMW-18	X		No Log-15' screen. Evaluation based on CPT/ROST investigation data.
HMW-19	X		No Log-15' screen. Evaluation based on CPT/ROST investigation data.
HMW-20	X		No Log-15' screen. Evaluation based on CPT/ROST investigation data.
HMW-22	X		(10' screen)
HMW-25	X		(15' screen)
HMW-26	X		(15' screen)
HMW-27	X		(15' screen)
HMW-28	X		(15' screen)
HMW-29	X		(15' screen)
HMW-30		Interpreted to screen multiple hydrostratigraphic units.	
HMW-31		Interpreted to screen multiple hydrostratigraphic units.	
HMW-32		Interpreted to screen multiple hydrostratigraphic units.	
HMW-33		Interpreted to screen multiple hydrostratigraphic units.	
HMW-34		Interpreted to screen multiple hydrostratigraphic units.	(25' screen)
HMW-35		Interpreted to screen multiple hydrostratigraphic units.	(25' screen)
HMW-36		Interpreted to screen multiple hydrostratigraphic units.	(25' screen)
HMW-37		Interpreted to screen multiple hydrostratigraphic units.	(25' screen)

TABLE 5-1
Wells/Piezometers Used To Determine Groundwater Flow in the Main Sand
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE	NOTES
HMW-38B			(shallow)
HMW-38C	X		
HMW-39C	X		
HMW-40A			(shallow) ENSR air monitoring
HMW-40B			(shallow)
HMW-40C	X		(deep)
HMW-41B			(shallow)
HMW-41C	X		(deep)
HMW-42A			(shallow)
HMW-42B	X		(deep)
HMW-43B			(shallow)
HMW-43C	X		(deep)
HMW-44C	X		
HMW-45C	X		
HMW-46B			Clayey Silt (possibly Rand)
HMW-46C	X		
HMW-47C	X		
HMW-48D	X		
HMW-49D	X		
HMW-50C	X		
HMW-51B			(shallow)
HMW-51C	X		(deep)
HMW-52A			(shallow) ENSR air monitoring
HMW-52B			(shallow)
HMW-52C	X		
HSVE-1S		For SVE system	
HSVE-2		For SVE system	
HSVE-3		For SVE system	
HSVE-4		For SVE system	
HSVE-5		For SVE system	
HSVE-6D		For SVE system	
HSVE-6S		For SVE system	
HSVE-7		For SVE system	
HSVE-8D		For SVE system	
HSVE-8S		For SVE system	
HSVE-9		For SVE system	
HSVE-10		For SVE system	
HSVE-11		For SVE system	
HSVE-12		For SVE system	
HSVE-13		For SVE system	
HSVE-14		For SVE system	
HSVE-15		For SVE system	
HSVE-16		For SVE system	
HSVE-17		For SVE system	
HSVE-18		For SVE system	
HSVE-19		For SVE system	
IEPA-4		Potentially screening multiple hydrostratigraphic units.	
MP-29D	X		
MP-30C	X		

TABLE 5-1
Wells/Piezometers Used To Determine Groundwater Flow in the Main Sand
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE	NOTES
MP-31A		For SVE system	Not logged; clayey silt
MP-31C	X		
MP-32B	X	Screened in Rand / Hydrostratigraphic Main	
MP-32C	x		
MP-33A		For SVE system	Not logged; clayey silt
MP-33D	X		
MP-34C	X		
MP-35A		For SVE system	Not logged; clayey silt
MP-35D	X		
MP-36C	X		
MP-37D	X		
MP-38C	X		
MP-39C	X		
MP-40A		For SVE system	Silty sand/clayey silt
MP-40C	X		
MP-41C	X		
MP-42C	X		
MP-43B			(shallow)
MP-43C	X		(deep)
MP-44A		For SVE system	Silty clay
MP-44D	X		
MP-45C	X		
MP-46C	X		
MP-47C	X		
MP-48B			(shallow)
MP-48C	X		
MP-49A		For SVE system	Silty sand/clayey silt
MP-49C	X		
MP-50A		For SVE system	Silty clay
MP-50C	X		
MP-51A		For SVE system	Silty clay/silt/silty clay
MP-51D	X		
MP-52A		For SVE system	Silt/silty clay
MP-52C	X		
MP-53A			(shallow)
MP-53C	X		
MP-54C	X		
MP-55C	X		
MP-56C	X		
MP-57C	X		
MP-58A			(shallow)
MP-58B			(shallow)
MP-58C	X		(deep)
MP-59A			(shallow)
MP-59B			(shallow)
MP-59C	X		(deep)
MP-60A			(shallow)
MP-60B			(shallow)
MP-60C	X		(deep)
MP-61A			(shallow)

TABLE 5-1
Wells/Piezometers Used To Determine Groundwater Flow in the Main Sand
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE	NOTES
MP-61B			(shallow)
MP-61C	X		(deep)
MP-62A			(shallow)
MP-62B			(shallow)
MP-62C	X		(deep)
MP-63A			(shallow)
MP-63B			(shallow)
MP-63C	X		(deep)
MP-64A			(shallow)
MP-64B			(shallow)
MP-64C	X		(deep)
MP-65A			(shallow)
MP-65B			(shallow)
MP-65C	X		(deep)
MP-66A			(shallow)
MP-66B			(shallow)
MP-66C	X		(deep)
MP-67A			(shallow)
MP-67B			(shallow)
MP-67C	X		(deep)
RW-01	X		No Log/Well Construction Report
RW-02	X		No Log/Well Construction Report
RW-03	X		No Log/Well Construction Report
RW-4A		Interpreted to screen multiple hydrostratigraphic units.	(25' screen)
RW-5		Interpreted to screen multiple hydrostratigraphic units.	(25' screen)
Shell Wells (Rand Avenue and Tannery)			
P-77	X		
P-78	X		
P-79	X		
P-106	X		
SP-36	X		
SP-41	X		
SP-42	X		

NOTES:
TSE = Top of screen
TOC = Top of casing
* Located on private property. Access requires permission of owner.
Wells have been evaluated through the use of available boring logs, well construction reports and/or CPT/ROST investigation data. Wells designated as satisfactory were interpreted to have screened the same hydrostratigraphic unit with similar screen lengths.
HMW-25 through HMW-52, RW-4A, 5 and HSVE and MP-series wells were installed by Clayton in 2003 and 2004. The remaining wells were installed by others.

TABLE 5-1
Wells/Piezometers Used to Determine Groundwater Flow in the EPA Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE
		Village of Hartford Wells
HMW-02	X	
HMW-03	X	
HMW-48C	X	
HMW-49C	X	
HMW-50B	X	
		Shell Wells (Rand Avenue and Tannery) *
P-76		Interpreted to screen multiple hydrostratigraphic units
P-81	X	
P-105	X	
P-107	X	
P-132		No available records
SP-2B	X	
SP-12		EPA and Main Sands appear connected per the available records.
SP-13		EPA and Main Sands appear connected per the available records.
SP-14		EPA and Main Sands appear connected per the available records.
SP-18		Available records indicate boring extended into Main Sand; however, records are unclear regarding backfill prior to well installation.
SP-37	X	
SP-40	X	
SP-43	X	

NOTES:
* = Located on private properties. Access requires permission of owner.
HMW-48 through HMW-50 were installed by Clayton in 2004. Remaining wells were installed by others.
Wells have been evaluated through the use of available boring logs, well construction reports, and/or CPT/ROST investigation data. Wells designated as satisfactory were interpreted to have screened the same hydrostratigraphic unit with similar screen lengths.

TABLE 5-1
Wells/Piezometers Used to Determine Groundwater Flow in the Rand Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE
		Village of Hartford Wells
HMW-01	X	
HMW-04	X	
HMW-07	X	
HMW-09		Interpreted to screen multiple hydrostratigraphic units
HMW-13		Screened entirely in silty clay unit above Rand Stratum
HMW-21		Potentially screening multiple hydrostratigraphic units
HMW-39A		Rand/ (N.Olive before separation)
HMW-39B	X	Rand (deep)
HMW-44B	X .	
HMW-45B	X	
HMW-47B	X	Rand; clayey silt
HMW-48B	X	
HMW-49B	X	Rand; permeable lense
HMW-50A	X	
MP-29B		Rand (shallow)
MP-29C	X	Rand (deep)
MP-30B	X	
MP-33C	X	
MP-34B	X	
MP-35C	X	
MP-36B	X	
MP-37B		Rand (shallow)
MP-37C	X	Rand (deep)
MP-38B	X	
MP-39B	X	
MP-40B	X	
MP-41B	X	
MP-42B	X	
MP-44C	X	
MP-45B	X	
MP-46B	X	
MP-47B	X	
MP-49B	X	
MP-50B	X	
MP-51C	X	
MP-52B	X	
MP-53B	X	
MP-54B	X	
MP-55B	X	
MP-56B	X	
MP-56B	X	
		Shell Wells (Rand Avenue and Tannery)
SP-3		TOC elevation has not been surveyed.
SP-5	X	
SP-6	X	
SP-7		Not used (based on proximity to SP-35) to minimize clutter
SP-8		Not used (based on proximity to SP-29) to minimize clutter
SP-9	X	
SP-10	X	

TABLE 5-1
Wells/Piezometers Used to Determine Groundwater Flow in the Rand Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE
SP-11	X	
SP-15		Not used (based on proximity to SP-32) to minimize clutter
SP-16		Not used (based on proximity to SP-33) to minimize clutter
SP-19	X	
SP-20	X	
SP-21	X	
SP-22	X	
SP-23	X	
SP-24		Not used (based on proximity to SP-35) to minimize clutter
SP-25	X	
SP-26		Not used (based on proximity to SP-35) to minimize clutter
SP-27	X	
SP-28	X	
SP-29	X	
SP-30		Screened/filter packed from approximately 5 to 26 ft bgs
SP-31	X	
SP-32	X	
SP-33	X	
SP-34	X	
SP-35	X	
SP-38		10' screen across a 4-5' clay layer
SP-39	X	
SP-44		5' screen. The vast majority of wells used in evaluation had 15' or 20' screens.
P-104		Data point too isolated to compare with others

NOTES:
TOC = Top of Casing
* Located on private property. Access requires permission of owner.
HMW-39 through HMW-50 and MP-series were installed by Clayton in 2004. Remaining wells were installed by others.
Wells have been evaluated through the use of available boring logs, well construction reports, and/or CPT/ROST investigation data. Wells designated as satisfactory were interpreted to have screened the same hydrostratigraphic unit with similar screen lengths.

TABLE 5-1
Wells/Piezometers Used to Determine Groundwater Flow in the North Olive Stratum
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE
		Village of Hartford Wells
HMW-38A	X	
HMW-41A	X	
HMW-43A	X	
HMW-44A	X	
HMW-45A	X	
HMW-46A	X	
HMW-47A	X	
HMW-48A	X	
HMW-49A	X	
HMW-51A	X	
MP-29A	X	
MP-30A	X	
MP-31B	X	
MP-32A	X	
MP-33B	X	
MP-34A	X	
MP-35B	X	
MP-36A	X	
MP-37A	X	
MP-38A	X	
MP-39A	X	
MP-41A	X	
MP-42A	X	
MP-43A	X	
MP-44B	X	
MP-45A	X	
MP-46A	X	
MP-47A	X	
MP-48A	X	
MP-51B	X	
MP-54A	X	
MP-55A	X	
MP-56A	X	
MP-57A	X	

NOTES:
All wells above were installed by Clayton in 2004.
Wells have been evaluated through the use of available boring logs, well construction reports, and/or CPT/ROST investigation data. Wells designated as satisfactory were interpreted to have screened the same hydrostratigraphic unit with similar screen lengths.

TABLE 5-1
Wells/Piezometers Used To Determine Groundwater Flow in the Main Sand
Premcor Facility
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE
GB-1	X	
GB-6	X	
LP-4	X	
MP-1D		No survey data
MP-1S		Shallow; no survey data
MP-2D		No survey data
MP-2S		Shallow; no survey data
MP-3D		No survey data
MP-3S		Shallow; no survey data
MP-4D		No survey data
MP-4S		Shallow; no survey data
RB-1		Shallow; no survey data
RB-8		No survey data
RB-8P		Shallow
RB-10	X	
RB-13		No well construction information
RB-22		Shallow
RB-25		Screening two hydrostratigraphic units; geology more complex than apparent from available information
RB-26		Screening two hydrostratigraphic units; geology more complex than apparent from available information
RB-29		Shallow
RB-30	X	
RB-35		No log
RB-36		Shallow; screened entirely in clay
RB-37	X	
RB-38	X	
RB-39		Screening two hydrostratigraphic units; geology more complex than apparent from available information
RB-40	X	
RB-41	X	
RB-42	X	
RB-43	X	
RB-44	X	
RB-45	X	
RB-46	X	
RB-47	X	
RB-48	X	
RB-49		Screened entirely in clay
RB-50		Shallow/Screened entirely in clay
RB-51	X	
RB-52	X	
RB-53		Potentially screening two hydrostratigraphic units; geology more complex than apparent from available information
RB-54		Screening two hydrostratigraphic units; geology more complex than apparent from available information
RB-55		Potentially screening two hydrostratigraphic units; geology more complex than apparent from available information
RB-56		Screening two hydrostratigraphic units; geology more complex than apparent from available information

TABLE 5-1
Wells/Piezometers Used To Determine Groundwater Flow in the Main Sand
Premcor Facility
The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

EXISTING WELLS	USED FOR GW FLOW	RATIONALE
SVE-1D		No survey data
SVE-1S		Shallow
T-1		No survey data or log

NOTES:
MP- and SVE-series wells were installed by Clayton in 2003. The remaining wells were installed by others.

APPENDIX A

SOIL BORING LOGS

Clayton GROUP SERVICES

BORING NO: MP-29	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791243.01N, 2317049.47E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/12/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1025	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.74 (MP-29D)	FINISH DATE: 07/12/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1215	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	FILL (0.0'-4.0') Black gravel, silt, and clay		Monitoring Well MP-29 A, Monitoring Well MP-29 B, Monitoring Well MP-29 C, Monitoring Well MP-29 D	A	--	HA	M	NA	--	--	Hand auger 0.0'-5.0'.
4	SILTY CLAY (4.0'-10.5') CL Dark gray with brown mottles, moist, petroleum odor			B	5/5	HP	M	NA	0	10.8	*Sample collected at 7.5' for analysis of BETX, MTBE, and Lead
6 / 2							M		0	9.7	
10	SILTY SAND (10.5'-11.8') SM Light olive green, wet, soft			C	5/5	HP	W/M	NA	--	25.3	* Collected sample at 10.0-12.0' for geotechnical analysis
12 / 4	CLAYEY SILT (11.8'-15.5') ML Light green with orange mottles, moist, soft						M		--	41.3	*Sample collected at 13.0' for analysis of Skinner List
16	SILTY SAND (15.5'-16.5') SM Light green, wet			D	5/5	HP	W/M	NA	--	64.1	*Sample collected at 16.0' for analysis of BETX, MTBE, and Lead
18	CLAYEY SILT (16.5'-19.5') ML Light brown, moist, soft						M		--	750	
20 / 6	SILT (19.5'-20.6') ML Gray, wet, with fine sand, soft, slight sheen, petroleum odor			E	5/5	HP	W/S	NA	--	276	* Collected sample at 18.0-20.0' for geotechnical analysis
22											

Boring/Well No.: MP-29 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-29	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	CLAYEY SILT (20.6'-21.5') ML Green gray, wet, soft, petroleum odor		Monitoring Well MP-29 D								
24	**SAND (21.5'-24.0') SP** Brown, saturated, fine grained, with silt, soft, strong petroleum odor, sheen						M		--	133	* Collected sample at 22.0-24.0' for geotechnical analysis
26 – 8	**CLAYEY SILT (24.0'-25.0') ML** Brown, moist, soft, petroleum odor			F	5/5	HP	S	NA	--	--	
	SAND (25.0'-28.2') SP Gray, saturated, fine grained, some silt, petroleum odor, sheen										
28	**CLAYEY SILT (28.2'-31.8') ML** Gray, wet, some fine sand, soft, petroleum odor						W		--	--	
30				G	5/5	HP	W/S	NA	--	--	
32 – 10	**SAND (31.8'-35.0') SP** Brown, saturated, fine grained, trace silt, petroleum odor										*Sample collected at 32.0-34.0' for geotechnical analysis
34	Grades to medium grained at 34.0'						S		--	--	
36	End of Boring at 35.0'										
38 – 12	This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-29 A, B, C, and D for details regarding monitoring well construction.										
40											
42											
44											

Clayton GROUP SERVICES

BORING NO: MP-30	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791066.00N, 2316781.27E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/21/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0909
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.47 (MP-30C)	FINISH DATE: 07/21/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1040

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well MP-30 A, Monitoring Well MP-30 B, Monitoring Well MP-30 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'.
6 / 2	CLAYEY SILT (6.0'-9.0') ML Dark brown with orange mottles, moist, stiff			B	4/4	HP	M	NA	--	0	
							M		--	0	
9 / 3	SILT (9.0'-16.6') ML Light brown with orange mottles, moist, with clay, some fine sand			C	4.5/5	HP	M	NA	--	0	
13.3 / 4	0.3-Foot silt seam, brown, moist, with fine sand at 13.3'						M		--	0	
16.6 / 5	SILT (16.6'-18.7') ML Gray, saturated, with fine sand, strong petroleum odor, black staining			D	3.5/5	HP	M/S	NA	--	27.4	
							M		--	357	
18.7 / 6	SILT (18.7'-23.0') ML Gray with orange mottles, moist, with clay, some fine sand Black staining from 20.0-23.0'			E	5/5	HP	M/W	NA	--	254	
23.0 / 7	SILT (23.0'-26.2') ML Brown, wet, with fine sand						W		--	>2000	

Clayton GROUP SERVICES

BORING NO: MP-30	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
			MP-30 C								
27	**SAND (26.2'-29.9') SP** Gray, saturated, fine to medium grained, strong petroleum odor 0.9-Foot silt seam, with fine sand at 27.1'			F	5/5	HP	W/S	NA	–	156	
29							S		–	110	
9											
31	**SILTY CLAY (29.9'-32.5') CL** Gray, wet, stiff, petroleum odor			G	2.5/5	HP	S	NA	–	64.2	
33	**SILT (32.5'-33.0') ML** Gray, saturated, with fine sand, petroleum odor						S/W		–	68.2	
	SILTY CLAY (33.0'-34.9') CL Gray, wet, stiff, petroleum odor										
35	**SAND (34.9'-40.0') SP** Gray, saturated, fine to medium grained			H	5/5	HP	S	NA	–	>2000	
11											
37											
39	End of Boring at 40.0'						S		–	>2000	
41	**This soil boring was advanced for geologic purposes.**										
43	**See monitoring well construction forms MP-30 A, B, and C for details regarding monitoring well construction.**										
13											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-31	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790898.71N, 2316428.07E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/20/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0920	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 427.33 (MP-31C)	FINISH DATE: 07/20/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1005	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-9.5')		Monitoring Well MP-31 A, Monitoring Well MP-31 B, Monitoring Well MP-31 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-9.5'
10	CLAYEY SILT (9.5'-13.4') ML Brown with orange mottles, moist, stiff			B	4.8/5	HP	M	NA	--	5.9	* Collected sample at 10.0-12.0' for geotechnical analysis
12											*Sample collected at 12.0' for analysis of BETX, MTBE, and Lead
14	SILT (13.4'-14.8') ML Brown with some rust-colored mottles, moist, some fine sand and clay						M		--	2.8	
16	SILT (14.8'-17.5') ML Brown, wet, with fine sand, trace clay Saturated, slight petroleum odor at 16.0'			C	3.9/5	HP	W/S	NA	--	9.3	* Collected sample at 14.0-16.0' for geotechnical analysis
18	SILTY CLAY (17.5'-23.5') CL Gray with orange mottles, moist, slight petroleum odor						M		--	6.9	*Sample collected at 19.0' for analysis of Skinner List
20											

Clayton
GROUP SERVICES

BORING NO: MP-31	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			Well MP-31 C	D	4/5	HP	M	NA	--	6.7	* Collected sample at 18.0-20.0' for geotechnical analysis
24	**SILT (23.5'-32.8') ML** Brown, moist, some fine sand, trace clay, petroleum odor Grades gray, wet at 24.5'						M		--	9.8	*Sample collected at 24.0' for analysis of BETX, MTBE, and Lead
26	Saturated at 26.0' Grades with fine sand, no clay at 26.5'			E	2.5/5	HP	W/S	NA	--	26.4	
28							S		--	751	
30				F	2.5/5	HP	S	NA	--	>2000	* Collected sample at 30.0-32.0' for geotechnical analysis
32	**SAND (32.8'-35.0') SP** Gray, saturated, fine grained, strong petroleum odor, sheen						S		--	>2000	
34											
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-31 A, B, and C for details regarding monitoring well construction.										
38											
40											

Clayton GROUP SERVICES

BORING NO: MP-32	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790896.82N, 2316585.39E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/19/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1650
TOP of CASING ELEVATION: 429.72 (MP-32C)	G.S. ELEVATION: 430.01 (MP-32C)	FINISH DATE: 07/19/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1730

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-9.5')		Monitoring Well MP-32 A, Monitoring Well MP-32 B, Monitoring Well MP-32 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-9.5'
10	CLAYEY SILT (9.5'-13.3') ML Brown with orange mottles, moist, soft Grades stiff at 12.7'			B	3.5/5	HP	M	NA	--	4.8	
14 / 4	SILT (13.3'-13.9') ML Brown, moist, with clay, some fine sand						M		--	8.7	
16	CLAYEY SILT (13.9'-18.5') ML Brown with orange mottles, moist, very stiff			C	4.5/5	HP	M	NA	--	8.3	
18 / 6	SILT (18.5'-27.0') ML Brown, moist, soft, with fine sand						M		--	302	
20											

Clayton
GROUP SERVICES

BORING NO: MP-32	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22	0.2-Foot clayey silt seam, brown with orange mottles, moist, stiff at 18.9' Grades gray, petroleum odor at 21.5'		Monitoring Well MP-32 C	D	3.5/5	HP	M	NA	--	>2000	
24							M		--	>2000	
26				E	3/5	HP	M	NA	--	>2000	
28	**SILTY SAND (27.0'-30.7') SM** Gray, wet, strong petroleum odor						W		--	>2000	
30				F	4.5/5	HP	M/W	NA	--	>2000	
32	**CLAYEY SILT (30.7'-32.2') ML** Brown, moist, stiff, petroleum odor Grades wet, soft at 31.4'										
34	**SAND (32.2'-35.0') SW** Brown,wet, fine to medium grained, strong petroleum odor						W		--	>2000	
36	End of Boring at 35.0'										
38											
40											

8
10
12

Boring/Well No.: MP-32 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-32	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42	This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-32 A, B, and C for details regarding monitoring well construction.										
44											
46 (14)											
48											
50											
52 (16)											
54											
56											
58											
60 (18)											

Clayton GROUP SERVICES

BORING NO: MP-33	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790897.18N, 2316652.53E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/19/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1515	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.37 (MP-33D)	FINISH DATE: 07/19/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1620	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0	BLIND AUGER (0.0'-9.5')		Monitoring Well MP-33 A, Monitoring Well MP-33 B, Monitoring Well MP-33 C, Monitoring Well MP-33 D	A	--	HA	--	NA	--	--	Hand auger 0.0'-9.5'
10	CLAYEY SILT (9.5'-12.2') ML Brown with orange mottles, moist, stiff			B	5/5	HP	M	NA	--	8.8	
12	SILT (12.2-14.3') ML Brown, moist, with clay, some fine sand						M		--	9.7	
14	CLAYEY SILT (14.3'-17.8') ML Brown, moist, trace fine sand			C	3.5/5	HP	M	NA	--	11.4	
18							M/S		--	1363	
20											

Boring/Well No.: MP-33 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-33	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SILT (17.8'-23.7') ML Brown, moist, with fine sand		Monitoring Well MP-33 D	D	4/5	HP	M	NA	–	>2000	
22	Grades gray, saturated, petroleum odor at 22.3'										
24	**CLAYEY SILT (23.7'-24.3') ML** Gray with orange mottles, moist, slight petroleum odor						M/W		–	32.6	
	SILTY SAND (24.3'-26.0') SM Gray, wet,fine grained, petroleum odor										
26 – 8	**CLAYEY SILT (26.0'-29.4') ML** Reddish brown, moist, petroleum odor			E	4.7/5	HP	W/M	NA	–	>2000	
28	Grades soft at 28.3'						M/S		–	>2000	
	SAND (29.4'-35.0') SP Gray, saturated, fine to medium grained, strong petroleum odor										
30				F	3.2/5	HP	S	NA	–	>2000	
32 – 10											
34							S		–	>2000	
	End of Boring at 35.0'										
36											
38											
40 – 12											

Clayton
GROUP SERVICES

BORING NO: MP-33	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42	This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-33 A, B, C, and D for details regarding monitoring well construction.										
44											
46 – 14											
48											
50											
52 – 16											
54											
56											
58											
18											
60											

Clayton GROUP SERVICES

BORING NO: MP-34	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790904.20N, 2316784.70E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/19/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1315	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.98 (MP-34C)	FINISH DATE: 07/19/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1405	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-9.5')**		Monitoring Well MP-34 A; Monitoring Well MP-34 B; Monitoring Well MP-34 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-9.5'
	CLAYEY SILT (9.5'-13.6') ML Brown with rust colored mottles, moist			B	4.8/5	HP	M/W	NA	--	9.5	* Collected sample at 10.0-12.0' for geotechnical analysis
	SILTY CLAY (13.6'-14.2') CL Olive brown with orange mottles, moist, stiff						W/M		--	28.7	*Collected sample at 13.5' for analysis of BETX, MTBE, and Lead
	SILT (14.2-16.0') ML Brown, wet, with fine sand and clay			C	4/5	HP	W/M	NA	--	13.2	* Collected sample at 14.0-16.0' for geotechnical analysis
	CLAYEY SILT (16.0'-18.7') ML Olive brown, moist, stiff										
	SILTY SAND (18.7'-22.8') SM Brown, moist, fine grained, slight petroleum odor						M		--	24.3	* Collected sample at 16.0-18.0' for geotechnical analysis

Clayton
GROUP SERVICES

BORING NO: MP-34	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			Monitoring Well MP-34 C	D	4/5	HP	M	NA	--	>2000	*Collected sample at 19.5' for analysis of BETX, MTBE, and Lead
	SILT (22.8'-24.1') ML Gray, saturated, trace fine sand, some clay, petroleum odor						S		--	44.5	* Collected sample at 20.0-22.0' for geotechnical analysis
24	**SILTY CLAY (24.1'-29.3') CL** Gray, moist, plastic, slight petroleum odor 0.2-Foot silty sand seam at 24.6'										
26 (8)				E	3/5	HP	M	NA	--	997	* Collected sample at 26.0-28.0' for geotechnical analysis
28							M		--	>2000	*Collected sample at 27.5' for analysis of Skinner List
	SILT (29.3'-32.2') ML Reddish brown, moist, trace fine sand, petroleum odor										
30				F	4.8/5	HP	M	NA	--	>2000	
32	**SAND (32.2'-35.0') SP** Brown, saturated, fine to medium grained, petroleum odor										
34 (10)							S		--	>2000	*Collect sample at 34.0-36.0' for geotechnical analysis from adjacent boring
36	End of Boring at 35.0'										
38											
40 (12)											

Clayton GROUP SERVICES

BORING NO: MP-34	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42	This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-34 A, B, and C for details regarding monitoring well construction.										
44											
46 (14)											
48											
50											
52 (16)											
54											
56											
58											
60 (18)											

Clayton GROUP SERVICES

BORING NO: MP-35	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790911.85N, 2316924.26E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/13/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1550
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.73 (MP-35D)	FINISH DATE: 07/13/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1640

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-5.5')		Monitoring Well MP-35 A, Monitoring Well MP-35 B, Monitoring Well MP-35 C, Monitoring Well MP-35 D	A	--	HA	--	NA	--	--	Hand auger 0.0'-5.5'
6 / 2	SILTY CLAY (5.5'-14.0') CL Brown with orange mottles, moist, stiff			B	4.5/4.5	HP	M	NA	--	0.0	
							M		--	0.1	
				C	3/5	HP	M	NA	--	0.1	
14 / 4							M		--	10.1	
	SILT (14.0'-16.5') ML Brown,moist, soft, some fine sand, trace clay			D	3.5/5	HP	M	NA	--	5.1	
	CLAYEY SILT (16.5'-19.2') ML Brown, moist, stiff, trace fine sand						M		--	432	
20 / 6	SILT (19.2'-25.2') ML Brown, moist, with fine sand			E	2/5	HP	M	NA	--	1339	
	Strong petroleum odor at 23.0'						M		--	>2000	

Clayton GROUP SERVICES

BORING NO: MP-35	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
27	**CLAYEY SILT (25.2'-28.5') ML** Light olive brown, moist, stiff, petroleum odor		MP-35 D	F	4.8/5	HP	M/W	NA	--	550	
29	**SAND (28.5'-35.0') SP** Brown, wet, fine grained, trace silt, petroleum odor						W		--	1639	
9	Grades fine to medium grained at 30.0'										
31	Grades saturated at 31.0'			G	2.5/5	HP	W/S	NA	--	>2000	
33							S		--	>2000	
35	End of Boring at 35.0'										
11											
37	This soil boring was advanced for geologic purposes.										
39	See monitoring well construction forms MP-35 A, B, C, and D for details regarding monitoring well construction.										
41											
13											
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-36	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790964.98N, 2316987.17E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/12/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1525	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 432.38 (MP-36C)	FINISH DATE: 07/12/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1645	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0	BLIND AUGER (0.0'-6.5')		Monitoring Well MP-36 A, Monitoring Well MP-36 B, Monitoring Well MP-36 C								Hand auger 0.0'-6.5'
				A	--	HA	--	NA	--	--	
2	SILTY CLAY (6.5'-10.5') CL Brown with orange mottles, moist, stiff			B	2/5	HP	--	NA	--	--	
							M		--	17.2	
4	CLAYEY SILT (10.5'-12.5') ML Brown with orange mottles, moist, some fine sand, stiff			C	4.8/5	HP	M	NA	--	27.2	
	SILTY CLAY (12.5'-15.0') CL Light brown with orange mottles, moist						M		--	15.7	
6	CLAYEY SILT (15.0'-19.0') ML Brown, wet, soft			D	4/5	HP	W	NA	--	348	
							W		--	1771	
	SILT (19.0'-25.5') ML Brown, wet, some fine sand, soft, strong petroleum odor			E	4.5/5	HP	W	NA	--	329	
	Saturated, sheen at 23'						S		--	--	

Boring/Well No.: MP-36 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-36	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	CLAYEY SILT (25.5'-26.7') ML Brown, saturated, strong petroleum odor		Monitoring Well MP-36 C	F	4.8/5	HP	S	NA	--	--	
27	**SILT (26.7'-28.5') ML** Brown, saturated, trace silt and fine sand, sheen										
29	**SILTY CLAY (28.5'-34.5') CL** Gray, moist, stiff, petroleum odor						S/M		--	--	
9											
31				G	4.5/5	HP	M/W	NA	--	--	
	0.4-Foot sand seam, brown, wet, fine grained, trace silt, soft, petroleum odor										
33							M/S		--	--	
35	**SAND (34.5'-35.0') SP** Gray, saturated, fine to medium grained, strong petroleum odor										Did not collect headspace analysis due to high saturation levels
11											
37	End of Boring at 35.0'										
39	**This soil boring was advanced for geologic purposes.**										
41	**See monitoring well construction forms MP-36 A, B, and C for details regarding monitoring well construction.**										
13											
43											
45											
47											
49											
15											

Boring/Well No.: MP-36 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-37	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790897.56N, 2317209.44E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/16/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0955
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.38 (MP-37D)	FINISH DATE: 07/16/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1045

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.5')		Monitoring Well MP-37 A, Monitoring Well MP-37 B, Monitoring Well MP-37 C, Monitoring Well MP-37 D	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.5'
6 / 2	SILTY CLAY (6.5'-8.9') CL Light olive green with orange mottles, moist, stiff			B	3.5/3.5	HP	M	NA	--	33.1	
	SILT (8.9'-13.0') ML Olive green, moist, soft, with fine sand, some clay, slight petroleum odor Saturated at 12.5'						M		--	42.2	
				C	3/5	HP	M	NA	--	530	
13 / 4	CLAYEY SILT (13.0'-13.9') ML Olive green with orange mottles, moist, trace fine sand, slight petroleum odor						S		--	848	
	SILTY CLAY (13.9'-17.8') CL Olive green with orange mottles, moist, very plastic, soft, petroleum odor			D	3.5/5	HP	M	NA	--	76.3	
	CLAYEY SILT (17.8'-18.8') ML Light olive brown, moist, slight petroleum odor						M		--	1231	
20 / 6	SILT (18.8'-22.3') ML Brown, moist, soft, with fine sand, strong petroleum odor Saturated at 21.5'			E	4.5/5	HP	M/S	NA	--	362	
							M		--	64.5	

Clayton
GROUP SERVICES

BORING NO: MP-37	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**CLAYEY SILT (22.3'-24.8') ML** Olive brown with orange mottles, moist, soft, slight petroleum odor 0.2-Foot silty clay seam, brown at 23.6'		MP-37 D	F	4/5	HP	S	NA	--	75.5	
	SILT (24.8'-27.5') ML Gray, saturated, some fine sand, sheen, petroleum odor										
29	**CLAYEY SILT (27.5'-30.5') ML** Gray, moist, trace fine sand, stiff, very slight petroleum odor						M		--	27.0	
9											
31	**SAND (30.5'-35.0') SP** Brown, saturated, fine to medium grained, petroleum odor			G	4.6/5	HP	S	NA	--	>2000	
33							S		--	>2000	
35	End of Boring at 35.0'										
11											
37											
39	**This soil boring was advanced for geologic purposes.**										
41	**See monitoring well construction forms MP-37 A, B, C, and D for details regarding monitoring well construction.**										
13											
43											
45											
47											
49											
15											

Clayton
GROUP SERVICES

BORING NO: MP-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790762.65N, 2316432.17E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/19/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1155
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 427.22 (MP-38C)	FINISH DATE: 07/19/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1250

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.5')		Monitoring Well MP-38 A, Monitoring Well MP-38 B, Monitoring Well MP-38 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.5'
6 / 2	SILTY CLAY (6.5'-9.3') CL Brown with orange mottles, moist, stiff			B	2.5/3.5	HP	M	NA	--	16.6	
10	SILT (9.3'-13.0') ML Brown, moist, with fine sand, trace clay, soft Grades wet at 12.5'			C	3.8/5	HP	M	NA	--	14.0	
14 / 4	SILTY CLAY (13.0'-13.7') CL Light olive brown with orange mottles, moist, stiff, plastic						W		--	25.9	
	CLAYEY SILT (13.7'-14.5') ML Brown with orange mottles, moist										
16	SILT (14.5-17.2') ML Brown, moist, soft			D	3.9/5	HP	W/M	NA	--	33.8	
18	CLAYEY SILT (17.2'-18.3') ML Gray, moist, soft, petroleum odor						M/W		--	129	
20 / 6											

Boring/Well No.: MP-38 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

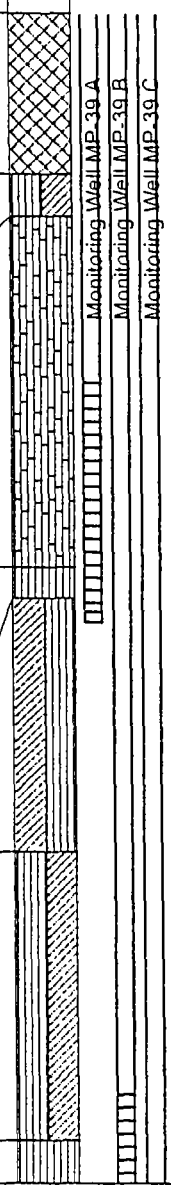
DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	SILT (18.3'-23.7') ML Dark gray, wet, with fine sand, soft, petroleum odor		Well MP-38 C	E	4.5/5	HP	W	NA	--	65.3	
22	Saturated at 22.0'										
24	**SILTY CLAY (23.7'-24.1') CL** Gray, moist, stiff, slight petroleum odor						S/M		--	>2000	
	SILTY SAND (24.1'-28.8') SM Gray, wet, petroleum odor Saturated, sheen at 25.5'										
26 – 8				F	4.7/5	HP	W/S	NA	--	>2000	
28							S		--	>2000	
	SAND (28.8'-35.0') SP Gray, saturated, fine to medium grained, strong petroleum odor 0.2-Foot clayey silt seam, gray, moist at 29.7'										
30				G	5/5	HP	S	NA	--	>2000	
32 – 10											
34							S		--	>2000	
36	End of Boring at 35.0'										
	This soil boring was advanced for geologic purposes.										
38	See monitoring well construction forms MP-38 A, B, and C for details regarding monitoring well construction.										
40 – 12											

Clayton
GROUP SERVICES

BORING NO: MP-39	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790758.56N, 2316609.45E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/20/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0805	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 432.34 (MP-39C)	FINISH DATE: 07/20/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0905	

DEPTH (ft)	DESCRIPTION	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0	**FILL (0.0'-3.5')** Black silty clay and gravel, topsoil	A	4/5	HP	M	NA	--	9.0	
4	**SILTY CLAY (3.5'-4.4') CL** Brown, moist, stiff				M		--	7.5	
6	**SILTY SAND (4.4'-12.0') SM** Brown, moist, soft, fine grained	B	4/5	HP	M	NA	--	3.2	
8					M		--	1.1	
10		C	4.9/5	HP	M/S	NA	--	6.2	
12	**SILT (12.0'-12.7') ML** Brown, saturated, with fine sand and clay				S/W		--	5.1	
14	**CLAYEY SILT (12.7'-18.3') ML** Brown with orange mottles,wet, soft	D	3/5	HP	W	NA	--	2.8	
18	**SILTY CLAY (18.3'-24.5') CL** Gray with rust-colored mottles, moist, stiff, slight petroleum odor				W/M		--	13.6	
20		E	5/5	HP	M	NA	--	7.0	
22	Grades to soft at 22.9'				M		--	2.9	
24									

GRAPHIC / WELL



Boring/Well No.: MP-39 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-39	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SILT (24.5'-26.3') ML Brown, moist, soft, with fine sand and clay, slight petroleum odor		Well MP-39 C	F	3.9/5	HP	M	NA	--	10.1	
27	**SILTY CLAY (26.3'-29.0') CL** Gray, moist, soft, very plastic, slight petroleum odor										
29							M/S		--	21.3	
9	**SILT (29.0'-30.0') ML** Gray, saturated, with fine sand, trace clay, petroleum odor										
31	**SAND (30.0'-35.0') SW** Gray, saturated, fine to medium grained, strong petroleum odor			G	4/5	HP	S	NA	--	>2000	
33							S		--	>2000	
35	End of Boring at 35.0'										
11											
37											
39	This soil boring was advanced for geologic purposes.										
41	See monitoring well construction forms MP-39 A, B, and C for details regarding monitoring well construction.										
13											
43											
45											
47											
49											
15											

Clayton
GROUP SERVICES

BORING NO: MP-40	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790659.36N, 2316828.16E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/20/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1518
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 433.07 (MP-40C)	FINISH DATE: 07/20/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1636

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.5')**		Monitoring Well MP-40 A Monitoring Well MP-40 B Monitoring Well MP-40 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.5'
2	**SILTY SAND (6.5'-8.7') SM** Brown, wet, fine grained, trace clay Saturated at 7.5'			B	3/3.5	HP	W/S	NA	--	13.2	
	CLAYEY SILT (8.7'-11.1') ML Brown with orange mottles, moist, soft						S/M		--	9.9	
4	**SILTY CLAY (11.1'-27.5') CL** Brown with orange mottles, moist, stiff			C	4.8/5	HP	M	NA	--	12.2	
	Grades gray, slight petroleum odor at 14.0'						M		--	22.8	
6				D	3.4/5	HP	M	NA	--	18.2	
							M		--	20.1	
				E	4/5	HP	M/W	NA	--	17.3	
	0.2-Foot silt seam, wet at 24.5'						M		--	24.7	

Clayton
GROUP SERVICES

BORING NO: MP-40	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27			Monitoring Well MP-40 C	F	4/5	HP	M	NA	--	19.4	
29	**CLAYEY SILT (27.5'-28.2') ML** Gray, moist, soft, slight petroleum odor						M/S		--	88.1	
9	**SILTY SAND (28.2'-30.0') SM** Gray, saturated, fine grained, petroleum odor										
31	**CLAYEY SILT (30.0'-34.4') ML** Reddish brown, moist, stiff			G	4.8/5	HP	M	NA	--	>2000	
33							M/S		--	>2000	
35	**SAND (34.4'-38.1') SW** Brown, saturated, fine to medium grained, slight petroleum odor			H	2/5	HP	S	NA	--	>2000	
11											
37											
39	**SILTY SAND (38.1'-39.4') SM** Gray, saturated, fine grained, strong petroleum odor						S		--	>2000	
41	**SAND (39.4'-40.0') SW** Gray, saturated, fine to coarse grained, strong petroleum odor										
43	End of Boring at 40.0'										
13	**This soil boring was advanced for geologic purposes.**										
45	**See monitoring well construction forms MP-40 A, B, and C for details regarding monitoring well construction**										
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-41	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790687.62N, 2317040.05E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: BA	START DATE: 07/12/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1715
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.41 (MP-41C)	FINISH DATE: 07/12/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1810

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	FILL (0.0'-7.0') Fill and silty clay		Monitoring Well MP-41 A; Monitoring Well MP-41 B; Monitoring Well MP-41 C	A	--	HA	M	NA	--	--	Hand auger 0.0'-7.0'.
7.0 / 2	SILTY CLAY (7.0'-12.5') CL Brown with orange mottles, moist, stiff			B	3/3	HP	M	NA	--	15.5	
				C	4.5/5	HP	M	NA	--	166	
12.5 / 4	SILT (12.5'-13.5') ML Brown, wet, some fine sand, trace clay						W		--	36.4	
13.5	CLAYEY SILT (13.5'-15.0') ML Brown, wet, trace sand										
15.0	NO RECOVERY (15.0'-20.0')			D	0/5	HP	--	NA	--	--	
							--		--	--	
20.0 / 6	CLAYEY SILT (20.0'-24.0') ML Brown, wet, trace sand			E	4.8/5	HP	W	NA	--	22	
							W		--	>2000	

Boring/Well No.: MP-41 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-41	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SILT (24.0'-25.7') ML Brown, wet, with fine sand, strong petroleum odor		Well MP-41 C	F	4.7/5	HP	M	NA	--	831	
27	**CLAYEY SILT (25.7'-32.0') ML** Brown with orange mottles, moist, trace fine sand, stiff, petroleum odor										
29	Grades gray at 28.0' Grades soft at 28.5'-29.0'						M		--	126	
9											
31				G	2.5/5	HP	M/S	NA	--	--	
	SAND (32.0'-35.0') SP Gray, wet, fine grained, trace clay, petroleum odor										
33	Grades fine to medium grained, saturated, no clay at 33.5'						S		--	--	
35	End of Boring at 35.0'										
11											
37											
39	This soil boring was advanced for geologic purposes.										
41	See monitoring well construction forms MP-41 A, B, and C for details regarding monitoring well construction.										
13											
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-42	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790810.17N, 2317308.23E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/12/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1245	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.54 (MP-42C)	FINISH DATE: 07/12/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1355	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0	**FILL (0.0'-3.0')** Black silty clay, moist, roots		Monitoring Well MP-42 A, Monitoring Well MP-42 B, Monitoring Well MP-42 C	A	5/5	HP	M	NA	--	0.0	
3.0	**SILTY CLAY (3.0'-8.0') CL** Brown, moist, stiff						M		--	1.5	
6 / 2				B	4.8/5	HP	M	NA	--	0.0	
8	**CLAYEY SILT (8.0'-11.8') ML** Brown with orange mottles, moist, some fine sand, soft						M		--	5.6	
10				C	3/5	HP	M/W	NA	--	5.5	
11.8	**SILT (11.8'-12.7') ML** Brown, wet, soft										
12.7 / 4	**SILT (12.7'-17.8') ML** Gray, saturated, with fine sand, soft, petroleum odor						S		--	--	
16	Sheen, strong petroleum odor at 16.5'			D	3.5/5	HP	S	NA	--	--	
17.8	**CLAYEY SILT (17.8'-27.3') ML** Brown, wet, with fine sand, soft, strong petroleum odor						S/M		--	--	
20 / 6											

Boring/Well No.: MP-42 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-42	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			Monitoring Well MP-42 B Monitoring Well MP-42 C	E	4.5/5	HP	W	NA	--	--	
24							W		--	--	
26				F	4.7/5	HP	W	NA	--	--	
8											
28	**SANDY SILT (27.3'-28.1') ML** Brown, saturated, fine grained, soft, strong petroleum odor **SILT Y CLAY (28.1'-31.0') ML** Gray with orange mottles, moist, stiff										
30											
32	**SAND (31.0'-35.0') SP** Gray, saturated, fine to medium grained, trace silt, strong petroleum odor			G	2.5/5	HP	M/S	NA	--	--	* Collected sample at 32.0-34.0' for geotechnical analysis
10											
34							S		--	--	
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-42 A, B, and C for details regarding monitoring well construction.										
38											
12											
40											

Clayton GROUP SERVICES

BORING NO: MP-43	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790616.05N, 2316489.55E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: BA	START DATE: 07/21/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1104
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 426.88 (MP-43C)	FINISH DATE: 07/21/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1231

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.4')		Monitoring Well MP-43 A, Monitoring Well MP-43 B, Monitoring Well MP-43 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.4'.
2	CLAYEY SILT (6.4'-7.5') ML Brown with orange mottles, moist, stiff			B	3.5/3.5	HP	M	NA	--	0.0	
	SILT (7.5'-8.3') ML Brown, moist, some fine sand										
	CLAYEY SILT (8.3'-11.4') ML Brown with orange mottles, moist, stiff						M		--	0.0	
	SILT (11.4'-29.7') ML Brown, moist, some fine sand Grades with clay at 12.8'-13.7'			C	3.5/5	HP	M	NA	--	0.0	
4							M		--	0.0	
	Grades orange mottles, black staining, wet, strong petroleum odor at 17.9'-19.0'			D	3.5/5	HP	M	NA	--	74.1	
	Grades black and dark gray, moist, strong petroleum odor at 19.0'						W/M		--	7.9	
6											

Clayton GROUP SERVICES

BORING NO: MP-43	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22				E	2.5/5	HP	M	NA	--	>2000	
24							M		--	>2000	
26	Saturated at 26.0'			F	4/5	HP	M/S	NA	--	>2000	
28							S		--	>2000	
30	SAND (29.7'-35.0') SP Dark gray, saturated, fine grained, trace silt			G	4.5/5	HP	S	NA	--	>2000	
32											
34							S		--	>2000	
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-43 A, B, and C for details regarding monitoring well construction.		Monitoring Well MP-43 C								
38											
40											

Clayton GROUP SERVICES

BORING NO: MP-44	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790610.61N, 2317127.84E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/13/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0750	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.91 (MP-44D)	FINISH DATE: 07/13/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0840	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well MP-44 A, Monitoring Well MP-44 B, Monitoring Well MP-44 C, Monitoring Well MP-44 D	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	CLAYEY SILT (6.0'-9.0') ML Brown with orange mottles, moist			B	3/4	HP	M	NA	--	17.8	
9.0	SILTY CLAY (9.0'-13.7') CL Brown with orange mottles, moist			C	3.5/5	HP	M	NA	--	68.1	
4							W		--	36.8	
13.7	SILT (13.7'-14.5') ML Brown, wet, soft, some fine sand, trace clay										
14.5	SILTY CLAY (14.5'-19.2') CL Brown with orange mottles, moist			D	3.5/5	HP	M	NA	--	37.2	
							M		--	67.7	
6 / 19.2	SILT (19.2'-24.6') ML Brown, moist, soft, some fine sand			E	4/5	HP	M	NA	--	>2000	
22.5	Grades gray, stained, saturated, strong petroleum odor at 22.5'						S/M		--	>2000	

Boring/Well No.: MP-44 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-44	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
27	**SILTY CLAY (24.6'-30.0') CL** Gray, moist, soft, trace fine sand, petroleum odor		Well MP-44 D	F	2.5/5	HP	M	NA	--	249	
29	0.2-foot silt seam at 28.7'						W		--	338	
9											
31	**CLAYEY SILT (30.0'-32.6') ML** Gray, wet, soft, petroleum odor			G	2.5/5	HP	W	NA	--	>2000	
33	**SAND (32.6'-35.0') SP** Gray, saturated, fine to medium grained, trace silt, strong petroleum odor						S		--	1587	
35	End of Boring at 35.0'										
11											
37	**This soil boring was advanced for geologic purposes.**										
39	**See monitoring well construction formsMP-44 A, B, C, and D for details regarding monitoring well construction.**										
41											
13											
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790608.85N, 2317246.86E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/13/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0930	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.30 (MP-45C)	FINISH DATE: 07/13/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1035	

DEPTH (ft)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0	BLIND AUGER (0.0'-5.0')		Monitoring Well MP-45 A, Monitoring Well MP-45 B, Monitoring Well MP-45 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-5.0'
6	SILTY CLAY (5.0'-9.5') CL Brown with orange mottles, moist			B	3/5	HP	M	NA	--	--	
							M		--	61.7	
10	CLAYEY SILT (9.5'-12.0') ML Brown with orange mottles, moist			C	3.5/5	HP	M/W	NA	--	67.8	
12	SILT (12.0'-12.5') ML Brown, wet, trace fine sand and clay										
14	CLAYEY SILT (12.5'-18.8') ML Light brown with orange mottles, moist						M		--	83.4	
16				D	3.5/5	HP	M	NA	--	109	
18							M		--	247	
20	SILT (18.8'-22.5') ML Brown, moist, some fine sand, soft Grades gray, saturated, petroleum odor at 21.0'			E	4/5	HP	M	NA	--	592	
22											
24	SILT (22.5'-23.8') ML Brown, wet, with clay, some fine sand, soft						W/M		--	1233	

Boring/Well No.: MP-45 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**CLAYEY SILT (23.8'-29.5') ML** Brown with orange mottles, moist, trace fine sand, stiff, petroleum odor		Well MP-45 C	F	3.5/5	HP	M	NA	--	233	
29							M/W		--	1851	
9	**SAND (29.5'-35.0') SP** Brown, wet, fine grained,strong petroleum odor										
31	Grades fine to medium grained, saturated at 30.5'			G	4.5/5	HP	W/S	NA	--	1677	
33	Grades with fine gravel at 34.8'						S		--	1666	
35	End of Boring at 35.0'										
11											
37											
39	**This soil boring was advanced for geologic purposes.**										
41	**See monitoring well construction forms MP-45 A, B, and C for details regarding monitoring well construction.**										
13											
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790607.05N, 2317322.18E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/13/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1105
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.99 (MP-46C)	FINISH DATE: 07/13/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1215

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.0')**		Monitoring Well MP-46 A; Monitoring Well MP-46 B; Monitoring Well MP-46 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	**SILTY CLAY (6.0'-9.4') CL** Brown with orange mottles, moist			B	4/4	HP	M	NA	--	2.7	
							M		--	17.9	
10	**SILT (9.4'-10.5') ML** Brown, moist, with fine sand, trace clay										
12	**CLAYEY SILT (10.5'-13.0') ML** Brown, moist, some fine sand			C	3.8/5	HP	M	NA	--	128	
14 / 4	**SILT (13.0'-14.3') ML** Brown, moist, with clay, some fine sand Wet at 14.0'						M/W		--	84.7	
16	**CLAYEY SILT (14.3'-19.0') ML** Brown, moist, trace fine sand, stiff			D	3.7/5	HP	M	NA	--	95.5	
18							M		--	78.1	
20 / 6	**SILT (19.0'-23.9') ML** Brown, moist, some fine sand, trace clay, soft			E	4/5	HP	M	NA	--	228	
22	Grades dark staining, saturated, petroleum odor at 23.0'						S/M		--	901	
24											

Boring/Well No.: MP-46 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**CLAYEY SILT (23.9'-28.7') ML** Light olive green with orange mottles, moist, slight petroleum odor			F	4.5/5	HP	M	NA	--	755	
29	**SAND (28.7'-35.0') SP** Brown, wet, fine grained, trace silt, strong petroleum odor Grades fine to medium grained at 30.0'						M/W		--	1413	
31				G	2.5/5	HP	W	NA	--	>2000	
33	Grades dark staining at 32.0' Saturated at 32.5'						S		--	>2000	
35	End of Boring at 35.0'										
37	**This soil boring was advanced for geologic purposes.**										
39	**See monitoring well construction forms MP-46 A, B, and C for details regarding monitoring well construction.**										
41											
43											
45											
47											
49											

Clayton GROUP SERVICES

BORING NO: MP-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790607.04N, 2317464.03E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/13/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1400
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.42 (MP-47C)	FINISH DATE: 07/13/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1445

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-5.5')		Monitoring Well MP-47 A, Monitoring Well MP-47 B, Monitoring Well MP-47 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-5.5' *Collected sample at 7.0' for analysis of BETX, MTBE, and Lead *Collected sample at 8.0-10.0' for geotechnical analysis
6 / 2	SILTY CLAY (5.5'-9.0') CL Brown with orange mottles, moist			B	4.5/4.5	HP	M	NA	--	14.7	
8							M		--	4.0	*Collected sample at 10.0' for analysis of Skinner List
10	SILT (9.0'-14.2') ML Brown,moist, soft, some fine sand, trace clay			C	4.5/5	HP	M/S	NA	--	27.4	*Collected sample at 10.0-12.0' for geotechnical analysis
12 / 4	Saturated at 12.0'										
14							S/M		--	26.3	
16	CLAYEY SILT (14.2'-19.0') ML Brown, moist, trace fine sand			D	3/5	HP	M	NA	--	151	*Collected sample at 16.0-18.0' for geotechnical analysis
18							M/W		--	782	*Collected sample at 17.0' for analysis of BETX, MTBE, and Lead
20 / 6											

Clayton
GROUP SERVICES

BORING NO: MP-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22	**SILT (19.0'-22.5') ML** Brown, wet, with fine sand, petroleum odor Saturated at 21.0'		Well MP-47 C	E	3/5	HP	W/S	NA	--	511	*Collected sample at 20.0' for analysis of Skinner List
24	**CLAYEY SILT (22.5'-28.5') ML** Light olive brown, moist, petroleum odor						M		--	905	*Collected sample at 20.0-22.0' for geotechnical analysis
26 (8)				F	4/5	HP	M	NA	--	1210	*Collected sample at 24.0-26.0' for geotechnical analysis
28	**SAND (28.5'-35.0') SP** Brown, wet, fine grained						M/W		--	1515	*Collected sample at 27.0' for analysis of Skinner List
30	Grades saturated, sheen, strong petroleum odor at 31.0'			G	3.8/5	HP	W/S	NA	--	914	*Collected sample at 30.0-32.0' for geotechnical analysis
32 (10)											
34							S		--	1108	
36	End of Boring at 35.0' **This soil boring was advanced for geologic purposes.** **See monitoring well construction forms MP-47 A, B, and C for details regarding monitoring well construction.**										
38 (12)											
40											

Clayton GROUP SERVICES

BORING NO: MP-48	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790447.15N, 2316606.54E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/20/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1135
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.80 (MP-48C)	FINISH DATE: 07/20/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1225

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-5.0')**		Monitoring Well MP-48 A, Monitoring Well MP-48 B, Monitoring Well MP-48 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-5.0'
6 / 2	**CLAYEY SILT (5.0'-7.4') ML** Brown with orange mottles, moist, stiff, trace fine sand			B	4/5	HP	M/W	NA	--	5.2	
8	**SILTY SAND (7.4'-14.3') SM** Brown, wet, fine grained										
12 / 4				C	3/5	HP	W	NA	--	11.2	
14							W/M		--	11.8	* Collected sample at 14.5' for analysis of BETX, MTBE, and Lead
14	**SILTY CLAY (14.3'-15.0') CL** Gray-brown with orange mottles, moist, stiff										
16	**SILT (15.0'-18.8') ML** Brown, saturated, with fine sand and clay			D	3.8/5	HP	S	NA	--	12.2	*Collected sample at 16.0-18.0' for geotechnical analysis
18							S/W		--	24.3	
18 / 6	**SILTY SAND (18.8'-19.4') SM** Light brown, wet, trace clay, soft										
20	**CLAYEY SILT (19.4'-22.7') ML** Brown, wet, with fine sand			E	3.7/5	HP	W	NA	--	50.3	*Collected sample at 20.0-22.0' for geotechnical analysis
22	**SILTY CLAY (22.7'-23.2') CL** Gray, moist, soft						M		--	81.4	
24											

Boring/Well No.: MP-48 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-48	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27			Well MP-48 C	F	4.2/5	HP	M/S	NA	--	1704	*Collected sample at 24.0' for analysis of BETX, MTBE, and Lead
29							S		--	>2000	*Collected sample at 24.0-26.0' for geotechnical analysis
9											
31				G	4/5	HP	S/M	NA	--	>2000	
	SILTY CLAY (31.5'-32.5') CL Gray,moist, stiff, plastic, petroleum odor										
33	**SILT (32.5'-34.5') ML** Black, saturated, with fine sand and clay, strong petroleum odor, sheen						S		--	>2000	
35	**SAND (34.5'-35.0') SW** Black, saturated, fine to medium grained, strong petroleum odor										
11											
37	End of Boring at 35.0'										*Collected sample at 38.0-40.0' for geotechnical analysis from adjacent boring
39	**This soil boring was advanced for geologic purposes.**										
41	**See monitoring well construction forms MP-48 A, B, and C for details regarding monitoring well construction.**										
13											
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-49	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790528.89N, 2316824.60E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: BA	START DATE: 07/20/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1420
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 433.10 (MP-49C)	FINISH DATE: 07/20/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1500

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**FILL (0.0'-2.5')** Concrete underlain by gravel		Monitoring Well MP-49 A, Monitoring Well MP-49 B, Monitoring Well MP-49 C								Hand auger 0.0'-6.5'.
2	**SILTY SAND (2.5'-8.8') SM** Brown, moist, soft, fine grained			A	--	HA	M	NA	--	--	
4											
6 / 2				B	3.5/3.5	HP	M	NA	--	17.2	
8	**CLAYEY SILT (8.8'-10.9') ML** Brown with orange mottles, moist, soft						M		--	16.8	
10	**SILTY CLAY (10.9'-19.3') CL** Olive brown with orange mottles, moist, stiff			C	5/5	HP	M	NA	--	18.1	
12 / 4											
14	Grades gray, slight petroleum odor at 14.0'						M		--	19.2	
16	Grades olive brown, no petroleum odor at 15.0'			D	5/5	HP	M	NA	--	23.3	
18							S/M		--	36.7	
20 / 6	**CLAYEY SILT (19.2'-23.0') ML** Olive brown, moist, soft, some fine sand, no petroleum odor			E	3.8/5	HP	M/S	NA	--	35.6	
22											
24	**SILT (23.0'-23.9') ML** Brown, saturated, with fine sand, trace clay, petroleum odor, sheen						M		--	25.6	

Boring/Well No.: MP-49 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-49	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**SILTY CLAY (23.9'-28.8') CL** Gray, moist, soft, slight petroleum odor 0.1-Foot silt seam at 24.2'		MP-49 C	F	2.5/5	HP	M	NA	--	15.9	
	Wet at 27.0'										
29	**SILTY SAND (28.8'-35.0') SM** Gray, wet, fine grained, petroleum odor						W		--	>2000	
9											
31				G	2.5/5	HP	W	NA	--	>2000	
33							W		--	>2000	
35	End of Boring at 35.0'										
11											
37											
39											
41	**This soil boring was advanced for geologic purposes.**										
13	**See monitoring well construction forms MP-49 A, B, and C for details regarding monitoring well construction.**										
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-50	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790511.06N, 2317029.03E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/15/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1445	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.57 (MP-50C)	FINISH DATE: 07/15/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1540	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well MP-50 A, Monitoring Well MP-50 B, Monitoring Well MP-50 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILTY CLAY (6.0'-19.8') CL Light olive brown, moist, plastic, stiff			B	3.5/4	HP	M	NA	--	11.6	
							M		--	7.9	
				C	3/5	HP	M	NA	--	7.9	
12 / 4	0.2-Foot clayey silt seam at 12.2'										
14	Grades to blue-gray, slight petroleum odor at 14.8'						M		--	22.8	
				D	3.5/5	HP	M	NA	--	13.4	
							M		--	490	
20 / 6	SILT (19.8'-22.6') ML Brown, moist, soft, some fine sand, trace clay, petroleum odor			E	3.5/5	HP	M	NA	--	228	
22	SILTY CLAY (22.6'-23.4') CL Gray, moist, stiff, plastic, petroleum odor						M		--	1534	

Boring/Well No.: MP-50 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-50	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SILT (23.4'-24.0') ML Brown, moist, soft, with clay, some fine sand, petroleum odor		Well MP-50 C	F	4/5	HP	M	NA	--	1966	
27	**CLAYEY SILT (24.0'-27.0') ML** Olive brown, moist, stiff, plastic, petroleum odor										
	SILT (27.0'-27.6') ML Light brown, moist, soft, with fine sand, trace clay						M		--	>2000	
29 9	**SILTY CLAY (27.6'-29.8') CL** Reddish brown, moist, stiff, very plastic, petroleum odor										
31	**SAND (29.8'-35.0') SP** Gray, wet, fine to medium grained, petroleum odor			G	4.5/5	HP	W	NA	--	>2000	
33							W		--	>2000	
35	End of Boring at 35.0'										
11 37	**This soil boring was advanced for geologic purposes.**										
39	**See monitoring well construction forms MP-50 A, B, and C for details regarding monitoring well construction.**										
41											
13 43											
45											
47											
49 15											

Clayton GROUP SERVICES

BORING NO: MP-51	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790438.83N, 2317348.00E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/15/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1615	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.29 (MP-51D)	FINISH DATE: 07/15/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1700	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well MP-51 A, Monitoring Well MP-51 B, Monitoring Well MP-51 C, Monitoring Well MP-51 D	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILTY CLAY (6.0'-8.7') CL Light brown with orange mottles, moist, stiff			B	4/4	HP	M	NA	--	10.5	
	SILT (8.7'-9.4') ML Brown, moist, with fine sand and clay						M		--	7.0	
12 / 4	SILTY CLAY (9.4'-14.0') CL Brown with orange mottles, moist Grades trace fine sand at 12.0' Grades gray at 13.4'			C	3/5	HP	M	NA	--	12.1	
14	SILT (14.0'-15.0') ML Gray, wet, with clay, some fine sand						M/W		--	4.1	
16	SILTY CLAY (15.0'-19.0') CL Light green gray, moist, stiff, petroleum odor Grades soft at 17.7' bgs			D	3/5	HP	M	NA	--	13.9	
18							M		--	>2000	
20 / 6	SILT (19.0'-24.4') ML Grayish brown, moist, soft, with fine sand, strong petroleum odor Saturated, black staining at 21.9'			E	4.5/5	HP	M/S	NA	--	>2000	
24							S/M		--	1446	

Boring/Well No.: MP-51 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-51	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27			Well MP-51 D	F	3.5/5	HP	M	NA	--	>2000	
29	SAND (28.8'-35.0') SP Brown, saturated, fine grained, strong petroleum odor						M/S		--	>2000	
9											
31				G	4/5	HP	S	NA	--	>2000	
33	Grades fine to medium grained at 32.0'						S		--	>2000	
35	End of Boring at 35.0'										
11											
37											
39	This soil boring was advanced for geologic purposes.										
41	See monitoring well construction forms MP-51 A, B, C, and D for details regarding monitoring well construction.										
13											
43											
45											
47											
49											
15											

Boring/Well No.: MP-51 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-52	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790346.03N, 2317024.06E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/15/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1320
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.31 (MP-52C)	FINISH DATE: 07/15/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1420

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	**SILTY CLAY (0.0'-7.0') CL** Brown with orange mottles, moist		Monitoring Well MP-52 A Monitoring Well MP-52 B Monitoring Well MP-52 C								Hand auger 0.0'-9.5'
2				A	--	HA	M	NA	--	--	
4											
6 / 2	**SILT (7.0'-8.5') ML** Gray, wet, soft, some fine sand, trace clay, petroleum odor						W		--	18.9	
8											
10	**SILTY CLAY (8.5'-18.0') CL** Dark gray, moist, stiff, very plastic, strong petroleum odor			B	4.8/5	HP	M	NA	--	28.3	
12											
14 / 4							M		--	58.8	
16	Grades less petroleum odor at 14.0'			C	3/5	HP	M	NA	--	>2000	
18	**SILTY SAND (18.0'-18.8') SM** Brown, moist, soft, fine grained						M		--	>2000	
20 / 6	**SILT (18.8'-22.3') ML** Brown, moist, soft, with fine sand, some clay, petroleum odor			D	4.2/5	HP	M	NA	--	1387	
22											
24	**SILTY CLAY (22.3'-23.9') CL** Gray, moist, soft, very plastic Saturated at 23.0'						M/S		--	783	

Boring/Well No.: MP-52 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-52	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**SILT (23.9'-28.2') ML** Gray, moist, soft, with clay, petroleum odor			E	3.7/5	HP	M	NA	--	>2000	
29 9	**SILTY SAND (28.2'-30.0') SM** Gray, moist, soft, fine grained, petroleum odor						M		--	>2000	
31	**SAND (30.0'-35.0') SP** Gray, wet, fine to medium grained, petroleum odor			F	4.2/5	HP	W/S	NA	--	>2000	
33	Saturated at 32.0'						S		--	>2000	
35 11	End of Boring at 35.0'										
37	**This soil boring was advanced for geologic purposes.**										
39	**See monitoring well construction forms MP-52 A, B, and C for details regarding monitoring well construction.**										
41 13											
43											
45											
47											
49 15											

Clayton
GROUP SERVICES

BORING NO: MP-53	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790296.16N, 2317250.31E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77 DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/15/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0935
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.88 (MP-53C)	FINISH DATE: 07/15/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1020

DEPTH (ft)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 (0 m)	**SILTY CLAY (0.0'-19.5') CL** Brown with orange mottles, moist		Monitoring Well MP-53 A; Monitoring Well MP-53 B; Monitoring Well MP-53 C								Hand auger 0.0'-10.0'
2							--		--	--	
4											
6 (2 m)				A	--	HA	M	NA	--	13.3	
8							M		--	7.3	*Collected sample at 12.0-14.0' for geotechnical analysis
10											
12				B	2/5	HP	--	NA	--	--	
14 (4 m)							M		--	6.7	*Collected sample at 14.0' for analysis of BETX, MTBE, and Lead
16				C	3.8/5	HP	M	NA	--	12.4	
18							M		--	>2000	*Collected sample at 19.5' for analysis of BETX, MTBE, and Lead
20 (6 m)	**SILT (19.5'-21.2') ML** Black, moist, soft, some fine sand, strong petroleum odor			D	4/5	HP	M	NA	--	1610	
22	**CLAYEY SILT (21.2'-22.5') ML** Brown with orange mottles, moist, soft, petroleum odor										*Collected sample at 22.0-24.0' for geotechnical analysis
24	**SILT (22.5'-24.5') ML** Brown, wet, soft, trace fine sand and clay						W		--	>2000	

Boring/Well No.: MP-53 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-53	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**CLAYEY SILT (24.5'-29.8') ML** Light olive brown, moist, stiff, petroleum odor		Well MP-53 C	E	4/5	HP	M	NA	--	1052	*Collected sample at 26.0-28.0' for geotechnical analysis
29							M/S		--	1976	*Collected sample at 26.0' for analysis of BETX, MTBE, and Lead
9											
31	**SAND (29.8'-35.0') SP** Brown, saturated, fine to medium grained, strong petroleum odor			F	4/5	HP	S	NA	--	>2000	
33							S		--	>2000	
35	End of Boring at 35.0'										
11											*Collected sample at 36.0-38.0' for geotechnical analysis from adjacent well
37											
39	**This soil boring was advanced for geologic purposes.**										
41	**See monitoring well construction forms MP-53 A, B, and C for details regarding monitoring well construction.**										
13											
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-54	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790299.94N, 2317417.63E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77 DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/15/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0805	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.36 (MP-54C)	FINISH DATE: 07/15/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0905	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	**FILL (0.0'-4.0')** Black silty clay and gravel		Monitoring Well MP-54 A, Monitoring Well MP-54 B, Monitoring Well MP-54 C				--		--	--	Hand auger 0.0'-10.0'
2											
4	**SILTY CLAY (4.0'-9.0') CL** Dark brown with orange mottles, moist, stiff										
6 / 2				A	--	HA	M	NA	--	14.9	
8							M		--	213	
10	**SILT (9.0'-12.5') ML** Brown, moist,with fine sand, some clay Grades wet at 11.0'			B	4.2/5	HP	M/W	NA	--	21.1	
12 / 4	**CLAYEY SILT (12.5'-19.3') ML** Brown with orange mottles, wet, soft Grades more clay at 13.4'						W		--	68.3	
14											
16				C	3.5/5	HP	W	NA	--	41.1	
18	Grades moist at 17.2'						M		--	>2000	
20 / 6	**SILT (19.3'-24.4') ML** Brown, moist, soft, with fine sand, black staining, petroleum odor			D	4/5	HP	M/S	NA	--	>2000	
22	Saturated at 22' Grades gray, strong petroleum odor at 22.2'										
24							S/M		--	432	

Boring/Well No.: MP-54 Soil Boring

Clayton
GROUP SERVICES

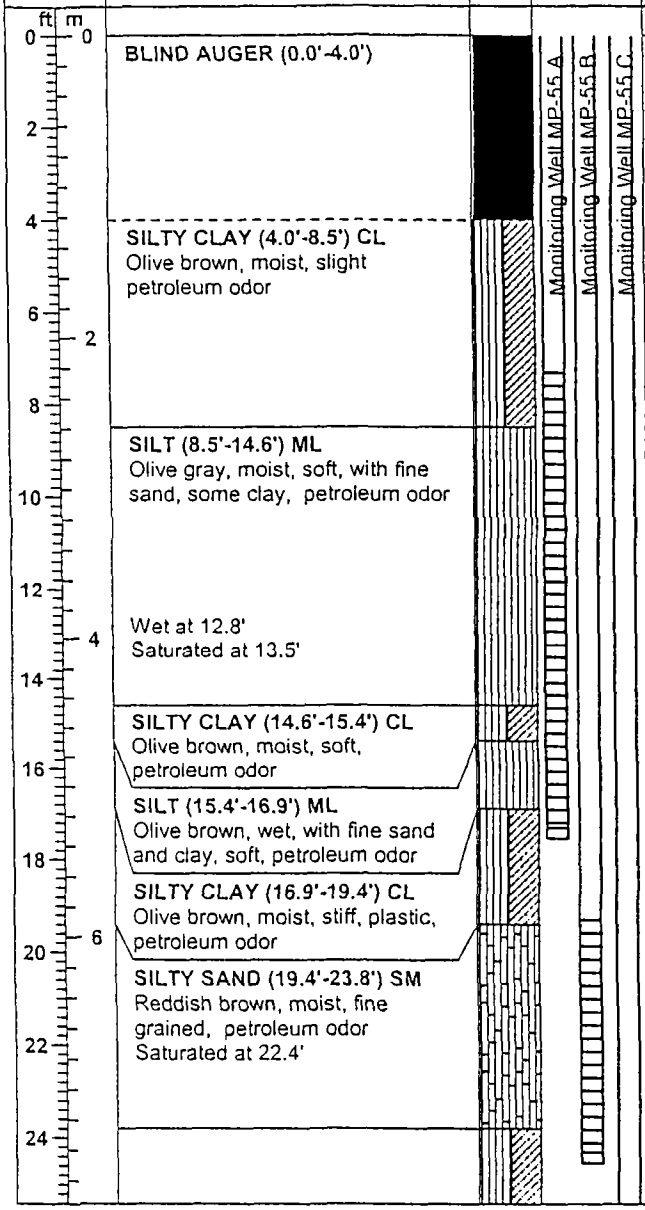
BORING NO: MP-54	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	CLAYEY SILT (24.4'-32.5') ML Gray, moist, strong petroleum odor		Monitoring Well MP-54 C	E	4.8/5	HP	M	NA	--	458	
29							M		--	744	
9											
31				F	4.9/5	HP	M	NA	--	562	
33	SILT (32.5'-32.8') ML Black, wet, strong petroleum odor						W/S		--	>2000	
35	SAND (32.8'-35.0') SP Black, saturated, fine to medium grained, strong petroleum odor										
11	End of Boring at 35.0'										
37											
39	This soil boring was advanced for geologic purposes.										
41	See monitoring well construction forms MP-54 A, B, and C for details regarding monitoring well construction.										
13											
43											
45											
47											
49											
15											

Clayton
GROUP SERVICES

BORING NO: MP-55	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790296.54N, 2317567.46E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/16/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1315
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.98 (MP-55C)	FINISH DATE: 07/16/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1400



DEPTH (ft)	DESCRIPTION	NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	SCAN	HEADSPACE	REMARKS
0	BLIND AUGER (0.0'-4.0')								Hand auger 0.0'-10.0'
					--		--	--	
4	SILTY CLAY (4.0'-8.5') CL Olive brown, moist, slight petroleum odor								
6		A	--	HA	M	NA	--	23	*Collected sample at 10.0-12.0' for geotechnical analysis
8	SILT (8.5'-14.6') ML Olive gray, moist, soft, with fine sand, some clay, petroleum odor				M		--	28.2	*Collected sample at 12.0' for analysis of Skinner List
10		B	5/5	HP	M	NA	--	65	
12	Wet at 12.8' Saturated at 13.5'				W/S		--	135	*Collected sample at 17.0-19.0' for geotechnical analysis
14	SILTY CLAY (14.6'-15.4') CL Olive brown, moist, soft, petroleum odor								
16		C	5/5	HP	M/W	NA	--	96.1	*Collected sample at 17.5' for analysis of BETX, MTBE, and Lead
18	SILT (15.4'-16.9') ML Olive brown, wet, with fine sand and clay, soft, petroleum odor SILTY CLAY (16.9'-19.4') CL Olive brown, moist, stiff, plastic, petroleum odor				M		--	>2000	
20	SILTY SAND (19.4'-23.8') SM Reddish brown, moist, fine grained, petroleum odor Saturated at 22.4'	D	5/5	HP	M	NA	--	>2000	*Collected sample at 20.0' for analysis of Skinner List
22									
24					S/M		--	542	*Collected sample at 20.0-22.0' for geotechnical analysis

Boring/Well No.: MP-55 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-55	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**SILTY CLAY (23.8'-28.9') C L** Light olive brown, moist, stiff, slight petroleum odor		Well MP-55 C	E	3/5	HP	M	NA	--	>2000	*Collected sample at 25.0' for analysis of BETX, MTBE, and Lead
29	**SILTY SAND (28.9'-29.3') SM** Reddish brown, wet, fine grained strong petroleum odor						M/W		--	>2000	*Collected sample at 26.0-28.0' for geotechnical analysis
9											
31	**SAND (29.3'-35.0') SP** Brown, saturated, fine to medium grained,black staining, strong petroleum odor			F	4.8/5	HP	S	NA	--	>2000	
33							S		--	>2000	*Collected sample at 34.0-36.0' for geotechnical analysis from adjacent well
35	End of Boring at 35.0'										
11											
37											
39	**This soil boring was advanced for geologic purposes.**										
41	**See monitoring well construction forms MP-55 A, B, and C for details regarding monitoring well construction.**										
13											
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-56	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790124.53N, 2317354.91E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller
DRILLING EQUIP: 77 DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/16/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0820
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.50 (MP-56C)	FINISH DATE: 07/16/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0920

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well MP-56-A, Monitoring Well MP-56-B, Monitoring Well MP-56-C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILTY CLAY (6.0'-7.5') CL Brown with orange mottles, moist, stiff			B	4/4	HP	M	NA	--	7.7	
8	SILT (7.5'-8.8') ML Brown, wet, some fine sand and clay, soft						W/M		--	9.4	
10	CLAYEY SILT (8.8'-10.8') ML Brown with orange mottles, moist, soft			C	4.5/5	HP	M	NA	--	9.6	
12 / 4	SILTY CLAY (10.8'-22.9') CL Gray, moist, stiff, some rust colored mottles										
14	Slight petroleum odor at 13.0'						M		--	60.3	
16				D	4.8/5	HP	M	NA	--	64.2	
18							M		--	128	
20 / 6	Grades soft, stronger petroleum odor at 19.0'			E	3.5/5	HP	M	NA	--	224	
22											
24	SILT (22.9'-28.4') ML Brown, moist, some fine sand, trace clay, strong petroleum odor						M		--	>2000	

Clayton GROUP SERVICES

BORING NO: MP-56	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	Grades gray, saturated at 25.8'		Well MP-56 C	F	4.5/5	HP	S	NA	--	>2000	
27	Grades some clay at 27.2'										
29	**CLAYEY SILT (28.4'-29.2') ML** Gray, moist, stiff, very plastic, petroleum odor						M		--	>2000	
9	**SILTY SAND (29.2'-30.8') SM** Reddish brown, moist, petroleum odor										
31	**SAND (30.8'-35.0') SP** Brown, saturated, fine to medium grained, strong petroleum odor			G	4.5/5	HP	M/S	NA	--	>2000	
33	0.2-Foot coarse sand seam at 33.7' Black staining at 34'						S		--	>2000	
35											
11	End of Boring at 35.0'										
37											
39											
41	**This soil boring was advanced for geologic purposes.**										
13	**See monitoring well construction forms MP-56 A, B, and C for details regarding monitoring well construction.**										
43											
45											
47											
49											
15											

Clayton GROUP SERVICES

BORING NO: MP-57	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789974.97N, 2317514.26E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: M. Mueller	
DRILLING EQUIP: 77 DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/15/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1055	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.31 (MP-57C)	FINISH DATE: 07/15/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1135	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.0')**		Monitoring Well MP-57 A, Monitoring Well MP-57 B, Monitoring Well MP-57 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	**SILTY CLAY (6.0'-8.5') CL** Light olive green with orange mottles, moist, stiff			B	4/4	HP	M	NA	--	10.8	
8	**SILT (8.5'-13.5') ML** Light olive green, moist,with clay, some fine sand						M		--	32.3	
10				C	3.5/5	HP	M	NA	--	217	
12	*Petroleum odor at 12.0'*										
14 / 4	**SILT (13.5'-14.2') ML** Light gray, wet, with fine sand, trace clay, petroleum odor						W/M		--	23.4	
16	**CLAYEY SILT (14.2'-18.8') ML** Brown, moist, soft, petroleum odor			D	3/5	HP	M	NA	--	478	
18							M		--	>2000	
20 / 6	**SILT (18.8'-23.8') ML** Brown, moist, with fine sand, strong petroleum odor			E	4.5/5	HP	M/S	NA	--	>2000	
22	*Saturated at 22.0'*										
24							M		--	>2000	

Boring/Well No.: MP-57 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-57	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
27	**CLAYEY SILT (23.8'-28.4') ML** Brown, moist, soft, petroleum odor 0.3-Foot silt seam, petroleum odor at 25.7'		Well MP-57 C	F	3.8/5	HP	M	NA	--	>2000	
29 – 9	**SILTY CLAY (28.4'-30.0') CL** Dark gray, moist, stiff, petroleum odor						M		--	570	
31	**CLAYEY SILT (30.0'-32.0') ML** Brown, moist, soft, petroleum odor			G	4/5	HP	M/S	NA	--	1227	
33	**SAND (32.0'-35.0') SP** Gray-brown, saturated, trace silt, strong petroleum odor						S		--	811	
35 – 11	End of Boring at 35.0'										
37											
39	**This soil boring was advanced for geologic purposes.**										
41	**See monitoring well construction forms MP-57 A, B, and C for details regarding monitoring well construction.**										
43 – 13											
45											
47											
49 – 15											

Boring/Well No.: MP-57 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-58	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789809.75N, 2317343.36E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77 DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/21/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1406
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.73 (MP-58C)	FINISH DATE: 07/21/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1500

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-7.0')		Monitoring Well MP-58 A, Monitoring Well MP-58 B, Monitoring Well MP-58 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-7.0'
7 / 2	CLAYEY SILT (7.0'-17.0') ML Brown with rust-colored mottles, moist, stiff			B	1.5/3	HP	M	NA	--	0	
							M		--	0	
				C	5/5	HP	M	NA	--	0	
13.6 / 4	Grades to black and rust-colored mottles at 13.6'						M		--	94.3	
				D	2.9/5	HP	M	NA	--	8.7	
17 / 6	SILT (17.0'-29.2') ML Light brown, moist, some fine sand, slight petroleum odor						M		--	175	

Boring/Well No.: MP-58 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-58	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22	Slight black staining, strong petroleum odor at 21.6-26.7'		Monitoring Well MP-58 C	E	3.4/5	HP	M	NA	--	444	
24							M		--	>2000	
26	Grades black, saturated at 26.7'			F	4/5	HP	M/S	NA	--	>2000	
28	0.7-Foot sand seam, fine to medium grained at 27.7'						S		--	>2000	
30	**SILTY SAND (29.2'-31.4') SM** Dark grayish black, saturated, fine grained, strong petroleum odor			G	3.5/5	HP	S	NA	--	>2000	
32	**SAND (31.4'-35.0') SW** Dark grayish black, saturated, fine to coarse grained, trace silt, strong petroleum odor 0.4-Foot silt seam, with fine sand at 32.7'						S		--	>2000	
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-58 A, B, and C for details regarding monitoring well construction.										
38											
40											

Clayton GROUP SERVICES

BORING NO: MP-59	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789808.39N, 2317047.65E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: 77 DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/21/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1610	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.46 (MP-59C)	FINISH DATE: 07/21/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1703	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-10.0')		Monitoring Well MP-59 A, Monitoring Well MP-59 B, Monitoring Well MP-59 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-9.0'
10	SILTY CLAY (10.0'-14.3') CL Brown with orange mottles, wet, stiff			B	5/5	HP	W	NA	--	0
14							W/M		--	0
	SILT (14.3'-27.5') ML Brown, moist, some fine sand			C	2.5/5	HP	M	NA	--	0
18	Black staining at 19.2-20.0'						M		--	26.2

Clayton
GROUP SERVICES

BORING NO: MP-59	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22	Grades dark gray at 22.0'		MP-59 C	D	3/5	HP	M	NA	--	584	
24	Grades black, wet, strong petroleum odor at 24.5'						M/W		--	>2000	
26 – 8				E	2.5/5	HP	W	NA	--	>2000	
28	**SAND (27.5'-35.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor Black staining from 28.8-30.0'						S		--	>2000	
30											
32	Grades dark gray at 32.0'			F	3/5	HP	S	NA	--	--	
34 – 10	Grades black at 34.5'						S		--	--	
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-59 A, B, and C for details regarding monitoring well construction.										
38											
40 – 12											

Boring/Well No.: MP-59 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-60	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789810.43N, 2317546.99E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/22/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0810
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.56 (MP-60C)	FINISH DATE: 07/22/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0915

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-7.0')		Monitoring Well MP-60 A, Monitoring Well MP-60 B, Monitoring Well MP-60 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-7.0'
2 / 6	SILT (7.0'-9.4') ML Brown with orange mottles, moist, with clay, some fine sand Grades wet at 8.6'			B	2/3	HP	M	NA	--	25.7	
							W/M		--	207	
4 / 12	SILTY CLAY (9.4'-18.5') CL Brown with orange mottles, moist, stiff Grades dark brown at 10.9'			C	5/5	HP	M	NA	--	3.8	
							M		--	19.7	
6 / 18	0.4-foot silt seam, brown, moist, some fine sand at 16.7' Grades to gray, with black and orange mottles, wet, stiff at 17.1'			D	3.3/5	HP	M	NA	--	69.8	
							W/M		--	1956	

Boring/Well No.: MP-60 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-60	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SILT (18.5'-29.5') ML Gray, moist, some fine sand, strong petroleum odor		MP-60 C	E	2.5/5	HP	M	NA	--	1039	
22											
24	Black staining at 24.0'						M		--	1871	
	Saturated at 25.4'										
26	8			F	5/5	HP	S	NA	--	>2000	
28							S		--	>2000	
30	**SAND (29.5'-30.8') SP** Gray, saturated, fine to medium grained, strong petroleum odor										
	SILT (30.8'-33.1') ML Gray, saturated, some fine sand, strong petroleum odor			G	4.2/5	HP	S	NA	--	>2000	
32	10										
34	**SAND (33.1'-35.0') SW** Gray, saturated, fine to coarse grained, strong petroleum odor						S		--	>2000	
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-60 A, B, and C for details regarding monitoring well construction.										
38											
40	12										

Clayton GROUP SERVICES

BORING NO: MP-61	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789496.80N, 2317042.58E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/22/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1310
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.33 (MP-61C)	FINISH DATE: 07/22/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1449

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-7.0')		Monitoring Well MP-61 A; Monitoring Well MP-61 B; Monitoring Well MP-61 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-7.0'
	SILT (7.0'-8.7') ML Brown, moist, some fine sand			B	2.5/3	HP	M	NA	--	4.1	
	SILT (8.7'-10.0') ML Brown with orange mottles, wet, with clay, some fine sand, stiff						W		--	6.6	
	SILTY CLAY (10.0'-18.8') CL Light gray with orange mottles, moist, stiff			C	5/5	HP	M	NA	--	3.0	
	Grades dark gray at 12.2'						M		--	6.5	
	0.3-Foot silt seam, some fine sand at 17.5' Grades light gray with orange mottles at 17.8'			D	2.3/5	HP	M	NA	--	5.8	
							W/S		--	5.1	

Boring/Well No.: MP-61 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-61	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SILT (18.8'-22.1') ML Light gray, wet, some fine sand, petroleum odor Saturated at 19.3ft		MP-61 C	E	3/5	HP	S/M	NA	--	6.8	
22	**SILT (22.1'-22.7') ML** Light gray with green mottles, moist, with clay, some fine sand, black staining, strong petroleum odor						M		--	4.4	
24	**SAND (22.7'-30.0') SP** Light gray, moist, fine to medium grained, strong petroleum odor 0.4-Foot silt seam, brown, with clay, some fine sand at 25.8'										
26 (8)	Grades dark gray, saturated at 26.5'			F	4.5/5	HP	M/S	NA	--	14.3	
28							S		--	18.8	
30	**SAND (30.0'-35.0') SW** Dark gray, saturated, fine to coarse grained			G	5/5	HP	S	NA	--	20.8	
32 (10)											
34							S		--	20.8	
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-61 A, B, and C for details regarding monitoring well construction.										
38 (12)											
40											

Boring/Well No.: MP-61 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-62	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789495.05N, 2317366.57E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/22/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1501	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.39 (MP-62C)	FINISH DATE: 07/22/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1555	

DEPTH (ft)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 (0 m)	**BLIND AUGER (0.0'-7.0')**		Monitoring Well MP-62 A; Monitoring Well MP-62 B; Monitoring Well MP-62 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-7.0'
7.0 (2 m)	**SILT (7.0'-8.6') ML** Brown with orange mottles, moist, with clay, some fine sand			B	2/3	HP	M	NA	--	18.1	
8.6	**SILTY CLAY (8.6'-16.1') CL** Brown with orange mottles, moist, stiff Grades dark brown at 10.0-12.5'						M		--	14.6	
				C	5/5	HP	M	NA	--	16.5	
							M		--	16.5	
16.1 (4 m)	**SILT (16.1'-18.4') ML** Brown with orange mottles, wet, with clay, some fine sand Gray staining, strong petroleum odor at 17.5-18.4'			D	2.5/5	HP	M/W	NA	--	17.9	
18.4 (6 m)	**SAND (18.4'-22.8') SP** Brown, wet, fine to medium grained, strong petroleum odor						W		--	23.8	

Boring/Well No.: MP-62 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-62	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			MP-62 C	E	4/5	HP	W	NA	--	36.1	
24	SAND (22.8'-32.8') SW Brown, wet, fine to coarse grained, strong petroleum odor						W		--	35.7	
26 (8)	Saturated at 26.2'			F	4.5/5	HP	W/S	NA	--	30.9	
28	Black staining at 29.0'						S		--	97	
30	Grades dark gray at 30.0'			G	5/5	HP	S	NA	--	30.3	
32 (10)	SAND (32.8'-35.0') SP Dark gray, saturated, fine to medium grained, strong petroleum odor						S		--	21.2	
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms MP-62 A, B, and C for details regarding monitoring well construction.										
38 (12)											
40											

Boring/Well No.: MP-62 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-63	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789490.44N, 2317589.66E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/22/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1615
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.62 (MP-63C)	FINISH DATE: 07/22/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1655

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-10.0')		Monitoring Well MP-63 A, Monitoring Well MP-63 B, Monitoring Well MP-63 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-10.0' Begin discreet sampling at 10.0' due to gravel falling in the boring
10	SILTY CLAY (10.0'-15.7') CL Gray with orange mottles, moist, stiff			B	5/5	HP	M	NA	--	15.7	
14							M		--	15.5	
16	CLAYEY SILT (15.7'-17.7') ML Blue-gray with orange mottles, moist, slight petroleum odor			C	5/5	HP	M	NA	--	24.9	
18	SILT (17.7'-26.8') ML Gray, moist, some fine sand, slight petroleum odor						M		--	53.1	
20											

Boring/Well No.: MP-63 Soil Boring

Clayton GROUP SERVICES

BORING NO: MP-63	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			MP-63 C	D	4/5	HP	M	NA	--	26.5	
24							M		--	43.5	
26	Grades wet at 25.2' Saturated at 26.0'			E	5/5	HP	W/S	NA	--	62.5	
8											
28	**SAND (26.8'-32.8') SP** *Gray, saturated, fine to medium grained, strong petroleum odor*						S		--	57.5	
30				F	5/5	HP	S	NA	--	36.3	
32											
10	**SAND (32.8'-35.0') SW** Gray, saturated, fine to coarse grained, strong petroleum odor						S		--	62.6	
34											
36	End of Boring at 35.0' **This soil boring was advanced for geologic purposes.** **See monitoring well construction forms MP-63 A, B, and C for details regarding monitoring well construction.**										
38											
12											
40											

Clayton
GROUP SERVICES

BORING NO: MP-64	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789662.38N, 2317577.75E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: 77DT Geoprobe Track Rig	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 07/22/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0942
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 428.96 (MP-64C)	FINISH DATE: 07/22/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1058

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-7.0')		Monitoring Well MP-64 A, Monitoring Well MP-64 B, Monitoring Well MP-64 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-7.0'
7.0	SILT (7.0'-8.9') ML Light gray, moist, with clay, some fine sand, black staining, strong petroleum odor			B	2.5/3	HP	M	NA	--	881	
8.9	SILTY CLAY (8.9'-17.5') CL Light gray with orange mottles, moist, stiff, black staining, strong petroleum odor Grades dark gray at 11.4'						M		--	374	
				C	3.5/5	HP	M	NA	--	82.4	
							M		--	897	
				D	1.5/5	HP	M	NA	--	--	
17.5	SILT (17.5'-21.1') ML Light gray with orange mottles, moist, with clay, some fine sand, black staining, strong petroleum odor						M		--	165	

Boring/Well No.: MP-64 Soil Boring

Clayton
GROUP SERVICES

BORING NO: MP-64	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
			MP-64 C								
22	**SILT (21.1'-28.2') ML** Light brown, moist, some fine sand, strong petroleum odor			E	4/5	HP	M	NA	--	94.5	
24	Black staining at 24.6'						M		--	480	
26	Grades dark gray, saturated at 26.2'			F	4/5	HP	M/S	NA	--	1990	
28	**SAND (28.2'-31.9') SW** Brown, saturated, fine to coarse grained, strong petroleum odor						S		--	>2000	
30				G	3/5	HP	S	NA	--	>2000	
32	**SAND (31.9'-34.1') SP** Brown, saturated, fine to medium grained, strong petroleum odor						S		--	>2000	
34	**SAND (34.1'-35.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor										
36	End of Boring at 35.0' This soil boring was advanced for geologic purposes.										
38	See monitoring well construction forms MP-64 A, B, and C for details regarding monitoring well construction.										
40											

8
10
12

Clayton
GROUP SERVICES

BORING NO: MP-65	WELL NO: MP-65C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789072.75N, 2316994.82E	
DRILLING CO: Terra Drill	DRILLER: T. Marlo	LOGGED BY: J. Campbell	
DRILLING EQUIP: CME Truck Mounted/HSA	SCREEN INTERVAL: 25.0-39.7'	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: PVC/0.010"	START DATE: 08/18/04	
BOREHOLE DIA: 8 inches	STICKUP: NA	START TIME (hours): 1330	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.83 (MP-65C)	FINISH DATE: 08/18/04	
RISER DIA/MTL/LGTH: 2"/PVC/24.71'	DEV. METHODS: NA	FINISH TIME (hours): 1740	

DEPTH (ft)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0	BLIND AUGER (0.0'-8.0')		Monitoring Well MP-65 A, Monitoring Well MP-65 B, Monitoring Well MP-65 C	A	--	HA	M	NA	--	--	Hand auger 0.0'-8.0'
				B	--	HA	M	NA	--	--	
				C	--	HA	M	NA	--	--	*Collected sample at 8.0-10.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
				D	--	HA	M	NA	--	--	
8	SILTY CLAY (8.0'-10.0') CL Brown, moist, trace coarse sand, soft,k cohesive, medium plasticity, mottled			E	1.3/2	SS	M	NA	--	0	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, and Lead
10	SAND (10.0'-13.0') SP Brown, moist, loose, fine grained, with silt, well sorted			F	1.5/2	SS	M	NA	--	0.9	
12				G	2/2	SS	M/S	NA	--	0	*Collected sample at 14.0-16.0' for geotechnical analysis
14	SILT (13.0'-17.0') ML Brown, saturated, loose, with fine sand			H	1.5/2	SS	S	NA	--	0	
16				I	1.2/2	SS	S/M	NA	--	0	*Collected sample at 20.0-22.0' for analysis of BETX, MTBE, and Lead
18	SILTY SAND (17.0'-20.0') SM Brown, moist, loose, fine grained, some clay			J	1.8/2	SS	M	NA	--	1.7	*Collected sample at 20.0-22.0' for geotechnical analysis
20				K	1.5/2	SS	M	NA	--	0	
22											

Boring/Well No.: MP-65

Clayton
GROUP SERVICES

BORING NO: MP-65	WELL NO: MP-65C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SAND (20.0'-34.0') SP Brown, moist, loose, fine grained, trace silt		MP-65 C	L	1.8/2	SS	M	NA	--	0.7	
24				M	1.5/2	SS	M	NA	--	0	
26 – 8				N	1.5/2	SS	M	NA	--	0	
28	Grades to medium grained at 26.0'			O	2/2	SS	W	NA	--	0	
30	Grades wet at 28.0'			P	1.5/2	SS	S	NA	--	0	
32	Grades saturated at 30.0'			Q	2/2	SS	S	NA	--	0	
34 – 10	**BLIND AUGER (34.0'-40.0')**			R	--	SS	S	NA	--	0	
36				S	--	SS	S	NA	--	--	
38				T	--	SS	S	NA	--	--	
40 – 12	End of Boring at 40.0'										
42	See monitoring well construction forms MP-65 A, B, and C for details regarding monitoring well construction.										
44											

Clayton
GROUP SERVICES

BORING NO: MP-66	WELL NO: MP-66C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 788860.33N, 2317425.79E	

DRILLING CO: Terra Drill	DRILLER: T. Marlo	LOGGED BY: H. Mendygral
DRILLING EQUIP: CME Truck Mounted/HSA	SCREEN INTERVAL: 25.0-39.7'	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: PVC/0.010"	START DATE: 08/20/04
BOREHOLE DIA: 8 inches	STICKUP: NA	START TIME (hours): 0805
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.12 (MP-66C)	FINISH DATE: 08/20/04
RISER DIA/MTL/LGTH: 2"/PVC/24.67'	DEV. METHODS: NA	FINISH TIME (hours): 900

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**SILTY CLAY (0.0'-9.7') CL** Medium brown with gray mottles, moist, some fine sand and gravel, no odor		Monitoring Well MP-66 A, Monitoring Well MP-66 B, Monitoring Well MP-66 C	A	--	HA	M	NA	--	0	Hand auger 0.0'-6.0'
2				B	--	HA	M	NA	--	0	
4				C	--	HA	M	NA	--	0	
6 / 2				D	2/2	SS	M	NA	--	0	*Collected sample at 6.0-8.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
8				E	1.8/2	SS	M	NA	--	0	
10	**CLAYEY SILT (9.7'-11.5') ML** Medium brown with gray mottles, moist, stiff, trace fine sand, no door			F	1.5/2	SS	M	NA	--	0	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, and Lead
12 / 4	**SILTY SAND (11.5'-14.0') SM** Medium brown, moist, fine grained, trace clay			G	1.9/2	SS	M	NA	--	0	*Collected sample at 12.0-14.0' for geotechnical analysis
14	**SAND (14.0'-34.0') SP** Light brown, moist, fine grained, some silt			H	2/2	SS	M	NA	--	0.2	
16	Grades some clay at 17.7-18.6'			I	2/2	SS	M	NA	--	0	
18				J	1.7/2	SS	M	NA	--	0	
20 / 6											

Clayton GROUP SERVICES

BORING NO: MP-66	WELL NO: MP-66C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			MP-66 C	K	2/2	SS	M	NA	--	0	*Collected sample at 20.0-22.0' for analysis of BETX, MTBE, and Lead
				L	1/2	SS	M	NA	--	0	
24				M	2/2	SS	M/W	NA	--	0	*Collected sample at 22.0-22.5' for geotechnical analysis
26	0.2-Foot silty clay seam, gray, wet, soft at 25.7'			N	1.8/2	SS	W	NA	--	0.4	
8	Grades fine to medium grained at 27.2'										
28	Grades saturated at 28.5'			O	2/2	SS	S	NA	--	0.5	
30				P	2/2	SS	S	NA	--	0	
32	Grades gray, fine grained at 33.0'			Q	2/2	SS	S	NA	--	0	
10											
34	End of Boring at 34.0'										
36	See monitoring well construction forms MP-66 A, B, and C for details regarding monitoring well construction.										
38											
12											
40											

Clayton
GROUP SERVICES

BORING NO: MP-67	WELL NO: MP-67C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789083.74N, 2317850.18E	

DRILLING CO: Terra Drill	DRILLER: T. Marlo	LOGGED BY: J. Campbell
DRILLING EQUIP: CME Truck Mounted/HSA	SCREEN INTERVAL: 25.0-39.7'	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: PVC/0.010"	START DATE: 08/19/04
BOREHOLE DIA: 8 inches	STICKUP: NA	START TIME (hours): 1035
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.54 (MP-67C)	FINISH DATE: 08/19/04
RISER DIA/MTL/LGTH: 2"/PVC/24.65'	DEV. METHODS: NA	FINISH TIME (hours): 1530

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**SILTY CLAY (0.0'-5.0') CL** Brown, moist		Monitoring Well MP-67 A, Monitoring Well MP-67 B, Monitoring Well MP-67 C	A	--	HA	M	NA	--	--	Hand auger 0.0'-8.0'
6 / 2	**SANDY SILT (5.0'-8.0') ML** Brown, moist										*Collected sample at 6.0-8.0' for analysis of BETX, MTBE, and Lead
8	**CLAYEY SILT (8.0'-10.2') ML** Brown, moist, cohesive, soft, medium plasticity			B	1.5/2	SS	M	NA	--	0	*Collected sample at 8.0-10.0' for geotechnical analysis
10	**SILTY CLAY (10.2'-17.0') CL** Brown mottled gray, moist, cohesive, high plasticity			C	1.8/2	SS	M	NA	--	0	
12 / 4	Grades dark gray at 12.0'			D	2/2	SS	M	NA	--	0	*Collected sample at 14.0-16.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
14				E	1.2/2	SS	M	NA	--	2.3	
16				F	2/2	SS	M	NA	--	0	
18	**CLAYEY SILT (17.0'-19.5') ML** Brown, wet, cohesive, very soft			G	1.5/2	SS	W	NA	--	0	
20 / 6				H	1/2	SS	W	NA	--	1.2	*Collected sample at 20.0-22.0' for analysis of BETX, MTBE, and Lead
22				I	--	SS	--	NA	--	--	
24											

Clayton
GROUP SERVICES

BORING NO: MP-67	WELL NO: MP-67C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SAND (19.5'-32.0') SP Brown, wet, fine grained, some medium grained, loose			J	1/2	SS	W	NA	--	0	*Collected sample at 23.0-23.5' for geotechnical analysis
26				K	1.5/2	SS	W	NA	--	0	
28	Saturated at 29.0'			L	1/2	SS	W/S	NA	--	--	
9 30				M	1/2	SS	S	NA	--	--	
32	**BLIND DRILL (32.0'-45.0')**										
34											
36 11											
38											
40											
42											
13 44											
46	End of Boring at 45.0'										
48	See monitoring well construction forms MP-67 A, B, and C for details regarding monitoring well construction.										

Clayton
GROUP SERVICES

BORING NO: HMW-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791606.92N, 2316448.39E (HMW-38C)	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/03/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0747
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.43 (HMW-38C)	FINISH DATE: 08/03/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1007

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well HMW-38 A, Monitoring Well HMW-38 B, Monitoring Well HMW-38 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILTY CLAY (6.0'-9.5') CL Gray with brown/orange mottles, moist, stiff, slight petroleum odor			B	1.5/2	HP	M	NA	--	29.3	*Collected sample at 6.0-8.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
8				C	2.5/4	HP	M	NA	--	95.4	
10	SILT (9.5'-16.5') ML Brown with orange mottles, moist, with clay, some fine sand, slight petroleum odor						M		--	68.9	*Collected sample at 12.0-14.0' for analysis of BETX, MTBE, and Lead
12 / 4				D	4/4	HP	M	NA	--	55.4	
14	Grades to strong petroleum odor at 15.2'						M/W		--	45.8	* Collected sample at 14.0-16.0' for geotechnical analysis
16	CLAYEY SILT (16.5'-29.9') ML Brown with gray and orange mottles, wet, some fine sand, strong petroleum odor Grades moist at 17.3'			E	3.4/4	HP	W/M	NA	--	191	
18							M		--	135	
20 / 6											

Boring/Well No.: HMW-38 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			Well HMW-38 B Well HMW-38 C	F	4/4	HP	M	NA	--	402	
							M		--	1997	
24	0.5-Foot silt sand seam at 24.0' Grades wet at 25.1-25.5'			G	4/4	HP	M/W	NA	--	>2000	*Collected sample at 26.0-28.0' for analysis of Skinner List
26	8						M		--	1970	
28				H	4/4	HP	M	NA	--	1124	
30	SILTY CLAY (29.9'-33.1') CL Gray with orange mottles, moist, stiff, strong petroleum odor						M		--	1783	* Collected sample at 30.0-32.0' for geotechnical analysis
32	10			I	3/4	HP	M/S	NA	--	1962	
34	SAND (33.1'-44.0') SW Brown, saturated, fine to coarse grained, strong petroleum odor						S		--	>2000	
36				J	3/4	HP	S	NA	--	1535	
38	12						S		--	429	
40											

Boring/Well No.: HMW-38 Soil Boring

Clayton
GROUP SERVICES

BORING NO: HMW-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42				K	4/4	HP	S	NA	--	29.8	
							S		--	17.5	
44	End of Boring at 44.0' This soil boring was advanced for geologic purposes. *See related monitoring well* construction forms HMW-38 A, B, and C for details regarding monitoring well construction.										
46 (14)											
48											
50											
52 (16)											
54											
56											
58 (18)											
60											

Clayton
GROUP SERVICES

BORING NO: HMW-39	WELL NO: HMW-39C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791067.84N, 2316262.86E	
DRILLING CO: PSC	DRILLER: J. Bignall	LOGGED BY: H. Mendygral	
DRILLING EQUIP: D-150 / HSA	SCREEN INTERVAL: 32.0-42.0'	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: PVC/0.010"	START DATE: 08/30/04	
BOREHOLE DIA: 8.25 inches	STICKUP: NA	START TIME (hours): 0815	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 426.79 (HMW-39C)	FINISH DATE: 08/30/04	
RISER DIA/MTL/LGTH: 2"/PVC/31.17'	DEV. METHODS: NA	FINISH TIME (hours): 1055	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**TOPSOIL (0.0'-1.0')** Dark brown, moist, some fine sand and gravel, roots		Monitoring Well HMW-39 A; Monitoring Well HMW-39 B; Monitoring Well HMW-39 C								Hand auger 0.0'-6.0'
2	**SILTY CLAY (1.0'-8.5') CL** Brown with light brown mottles, moist, trace fine sand, pliable, no door			A	--	HA	--	NA	--	0	
4	Grades gray with light brown mottles at 4.0'										*Collected sample at 6.0-8.0', 8.0-10.0', 12.0-13.0', and 14.0-15.0' for analysis of BETX, MTBE, and Lead
6 / 2	Grades to light brown at 6.0'			B	2/2	SS	M	NA	--	0	
8	**SILT (8.5'-10.2') ML** Medium olive brown, moist, some clay, trace fine sand			C	2/2	SS	M	NA	--	5.0	*Collected sample at 6.0-8.0', 8.0-10.0', 10.0-12.0', and 18.0-20.0' for geotechnical analysis
10	**CLAYEY SILT (10.2'-13.1') ML** Medium to dark brown, moist, trace fine sand			D	1.8/2	SS	M	NA	--	5.9	
12	Grades to light brown at 12.1'										
4 / 14	**SAND (13.1'-15.7') SP** Light brown, moist, fine grained Grades wet at 15.5'			E	1.9/2	SS	M	NA	--	6.7	
				F	1.8/2	SS	M/W	NA	--	12.5	
16	**SILTY SAND (15.7'-21.5') SM** Light brown, moist, fine grained, trace clay, no odor			G	1.8/2	SS	M	NA	--	14.7	
18				H	2/2	SS	M	NA	--	13.8	
6 / 20											

Boring/Well No.: HMW-39 Soil Boring

Clayton
GROUP SERVICES

BORING NO: HMW-39 | WELL NO: HMW-39C | PROJECT NO: 15-03095.13-002 | PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
			HMW-39 B, HMW-39 C	I	2/2	SS	M/W	NA	--	6.5	
22	**SILTY CLAY (21.5'-22.0') CL** Gray, wet, very pliable, no odor										
	SAND (22.0'-29.4') SP Light brown, saturated, fine grained, some silt, no odor			J	1.7/2	SS	S	NA	--	8.1	*Collected sample at 21.0-22.0' and 26.0-28.0', for geotechnical analysis
24				K	1.6/2	SS	S	NA	--	14.5	
26	Grades gray at 26.5'			L	1.9/2	SS	S	NA	--	13.2	
8											
28				M	2/2	SS	S/M	NA	--	14.5	*Collected sample at 29.0-30.0' for analysis of BETX, MTBE, and Lead
30	**SILTY CLAY (29.4'-31.8') CL** Gray, moist, trace fine sand, pliable, no odor			N	--/2	SS	M/W	NA	--	18.7	*Collected sample at 30.0-32.0' for geotechnical analysis
32	**SILTY SAND (31.8'-33.8') SM** Gray, wet, fine grained, no odor			O	1/2	SS	W/S	NA	--	12.2	
10											
34	**SAND (33.8'-36.0') SW** Gray, saturated, fine to medium grained, some silt, no odor			P	2/2	SS	S	NA	--	13.6	*Collected sample at 34.0-36.0' for geotechnical analysis
36	End of Boring at 36.0'										
38											
12											
40											

Clayton
GROUP SERVICES

BORING NO: HMW-39	WELL NO: HMW-39C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42	See monitoring well construction forms HMW-39 A, B, and C for details regarding monitoring well construction.										
44											
46 – 14											
48											
50											
52 – 16											
54											
56											
58											
18											
60											

Clayton GROUP SERVICES

BORING NO: HMW-40	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790695.95N, 2316353.97E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/03/04
BOREHOLE DIA: 3 inches	STICKUP: NA	START TIME (hours): 1338
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 425.26 (HMW-40C)	FINISH DATE: 08/03/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1430

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.0')**		Monitoring Well HMW-40 A, Monitoring Well HMW-40 B, Monitoring Well HMW-40 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	**SILT (6.0'-8.0') ML** Brown, moist, some clay and fine sand			B	1.5/2	HP	M	NA	--	25.9	*Collected sample at 8.0-10.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
8	**CLAYEY SILT (8.0'-14.7') ML** Brown with gray and orange mottles, moist, some fine sand Grades wet from 9.4-10.5' 0.7-Foot sandy silt seam at 11.6'			C	4/4	HP	M/W	NA	--	43.3	
							W/M		--	1.4	*Collected sample at 12.0-14.0' for analysis of BETX, MTBE, and Lead
12 / 4				D	3.5/4	HP	M	NA	--	1.1	
14	**SANDY SILT (14.7'-17.7') ML** Brown, moist, fine grained						M		--	0.6	* Collected sample at 14.0-16.0' for geotechnical analysis
16				E	3.5/4	HP	M	NA	--	2.6	
18 / 6	**SAND (17.7'-32.0') SW** Brown, moist, fine to medium grained Grades dark brown staining at 19.3-19.5'						M		--	2.0	
20											

Clayton GROUP SERVICES

BORING NO: HMW-40	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
			Well HMW-40 C	F	3/4	HP	M	NA	--	0.9	
22							M		--	0.7	*Collected sample at 22.0-24.0' for analysis of BETX, MTBE, and Lead
24				G	2.5/4	HP	M	NA	--	2.5	
26 (8)	Saturated at 26.0'						S		--	1.7	
28				H	3/4	HP	S	NA	--	1.6	
30	Grades gray at 30.3'						S		--	2.4	
32 (10)	End of Boring at 32.0' This soil boring was advanced for geologic purposes. See related monitoring well construction forms HMW-40 A, B, and C for details regarding monitoring well construction.										
34											
36											
38											
40 (12)											

Clayton GROUP SERVICES

BORING NO: HMW-41	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789980.76N, 2316662.51E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/04/04
BOREHOLE DIA: 3 inches	STICKUP: NA	START TIME (hours): 1035
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 426.04 (HMW-41C)	FINISH DATE: 08/04/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1122

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well HMW-41 A, Monitoring Well HMW-41 B, Monitoring Well HMW-41 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILTY CLAY (6.0'-15.2') CL Gray with orange mottles, moist, stiff, some fine sand, slight petroleum odor			B	1/2	HP	M	NA	--	25.7	
8				C	3/4	HP	M	NA	--	29.7	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
10							M		--	29.3	
12 / 4	Grades wet at 13.3-15.2'			D	3/4	HP	M	NA	--	22.2	
14							W/M		--	26.7	*Collected sample at 15.0-16.0' for analysis of BETX, MTBE, and Lead
16	SAND (15.2'-16.9') SP Brown, moist, fine to medium grained										
18	SILT (16.9'-17.5') ML Brown, moist, with fine sand			E	3.2/4	HP	M/W	NA	--	34.2	
	SILTY CLAY (17.5'-18.5') CL Brown, orange and gray mottles, wet, black staining at 18.4'						W		--	35.5	* Collected sample at 15.0-17.0' for geotechnical analysis
20 / 6											

Clayton GROUP SERVICES

BORING NO: HMW-41	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	SILT (18.5'-21.1') ML Brown, orange and gray mottles, wet, with clay, some fine sand		Well HMW-41 C	F	3.5/4	HP	W/S	NA	--	31.1	
22	**SILT (21.1'-31.6') ML** Dark gray, saturated, with fine sand, strong petroleum odor						S		--	48.4	
24				G	3.9/4	HP	S	NA	--	59.5	* Collected sample at 22.0-24.0' for geotechnical analysis
26 8	Grades to with clay at 26.4'						S		--	91.2	
28	Grades to with fine sand at 28.2'			H	4/4	HP	S	NA	--	165	
30							S		--	53.5	
32 10	**SILTY CLAY (31.6'-33.4')** Gray, saturated, strong petroleum odor			I	4/4	HP	S	NA	--	24.7	
34	**SAND (33.4'-36.0') SP** Gray, saturated, fine to medium grained, strong petroleum odor						S		--	18.6	* Collected sample at 35.0-35.5' for geotechnical analysis
36	End of Boring at 36.0'										
38 12 40											

Clayton
GROUP SERVICES

BORING NO: HMW-41	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42	This soil boring was advanced for geologic purposes. See related monitoring well construction forms HMW-41 A, B, and C for details regarding monitoring well construction.										
44											
46 – 14											
48											
50											
52 – 16											
54											
56											
58											
18											
60											

Clayton GROUP SERVICES

BORING NO: HMW-42	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789597.40N, 2317011.17E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/04/04
BOREHOLE DIA: 3 inches	STICKUP: NA	START TIME (hours): 1350
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.80 (HMW-42B)	FINISH DATE: 8/04/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1500

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-7.0')		Monitoring Well HMW-42 A; Monitoring Well HMW-42 B	A	--	HA	--	NA	--	--	Hand auger 0.0'-7.0'
7 / 2	SILT (7.0'-9.9') ML Brown, wet, with fine sand			B	1/3	HP	W	NA	--	18.3	
	Grades to with clay at 8.0'			C	3/4	HP	W/M	NA	--	22.3	
10	SILTY CLAY (9.9'-17.2') CL Brown with orange and gray mottles, moist, stiff						M		--	23.6	
13 / 4	0.4-Foot silt with fine sand seam at 13.6'			D	2.3/4	HP	M	NA	--	19.7	
	Grades dark gray at 15.6'						M		--	22.1	*Collected sample at 14.0-16.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
				E	4/4	HP	M	NA	--	24.3	
18	SILT (17.2'-23.2') ML Blue-green with orange mottles, moist, with clay, some fine sand 0.8-Foot clayey silt seam at 19.5'						M		--	25.0	
20 / 6	Grades wet at 20.5'			F	3.8/4	HP	W	NA	--	31.8	
22											

Clayton
GROUP SERVICES

BORING NO: HMW-42	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
							W		--	39.8	*Collected sample at 23.0-24.0' for analysis of BETX, MTBE, and Lead
24	SAND (23.2'-33.3') SP Brown, wet, fine to medium grained, some silt Grades saturated at 25.6'			G	2.2/4	HP	W/S	NA	--	25.7	
26 8							S		--	37.8	* Collected sample at 24.5-25.0' for geotechnical analysis
28				H	3/4	HP	S	NA	--	42.4	
30							S		--	91.6	
32 10				I	3/4	HP	S	NA	--	273	
34	SAND (33.3'-36.0') SW Brown, saturated, fine to coarse grained						S		--	>2000	
36	End of Boring at 36.0'										
38 12	This soil boring was advanced for geologic purposes. See monitoring well construction forms HMW-42 A and B for details regarding monitoring well construction.										
40											
42											
44											

Clayton GROUP SERVICES

BORING NO: HMW-43	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789268.56N, 2317779.81E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: S. Peterson	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/04/04	
BOREHOLE DIA: 3 inches	STICKUP: NA	START TIME (hours): 1510	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.19 (HMW-43C)	FINISH DATE: 08/04/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1616	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.5')		Monitoring Well HMW-43 A, Monitoring Well HMW-43 B, Monitoring Well HMW-43 C								Hand auger 0.0'-6.5'
				A	--	HA	--	NA	--	--	* Collected sample at 6.0-8.0' for geotechnical analysis
2	SILTY CLAY (6.5'-7.9') CL Brown, moist, stiff			B	1.5/1.5	HP	M	NA	--	4.4	*Collected sample at 7.0-8.0' for analysis of BETX, MTBE, and Lead
	SILT (7.9'-11.8') ML Brown, moist, with clay			C	4/4	HP	M	NA	--	5.3	
	Grades gray at 10.9'					HP	M		--	15.0	
	SILT (11.8'-17.3') ML Gray, wet, with fine sand			D	4/4	HP	W	NA	--	77.7	* Collected sample at 12.0-14.0' for BTEX, MTBE, Lead, and geotechnical analysis
	Grades saturated at 14.7'					HP	S		--	71.6	
				E	4/4	HP	W	NA	--	740	
	CLAYEY SILT (17.3'-22.1') ML Brown, orange and gray mottles, wet, strong petroleum odor					HP	W		--	1824	
6	0.4-Foot silt with fine sand seam at 21.2'			F	3/4	HP	W	NA	--	560	

Clayton GROUP SERVICES

BORING NO: HMW-43	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	SILTY CLAY (22.1'-24.8') CL Brown with orange and brown mottles, wet, stiff, strong petroleum odor		Well HMW-43 C			HP	W		--	>2000	*Collected sample at 22.0-24.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
24	Grades gray at 23.5'										
	CLAYEY SILT (24.8'-28.4') ML Brown with orange mottles, wet, strong petroleum odor			G	4/4	HP	W	NA	--	>2000	
26 8						HP	W		--	>2000	
28	**SILTY CLAY (28.4'-30.1') CL** Gray, wet, stiff, strong petroleum odor			H	4/4	HP	W	NA	--	>2000	
30	**CLAYEY SILT (30.1'-31.5') ML** Brown, wet, strong petroleum odor					HP	W/S		--	129	
32	**SILTY SAND (31.5'-32.8') SM** Brown, saturated, fine to medium grained, strong petroleum odor										
10	**SAND (32.8'-36.0') SP** Brown, saturated, fine to medium grained, strong petroleum odor			I	3.2/4	HP	S	NA	--	>2000	
34						HP	S		--	74.6	
36	End of Boring at 36.0'										
38	This soil boring was advanced for geologic purposes.										
12	See monitoring well construction forms HMW-43 A, B, and C for details regarding monitoring well construction.										
40											
42											
44											

Clayton GROUP SERVICES

BORING NO: HMW-44	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790122.87N, 2317681.75E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/05/04	
BOREHOLE DIA: 3 inches	STICKUP: NA	START TIME (hours): 0747	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.78 (HMW-44C)	FINISH DATE: 08/05/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0925	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.0')**		Monitoring Well HMW-44 A, Monitoring Well HMW-44 B, Monitoring Well HMW-44 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	**CLAYEY SILT (6.0'-8.5') ML** Brown, with orange mottles, moist, strong petroleum odor			B	2/2	HP	M	NA	--	1556	*Collected sample at 6.0-8.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
8	**SILT (8.5'-9.3') ML** Brown, wet, with fine sand, strong petroleum odor			C	4/4	HP	MW	NA	--	1448	
10	**SILT (9.3'-10.4') ML** Blue-gray with orange mottles, wet, some clay and fine sand, strong petroleum odor						W		--	1847	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
12 / 4	**SILT (10.4'-16.3') ML** Brown, wet, with fine sand, strong petroleum odor			D	4/4	HP	W/S	NA	--	1839	
14	Grades some clay from 12.0-12.4'						S		--	1574	*Collected sample at 16.0-18.0' for analysis of Skinner List and geotechnical analysis
16	Grades with orange mottles, saturated, some clay at 13.6'										
18	**CLAYEY SILT (16.3'-19.2') ML** Blue-gray with orange mottles, wet, strong petroleum odor			E	3.5/4	HP	W	NA	--	1440	
							W		--	1170	*Collected sample at 20.0-22.0' for analysis of Skinner List and geotechnical analysis
20 / 6	**SILT (19.2'-23.5') ML** Brown, wet, with fine sand, strong petroleum odor			F	4/4	HP	W	NA	--	1714	
22	Grades saturated at 22.0'										

Clayton
GROUP SERVICES

BORING NO: HMW-44 | WELL NO: NA | PROJECT NO: 15-03095.13-002 | PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
			Well HMW-44 C				S/W		--	1640	
24	**CLAYEY SILT (23.5'-24.6') ML** Brown with orange mottles, wet, strong petroleum odor										
	SILTY CLAY (24.6'-28.0') CL Blue-gray with orange mottles, moist, stiff, strong petroleum odor			G	3.8/4	HP	W/M	NA	--	1206	
26 8							M		--	1739	*Collected sample at 26.0-28.0' for analysis of *Skinner List* and geotechnical analysis
28	**SILTY SAND (28.0'-30.8')** Brown, saturated, fine to medium grained, strong petroleum odor			H	4/4	HP	S	NA	--	1059	
30							W		--	>2000	
	SILT (30.8'-32.8') ML Brown, wet,trace clay and fine sand, strong petroleum odor (Driller notes free product in sample tube at 32.0-32.8')										
32 10	**SAND (32.8'-34.2') SP** Brown, saturated, fine to medium grained, strong petroleum odor			I	3.5/4	HP	S	NA	--	1110	
34	**SAND (34.2'-36.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor						S		--	>2000	
36	End of Boring at 36.0' This soil boring was advanced for geologic purposes. See monitoring well construction forms HMW-44 A, B, and C for details regarding monitoring well construction.										
38 12											
40											
42											
44											

Clayton GROUP SERVICES

BORING NO: HMW-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791398.23N, 2316721.27E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/04/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0817	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.56 (HMW-45C)	FINISH DATE: 08/04/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0955	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-8.0')		Monitoring Well HMW-45 A, Monitoring Well HMW-45 B, Monitoring Well HMW-45 C								Hand auger 0.0'-8.0'
4				A	--	HA	--	NA	--	--	
6 / 2											* Collected sample at 8.0-10.0' for geotechnical analysis
8	FILL (8.0'-9.2') Dark brown clayey silt, moist, fine to coarse gravel, brick fragments, black staining			B	4/4	HP	M	NA	--	19.7	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, and Lead
10	SILTY CLAY (9.2'-10.6') CL Brown with orange mottles, moist, stiff, strong petro. odor						M		--	10.9	
12	CLAYEY SILT (10.6'-11.3') ML Brown with orange mottles, moist, strong petroleum odor			C	4/4	HP	M	NA	--	31.7	*Collected sample at 12.0-14.0' for analysis of BETX, MTBE, and Lead
4 / 14	SILT (11.3'-13.1') ML Brown with orange mottles, moist, with clay, some fine sand, strong petroleum odor										
16	SILT (13.1'-17.4') ML Gray, wet, with fine sand, strong petroleum odor Black staining at 14.7-15.3'						W		--	16.1	* Collected sample at 14.0-15.0' for geotechnical analysis
				D	3.5/4	HP	W	NA	--	10.2	
18	CLAYEY SILT (17.4'-22.1') ML Gray, wet, strong petroleum odor										
6 / 20							W		--	30.4	

Boring/Well No.: HMW-45 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
22			Well HMW-45 B Well HMW-45 C	E	2.5/4	HP	W/M	NA	--	12.0	*Collected sample at 22.0-24.0' for analysis of Skinner List and 21.0 - 23.0' for geotechnical analysis
	SILTY CLAY (22.1'-23.7') CL Gray with orange mottles, moist, stiff, strong petroleum odor						M/S		--	487	
24	**SILT (23.7'-28.2') ML** Gray, saturated, with clay and fine sand, strong petroleum odor 0.4-Foot silty clay seam at 26.2'			F	3.7/4	HP	S	NA	--	1098	* Collected sample at 24.0-26.0' for geotechnical analysis
26 – 8							S		--	662	
28	**SILTY CLAY (28.2'-31.4')** Gray with orange mottles, moist, stiff, strong petroleum odor			G	3.8/4	HP	M	NA	--	100	*Collected sample at 28.0-30.0' for analysis of Skinner List and geotechnical analysis
30							M/W		--	1509	
32	**SAND (31.4'-32.5') SP** Brown, wet, fine to medium grained sand, some silt, strong petroleum odor										
10	**SAND (32.5'-36.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor			H	3.8/4	HP	S	NA	--	1939	
34							S		--	>2000	
36	End of Boring at 36.0'										
38											
12											
40											

Clayton
GROUP SERVICES

BORING NO: HMW-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	This soil boring was advanced for geologic purposes. See monitoring well construction forms HMW-45 A, B, and C for details regarding monitoring well construction.										
42											
44											
46	14										
48											
50											
52	16										
54											
56											
58	18										
60											

Clayton
GROUP SERVICES

BORING NO: HMW-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791606.83N, 2316601.13E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/02/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1627
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.87 (HMW-46C)	FINISH DATE: 08/02/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1748

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well HMW-46 A, Monitoring Well HMW-46 B, Monitoring Well HMW-46 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILTY CLAY (6.0'-11.2') CL Brown with orange mottles, moist, stiff, some fine sand, slight petroleum odor			B	1.8/2	HP	M	NA	--	23.3	*Collected sample at 8.0-10.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
10				C	3/4	HP	M	NA	--	42.7	
							M		--	61.9	
12 / 4	SILT (11.2'-17.6') ML Gray with orange mottles, moist, with clay, some fine sand Grades to with fine sand at 12.8' 0.4-Foot silty clay seam at 13.2' Wet at 13.6' 0.3-Foot silty clay seam at 14.0' Saturated from 15.7 to 17.4'			D	3/4	HP	M/W	NA	--	114	*Collected sample at 12.0-14.0' for analysis of Skinner List and 12.5'-13.0' for geotechnical analysis
14							W/S		--	748	
16				E	4/4	HP	S	NA	--	470	* Collected sample at 14.0-16.0' for geotechnical analysis
18 / 6	CLAYEY SILT (17.6'-26.7') ML Gray with orange mottles, moist, strong petroleum odor						M		--	1277	
20											

Boring/Well No.: HMW-46 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			Well HMW-46 B Well HMW-46 C	F	4/4	HP	M	NA	--	746	*Collected sample at 22.0-24.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
							M		--	1194	
24											
	0.3-Foot sandy silt seam, with fine sand at 25.3'			G	4/4	HP	M	NA	--	595	
26											
8											
	SILTY CLAY (26.7'-32.0') CL Gray with orange mottles, moist, stiff						M		--	468	
28				H	4/4	HP	M	NA	--	1361	* Collected sample 28.0-30.0' for geotechnical analysis
30							M		--	112	
32											
10	NO RECOVER (32.0'-36.0') (Adjacent well boring identified soils at this depth to be a well graded sand (SW)).			I	0/4	HP	--	NA	--	--	
34							--		--	--	
36	SAND (36.0'-44.0') SW Brown, saturated, fine to coarse grained, strong petroleum odor			J	2/4	HP	S	NA	--	1225	
38							S		--	1086	
12											
40											

Clayton GROUP SERVICES

BORING NO: HMW-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
				K	2/4	HP	S	NA	--	1427	
42							S		--	77.7	
44	End of Boring at 44.0'										
46 14	This soil boring was advanced for geologic purposes.										
	See related monitoring well construction forms HMW-46 A, B, and C for details regarding monitoring well construction.										
48											
50											
52 16											
54											
56											
58											
18 60											

Clayton GROUP SERVICES

BORING NO: HMW-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791607.38N, 2316789.67E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/02/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1353	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.81 (HMW-47C)	FINISH DATE: 08/02/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1602	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well HMW-47 A, Monitoring Well HMW-47 B, Monitoring Well HMW-47 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILTY CLAY (6.0'-8.0') CL Dark gray with black mottles, moist			B	1.5/2	HP	M	NA	--	19.1	
8	SILT (8.0'-10.3') ML Light brown with orange mottles, wet, with clay and fine to medium sand, strong petroleum odor			C	4/4	HP	W/M	NA	--	17.8	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
10	CLAYEY SILT (10.3'-13.6') ML Gray with orange mottles, moist, with fine sand, slight petroleum odor						M		--	24.6	
12 / 4				D	3/4	HP	M/S	NA	--	11.7	
14	SILT (13.6'-19.3') ML Brown, saturated, some fine sand Grades moist at 14.9-16.8'						S		--	20.2	*Collected sample at 14.0-16.0' for analysis of Skinner List
16				E	3.5/4	HP	S	NA	--	24.4	
18							S/M		--	21.7	* Collected sample at 17.0-17.5' for geotechnical analysis
20 / 6											

Clayton GROUP SERVICES

BORING NO: HMW-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	CLAYEY SILT (19.3'-30.9') ML Brown with orange mottles, moist, some fine sand, strong petroleum odor Saturated from 21.6-22.6'		Monitoring Well HMW-47 B	F	3.4	HP	M/S	NA	--	20.5	* Collected sample at 22.0-24.0' for geotechnical analysis
22							M		--	20.3	*Collected sample at 24.0-26.0' for analysis of BETX, MTBE, and Lead
24				G	4/4	HP	M	NA	--	13.7	
26 (8)			Monitoring Well HMW-47 C				M		--	66.6	
28				H	4/4	HP	M	NA	--	14.1	
30	0.1-Foot sandy clay seam, fine to coarse grained sand at 30.8'						M		--	481	
	SILTY CLAY (30.9'-35.1') Gray with orange mottles, moist, stiff, strong petroleum odor										
32 (10)				I	4/4	HP	M	NA	--	155	
34							M/S		--	111	
	SILT (35.1'-35.7') ML Gray with orange mottles, moist, with clay, some fine sand, strong petroleum odor										
36	**SAND (35.7'-44.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor			J	2.5/4	HP	S	NA	--	1413	
38 (12)							S		--	1535	
40											

Clayton GROUP SERVICES

BORING NO: HMW-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42				K	2/4	HP	S	NA	--	1368	*Collected sample at 42.0-44.0' for analysis of BETX, MTBE, and Lead
	0.4-Foot clayey silt seam, gray, moist at 43.1'						S/M		--	110	
44											
	End of Boring at 44.0'										
46 — 14	This soil boring was advanced for geologic purposes.										
	See related monitoring well construction forms HMW-47 A, B, and C for details regarding monitoring well construction.										
48											
50											
52 — 16											
54											
56											
58 — 18											
60											

Clayton
GROUP SERVICES

BORING NO: HMW-48	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791544.04N, 2317173.96E	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/02/04
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0927
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 429.34 (HMW-48D)	FINISH DATE: 08/02/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1150

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well HMW-48 A, Monitoring Well HMW-48 B, Monitoring Well HMW-48 C, Monitoring Well HMW-48 D	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	SILT (6.0'-14.9) ML Gray with orange mottles, moist, some clay and some fine sand, strong petroleum odor Black staining at 6.5'			B	1.5/2	HP	M	NA	--	379	*Collected sample at 6.0-8.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
8	Grades wet at 9.8'			C	4/4	HP	M/W	NA	--	1711	
10	Black staining at 12.0-12.5'						M		--	1739	
12 / 4	Grades to saturated at 12.7'			D	4/4	HP	S	NA	--	1660	*Collected sample at 12.0-14.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
14	SILTY CLAY (14.9'-16.0') CL Gray with brown and orange mottles, moist, stiff, strong petroleum odor						M		--	1005	
16	CLAYEY SILT (16.0'-20.4') ML Gray with brown and orange mottles, wet, strong petroleum odor			E	4/4	HP	W	NA	--	1030	*Collected sample at 14.0-16.0' for analysis of Skinner List
18 / 6							W		--	1422	
20											

Clayton GROUP SERVICES

BORING NO: HMW-48 | WELL NO: NA | PROJECT NO: 15-03095.13-002 | PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
22	**SILT (20.4'-26.9') ML** Gray with brown and orange mottles, wet, with clay, some fine sand, strong petroleum odor		Well HMW-48 C, Well HMW-48 D	F	4/4	HP	W	NA	--	1562	*Collected sample at 22.0-24.0' for analysis of Skinner List
							W		--	1477	
24	Grades to saturated, with fine sand, and sheen at 24.0'			G	4/4	HP	S	NA	--	201	* Collected sample at 24.0-26.0' for geotechnical analysis
26 8							S		--	659	
28	**SAND (26.9'-29.1') SW** Gray, saturated, fine to coarse grained, some silt, strong petroleum odor			H	4/4	HP	S	NA	--	91.4	
30	**CLAYEY SILT (29.1'-32.7') ML** Brown, moist, strong petroleum odor						M		--	53.1	
32 10	**SANDY SILT (32.7'-34.8') ML** Gray with copper colored mottles, saturated, fine to medium grained			I	4/4	HP	S	NA	--	228	*Collected sample at 30.0-32.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
34	**SAND (34.8'-36.0') SW** Brown with copper colored mottles, saturated, fine to coarse grained						S		--	1430	
36	0.1-Foot silty clay seam, orange-red, moist, stiff at 35.9'			J	4/4	HP	S	NA	--	105	
38 12	**SAND (36.0'-40.5') SP** Brown with orange-red mottles, saturated, fine to medium grained Black staining at 38.6-38.7'						S		--	48	* Collected sample at 36.0-38.0' for geotechnical analysis
40											

Clayton
GROUP SERVICES

BORING NO: HMW-48	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	CLAYEY SILT (40.5'-43.5') ML Gray, moist, strong petroleum odor		Well HMW-48 D	K	2/4	HP	M	NA	--	35.7	*Collected sample at 40.0-42.0' for geotechnical analysis
42							S		--	1712	*Collected sample at 42.0-44.0' for analysis of BETX, MTBE, Lead
44	SAND (43.5'-44.0') SW Gray, saturated, fine to coarse grained, strong petroleum odor										
	End of Boring at 44.0'										
46 14											
	This soil boring was advanced for geologic purposes.										
48	See monitoring well construction forms HMW-48 A, B, C, and D for details regarding monitoring well construction.										
50											
52 16											
54											
56											
58											
18											
60											

Clayton
GROUP SERVICES

BORING NO: HMW-49	WELL NO: HMW-49D	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791913.91N, 2316582.59E	

DRILLING CO: MRK	DRILLER: J. Barker	LOGGED BY: M. Mueller
DRILLING EQUIP: CME-45/HSA	SCREEN INTERVAL: 41.0-51.0'	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: PVC/0.010	START DATE: 08/24/04
BOREHOLE DIA: 8.25 inches	STICKUP: NA	START TIME (hours): 1230
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 430.53 (HMW-49D)	FINISH DATE: 08/25/04
RISER DIA/MTL/LGTH: 2"/PVC/40.8'	DEV. METHODS: NA	FINISH TIME (hours): 1406

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-7.0')		Monitoring Well HMW-49 A, Monitoring Well HMW-49 B, Monitoring Well HMW-49 C, Monitoring Well HMW-49 D	A	--	HA	--	NA	--	--	Hand auger 0.0'-7.0'
2 / 2	SILTY CLAY (7.0'-12.1') CL Brown with orange mottles, moist, medium stiff, medium plasticity			B	1.9/2	SS	M	--	--	0	*Collected sample at 7.0-9.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
8				C	1.8/2	SS	M	--	--	0	
10				D	1.6/2	SS	M/W	--	--	0	*Collected sample at 12.0-13.0' for geotechnical analysis
12 / 4	SILT (12.1'-13.0') ML Brown, wet, with fine sand and clay, soft Grades to some fine sand at 12.8'			E	2/2	SS	M	--	--	0	
14	SILTY CLAY (13.0'-23.8') CL Gray with orange mottles, moist, stiff, medium plasticity 0.2-Foot silt seam at 14.5'			F	2/2	SS	M	--	--	0	*Collected sample at 15.0-17.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
16				G	1.8/2	SS	M	--	--	0.1	
18	Grades gray at 19.0' 0.2-Foot silt seam, wet, trace clay at 19.6'			H	1.8/2	SS	M	--	--	0.3	
20 / 6	Slight petroleum odor at 21.0'										

Clayton GROUP SERVICES

BORING NO: HMW-49	WELL NO: HMW-49D	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
23			Well HMW-49 C, Well HMW-49 D	I	1.9/2	SS	M	--	--	30.1	
	SILT (23.8'-24.3') ML Gray, wet, trace fine sand and clay, soft, petroleum odor			J	1.6/2	SS	M/W	--	--	187	
25	SILTY CLAY (24.3'-31.0') CL Gray, moist, medium stiff, medium plasticity, petroleum odor			K	2/2	SS	M	--	--	438	
8											
27				L	1.9/2	SS	M	--	--	>2000	
29				M	1.3/2	SS	M	--	--	>2000	
31	SAND (31.0'-35.7') SP Brown, saturated, fine to medium grained, petroleum odor 0.1-Foot silt seam, gray, wet, trace clay at 32.4' 0.3-Foot silt seam, sheen, at 33.9'			N	1.8/2	SS	S	--	--	>2000	*Collected sample at 31.0-33.0' for geotechnical analysis
10											
33				O	2/2	SS	S	--	--	>2000	
35											
	SILT (35.7'-37.0') ML Gray, saturated, trace clay, petroleum odor			P	2/2	SS	S	--	--	>2000	
37	SAND (37.0'-38.2') SP Gray, saturated, fine to medium grained, petroleum odor 0.2-Foot silt seam at 37.6'			Q	2/2	SS	S	--	--	>2000	
39	SILT (38.2'-39.0') ML Gray, saturated, some clay, soft, petroleum odor			R	1.9/2	SS	W/S	--	--	384	
12											
41	CLAYEY SILT (39.0'-40.8') ML Gray, wet, soft, petroleum odor 0.2-Foot sand seam, saturated, fine to medium grained at 39.9'			S	1.7/2	SS	S	--	--	>2000	

Clayton GROUP SERVICES

BORING NO: HMW-49	WELL NO: HMW-49D	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	SAND (40.8'-43.0') SW Gray, saturated, fine to coarse grained, some subrounded gravel, dense										
44	End of Boring at 43.0'										
46	14										
48	See monitoring well construction forms HMW-49 A, B, C, and D for details regarding monitoring well construction.										
50											
52	16										
54											
56											
58	18										
60											
62											

Clayton
GROUP SERVICES

BORING NO: HMW-50	WELL NO: HMW-50C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791284.92N, 2317602.19E	
DRILLING CO: Terra Drill	DRILLER: T. Marlo	LOGGED BY: M. Mueller	
DRILLING EQUIP: CME-75 / HSA	SCREEN INTERVAL: 45.0-55.0'	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: PVC/0.010"	START DATE: 08/24/04	
BOREHOLE DIA: 8.25 inches	STICKUP: NA	START TIME (hours): 0815	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 431.40 (HMW-50C)	FINISH DATE: 08/25/04	
RISER DIA/MTL/LGTH: 2"/PVC/47.89'	DEV. METHODS: NA	FINISH TIME (hours): 1115	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**SILTY CLAY (0.0'-7.0') CL** Dark brown, moist		Monitoring Well HMW-50 A Monitoring Well HMW-50 B Monitoring Well HMW-50 C	A	--	HA	M	NA	--	--	Hand auger 0.0'-7.0'
8	**SILTY CLAY (7.0'-11.2') CL** Light brown with orange mottles, moist, soft, plastic			B	1.9/2	SS	M	--	--	1.2	
10				C	1.2/2	SS	M	--	--	0	*Collected sample at 9.0-11.0' for analysis of BETX, MTBE, and Lead
12	**CLAYEY SILT (11.2'-18.4') ML** Light brown, wet, soft			D	1.5/2	SS	W	--	--	0	*Collected sample at 11.0-13.0' for geotechnical analysis
14				E	1.7/2	SS	W	--	--	9.1	
16				F	1.4/2	SS	W	--	--	1.4	
18				G	2/2	SS	W/S	--	--	12.2	
20	**SILT (18.4'-20.2') ML** Brown, saturated, with fine sand, trace clay, very loose			H	1.4/2	SS	S	--	--	0	

Clayton
GROUP SERVICES

BORING NO: HMW-50	WELL NO: HMW-50C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	CLAYEY SILT (20.2'-22.1') ML Brown, saturated, some fine sand, very loose		Well HMW-50 B, Well HMW-50 C								*Collected sample at 19.0-21.0' for geotechnical analysis
22	**SILTY SAND (22.1'-26.2') SM** Brown, saturated, fine grained, loose			I	1.6/2	SS	S	--	--	14.3	
24	Grades gray at 24.5'			J	1.6/2	SS	S	--	--	0	
26				K	1.7/2	SS	S/M	--	--	0	
8	**SILTY CLAY (26.2'-32.0') CL** Gray, moist, very soft, plastic										
28				L	2/2	SS	M	--	--	1.1	*Collected sample at 27.0-29.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
30				M	1.4/2	SS	M	--	--	0	
32				N	1.9/2	SS	M/W	--	--	0	
10	**CLAYEY SILT (32.0'-35.6') ML** Reddish brown, wet, trace fine sand, soft										
34				O	1.7/2	SS	W	--	--	0	
36	**SILTY SAND (35.6'-36.7') SM** Dark brown, wet, fine to medium grained, loose			P	1.8/2	SS	W/S	--	--	0	
38	**SAND (36.7'-40.5') SW** Brown, saturated, fine to coarse grained, loose			Q	1.2/2	SS	S	--	--	0	* Collected sample at 38.5-39.0' for geotechnical analysis
12											
40				R	1.6/2	SS	S/M	--	--	0	

Clayton
GROUP SERVICES

BORING NO: HMW-50	WELL NO: HMW-50C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
	SILTY CLAY (40.5'-41.0') CL Gray, moist, very soft		Well HMW-50 C								
42	SAND (41.0'-42.0') SW Brown, wet, fine to coarse grained, loose			S	1.5/2	SS	W/M	--	--	40.2	*Collected sample at 41.0-43.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
	CLAYEY SILT (42.0'-45.0') ML Gray, moist, very soft										
44				T	1.7/2	SS	M	--	--	84.1	
46 (14)	SAND (45.0'-48.0') SW Brown, saturated, fine to coarse grained, loose			U	1/2	SS	S	--	--	--	
48	End of Boring at 48.0'										
50	See monitoring well construction forms HMW-50 A, B, and C for details regarding monitoring well construction.										
52 (16)											
54											
56											
58 (18)											
60											

Clayton GROUP SERVICES

BORING NO: HMW-51	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 790450.54N, 2316429.02E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: H. Mendygral	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/03/04	
BOREHOLE DIA: 3 inches	STICKUP: NA	START TIME (hours): 1450	
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 425.69 (HMW-51C)	FINISH DATE: 08/03/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1546	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	BLIND AUGER (0.0'-6.0')		Monitoring Well HMW-51 A, Monitoring Well HMW-51 B, Monitoring Well HMW-51 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	CLAYEY SILT (6.0'-10.5') ML Brown with orange mottles, wet, trace fine sand and gravel, stiff, no odor			B	1.5/2	HP	W	NA	--	2.5	
8				C	2.7/4	HP	W/M	NA	--	5.4	*Collected sample at 8.0-10.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
10	SILT (10.5'-13.5') ML Medium brown with gray mottles, moist, trace clay and fine sand, no odor Grades wet from 12.5-14.0' Grades gray at 12.7						M		--	7.6	
12 / 4				D	4/4	HP	W	NA	--	4.0	*Collected sample at 10.0-12.0' for analysis of Skinner List and geotechnical analysis
14	CLAYEY SILT (13.5'-14.6') ML Gray, wet, trace fine sand						M		--	10.5	
16	SAND (14.6'-25.2') SP Light brown, moist, fine grained, trace silt, no odor Grades gray from 15.9-17.5'			E	3/4	HP	M	NA	--	3.6	
18							M		--	3.9	*Collected sample at 18.0-20.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
20 / 6				F	2.1/4	HP	M	NA	--	3.0	
22											

Clayton GROUP SERVICES

BORING NO: HMW-51	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
			Well HMW-51 C				M		--	1.5	
24				G	3.6/4	HP	M/S	NA	--	3.5	
26 (8)	**SILTY CLAY (25.2'-27.0') CL** Gray, saturated, trace fine sand, soft, no odor						S		--	4.4	
28	**SAND (27.0'-36.0') SP** Gray to light brown, saturated, fine to medium grained, trace silt, no odor			H	3.3/4	HP	S	NA	--	1.6	*Collect sample at 28.0-30.0' for geotechnical analysis
30	Grades gray at 30.0'						S		--	4.2	
32 (10)				I	3.6/4	HP	S	NA	--	2.2	
34							S		--	0.0	
36	End of Boring at 36.0'										
38 (12)											
40	This soil boring was advanced for geologic purposes.										
42	See related monitoring well construction forms HMW-51 A, B, and C for details regarding monitoring well construction.										
44											

Boring/Well No.: HMW-51 Soil Boring

Clayton
GROUP SERVICES

BORING NO: HMW-52	WELL NO: HMW-52C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 789442.19N, 2317797E	
DRILLING CO: Terra Drill	DRILLER: T. Marlo		LOGGED BY: M. Mueller
DRILLING EQUIP: CME-75 / HSA	SCREEN INTERVAL: 25.0-40.0'		CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: PVC/0.010"		START DATE: 08/25/04
BOREHOLE DIA: 8.25 inches	STICKUP: NA		START TIME (hours): 1550
TOP of CASING ELEVATION: NA	G.S. ELEVATION: 428.21 (HMW-52C)		FINISH DATE: 08/26/04
RISER DIA/MTL/LGTH: 2"/PVC/24.62'	DEV. METHODS: NA		FINISH TIME (hours): 0811

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**SILTY CLAY (0.0'-8.0') CL** Brown with gray mottles, moist		Monitoring Well HMW-52 A Monitoring Well HMW-52 B Monitoring Well HMW-52 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-8.0'
8	**SILTY CLAY (8.0'-12.5') CL** Brown with orange mottles, moist, medium stiff Soft at 10.0'			B	2/2	SS	M	NA	--	0	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
10				C	1.9/2	SS	M	NA	--	0	
12 / 4	**SILT (12.5'-21.2') ML** Brown, moist, soft, trace fine sand			D	1.5/2	SS	M	NA	--	0.1	
14				E	1.8/2	SS	M	NA	--	0	*Collected sample at 14.0-16.0' for analysis of BETX, MTBE, Lead, and geotechnical analysis
16	Grades wet at 17.0' Grades saturated at 18.0'			F	1.9/2	SS	M/W	NA	--	0	
18 / 6 / 20				G	1.8/2	SS	S	NA	--	0	

Boring/Well No.: HMW-52 Soil Boring

Clayton
GROUP SERVICES

BORING NO: HMW-52	WELL NO: HMW-52C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
			HMW-52 B, HMW-52 C	H	1.7/2	SS	S/W	NA	--	0	
	SILTY CLAY (21.2'-22.0') CL Gray, wet, soft, very plastic										
22	SILT (22.0'-44.0') ML Gray, wet, soft, trace fine sand			I	1.6/2	SS	W	NA	--	0	
24				J	1.8/2	SS	W	NA	--	0	
26 – 8				K	--/2	SS	W	NA	--	--	Attempted to collect shelby tube sample, no recovery
28	Grades to saturated at 28.0' Grades to with fine sand at 28.8'			L	1.8/2	SS	S	NA	--	0.1	
30				M	1.2/2	SS	S	NA	--	0.1	
32 – 10				N	1.8/2	SS	S	NA	--	0.1	
34				O	1.9/2	SS	S	NA	--	0.1	
36				P	2/2	SS	S	NA	--	--	
38 – 12				Q	2/2	SS	S	NA	--	--	
40											

Clayton GROUP SERVICES

BORING NO: HMW-52	WELL NO: HMW-52C	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
				R	2/2	SS	S	NA	--	--	
42				S	2/2	SS	S	NA	--	--	
44											
	End of Boring at 44.0'										
46	See monitoring well construction forms HMW-52 A, B, and C for details regarding monitoring well construction.										
48											
50											
52											
54											
56											
58											
60											

14 16 18

Boring/Well No.: HMW-52 Soil Boring

APPENDIX B

MONITORING PROBE/MONITORING WELL INSTALLATION MEMORANDUM

3140 Finley Road
Downers Grove, IL 60515
630.795.3200
Fax: 630.795.1130

Clayton
GROUP SERVICES

MEMORANDUM

To: File

From: Ken Comire

Subject: Additional Precautions for
MPE Pilot Test Well and Probe Installations
Village of Hartford, Illinois
PROJECT NO. 15-03095.13-001

Date: June 7, 2004

The drilling approach for the MPE Pilot Test Well and Probe Installations will incorporate the following additional precautions to enhance the installation of high integrity recovery and monitoring wells and vacuum probes. The approach addresses recovery wells separately from monitoring wells and vacuum probes.

RECOVERY WELLS (Two, 4-inch I.D., 0.020-inch slot PVC with 25 feet of well screen)

- Blind-drilling continuously, using the center bit and the addition of water into the augers as necessary, will be used to minimize heaving sand concerns. An initial separate, smaller diameter boring will be installed at RW-5 to obtain classification information prior to moving over approximately 3-5 feet to install RW-5.
- Recovery wells will be over-drilled approximately 2-feet to enhance the ability to accurately set the wells at the desired depth.
- Upon reaching the desired depth, the augers and center bit will be allowed to "rest" to enhance reaching equilibration with the Main Sand and the water added to the augers. During this time the well material will be prepared to be inserted into the augers, and inserted after centerplug removal.

MEMORANDUM

(Continued)

- The center bit and the AW rods will then be carefully withdrawn from the augers to minimize heaving sand concerns.

- The depth of the open hole within the augers will be measured with a tape. If the hole is open for a distance past approximately 45 feet bgs, sand pack material will be gently added to enable setting the well at a depth of approximately 44 feet bgs (± 1 foot).

- After setting the well at the desired depth, appropriate sand pack material will be carefully poured down the annulus between the outside of the well and the inside of the augers.

- Upon installing sufficient sand pack to satisfactorily extend above the clay/sand interface, the well will be gently surged to enhance consolidation (prevent voids) of the sand pack around the well screen.

- This surging procedure will continue in appropriate "lifts", dependent upon field conditions, until a "consolidated" sand pack reaches approximately six-inches above the top of the screen.

- Approximately two feet of collar sand (sugar sand-Morrie #00) will then be carefully placed over the existing sand pack.

- Bentonite chips will then be carefully placed in approximately 2 foot lifts on top of the collar sand, with hydration occurring upon the placement of a lift, continuing to approximately 1-foot bgs.

- An approximately 18-inch flush mount protective cover will then be placed over the well mouth that will be equipped with a four-inch expandable plug. The concrete thickness of one foot allows easy removal of the existing protective cover if the determination is made to install a vault at this location.

- Upon waiting the required amount of time per SOP 210, the well will be developed using a surge and pump method. The method will involve the use of a drill rig to advance/extract the surge block with subsequent pumping to remove the fine sediments from the well.

MEMORANDUM

(Continued)

MONITORING WELLS (Four, 2-inch I.D., 0.010-inch slot PVC with 25 feet of well screen)

- 4-1/4" Hollow stem augers with continuous sampling to termination.
- Monitoring wells will be over-drilled approximately 1-foot to enhance the ability to accurately set the wells at the desired depth.
- Upon reaching desired termination depth, water may be placed into the augers as necessary, to minimize heaving sand concerns. The final task will be to retrieve the split spoon sampler from the borehole.
- The split spoon and the AW rods will then be carefully withdrawn from the augers to minimize heaving sand concerns.
- The depth of the open hole within the augers will be measured with a tape. If the hole is open for a distance past approximately 45 feet bgs, sand pack material will be gently added to enable setting the well at the same depth as the associated recovery well, approximately 44 feet bgs (± 1 foot).
- After setting the well at the desired depth, appropriate sand pack material will be carefully poured down the annulus between the outside of the well and the inside of the augers.
- Upon installing sufficient sand pack to satisfactorily extend above the clay/sand interface, the well will be gently surged to enhance consolidation (prevent voids) of the sand pack around the well screen.
- This surging procedure will continue in appropriate "lifts", dependent upon field conditions, until a "consolidated" sand pack reaches approximately six-inches above the top of the screen.
- Approximately two feet of collar sand (sugar sand-Morrie #00) will then be carefully placed over the existing sand pack.
- Bentonite chips will then be carefully placed in approximately 2 foot lifts on top of the collar sand, with hydration occurring upon the placement of a lift, continuing to approximately 3 feet bgs.

MEMORANDUM

(Continued)

- An approximately 12-inch flush mount protective cover will then be placed over the well mouth that will be equipped with a two-inch expandable plug. A concrete thickness of three feet will be required.

- Upon waiting the required amount of time per SOP 210, the well will be developed using a surge and pump method. The method will involve the use of a drill rig to advance/extract the surge block with subsequent pumping to remove the fine sediments from the well.

VACUUM MONITORING PROBES (Four, 1-inch I.D., 0.010-inch slot PVC with 15 feet of well screen)

- Hollow stem augers with continuous sampling to desired termination depth of approximately 30 feet bgs.

- Vacuum monitoring probes should not require significant over-drilling, as they are not anticipated to penetrate the Main Sand.

- The depth of the open hole within the augers will be measured with a tape. If the hole is open for a distance significantly past the desired termination depth, sand pack material will be gently added to enable setting the well at approximately 30 feet bgs.

- After setting the well at the desired depth, appropriate sand pack material will be carefully poured down the annulus between the outside of the well and the inside of the augers until reaching approximately six-inches above the top of the screen, taking all precautions to avoid bridging.

- Approximately two feet of collar sand (sugar sand-Morrie #00) will then be carefully placed over the existing sand pack.

- Bentonite chips will then be carefully placed in approximately 2-foot lifts on top of the collar sand, with hydration occurring upon the placement of a lift, continuing to approximately 3 feet bgs.

- An approximately 8-inch flush mount protective cover will then be placed over the well mouth that will be equipped with a one-inch expandable plug. A concrete thickness of three feet will be required.

MEMORANDUM

(Continued)

- Upon waiting the required amount of time per SOP 210, the well will be developed using a surge and pump method. The method will involve the use of a drill rig to advance/extract the surge block with subsequent pumping to remove the fine sediments from the well.

APPENDIX C

MONITORING PROBES/MONITORING WELL COMPLETION REPORTS

Appendix C-1: **Monitoring Probes**
Appendix C-2: **Monitoring Wells**

APPENDIX C-1

MONITORING PROBES

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-29A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-29

STATE PLANE COORDINATE: X 2317049.16E Y 791249.17N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/28/04 DATE FINISHED: 07/28/04

REPORT FORM COMPLETED BY: H.Mendygral DATE: 09/16/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

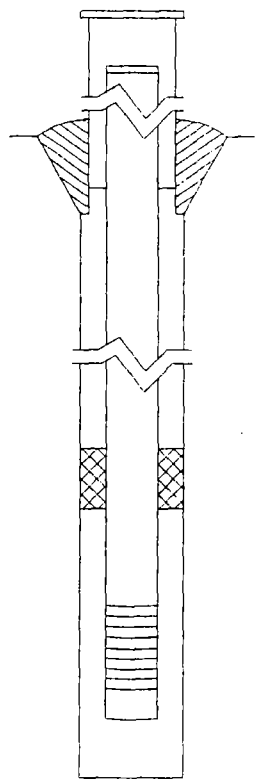
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.7	0	TOP OF PROTECTIVE CASING
429.39	0.31	TOP OF RISER PIPE
429.7	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.7	3.00	TOP OF SEAL
420.6	9.10	TOP OF SANDPACK
419.6	10.10	TOP OF SCREEN
417.6	12.10	BOTTOM OF SCREEN
417.6	12.10	BOTTOM OF WELL
409.2	20.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	9.79
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	11.79
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-29B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-29

STATE PLANE COORDINATE: X 2317049.49E Y 791248.82N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/28/04 DATE FINISHED: 07/28/04

REPORT FORM COMPLETED BY: H.Mendygral DATE: 9/16/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

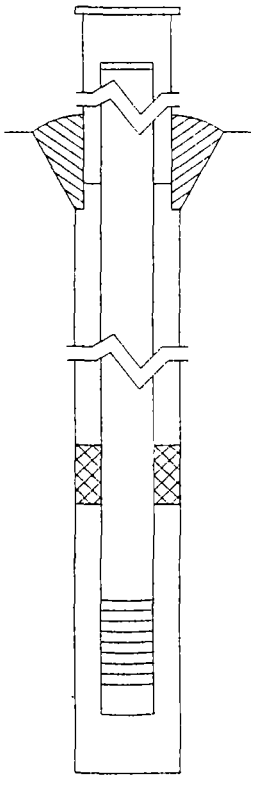
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.7	0	TOP OF PROTECTIVE CASING
429.43	0.27	TOP OF RISER PIPE
429.70	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
417.40	12.30	TOP OF SEAL
414.8	14.90	TOP OF SANDPACK
414.2	15.50	TOP OF SCREEN
409.2	20.50	BOTTOM OF SCREEN
409.2	20.50	BOTTOM OF WELL
409.2	20.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	15.23
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	20.23
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-29C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-29

STATE PLANE COORDINATE: X 2317049.63E Y 791245.61N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/28/04 DATE FINISHED: 07/28/04

REPORT FORM COMPLETED BY: H.Mendygral DATE: 9/17/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

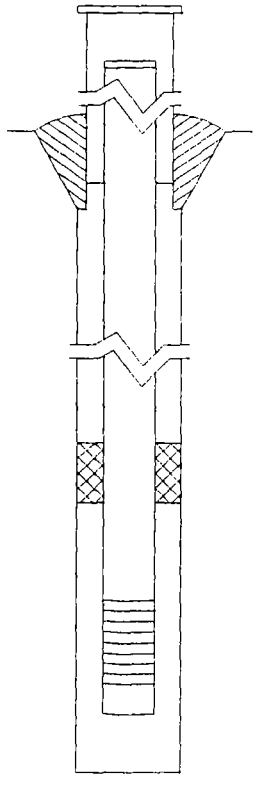
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.69	0	TOP OF PROTECTIVE CASING
429.39	0.30	TOP OF RISER PIPE
429.69	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	---	STATIC WATER LEVEL (AFTER COMPLETION)
426.60	3.00	TOP OF SEAL
408.79	20.90	TOP OF SANDPACK
408.09	21.60	TOP OF SCREEN
401.39	28.30	BOTTOM OF SCREEN
401.09	28.60	BOTTOM OF WELL
401.09	28.60	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.3
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.7
TOTAL LENGTH OF CASING (ft)	28.30
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-29D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-29

STATE PLANE COORDINATE: X 2317049.47E Y 791243.01N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/13/04 DATE FINISHED: 07/13/04

REPORT FORM COMPLETED BY: H.Mendygral DATE: 9/17/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

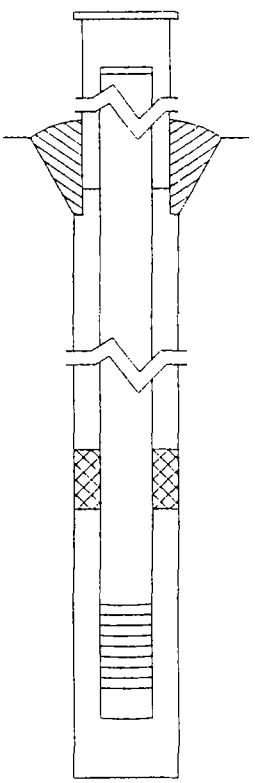
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.74	0	TOP OF PROTECTIVE CASING
429.47	0.27	TOP OF RISER PIPE
429.74	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	---	STATIC WATER LEVEL (AFTER COMPLETION)
426.74	3.00	TOP OF SEAL
399.24	30.50	TOP OF SANDPACK
398.24	31.50	TOP OF SCREEN
388.54	41.20	BOTTOM OF SCREEN
388.24	41.50	BOTTOM OF WELL
386.94	42.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	31.23
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	41.23
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-30A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-30

STATE PLANE COORDINATE: X 2316777.81E Y 791065.9N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: H.Mendygral DATE: 9/17/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

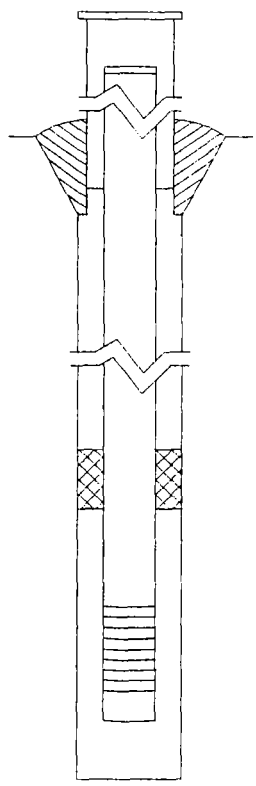
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
431.52	0	TOP OF PROTECTIVE CASING
431.20	0.32	TOP OF RISER PIPE
431.52	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
----	---	STATIC WATER LEVEL (AFTER COMPLETION)
428.52	3.00	TOP OF SEAL
423.52	8.00	TOP OF SANDPACK
422.52	9.00	TOP OF SCREEN
412.52	19.00	BOTTOM OF SCREEN
412.52	19.00	BOTTOM OF WELL
401.02	30.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	8.68
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	10.0
TOTAL LENGTH OF CASING (ft)	18.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-30B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-30

STATE PLANE COORDINATE: X 2316777.67E Y 791065.65N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: H.Mendygral DATE: 9/17/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

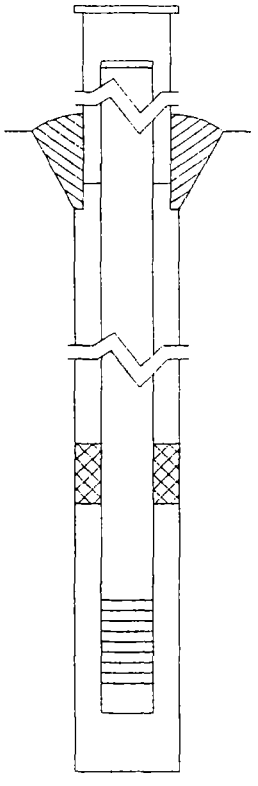
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.52	0	TOP OF PROTECTIVE CASING
431.21	0.31	TOP OF RISER PIPE
431.52	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	---	STATIC WATER LEVEL (AFTER COMPLETION)
412.32	19.20	TOP OF SEAL
409.52	22.00	TOP OF SANDPACK
409.02	22.50	TOP OF SCREEN
401.02	30.50	BOTTOM OF SCREEN
401.02	30.50	BOTTOM OF WELL
401.02	30.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	22.19
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.0
TOTAL LENGTH OF CASING (ft)	30.19
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-30C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-30

STATE PLANE COORDINATE: X 2316781.27E Y 791066N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (150 gal.)

LOGGED BY: S. Doxtader DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: H.Mendygral DATE: 9/17/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

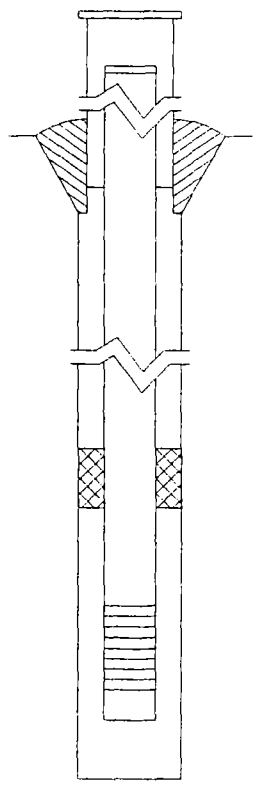
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.47	0	TOP OF PROTECTIVE CASING
431.13	0.34	TOP OF RISER PIPE
431.47	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	---	STATIC WATER LEVEL (AFTER COMPLETION)
428.47	3.00	TOP OF SEAL
398.67	32.80	TOP OF SANDPACK
396.97	34.50	TOP OF SCREEN
382.27	49.20	BOTTOM OF SCREEN
381.97	49.50	BOTTOM OF WELL
371.97	59.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	34.16
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	49.16
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-31A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-31

STATE PLANE COORDINATE: X 2316419.18E Y 790899.04N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/02/04 DATE FINISHED: 08/02/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

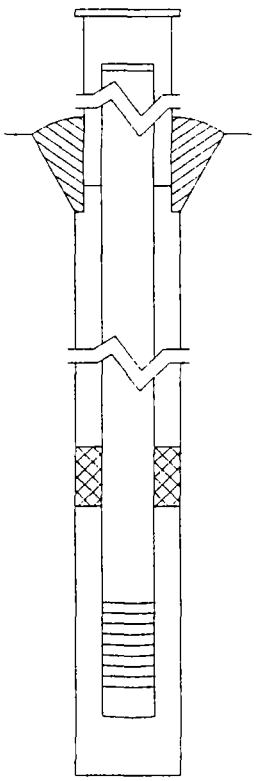
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
427.03	0	TOP OF PROTECTIVE CASING
426.71	0.32	TOP OF RISER PIPE
427.03	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
424.03	3.00	TOP OF SEAL
421.03	6.00	TOP OF SANDPACK
420.03	7.00	TOP OF SCREEN
417.03	10.00	BOTTOM OF SCREEN
417.03	10.00	BOTTOM OF WELL
417.03	10.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.68
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	9.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-31B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-31

STATE PLANE COORDINATE: X 2316422.27E Y 790899.3N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drilling DRILLER: Tom Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/02/04 DATE FINISHED: 08/02/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

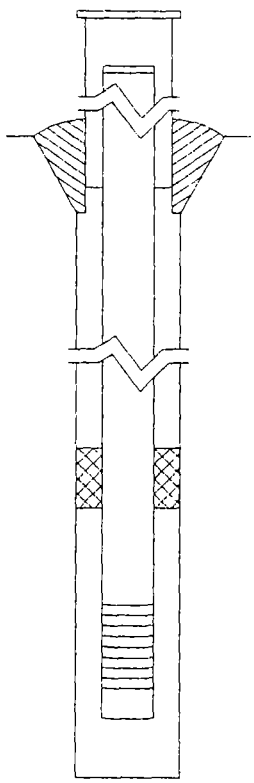
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
427.12	0	TOP OF PROTECTIVE CASING
426.79	0.33	TOP OF RISER PIPE
427.12	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
424.12	3.00	TOP OF SEAL
415.12	12.00	TOP OF SANDPACK
414.12	13.00	TOP OF SCREEN
409.12	18.00	BOTTOM OF SCREEN
409.12	18.00	BOTTOM OF WELL
409.12	18.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	12.67
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	17.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-31C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-31

STATE PLANE COORDINATE: X 2316428.07E Y 790898.71N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: Chuck Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/29/04 DATE FINISHED: 07/29/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

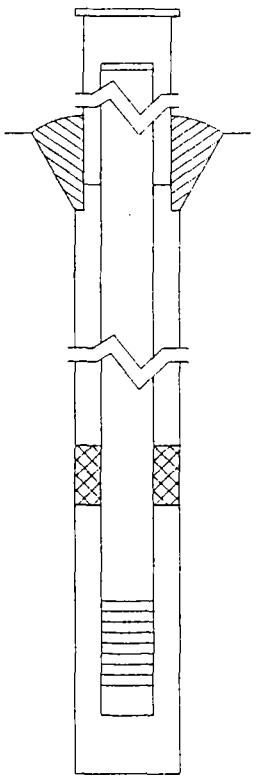
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
427.33	0	TOP OF PROTECTIVE CASING
426.98	0.35	TOP OF RISER PIPE
427.33	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
425.33	2.00	TOP OF SEAL
405.33	22.00	TOP OF SANDPACK
404.33	23.00	TOP OF SCREEN
389.63	37.70	BOTTOM OF SCREEN
389.33	38.00	BOTTOM OF WELL
389.13	38.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	22.65
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	37.65
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-32A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-32

STATE PLANE COORDINATE: X 2316588.58E Y 790896.83N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal.)

LOGGED BY: J. Thomas DATE STARTED: 07/29/04 DATE FINISHED: 07/29/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

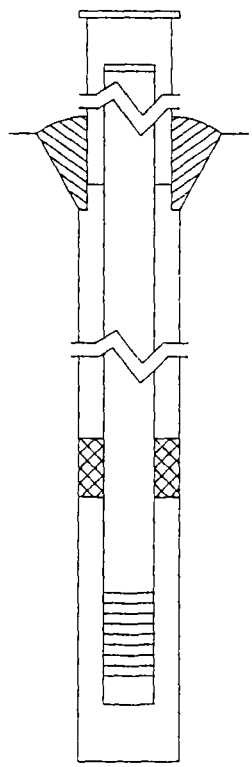
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.04	0	TOP OF PROTECTIVE CASING
429.68	0.36	TOP OF RISER PIPE
430.04	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.04	3.00	TOP OF SEAL
418.74	11.30	TOP OF SANDPACK
417.74	12.30	TOP OF SCREEN
415.74	14.30	BOTTOM OF SCREEN
415.74	14.30	BOTTOM OF WELL
398.74	31.30	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	11.94
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	13.94
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-32B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-32

STATE PLANE COORDINATE: X 2316588.7E Y 790896.91N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal.)

LOGGED BY: J. Thomas DATE STARTED: 07/29/04 DATE FINISHED: 07/29/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

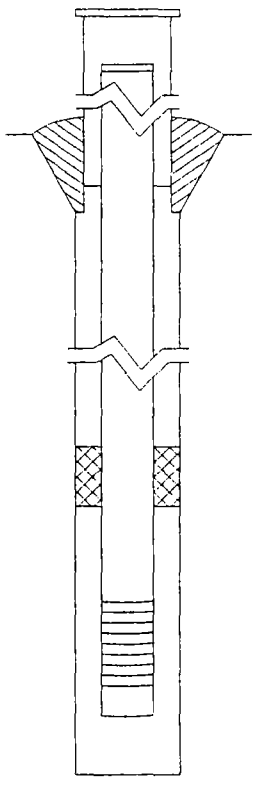
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.04	0	TOP OF PROTECTIVE CASING
429.68	0.36	TOP OF RISER PIPE
430.04	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.04	3.00	TOP OF SEAL
411.74	18.30	TOP OF SANDPACK
410.74	19.30	TOP OF SCREEN
398.74	31.30	BOTTOM OF SCREEN
398.74	31.30	BOTTOM OF WELL
398.74	31.30	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.94
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	12.0
TOTAL LENGTH OF CASING (ft)	30.94
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-32C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-32

STATE PLANE COORDINATE: X 2316585.39E Y 790896.82N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (50 gal.)

LOGGED BY: J. Thomas DATE STARTED: 07/28/04 DATE FINISHED: 07/28/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

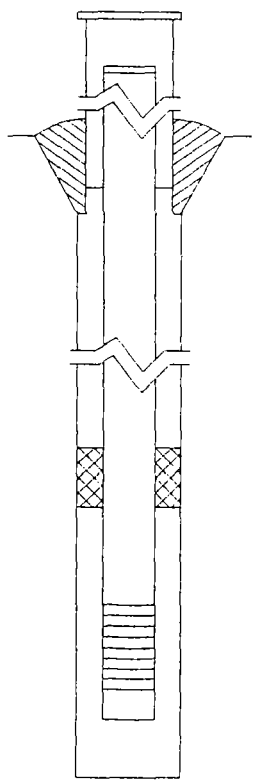
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.01	0	TOP OF PROTECTIVE CASING
429.72	0.29	TOP OF RISER PIPE
430.01	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.01	3.00	TOP OF SEAL
397.31	32.70	TOP OF SANDPACK
396.71	33.30	TOP OF SCREEN
382.01	48.00	BOTTOM OF SCREEN
381.71	48.30	BOTTOM OF WELL
375.01	55.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	33.31
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	48.31
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-33A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-33

STATE PLANE COORDINATE: X 2316652.89E Y 790894.85N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: Joe Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: Joe Campbell DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

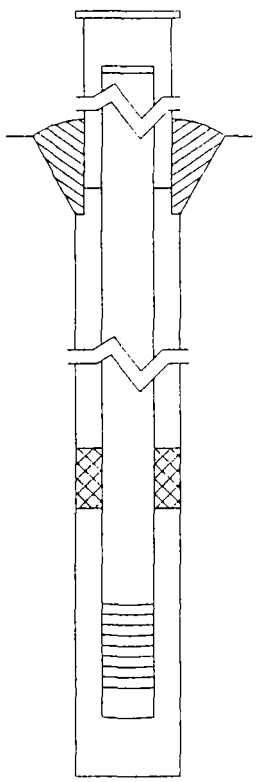
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.34	0	TOP OF PROTECTIVE CASING
430.05	0.29	TOP OF RISER PIPE
430.34	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.34	3.00	TOP OF SEAL
424.34	6.00	TOP OF SANDPACK
423.34	7.00	TOP OF SCREEN
420.34	10.00	BOTTOM OF SCREEN
420.34	10.00	BOTTOM OF WELL
420.34	10.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.71
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	9.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-33B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-33

STATE PLANE COORDINATE: X 2316649.3E Y 790897.31N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/03/04 DATE FINISHED: 08/04/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

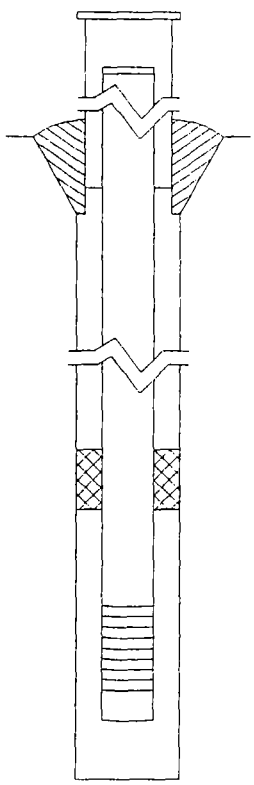
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.38	0	TOP OF PROTECTIVE CASING
430.09	0.29	TOP OF RISER PIPE
430.38	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.38	3.00	TOP OF SEAL
419.88	10.50	TOP OF SANDPACK
418.88	11.50	TOP OF SCREEN
415.88	14.50	BOTTOM OF SCREEN
415.88	14.50	BOTTOM OF WELL
403.88	26.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	11.21
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	14.21
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-33C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-33

STATE PLANE COORDINATE: X 2316649.32E Y 790897N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/03/04 DATE FINISHED: 08/04/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

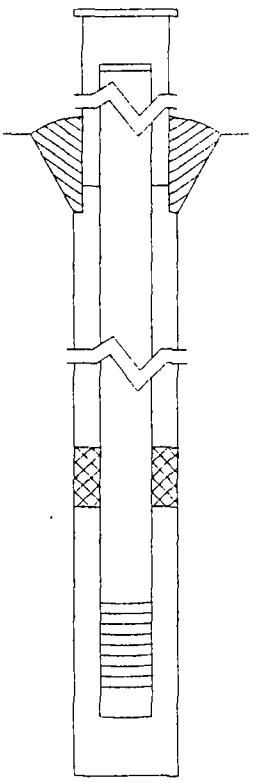
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.38	0	TOP OF PROTECTIVE CASING
430.09	0.29	TOP OF RISER PIPE
430.38	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
415.78	14.60	TOP OF SEAL
412.38	18.00	TOP OF SANDPACK
411.88	18.50	TOP OF SCREEN
403.88	26.50	BOTTOM OF SCREEN
403.88	26.50	BOTTOM OF WELL
403.88	26.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.22
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.0
TOTAL LENGTH OF CASING (ft)	26.22
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-33D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-33

STATE PLANE COORDINATE: X 2316652.53E Y 790897.18N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (50 gal.)

LOGGED BY: J. Thomas DATE STARTED: 07/29/04 DATE FINISHED: 07/29/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

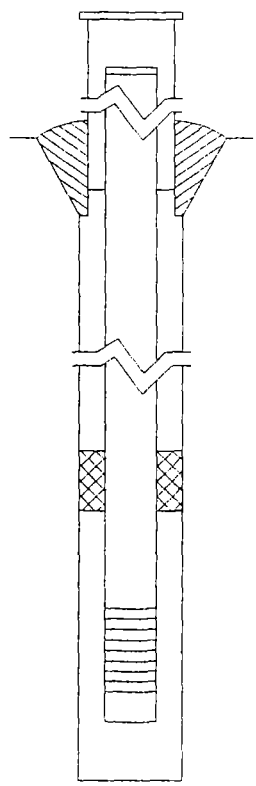
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.37	0	TOP OF PROTECTIVE CASING
430.09	0.28	TOP OF RISER PIPE
430.37	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.37	3.00	TOP OF SEAL
401.87	28.50	TOP OF SANDPACK
400.87	29.50	TOP OF SCREEN
386.07	44.20	BOTTOM OF SCREEN
385.87	44.50	BOTTOM OF WELL
376.37	54.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.22
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	44.22
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-34A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-34

STATE PLANE COORDINATE: X 2316769.85E Y 790903.75N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: Chuck Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/29/04 DATE FINISHED: 07/29/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL:

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

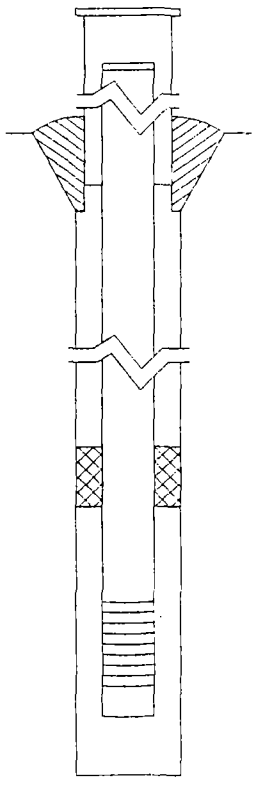
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.04	0	TOP OF PROTECTIVE CASING
430.73	0.31	TOP OF RISER PIPE
431.04	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.04	3.00	TOP OF SEAL
418.84	12.20	TOP OF SANDPACK
416.84	14.20	TOP OF SCREEN
414.84	16.20	BOTTOM OF SCREEN
414.84	16.20	BOTTOM OF WELL
414.84	16.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	*SS304, SS316, PTFE, PVC OR OTHER:*	*Steel*
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	13.89
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	15.89
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-34B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-34

STATE PLANE COORDINATE: X 2316782.29E Y 790904.16N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: Chuck Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/29/04 DATE FINISHED: 07/29/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

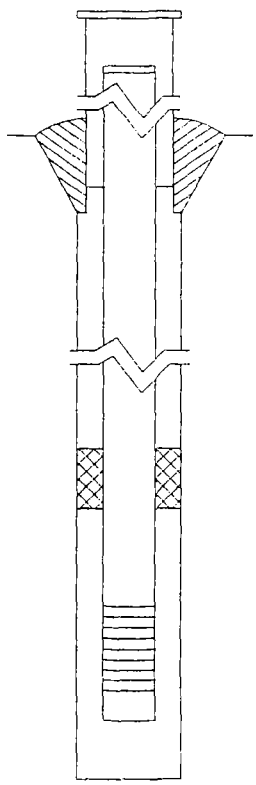
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.99	0	TOP OF PROTECTIVE CASING
430.74	0.25	TOP OF RISER PIPE
430.99	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.99	3.00	TOP OF SEAL
412.79	18.20	TOP OF SANDPACK
412.29	18.70	TOP OF SCREEN
406.29	24.70	BOTTOM OF SCREEN
406.29	24.70	BOTTOM OF WELL
406.29	24.70	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.45
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.45
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-34C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-34

STATE PLANE COORDINATE: X 2316784.7E Y 790904.2N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: Chuck Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/28/04 DATE FINISHED: 07/28/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 08/17/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

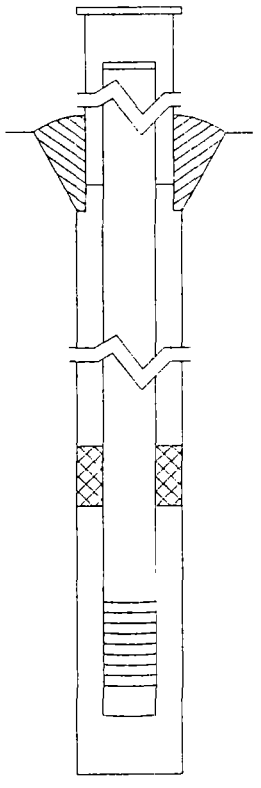
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.98	0	TOP OF PROTECTIVE CASING
430.62	0.36	TOP OF RISER PIPE
430.98	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.98	3.00	TOP OF SEAL
403.18	27.80	TOP OF SANDPACK
402.18	28.80	TOP OF SCREEN
387.4	43.50	BOTTOM OF SCREEN
387.18	43.80	BOTTOM OF WELL
385.98	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28.44
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.44
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-35A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-35

STATE PLANE COORDINATE: X 2316931.17E Y 790908.65N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

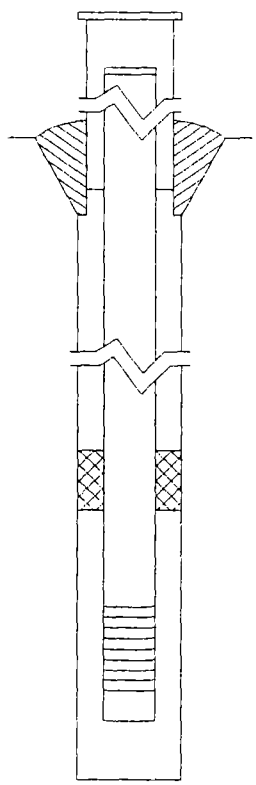
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.67	0	TOP OF PROTECTIVE CASING
430.36	0.31	TOP OF RISER PIPE
430.67	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.67	3.00	TOP OF SEAL
424.67	6.00	TOP OF SANDPACK
423.67	7.00	TOP OF SCREEN
420.67	10.00	BOTTOM OF SCREEN
420.67	10.00	BOTTOM OF WELL
420.67	10.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.69
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	9.69
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-35B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-35

STATE PLANE COORDINATE: X 2316934.03E Y 790911.32N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: C.F. Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/21/04 DATE FINISHED: 07/21/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

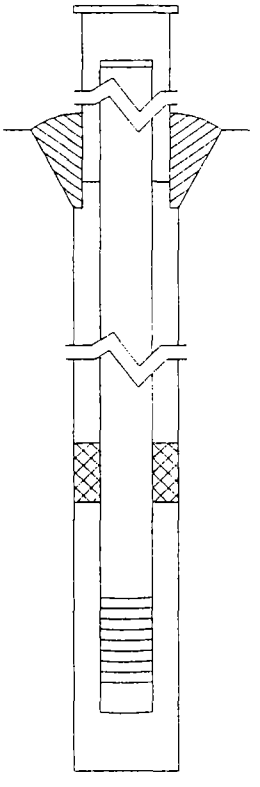
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.66	0	TOP OF PROTECTIVE CASING
430.41	0.25	TOP OF RISER PIPE
430.66	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.66	3.00	TOP OF SEAL
418.36	12.30	TOP OF SANDPACK
418.36	13.30	TOP OF SCREEN
413.36	17.30	BOTTOM OF SCREEN
413.36	17.30	BOTTOM OF WELL
405.06	25.60	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	13.05
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	17.05
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-35C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-35

STATE PLANE COORDINATE: X 2316928.92 Y 790911.22 (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: C.F. Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/21/04 DATE FINISHED: 07/21/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

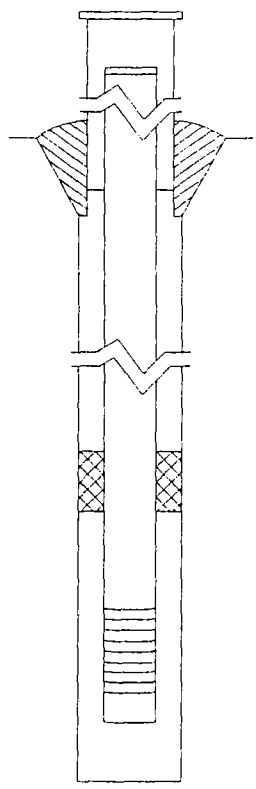
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.72	0	TOP OF PROTECTIVE CASING
430.44	0.28	TOP OF RISER PIPE
430.72	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
413.22	17.50	TOP OF SEAL
412.72	18.00	TOP OF SANDPACK
412.12	18.60	TOP OF SCREEN
405.12	25.60	BOTTOM OF SCREEN
405.12	25.60	BOTTOM OF WELL
405.12	25.60	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.32
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	7.0
TOTAL LENGTH OF CASING (ft)	25.32
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-35D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-35

STATE PLANE COORDINATE: X 2316924.26E Y 790911.85N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (38 gal.)

LOGGED BY: J. Thomas DATE STARTED: 07/20/04 DATE FINISHED: 07/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

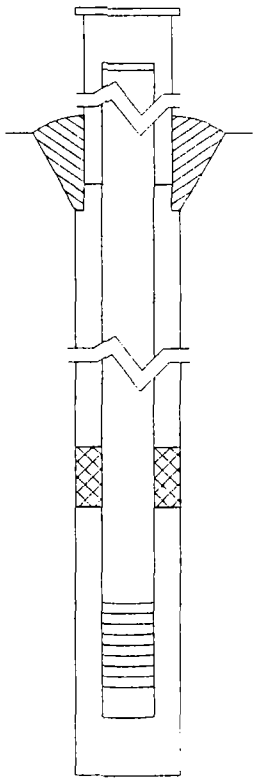
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.73	0	TOP OF PROTECTIVE CASING
430.43	0.30	TOP OF RISER PIPE
430.73	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.73	3.00	TOP OF SEAL
403.13	27.60	TOP OF SANDPACK
402.43	28.30	TOP OF SCREEN
387.73	43.00	BOTTOM OF SCREEN
387.43	43.30	BOTTOM OF WELL
386.73	44.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.00
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-36A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-36

STATE PLANE COORDINATE: X 2316988.55E Y 790953.4N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

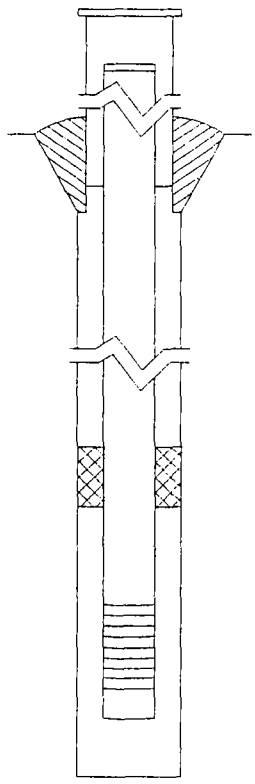
CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: C. Clark

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: C. Clark DATE STARTED: 07/26/04 DATE FINISHED: 07/26/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
432.21	0	TOP OF PROTECTIVE CASING
431.91	0.30	TOP OF RISER PIPE
432.21	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
429.26	2.95	TOP OF SEAL
423.21	9.00	TOP OF SANDPACK
422.21	10.00	TOP OF SCREEN
419.21	13.00	BOTTOM OF SCREEN
419.21	13.00	BOTTOM OF WELL
419.21	13.00	BOTTOM OF BOREHOLE

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	9.7
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	12.70
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-36B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-36

STATE PLANE COORDINATE: X 2316988.58E Y 790957.78N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: C. Clark

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: C. Clark DATE STARTED: 07/26/04 DATE FINISHED: 07/26/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 08/17/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

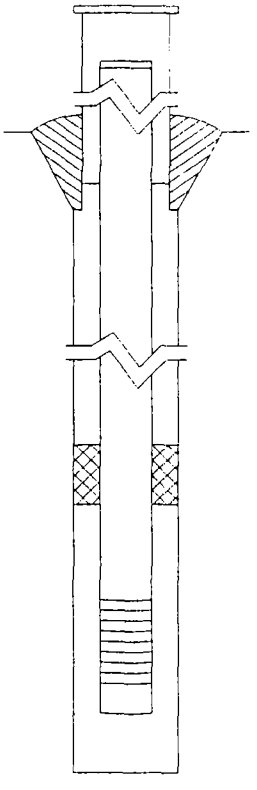
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
432.28	0	TOP OF PROTECTIVE CASING
431.98	0.30	TOP OF RISER PIPE
432.28	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
429.28	3.00	TOP OF SEAL
418.28	14.00	TOP OF SANDPACK
417.78	14.50	TOP OF SCREEN
402.78	29.50	BOTTOM OF SCREEN
402.78	29.50	BOTTOM OF WELL
402.78	29.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	14.2
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	15.0
TOTAL LENGTH OF CASING (ft)	29.20
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-36C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-36

STATE PLANE COORDINATE: X 2316987.17E Y 790964.98N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (40 gal.)

LOGGED BY: J. Thomas DATE STARTED: 07/13/04 DATE FINISHED: 07/13/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

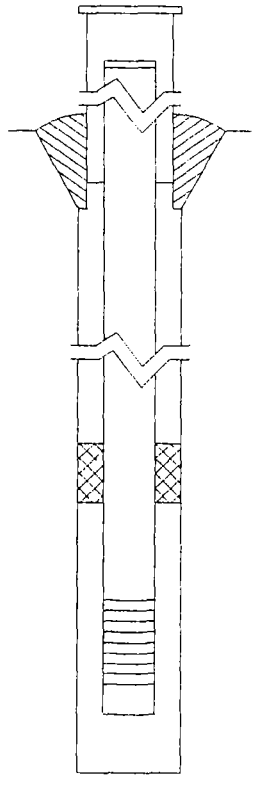
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
432.38	0	TOP OF PROTECTIVE CASING
431.99	0.39	TOP OF RISER PIPE
432.38	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
429.38	3.00	TOP OF SEAL
399.18	33.20	TOP OF SANDPACK
398.18	34.20	TOP OF SCREEN
388.48	43.90	BOTTOM OF SCREEN
388.18	44.20	BOTTOM OF WELL
388.18	44.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	33.81
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	43.81
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-37A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-37

STATE PLANE COORDINATE: X 2317215.81E Y 790897.32N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/20/04 DATE FINISHED: 07/21/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

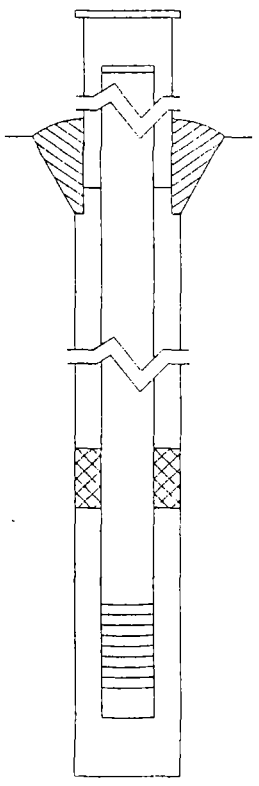
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.33	0	TOP OF PROTECTIVE CASING
429.01	0.32	TOP OF RISER PIPE
429.33	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.33	3.00	TOP OF SEAL
421.83	7.50	TOP OF SANDPACK
420.83	8.50	TOP OF SCREEN
415.83	13.50	BOTTOM OF SCREEN
415.83	13.50	BOTTOM OF WELL
406.53	22.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	8.18
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	13.18
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-37B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-37

STATE PLANE COORDINATE: X 2317215.57 Y 790897.51 (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/20/04 DATE FINISHED: 07/21/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

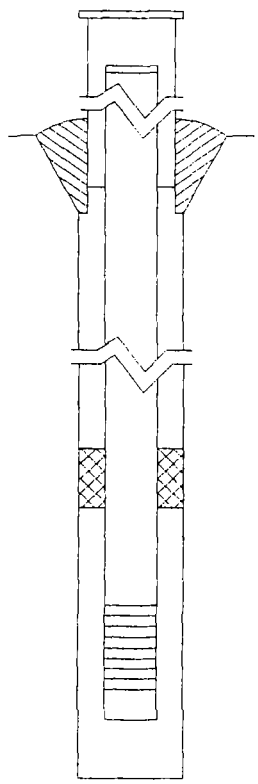
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.33	0	TOP OF PROTECTIVE CASING
428.99	0.34	TOP OF RISER PIPE
429.33	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
415.63	13.70	TOP OF SEAL
412.53	16.80	TOP OF SANDPACK
411.53	17.80	TOP OF SCREEN
406.53	22.80	BOTTOM OF SCREEN
406.53	22.80	BOTTOM OF WELL
406.53	22.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	17.46
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	22.46
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-37C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-37

STATE PLANE COORDINATE: X 2317212.3E Y 790897.62N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/20/04 DATE FINISHED: 07/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

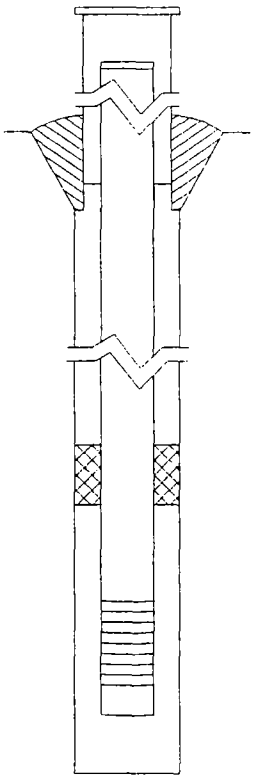
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.35	0	TOP OF PROTECTIVE CASING
429.07	0.28	TOP OF RISER PIPE
429.35	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.35	3.00	TOP OF SEAL
405.85	23.50	TOP OF SANDPACK
405.35	24.00	TOP OF SCREEN
401.65	27.70	BOTTOM OF SCREEN
401.35	28.00	BOTTOM OF WELL
401.35	28.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.72
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.7
TOTAL LENGTH OF CASING (ft)	27.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-37D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-37

STATE PLANE COORDINATE: X 2317209.44E Y 790897.56N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/20/04 DATE FINISHED: 07/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

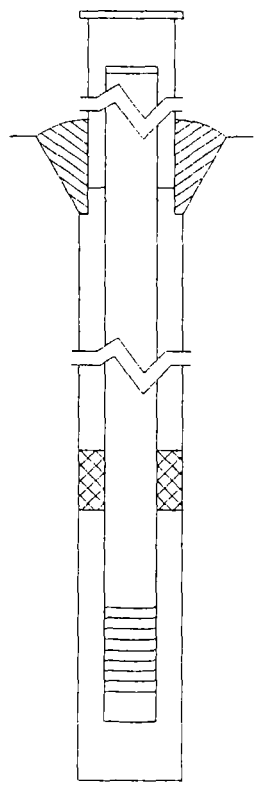
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.38	0	TOP OF PROTECTIVE CASING
429.04	0.34	TOP OF RISER PIPE
429.38	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.38	3.00	TOP OF SEAL
400.58	28.80	TOP OF SANDPACK
399.38	30.00	TOP OF SCREEN
389.68	39.70	BOTTOM OF SCREEN
389.38	40.00	BOTTOM OF WELL
379.38	50.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.66
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	39.66
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-38A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-38

STATE PLANE COORDINATE: X 2316438.47E Y 790762.48N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-00214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/27/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

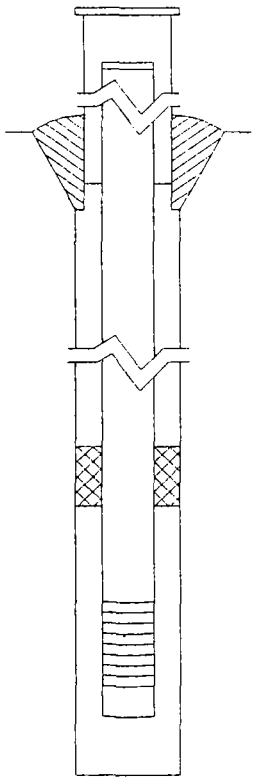
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
427.46	0	TOP OF PROTECTIVE CASING
427.17	0.29	TOP OF RISER PIPE
427.46	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
424.46	3.00	TOP OF SEAL
419.46	8.00	TOP OF SANDPACK
418.46	9.00	TOP OF SCREEN
414.46	13.00	BOTTOM OF SCREEN
414.46	13.00	BOTTOM OF WELL
414.46	13.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	8.71
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	12.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-38B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-38

STATE PLANE COORDINATE: X 2316435.25E Y 790762.76N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/26/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 08/17/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

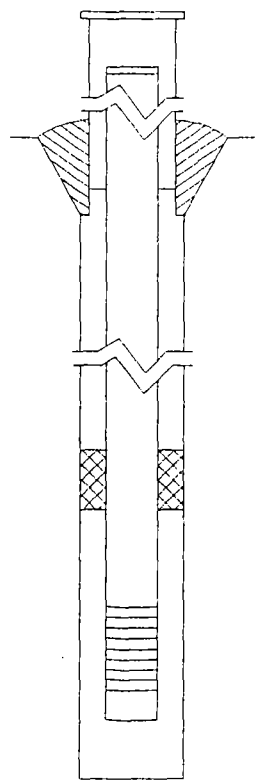
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
427.32	0	TOP OF PROTECTIVE CASING
427.03	0.29	TOP OF RISER PIPE
427.32	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
424.32	3.00	TOP OF SEAL
412.62	14.70	TOP OF SANDPACK
412.12	15.20	TOP OF SCREEN
404.12	23.20	BOTTOM OF SCREEN
404.12	23.20	BOTTOM OF WELL
404.12	23.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	14.91
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.0
TOTAL LENGTH OF CASING (ft)	22.91
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-38C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-38

STATE PLANE COORDINATE: X 2316432.17E Y 790762.65N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/26/04 DATE FINISHED: 07/26/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

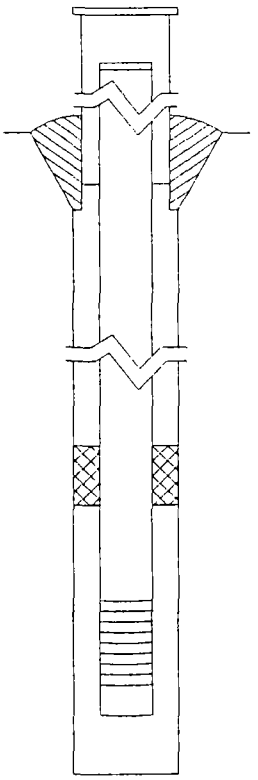
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
427.22	0	TOP OF PROTECTIVE CASING
426.91	0.31	TOP OF RISER PIPE
427.22	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
424.22	3.00	TOP OF SEAL
403.72	23.50	TOP OF SANDPACK
403.22	24.00	TOP OF SCREEN
388.52	38.70	BOTTOM OF SCREEN
388.22	39.00	BOTTOM OF WELL
383.22	44.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	26.69
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	38.69
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-39A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-39

STATE PLANE COORDINATE: X 2316606.34E Y 790758.5N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/27/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

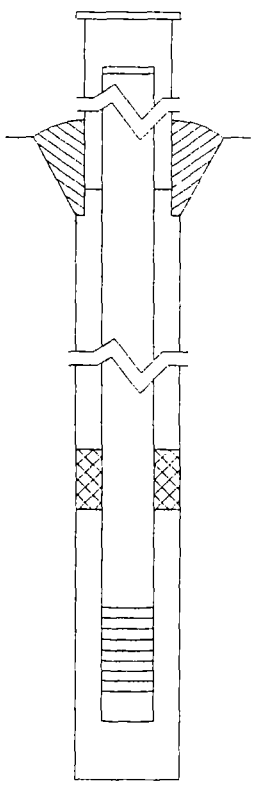
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
432.37	0	TOP OF PROTECTIVE CASING
432.09	0.28	TOP OF RISER PIPE
432.37	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
429.37	3.00	TOP OF SEAL
425.37	7.00	TOP OF SANDPACK
424.37	8.00	TOP OF SCREEN
419.37	13.00	BOTTOM OF SCREEN
419.37	13.00	BOTTOM OF WELL
405.87	26.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	7.72
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	12.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-39B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-39

STATE PLANE COORDINATE: X 2316606.34E Y 790758.72N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/27/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

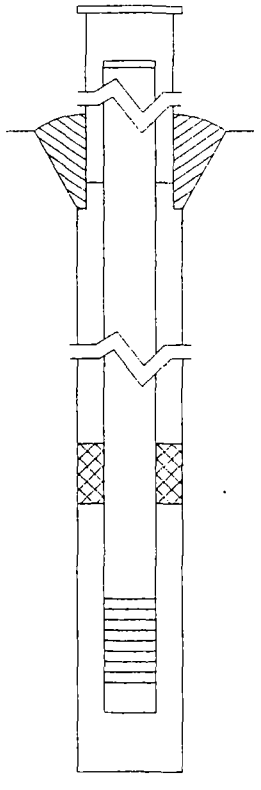
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
432.37	0	TOP OF PROTECTIVE CASING
432.10	0.27	TOP OF RISER PIPE
432.37	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
419.17	13.20	TOP OF SEAL
409.87	22.50	TOP OF SANDPACK
408.87	23.50	TOP OF SCREEN
405.87	26.50	BOTTOM OF SCREEN
405.87	26.50	BOTTOM OF WELL
405.87	26.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.23
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	26.23
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-39C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-39

STATE PLANE COORDINATE: X 2316609.45E Y 790758.56N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/27/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

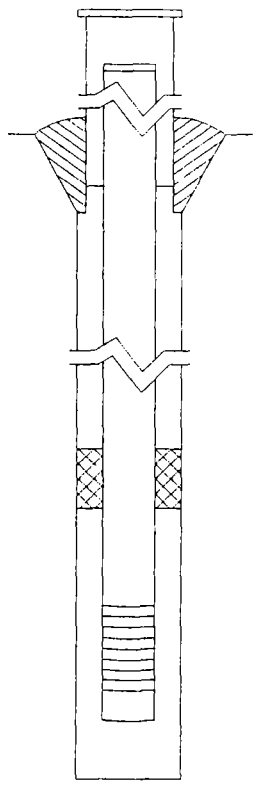
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
432.34	0	TOP OF PROTECTIVE CASING
432.07	0.27	TOP OF RISER PIPE
432.34	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
429.34	3.00	TOP OF SEAL
403.84	28.50	TOP OF SANDPACK
403.34	29.00	TOP OF SCREEN
388.64	43.70	BOTTOM OF SCREEN
388.34	44.00	BOTTOM OF WELL
378.34	54.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28.73
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.73
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-40A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-40

STATE PLANE COORDINATE: X 2316828.53E Y 790664.24N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/11/04 DATE FINISHED: 08/11/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

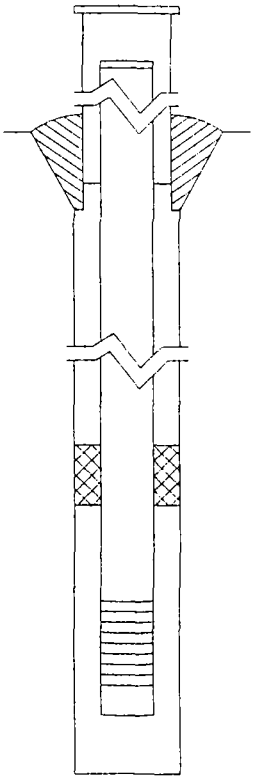
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
433.06	0	TOP OF PROTECTIVE CASING
432.76	0.30	TOP OF RISER PIPE
433.06	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
430.06	3.00	TOP OF SEAL
427.06	6.00	TOP OF SANDPACK
426.56	6.50	TOP OF SCREEN
421.56	11.50	BOTTOM OF SCREEN
421.56	11.50	BOTTOM OF WELL
402.86	30.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.2
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	11.20
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-40B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-40

STATE PLANE COORDINATE: X 2316828.52E Y 790664.61N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/11/04 DATE FINISHED: 08/11/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

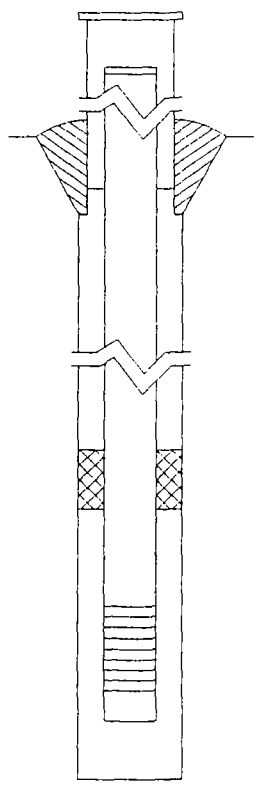
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
433.06	0	TOP OF PROTECTIVE CASING
432.78	0.28	TOP OF RISER PIPE
433.06	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
421.46	11.60	TOP OF SEAL
406.86	26.20	TOP OF SANDPACK
405.86	27.20	TOP OF SCREEN
402.86	30.20	BOTTOM OF SCREEN
402.86	30.20	BOTTOM OF WELL
402.86	30.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	26.92
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	29.92
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-40C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-40C

STATE PLANE COORDINATE: X 2316828.16E Y 790659.36N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (100 gal.)

LOGGED BY: H. Mendygral DATE STARTED: 08/11/04 DATE FINISHED: 08/11/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

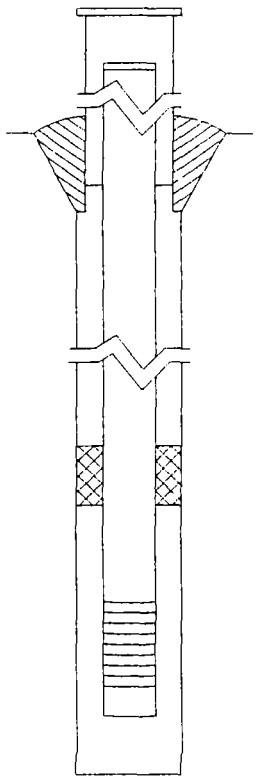
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
433.07	0	TOP OF PROTECTIVE CASING
432.77	0.30	TOP OF RISER PIPE
433.07	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
430.07	3.00	TOP OF SEAL
400.07	33.00	TOP OF SANDPACK
399.07	34.00	TOP OF SCREEN
384.37	48.70	BOTTOM OF SCREEN
384.07	49.00	BOTTOM OF WELL
379.07	54.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	33.7
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	48.70
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-41A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-41

STATE PLANE COORDINATE: X 2317034.09E Y 790687.58N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: A. Schultz DATE STARTED: 07/20/04 DATE FINISHED: 07/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

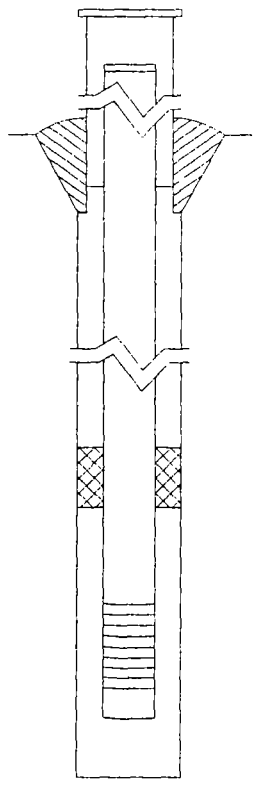
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.53	0	TOP OF PROTECTIVE CASING
431.24	0.29	TOP OF RISER PIPE
431.53	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
428.53	3.00	TOP OF SEAL
420.53	11.00	TOP OF SANDPACK
419.53	12.00	TOP OF SCREEN
417.53	14.00	BOTTOM OF SCREEN
417.53	14.00	BOTTOM OF WELL
405.53	26.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	11.71
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	13.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-41B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-41

STATE PLANE COORDINATE: X 2317033.85E Y 790687.69N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: A. Schultz DATE STARTED: 07/20/04 DATE FINISHED: 07/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

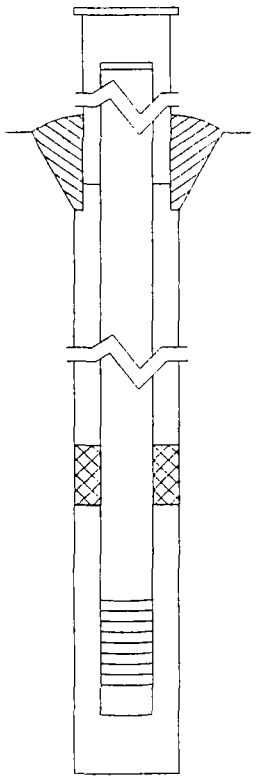
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE:

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.53	0	TOP OF PROTECTIVE CASING
431.23	0.30	TOP OF RISER PIPE
431.53	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
417.33	14.20	TOP OF SEAL
408.53	23.00	TOP OF SANDPACK
407.53	24.00	TOP OF SCREEN
405.53	26.00	BOTTOM OF SCREEN
405.53	26.00	BOTTOM OF WELL
405.53	26.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.7
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	25.70
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-41C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-41

STATE PLANE COORDINATE: X 2317040.05E Y 790687.62N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (25 gal.)

LOGGED BY: J. Thomas DATE STARTED: 07/19/04 DATE FINISHED: 07/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

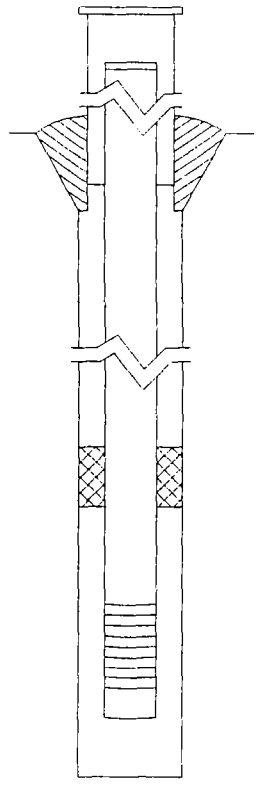
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



	ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
	431.41	0	TOP OF PROTECTIVE CASING
	431.09	0.32	TOP OF RISER PIPE
	431.41	0	GROUND SURFACE
	N/A	N/A	TOP OF ANNULAR SEALANT
	--	--	STATIC WATER LEVEL (AFTER COMPLETION)
	428.41	3.00	TOP OF SEAL
	402.21	29.20	TOP OF SANDPACK
	401.61	29.80	TOP OF SCREEN
	386.91	44.50	BOTTOM OF SCREEN
	386.61	44.80	BOTTOM OF WELL
	386.41	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.48
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	44.48
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-42A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-42

STATE PLANE COORDINATE: X 2317306.68E Y 790814.74N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/15/04 DATE FINISHED: 07/15/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

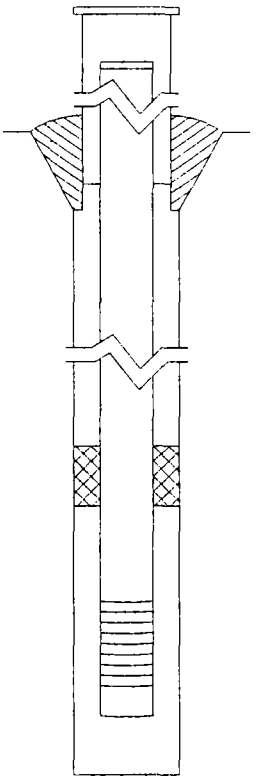
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE:

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.50	0	TOP OF PROTECTIVE CASING
430.21	0.29	TOP OF RISER PIPE
430.50	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.50	3.00	TOP OF SEAL
423.5	7.00	TOP OF SANDPACK
422.5	8.00	TOP OF SCREEN
412.5	18.00	BOTTOM OF SCREEN
412.5	18.00	BOTTOM OF WELL
402	28.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	7.71
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	10.0
TOTAL LENGTH OF CASING (ft)	17.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-42B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-42

STATE PLANE COORDINATE: X 2317306.54E Y 790814.89N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/15/04 DATE FINISHED: 07/15/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

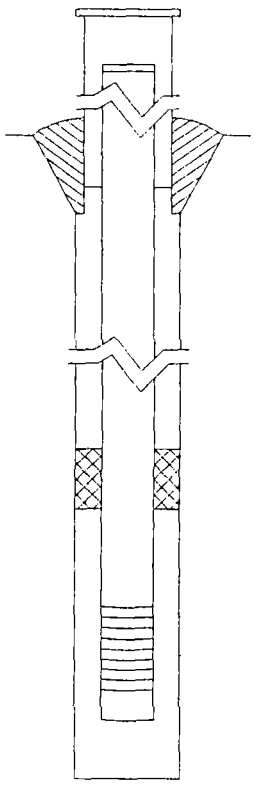
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE:

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.50	0	TOP OF PROTECTIVE CASING
430.20	0.30	TOP OF RISER PIPE
430.50	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
412.30	18.20	TOP OF SEAL
405.00	25.50	TOP OF SANDPACK
404.00	26.50	TOP OF SCREEN
402.00	28.50	BOTTOM OF SCREEN
402.00	28.50	BOTTOM OF WELL
402.00	28.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	26.2
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	28.20
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-42C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-42

STATE PLANE COORDINATE: X 2317308.23E Y 790810.17N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/13/04 DATE FINISHED: 07/13/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

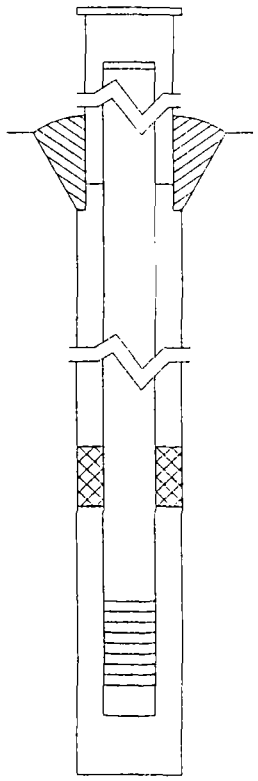
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.54	0	TOP OF PROTECTIVE CASING
430.32	0.22	TOP OF RISER PIPE
430.54	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.54	3.00	TOP OF SEAL
402.04	28.50	TOP OF SANDPACK
401.04	29.50	TOP OF SCREEN
391.34	39.20	BOTTOM OF SCREEN
391.04	39.50	BOTTOM OF WELL
388.54	42.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.28
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	39.28
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-43A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-43

STATE PLANE COORDINATE: X 2316489.2E Y 790612.87N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Transhield DRILLER: J. Luna

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: A. Schultz DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

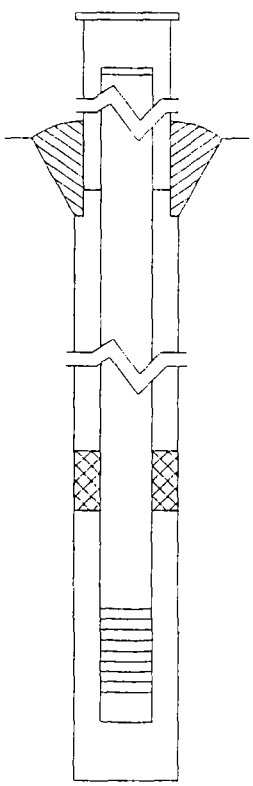
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
427.06	0	TOP OF PROTECTIVE CASING
426.75	0.31	TOP OF RISER PIPE
427.06	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
424.06	3.00	TOP OF SEAL
421.06	6.00	TOP OF SANDPACK
420.36	6.70	TOP OF SCREEN
418.36	8.70	BOTTOM OF SCREEN
418.36	8.70	BOTTOM OF WELL
409.26	17.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.39
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	8.39
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-43B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-43

STATE PLANE COORDINATE: X 2316488.74E Y 790612.9N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Transhield DRILLER: J. Luna

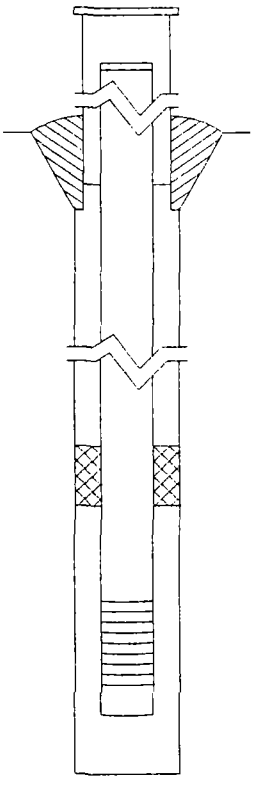
CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: A. Schultz DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS



TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE:

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable

ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
427.06	0	TOP OF PROTECTIVE CASING
426.72	0.34	TOP OF RISER PIPE
427.06	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
418.26	8.80	TOP OF SEAL
415.06	12.00	TOP OF SANDPACK
414.56	12.50	TOP OF SCREEN
409.56	17.50	BOTTOM OF SCREEN
409.56	17.50	BOTTOM OF WELL
409.26	17.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	12.16
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	17.16
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-43C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-43

STATE PLANE COORDINATE: X 2316489.55E Y 790616.05N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Transhield DRILLER: J. Luna

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (35 gal.)

LOGGED BY: A. Schultz DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

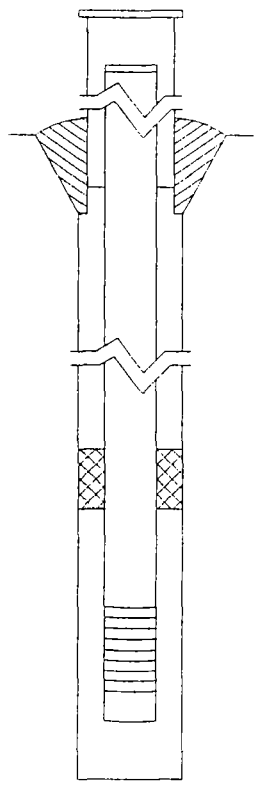
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
426.88	0	TOP OF PROTECTIVE CASING
426.39	0.49	TOP OF RISER PIPE
426.88	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
425.38	1.50	TOP OF SEAL
406.88	20.00	TOP OF SANDPACK
405.88	21.00	TOP OF SCREEN
391.18	35.70	BOTTOM OF SCREEN
390.88	36.00	BOTTOM OF WELL
389.88	37.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	20.51
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	35.51
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-44A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-44

STATE PLANE COORDINATE: X 2317124.87E Y 790611.26N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

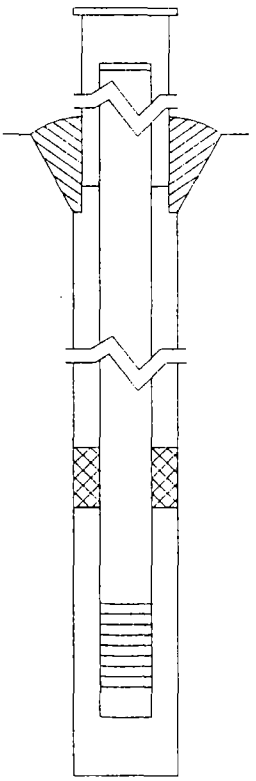
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.92	0	TOP OF PROTECTIVE CASING
430.64	0.28	TOP OF RISER PIPE
430.92	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.92	3.00	TOP OF SEAL
424.92	6.00	TOP OF SANDPACK
423.92	7.00	TOP OF SCREEN
420.92	10.00	BOTTOM OF SCREEN
420.92	10.00	BOTTOM OF WELL
420.92	10.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.72
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	9.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-44B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-44

STATE PLANE COORDINATE: X 2317131.33E Y 790610.75N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/19/04 DATE FINISHED: 07/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

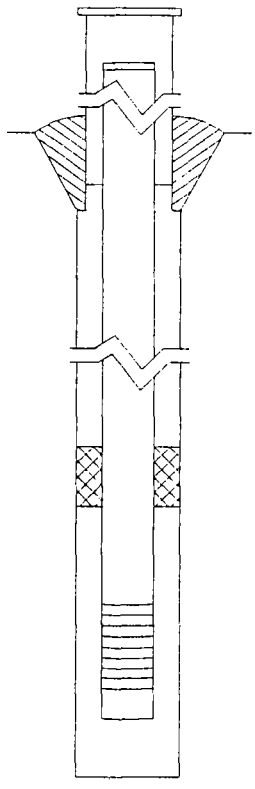
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE:

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.84	0	TOP OF PROTECTIVE CASING
430.54	0.30	TOP OF RISER PIPE
430.84	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.84	3.00	TOP OF SEAL
418.84	12.00	TOP OF SANDPACK
417.84	13.00	TOP OF SCREEN
415.84	15.00	BOTTOM OF SCREEN
415.84	15.00	BOTTOM OF WELL
405.84	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	12.7
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	14.70
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-44C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-44

STATE PLANE COORDINATE: X 2317131.62E Y 790610.81N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/19/04 DATE FINISHED: 07/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

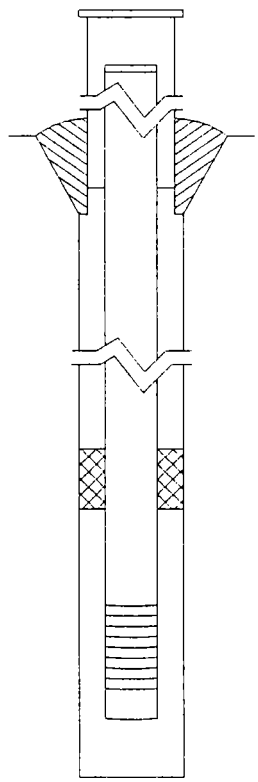
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.84	0	TOP OF PROTECTIVE CASING
430.54	0.30	TOP OF RISER PIPE
430.84	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
415.64	15.20	TOP OF SEAL
412.84	18.00	TOP OF SANDPACK
411.84	19.00	TOP OF SCREEN
405.84	25.00	BOTTOM OF SCREEN
405.84	25.00	BOTTOM OF WELL
405.84	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.7
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.70
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-44D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-44

STATE PLANE COORDINATE: X 2317127.84E Y 790610.61N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/19/04 DATE FINISHED: 07/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

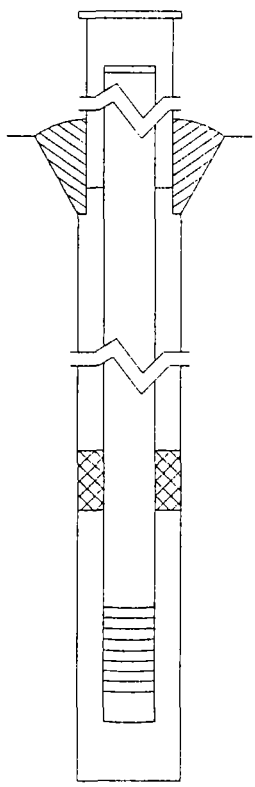
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.91	0	TOP OF PROTECTIVE CASING
430.62	0.29	TOP OF RISER PIPE
430.91	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.91	3.00	TOP OF SEAL
402.41	28.50	TOP OF SANDPACK
401.11	29.80	TOP OF SCREEN
386.41	44.50	BOTTOM OF SCREEN
386.11	44.80	BOTTOM OF WELL
381.91	49.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.51
BOTTOM OF SCREEN TO END CAP (ft)	3.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	44.51
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-45A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-45

STATE PLANE COORDINATE: X 2317242.93E Y 790608.67N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/16/04 DATE FINISHED: 07/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

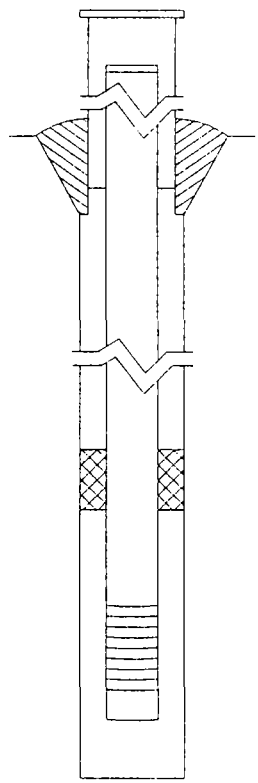
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.28	0	TOP OF PROTECTIVE CASING
430.04	0.24	TOP OF RISER PIPE
430.28	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.28	3.00	TOP OF SEAL
422.28	8.00	TOP OF SANDPACK
421.28	9.00	TOP OF SCREEN
417.28	13.00	BOTTOM OF SCREEN
417.28	13.00	BOTTOM OF WELL
406.08	24.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	8.76
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	12.76
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-45B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-45

STATE PLANE COORDINATE: X 2317243.15E Y 790608.74N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/16/04 DATE FINISHED: 07/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

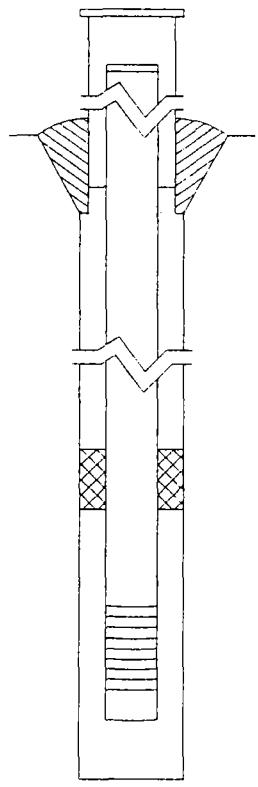
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE:

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.28	0	TOP OF PROTECTIVE CASING
430.04	0.24	TOP OF RISER PIPE
430.28	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
417.08	13.20	TOP OF SEAL
413.08	17.20	TOP OF SANDPACK
412.08	18.20	TOP OF SCREEN
406.08	24.20	BOTTOM OF SCREEN
406.08	24.20	BOTTOM OF WELL
406.08	24.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	17.96
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	23.96
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-45C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-45

STATE PLANE COORDINATE: X 2317246.86E Y 790608.85N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Mario

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/15/04 DATE FINISHED: 07/15/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

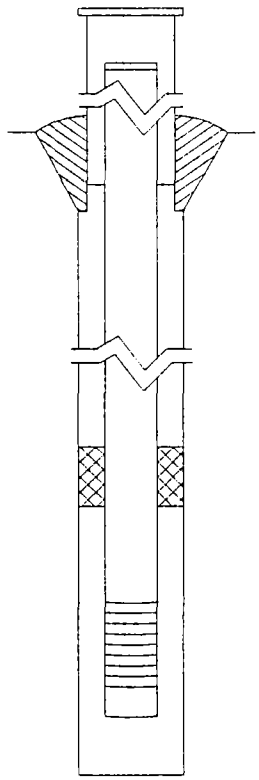
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.30	0	TOP OF PROTECTIVE CASING
429.93	0.37	TOP OF RISER PIPE
430.30	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.30	3.00	TOP OF SEAL
402.3	28.00	TOP OF SANDPACK
401.3	29.00	TOP OF SCREEN
386.6	43.70	BOTTOM OF SCREEN
386.3	44.00	BOTTOM OF WELL
383.3	47.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28.63
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.63
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-46A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-46

STATE PLANE COORDINATE: X 2317326.53 Y 790607.34 (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/15/04 DATE FINISHED: 07/15/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

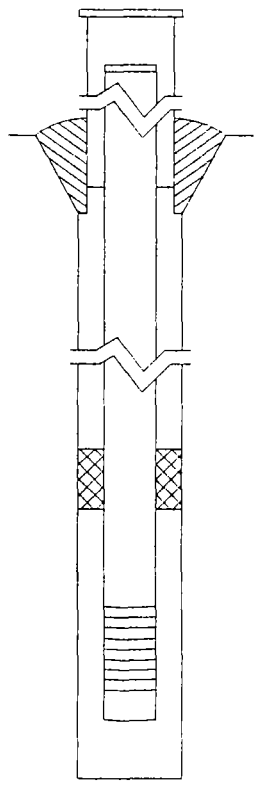
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.95	0	TOP OF PROTECTIVE CASING
429.67	0.28	TOP OF RISER PIPE
429.95	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.95	3.00	TOP OF SEAL
421.95	8.00	TOP OF SANDPACK
420.95	9.00	TOP OF SCREEN
414.95	15.00	BOTTOM OF SCREEN
414.95	15.00	BOTTOM OF WELL
405.25	24.70	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	8.72
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	14.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-46B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-46

STATE PLANE COORDINATE: X 2317326.65E Y 790607.11N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/15/04 DATE FINISHED: 07/15/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: Poured

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

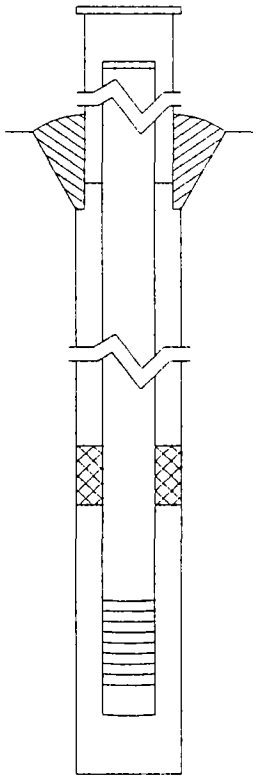
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.95	0	TOP OF PROTECTIVE CASING
429.65	0.30	TOP OF RISER PIPE
429.95	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
414.85	15.10	TOP OF SEAL
411.95	18.00	TOP OF SANDPACK
411.45	18.50	TOP OF SCREEN
405.45	24.50	BOTTOM OF SCREEN
405.45	24.50	BOTTOM OF WELL
405.25	24.70	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.2
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.20
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-46C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-46

STATE PLANE COORDINATE: X 2317322.18E Y 790607.05N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/15/04 DATE FINISHED: 07/15/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/24/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

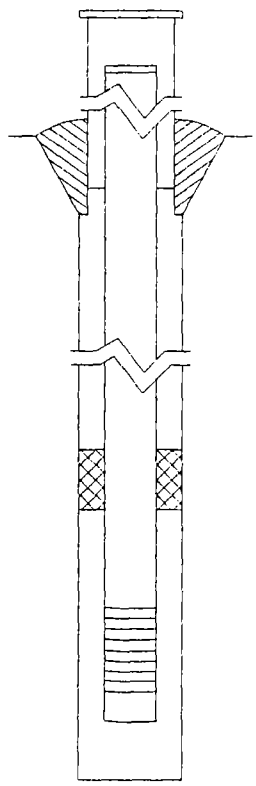
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.99	0	TOP OF PROTECTIVE CASING
429.60	0.39	TOP OF RISER PIPE
429.99	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.99	3.00	TOP OF SEAL
404.49	25.50	TOP OF SANDPACK
403.19	26.80	TOP OF SCREEN
388.49	41.50	BOTTOM OF SCREEN
399.19	41.80	BOTTOM OF WELL
386.99	43.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	26.41
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	41.41
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-47A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-47

STATE PLANE COORDINATE: X 2317468.21E Y 790607.11N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/19/04 DATE FINISHED: 07/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 9/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

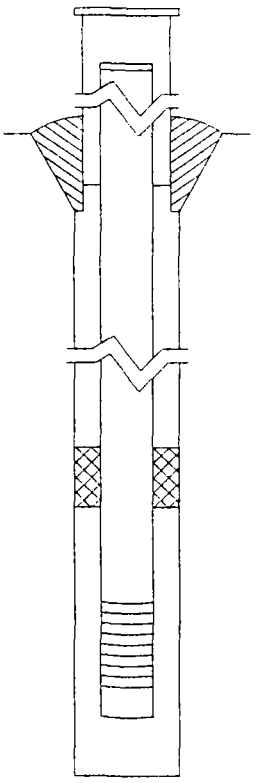
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.35	0	TOP OF PROTECTIVE CASING
429.12	0.23	TOP OF RISER PIPE
429.35	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.35	3.00	TOP OF SEAL
421.85	7.50	TOP OF SANDPACK
420.85	8.50	TOP OF SCREEN
414.85	14.50	BOTTOM OF SCREEN
414.85	14.50	BOTTOM OF WELL
406.55	22.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	8.27
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	14.27
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-47B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-47

STATE PLANE COORDINATE: X 2317468.08E Y 790607.21N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/16/04 DATE FINISHED: 07/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

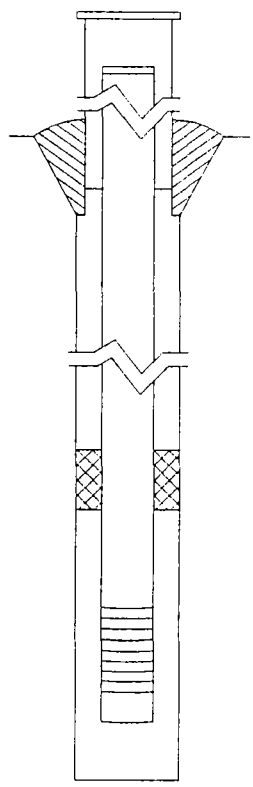
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.35	0	TOP OF PROTECTIVE CASING
429.11	0.24	TOP OF RISER PIPE
429.35	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.35	3.00	TOP OF SEAL
411.15	18.20	TOP OF SANDPACK
410.55	18.80	TOP OF SCREEN
406.55	22.80	BOTTOM OF SCREEN
406.55	22.80	BOTTOM OF WELL
406.55	22.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.56
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	22.56
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-47C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-47

STATE PLANE COORDINATE: X 2317464.03E Y 790607.04N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Thomas

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Thomas DATE STARTED: 07/16/04 DATE FINISHED: 07/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 9/20/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

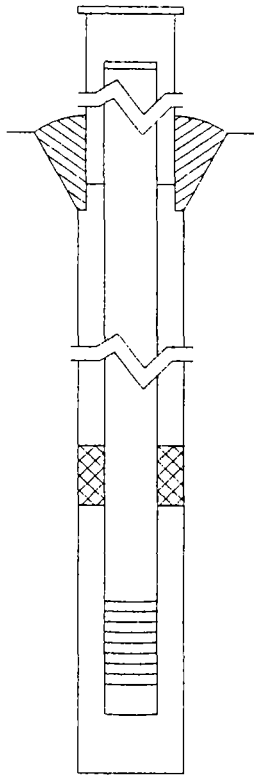
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.42	0	TOP OF PROTECTIVE CASING
429.01	0.41	TOP OF RISER PIPE
429.42	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.42	3.00	TOP OF SEAL
402.42	27.00	TOP OF SANDPACK
405.87	23.55	TOP OF SCREEN
391.07	38.25	BOTTOM OF SCREEN
390.87	38.55	BOTTOM OF WELL
386.42	43.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.14
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	38.14
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-48A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-48

STATE PLANE COORDINATE: X 2316603.37E Y 790447.01N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/03/04 DATE FINISHED: 08/03/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

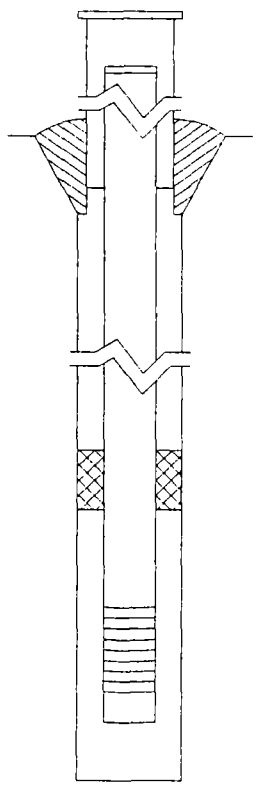
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.61	0	TOP OF PROTECTIVE CASING
429.29	0.32	TOP OF RISER PIPE
429.61	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.61	3.00	TOP OF SEAL
421.11	8.50	TOP OF SANDPACK
420.11	9.50	TOP OF SCREEN
410.11	19.50	BOTTOM OF SCREEN
410.11	19.50	BOTTOM OF WELL
398.61	31.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	9.18
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	10.0
TOTAL LENGTH OF CASING (ft)	19.18
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-48B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-48

STATE PLANE COORDINATE: X 2316603.51E Y 790447.10N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/03/04 DATE FINISHED: 08/03/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

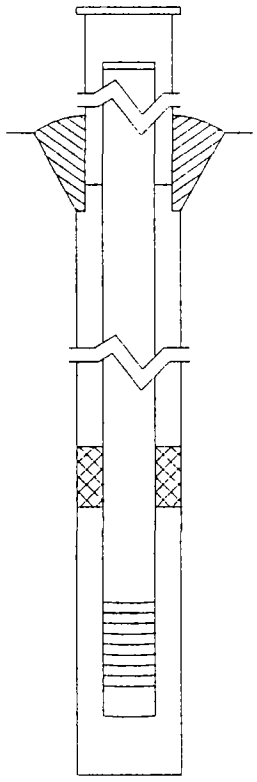
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.61	0	TOP OF PROTECTIVE CASING
429.29	0.32	TOP OF RISER PIPE
429.61	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.61	3.00	TOP OF SEAL
407.11	22.50	TOP OF SANDPACK
406.61	23.00	TOP OF SCREEN
398.61	31.00	BOTTOM OF SCREEN
398.61	31.00	BOTTOM OF WELL
398.61	31.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	22.68
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.0
TOTAL LENGTH OF CASING (ft)	30.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-48C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-48

STATE PLANE COORDINATE: X 2316606.54E Y 790447.15N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (40 gal.)

LOGGED BY: S. Doxtader DATE STARTED: 08/02/04 DATE FINISHED: 08/03/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

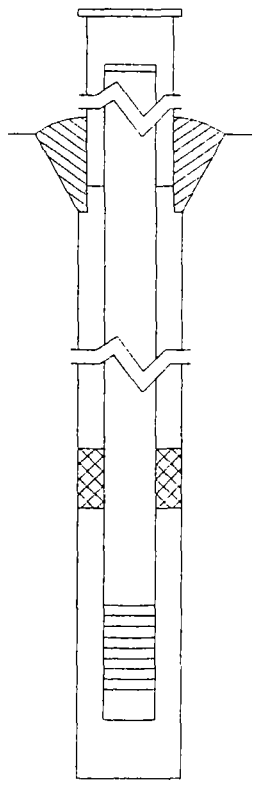
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.80	0	TOP OF PROTECTIVE CASING
429.49	0.31	TOP OF RISER PIPE
429.80	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.80	3.00	TOP OF SEAL
397.30	32.50	TOP OF SANDPACK
396.80	33.00	TOP OF SCREEN
382.10	47.70	BOTTOM OF SCREEN
381.80	48.00	BOTTOM OF WELL
370.80	59.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	32.69
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	47.69
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-49A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-49

STATE PLANE COORDINATE: X 2316824.39E Y 790524.36N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford. Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/10/04 DATE FINISHED: 08/10/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

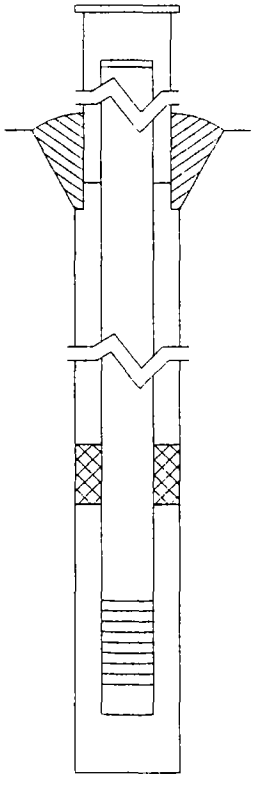
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
433.10	0	TOP OF PROTECTIVE CASING
432.81	0.29	TOP OF RISER PIPE
433.10	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
430.10	3.00	TOP OF SEAL
427.10	6.00	TOP OF SANDPACK
426.60	6.50	TOP OF SCREEN
421.60	11.50	BOTTOM OF SCREEN
421.60	11.50	BOTTOM OF WELL
408.60	24.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.21
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	11.21
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-49B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-49

STATE PLANE COORDINATE: X 2316824.54E Y 790524.69N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/10/04 DATE FINISHED: 08/10/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

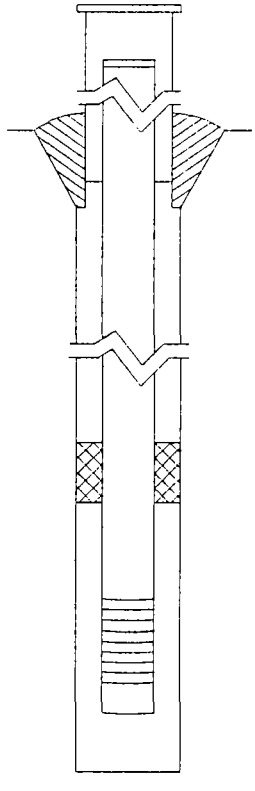
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
433.10	0	TOP OF PROTECTIVE CASING
432.82	0.28	TOP OF RISER PIPE
433.10	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
430.10	3.00	TOP OF SEAL
411.60	21.50	TOP OF SANDPACK
410.60	22.50	TOP OF SCREEN
408.60	24.50	BOTTOM OF SCREEN
408.60	24.50	BOTTOM OF WELL
408.60	24.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	22.22
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	24.22
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-49C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-49

STATE PLANE COORDINATE: X 2316824.60E Y 790528.89N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (75 gal.)

LOGGED BY: H. Mendygral DATE STARTED: 08/10/04 DATE FINISHED: 08/10/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

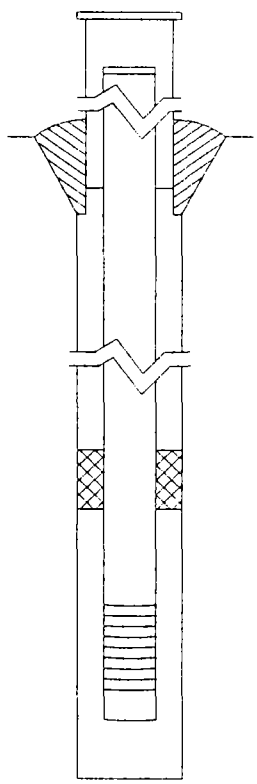
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
433.10	0	TOP OF PROTECTIVE CASING
432.80	0.30	TOP OF RISER PIPE
433.10	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
430.10	3.00	TOP OF SEAL
405.80	27.30	TOP OF SANDPACK
404.80	28.30	TOP OF SCREEN
390.10	43.00	BOTTOM OF SCREEN
389.80	43.30	BOTTOM OF WELL
384.60	48.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28.0
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.00
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-50A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-50

STATE PLANE COORDINATE: X 2317029.03E Y 790516.25N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

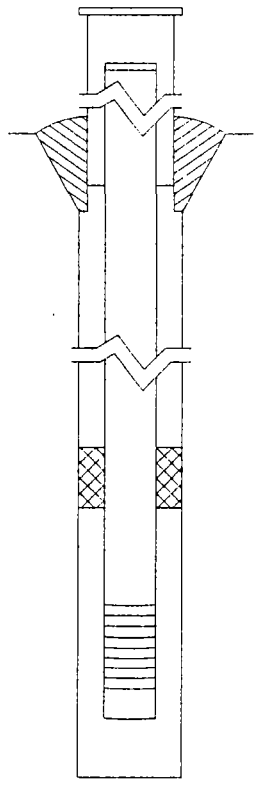
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.63	0	TOP OF PROTECTIVE CASING
430.38	0.25	TOP OF RISER PIPE
430.63	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.63	3.00	TOP OF SEAL
424.63	6.00	TOP OF SANDPACK
423.63	7.00	TOP OF SCREEN
415.63	15.00	BOTTOM OF SCREEN
415.63	15.00	BOTTOM OF WELL
415.63	15.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.75
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.0
TOTAL LENGTH OF CASING (ft)	14.75
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-50B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-50

STATE PLANE COORDINATE: X 2317028.78E Y 790507.07N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: R. Martin

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: R. Martin DATE STARTED: 07/23/04 DATE FINISHED: 07/23/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

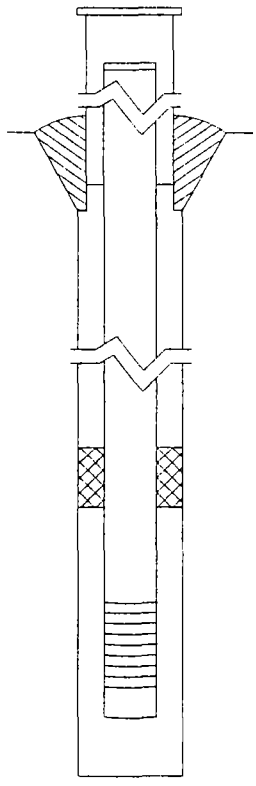
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.56	0	TOP OF PROTECTIVE CASING
430.24	0.32	TOP OF RISER PIPE
430.56	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.56	3.00	TOP OF SEAL
413.06	17.50	TOP OF SANDPACK
412.06	18.50	TOP OF SCREEN
406.06	24.50	BOTTOM OF SCREEN
406.06	24.50	BOTTOM OF WELL
406.06	24.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.18
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.18
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-50C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-50

STATE PLANE COORDINATE: X 2317029.03E Y 790511.06N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: R. Martin

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: R. Martin DATE STARTED: 07/23/04 DATE FINISHED: 07/23/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/17/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

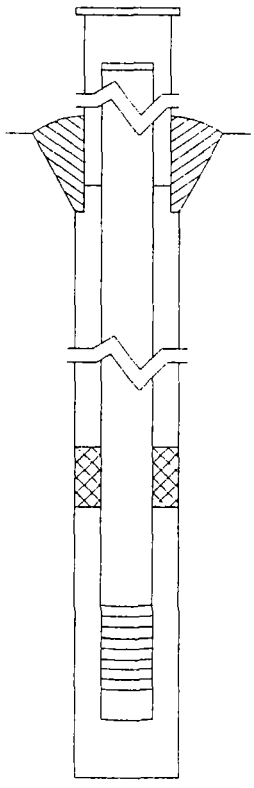
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.57	0	TOP OF PROTECTIVE CASING
430.23	0.34	TOP OF RISER PIPE
430.57	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.57	3.00	TOP OF SEAL
401.77	28.80	TOP OF SANDPACK
401.27	29.30	TOP OF SCREEN
386.57	44.00	BOTTOM OF SCREEN
386.27	44.30	BOTTOM OF WELL
385.57	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28.96
BOTTOM OF SCREEN TO END CAP (ft)	3.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.96
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-51A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-51

STATE PLANE COORDINATE: X 2317341.48E Y 790438.72N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

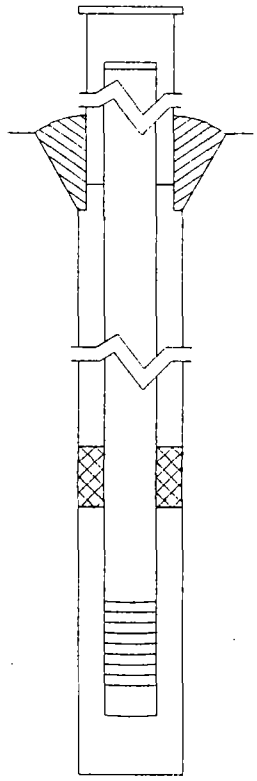
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
431.24	0	TOP OF PROTECTIVE CASING
430.90	0.34	TOP OF RISER PIPE
431.24	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.24	3.00	TOP OF SEAL
425.24	6.00	TOP OF SANDPACK
424.04	7.20	TOP OF SCREEN
421.04	10.20	BOTTOM OF SCREEN
421.04	10.20	BOTTOM OF WELL
421.04	10.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.86
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	9.86
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-51B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-51

STATE PLANE COORDINATE: X 2317344.24E Y 790438.72N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: R. Martin

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: R. Martin DATE STARTED: 07/22/04 DATE FINISHED: 07/22/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

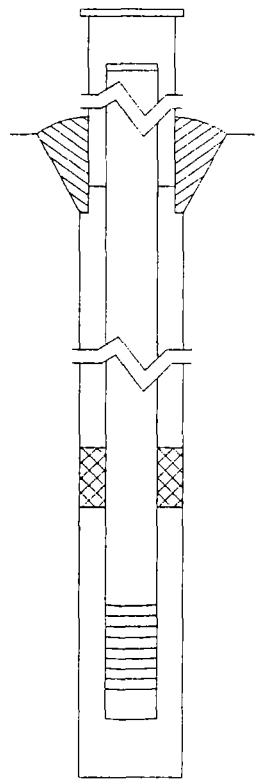
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.22	0	TOP OF PROTECTIVE CASING
430.91	0.31	TOP OF RISER PIPE
431.22	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.22	3.00	TOP OF SEAL
418.22	13.00	TOP OF SANDPACK
417.72	13.50	TOP OF SCREEN
415.72	15.50	BOTTOM OF SCREEN
415.72	15.50	BOTTOM OF WELL
406.22	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	13.19
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	15.19
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-51C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-51

STATE PLANE COORDINATE: X 2317344.04E Y 790438.57N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: R. Martin

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: R. Martin DATE STARTED: 07/22/04 DATE FINISHED: 07/22/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

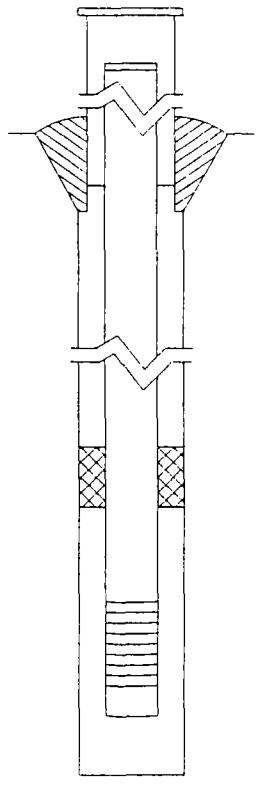
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.22	0	TOP OF PROTECTIVE CASING
430.93	0.29	TOP OF RISER PIPE
431.22	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.22	3.00	TOP OF SEAL
412.72	18.50	TOP OF SANDPACK
412.22	19.00	TOP OF SCREEN
406.22	25.00	BOTTOM OF SCREEN
406.22	25.00	BOTTOM OF WELL
406.22	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.71
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-51D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-51

STATE PLANE COORDINATE: X 2317348.00E Y 790438.83N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/22/04 DATE FINISHED: 07/22/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

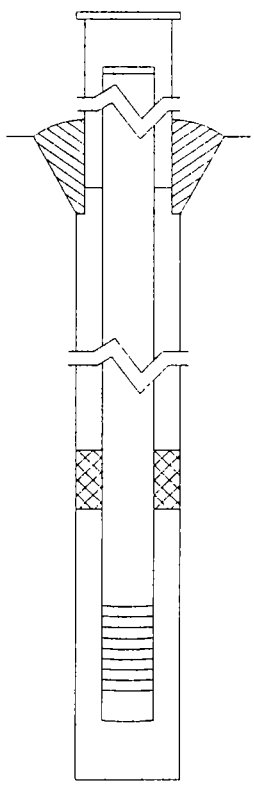
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
431.29	0	TOP OF PROTECTIVE CASING
430.99	0.30	TOP OF RISER PIPE
431.29	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.29	3.00	TOP OF SEAL
403.49	27.80	TOP OF SANDPACK
402.99	28.30	TOP OF SCREEN
388.29	43.00	BOTTOM OF SCREEN
387.99	43.30	BOTTOM OF WELL
386.29	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.00
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-52A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-52

STATE PLANE COORDINATE: X 2317024.69E Y 790350.87N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/26/04 DATE FINISHED: 07/26/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL:

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

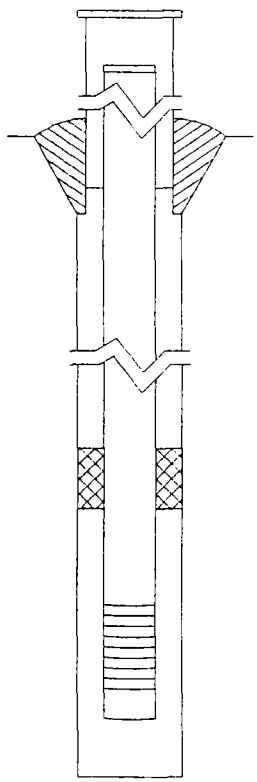
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.29	0	TOP OF PROTECTIVE CASING
429.96	0.33	TOP OF RISER PIPE
430.29	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.29	3.00	TOP OF SEAL
424.29	6.00	TOP OF SANDPACK
423.79	6.50	TOP OF SCREEN
419.79	10.50	BOTTOM OF SCREEN
419.79	10.50	BOTTOM OF WELL
407.49	22.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.17
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	10.17
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-52B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-52

STATE PLANE COORDINATE: X 2317024.46E Y 790350.77N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: P. Anderson

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: P. Anderson DATE STARTED: 07/26/04 DATE FINISHED: 07/26/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

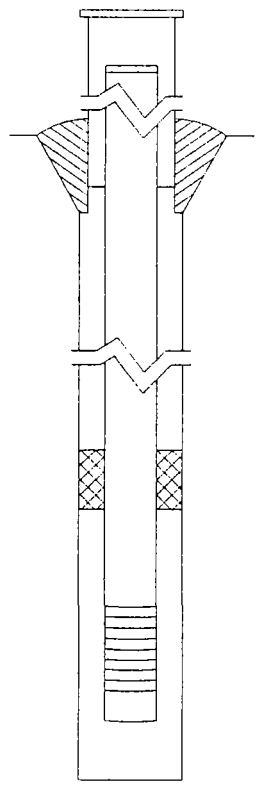
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.29	0	TOP OF PROTECTIVE CASING
429.97	0.32	TOP OF RISER PIPE
430.29	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.29	3.00	TOP OF SEAL
414.49	15.80	TOP OF SANDPACK
413.49	16.80	TOP OF SCREEN
407.49	22.80	BOTTOM OF SCREEN
407.49	22.80	BOTTOM OF WELL
407.49	22.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	16.48
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	22.48
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-52C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-52

STATE PLANE COORDINATE: X 2317024.06E Y 790346.03N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/23/04 DATE FINISHED: 07/23/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

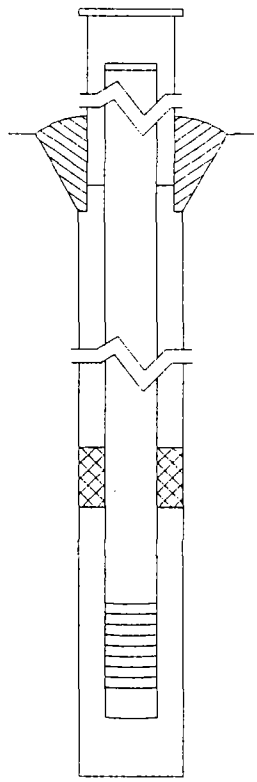
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.31	0	TOP OF PROTECTIVE CASING
429.99	0.32	TOP OF RISER PIPE
430.31	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.31	3.00	TOP OF SEAL
403.31	27.00	TOP OF SANDPACK
402.31	28.00	TOP OF SCREEN
387.61	42.70	BOTTOM OF SCREEN
387.31	43.00	BOTTOM OF WELL
380.31	50.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	27.68
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	42.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-53A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-53

STATE PLANE COORDINATE: X 2317252.40E Y 790299.80N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Faus

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/28/04 DATE FINISHED: 07/28/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

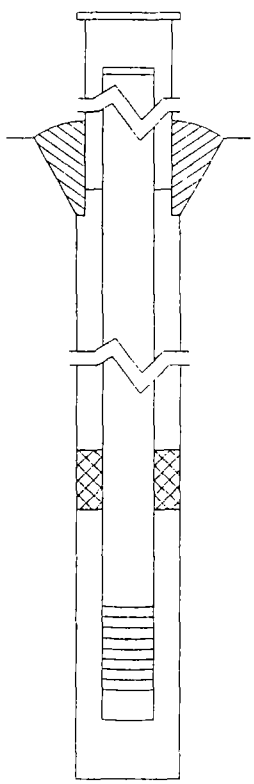
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.92	0	TOP OF PROTECTIVE CASING
430.59	0.33	TOP OF RISER PIPE
430.92	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.92	3.00	TOP OF SEAL
424.92	6.00	TOP OF SANDPACK
423.92	7.00	TOP OF SCREEN
418.92	12.00	BOTTOM OF SCREEN
418.92	12.00	BOTTOM OF WELL
405.92	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.67
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	11.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-53B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-53

STATE PLANE COORDINATE: X 2317252.27E Y 790299.94N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Faus

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/28/04 DATE FINISHED: 07/28/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

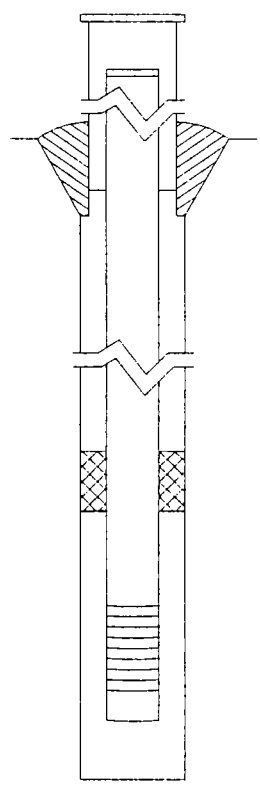
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.92	0	TOP OF PROTECTIVE CASING
430.60	0.32	TOP OF RISER PIPE
430.92	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.92	3.00	TOP OF SEAL
412.92	18.00	TOP OF SANDPACK
411.92	19.00	TOP OF SCREEN
405.92	25.00	BOTTOM OF SCREEN
405.92	25.00	BOTTOM OF WELL
405.92	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.68
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-53C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-53

STATE PLANE COORDINATE: X 2317250.31E Y 790296.16N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/21/04 DATE FINISHED: 07/21/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

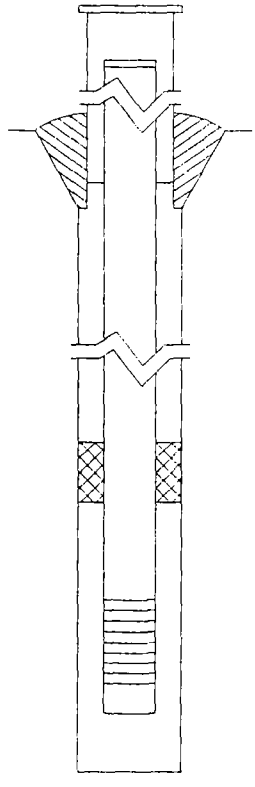
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.88	0	TOP OF PROTECTIVE CASING
430.64	0.24	TOP OF RISER PIPE
430.88	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.88	3.00	TOP OF SEAL
402.58	28.30	TOP OF SANDPACK
401.58	29.30	TOP OF SCREEN
386.88	44.00	BOTTOM OF SCREEN
386.58	44.30	BOTTOM OF WELL
382.88	48.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.06
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	44.06
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-54A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-54

STATE PLANE COORDINATE: X 2317421.53E Y 790300.05N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/26/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

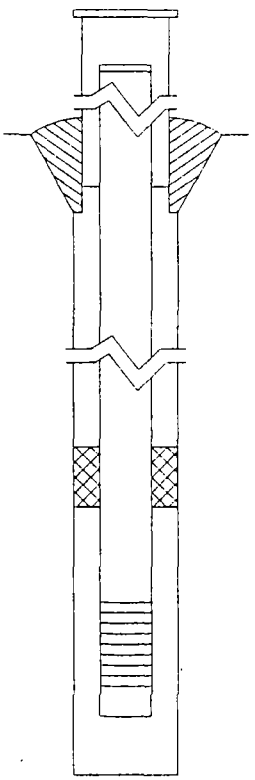
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.34	0	TOP OF PROTECTIVE CASING
430.00	0.34	TOP OF RISER PIPE
430.34	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.34	3.00	TOP OF SEAL
423.34	7.00	TOP OF SANDPACK
422.44	7.90	TOP OF SCREEN
417.44	12.90	BOTTOM OF SCREEN
417.44	12.90	BOTTOM OF WELL
405.34	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	7.56
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	12.56
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-54B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-54

STATE PLANE COORDINATE: X 2317421.43E Y 790299.95N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/26/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

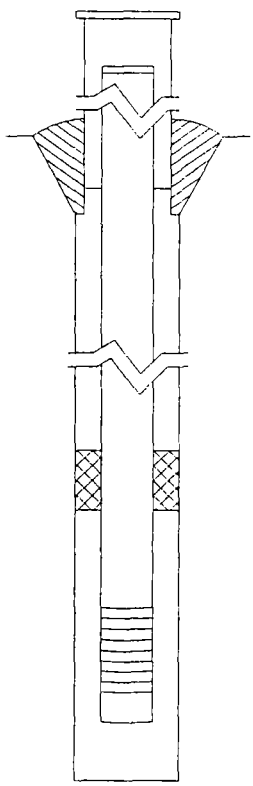
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.34	0	TOP OF PROTECTIVE CASING
429.99	0.35	TOP OF RISER PIPE
430.34	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.34	3.00	TOP OF SEAL
412.34	18.00	TOP OF SANDPACK
411.34	19.00	TOP OF SCREEN
405.34	25.00	BOTTOM OF SCREEN
405.34	25.00	BOTTOM OF WELL
405.34	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.65
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.65
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-54C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-54

STATE PLANE COORDINATE: X 2317417.63E Y 790299.94N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/27/04 DATE FINISHED: 07/27/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

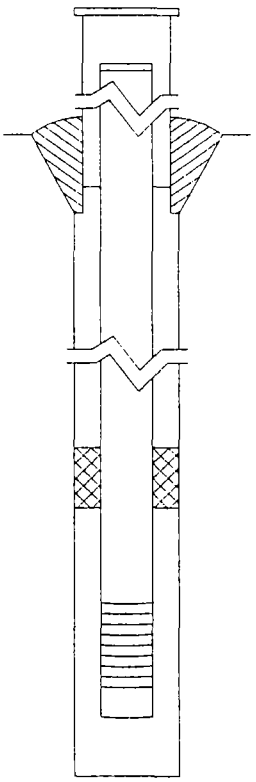
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.36	0	TOP OF PROTECTIVE CASING
430.06	0.30	TOP OF RISER PIPE
430.36	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.36	3.00	TOP OF SEAL
400.11	30.25	TOP OF SANDPACK
398.86	31.50	TOP OF SCREEN
384.16	46.20	BOTTOM OF SCREEN
383.86	46.50	BOTTOM OF WELL
380.36	50.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	31.20
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	46.20
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-55A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-55

STATE PLANE COORDINATE: X 2317578.22E Y 790296.16N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (7 gal.)

LOGGED BY: N. Bolivar DATE STARTED: 07/21/04 DATE FINISHED: 07/21/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

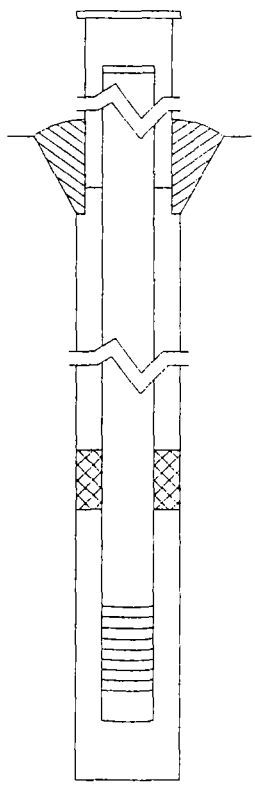
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.98	0	TOP OF PROTECTIVE CASING
429.65	0.33	TOP OF RISER PIPE
429.98	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.98	3.00	TOP OF SEAL
423.68	6.30	TOP OF SANDPACK
422.68	7.30	TOP OF SCREEN
412.68	17.30	BOTTOM OF SCREEN
412.68	17.30	BOTTOM OF WELL
412.28	17.70	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.97
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	10.0
TOTAL LENGTH OF CASING (ft)	16.97
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-55B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-55

STATE PLANE COORDINATE: X 2317574.06E Y 790296.29N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/21/04 DATE FINISHED: 07/21/04

REPORT FORM COMPLETED BY: M. Germann DATE: 9/20/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

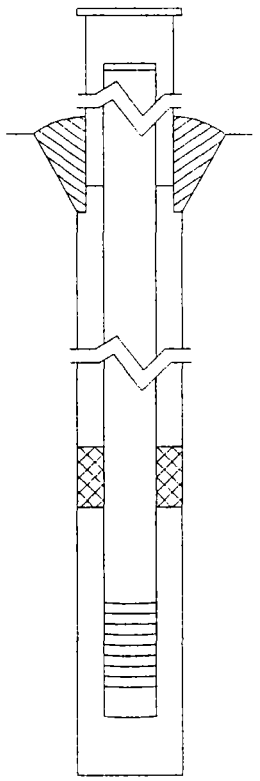
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.99	0	TOP OF PROTECTIVE CASING
429.64	0.35	TOP OF RISER PIPE
429.99	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.99	3.00	TOP OF SEAL
411.19	18.80	TOP OF SANDPACK
410.69	19.30	TOP OF SCREEN
405.69	24.30	BOTTOM OF SCREEN
405.69	24.30	BOTTOM OF WELL
405.69	24.30	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.95
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	23.95
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-55C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-55

STATE PLANE COORDINATE: X 2317567.46E Y 790296.54N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: A. Schultz DATE STARTED: 07/20/04 DATE FINISHED: 07/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

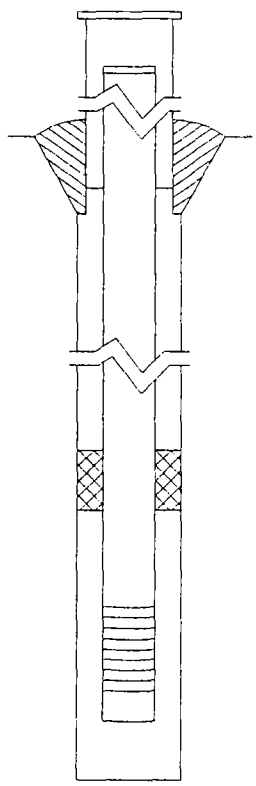
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.98	0	TOP OF PROTECTIVE CASING
429.67	0.31	TOP OF RISER PIPE
429.98	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.98	3.00	TOP OF SEAL
402.48	27.50	TOP OF SANDPACK
401.48	28.50	TOP OF SCREEN
386.78	43.20	BOTTOM OF SCREEN
386.48	43.50	BOTTOM OF WELL
384.98	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	28.19
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	43.19
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-56A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-56

STATE PLANE COORDINATE: X 2317359.18E Y 790124.52N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/22/04 DATE FINISHED: 07/22/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

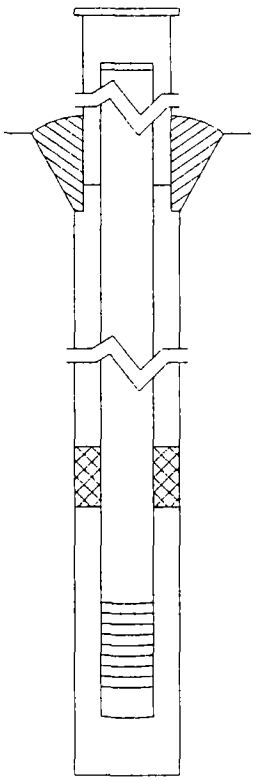
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.57	0	TOP OF PROTECTIVE CASING
430.25	0.32	TOP OF RISER PIPE
430.57	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.57	3.00	TOP OF SEAL
424.57	6.00	TOP OF SANDPACK
424.07	6.50	TOP OF SCREEN
419.07	11.50	BOTTOM OF SCREEN
419.07	11.50	BOTTOM OF WELL
402.07	28.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.18
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	11.18
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-56B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-56

STATE PLANE COORDINATE: X 2317358.95E Y 790124.43N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: N. Bolivar

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: N. Bolivar DATE STARTED: 07/22/04 DATE FINISHED: 07/22/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

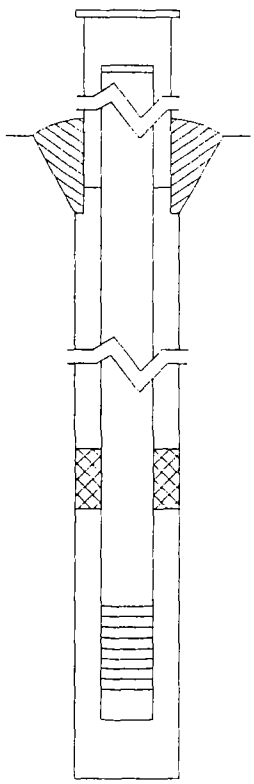
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.57	0	TOP OF PROTECTIVE CASING
430.25	0.32	TOP OF RISER PIPE
430.57	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.57	3.00	TOP OF SEAL
409.57	21.00	TOP OF SANDPACK
408.57	22.00	TOP OF SCREEN
402.57	28.00	BOTTOM OF SCREEN
402.57	28.00	BOTTOM OF WELL
402.07	28.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.68
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	27.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-56C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-56

STATE PLANE COORDINATE: X 2317354.91E Y 790124.53N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: CF Drilling DRILLER: C. Fauth

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/26/04 DATE FINISHED: 07/26/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

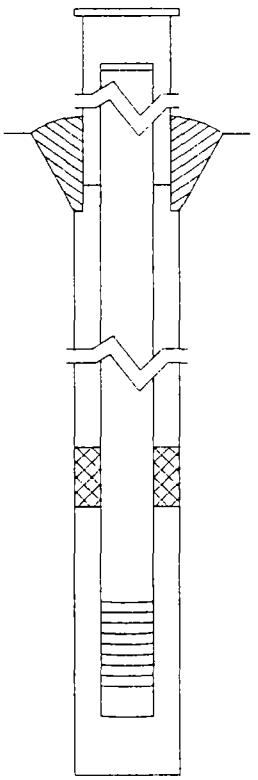
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.50	0	TOP OF PROTECTIVE CASING
430.15	0.35	TOP OF RISER PIPE
430.50	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.50	3.00	TOP OF SEAL
401.20	29.30	TOP OF SANDPACK
400.50	30.00	TOP OF SCREEN
385.80	44.70	BOTTOM OF SCREEN
385.50	45.00	BOTTOM OF WELL
385.20	45.30	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.65
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	44.65
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-57A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-57

STATE PLANE COORDINATE: X 2317517.55E Y 789975.22N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/23/04 DATE FINISHED: 07/23/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

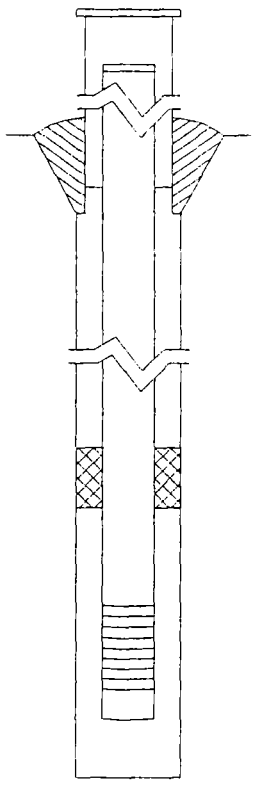
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.32	0	TOP OF PROTECTIVE CASING
429.05	0.27	TOP OF RISER PIPE
429.32	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.32	3.00	TOP OF SEAL
422.32	7.00	TOP OF SANDPACK
421.32	8.00	TOP OF SCREEN
414.32	15.00	BOTTOM OF SCREEN
414.32	15.00	BOTTOM OF WELL
404.82	24.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	7.73
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	7.0
TOTAL LENGTH OF CASING (ft)	14.73
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-57B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-57

STATE PLANE COORDINATE: X 2317517.33E Y 789975.06N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 07/23/04 DATE FINISHED: 07/23/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

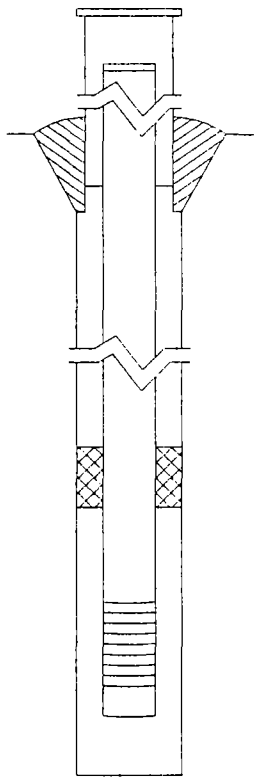
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.32	0	TOP OF PROTECTIVE CASING
429.04	0.28	TOP OF RISER PIPE
429.32	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.32	3.00	TOP OF SEAL
411.32	18.00	TOP OF SANDPACK
410.82	18.50	TOP OF SCREEN
404.82	24.50	BOTTOM OF SCREEN
404.82	24.50	BOTTOM OF WELL
404.82	24.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.22
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	24.22
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-57C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-57

STATE PLANE COORDINATE: X 2317514.26E Y 789974.97N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (75 gal.)

LOGGED BY: S. Doxtader DATE STARTED: 08/02/04 DATE FINISHED: 08/02/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

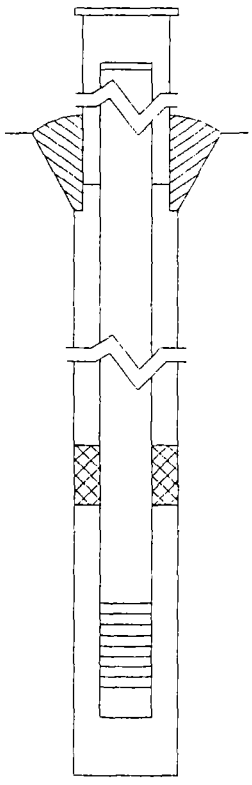
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.31	0	TOP OF PROTECTIVE CASING
428.99	0.32	TOP OF RISER PIPE
429.31	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.31	3.00	TOP OF SEAL
400.81	28.50	TOP OF SANDPACK
399.81	29.50	TOP OF SCREEN
385.01	44.20	BOTTOM OF SCREEN
384.81	44.50	BOTTOM OF WELL
374.31	55.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.18
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	44.18
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-58A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-58

STATE PLANE COORDINATE: X 2317352.87E Y 789811.29N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: C. Clark

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: C. Clark DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

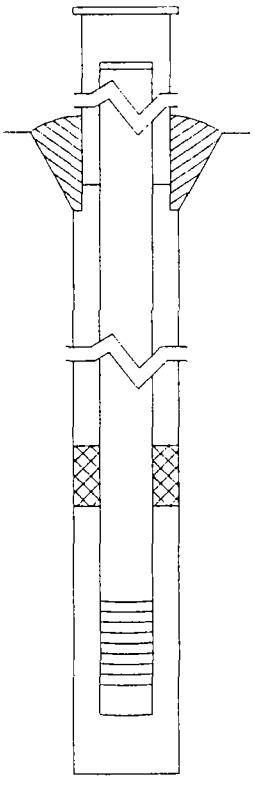
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.62	0	TOP OF PROTECTIVE CASING
430.29	0.33	TOP OF RISER PIPE
430.62	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.62	3.00	TOP OF SEAL
424.62	6.00	TOP OF SANDPACK
424.12	6.50	TOP OF SCREEN
420.12	10.50	BOTTOM OF SCREEN
419.92	10.70	BOTTOM OF WELL
408.22	22.40	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.17
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	10.17
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-58B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-58

STATE PLANE COORDINATE: X 2317353.05E Y 789811.13N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: C. Clark

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: C. Clark DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

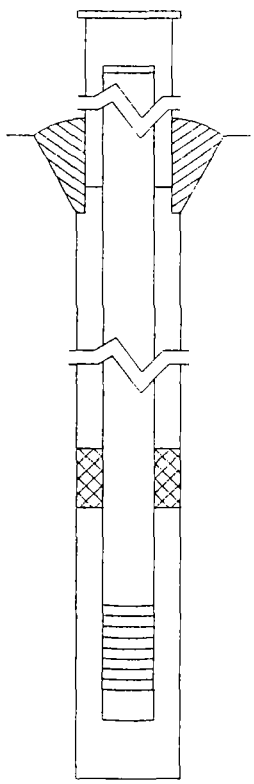
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.62	0	TOP OF PROTECTIVE CASING
430.29	0.33	TOP OF RISER PIPE
430.62	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.62	3.00	TOP OF SEAL
415.12	15.50	TOP OF SANDPACK
414.12	16.50	TOP OF SCREEN
409.12	21.50	BOTTOM OF SCREEN
409.12	21.50	BOTTOM OF WELL
408.22	22.40	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	4
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	16.17
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	21.17
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-58C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-58

STATE PLANE COORDINATE: X 2317343.36E Y 789809.75N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: C. Clark

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (25 gal.)

LOGGED BY: C. Clark DATE STARTED: 08/05/04 DATE FINISHED: 08/05/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

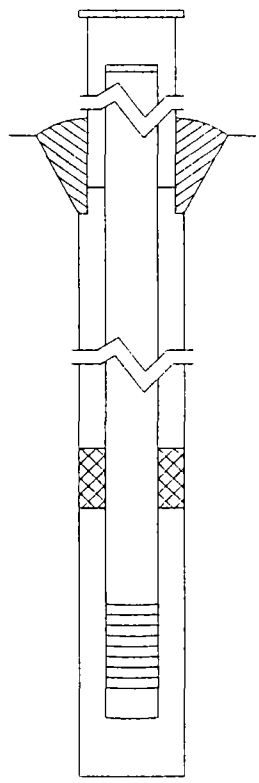
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.73	0	TOP OF PROTECTIVE CASING
430.33	0.40	TOP OF RISER PIPE
430.73	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.73	3.00	TOP OF SEAL
407.23	23.50	TOP OF SANDPACK
406.23	24.50	TOP OF SCREEN
391.53	39.20	BOTTOM OF SCREEN
391.23	39.50	BOTTOM OF WELL
390.53	40.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	24.1
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	39.10
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-59A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-59

STATE PLANE COORDINATE: X 2317053.91E Y 789808.70N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Transhield DRILLER: J. Luna

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: A. Schultz DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

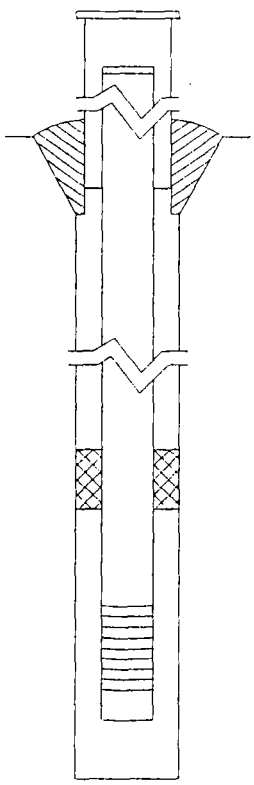
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.48	0	TOP OF PROTECTIVE CASING
429.97	0.51	TOP OF RISER PIPE
430.48	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.48	3.00	TOP OF SEAL
424.48	6.00	TOP OF SANDPACK
423.98	6.50	TOP OF SCREEN
420.98	9.50	BOTTOM OF SCREEN
420.98	9.50	BOTTOM OF WELL
411.48	19.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	5.99
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	8.99
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-59B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-59

STATE PLANE COORDINATE: X 2317054.42E Y 789808.74N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Transhield DRILLER: J. Luna

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: A. Schultz DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

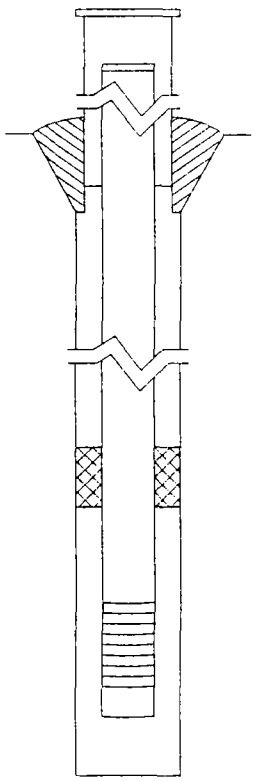
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.48	0	TOP OF PROTECTIVE CASING
429.88	0.60	TOP OF RISER PIPE
430.48	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.48	3.00	TOP OF SEAL
417.98	12.50	TOP OF SANDPACK
417.48	13.00	TOP OF SCREEN
411.48	19.00	BOTTOM OF SCREEN
411.48	19.00	BOTTOM OF WELL
411.48	19.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	12.4
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.0
TOTAL LENGTH OF CASING (ft)	18.40
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-59C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-59

STATE PLANE COORDINATE: X 2317047.65E Y 789808.39N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Transhield DRILLER: J. Luna

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: A. Schultz

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (20 gal.)

LOGGED BY: A. Schultz DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

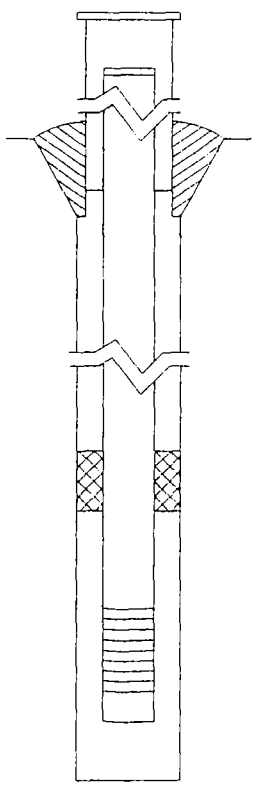
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.46	0	TOP OF PROTECTIVE CASING
429.90	0.56	TOP OF RISER PIPE
430.46	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.46	3.00	TOP OF SEAL
409.46	21.00	TOP OF SANDPACK
408.46	22.00	TOP OF SCREEN
393.76	36.70	BOTTOM OF SCREEN
393.46	37.00	BOTTOM OF WELL
393.46	37.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.44
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	36.44
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-60A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-60

STATE PLANE COORDINATE: X 2317544.01E Y 789811.18N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/09/04 DATE FINISHED: 08/09/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

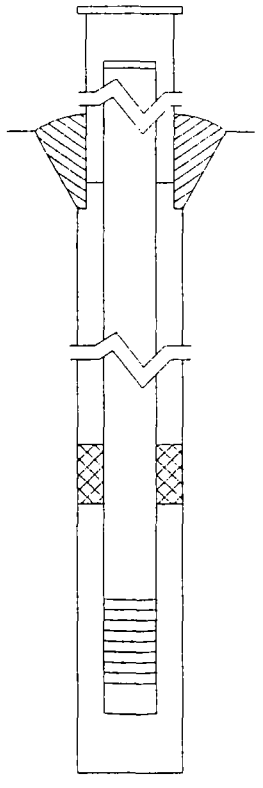
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.53	0	TOP OF PROTECTIVE CASING
429.21	0.32	TOP OF RISER PIPE
429.53	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.53	3.00	TOP OF SEAL
424.03	5.50	TOP OF SANDPACK
423.53	6.00	TOP OF SCREEN
419.53	10.00	BOTTOM OF SCREEN
419.53	10.00	BOTTOM OF WELL
408.33	21.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	5.68
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	9.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-60B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-60

STATE PLANE COORDINATE: X 2317543.97E Y 789811.03N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/09/04 DATE FINISHED: 08/09/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

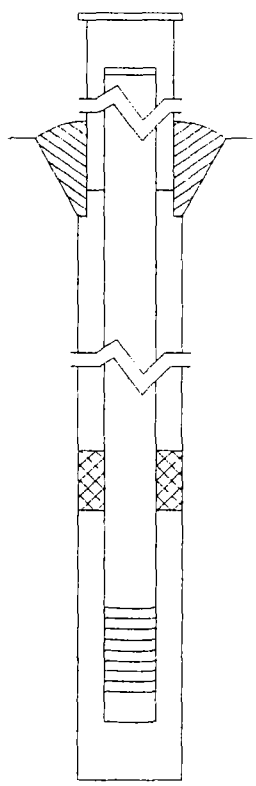
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.53	0	TOP OF PROTECTIVE CASING
429.20	0.33	TOP OF RISER PIPE
429.53	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.53	3.00	TOP OF SEAL
414.33	15.20	TOP OF SANDPACK
413.33	16.20	TOP OF SCREEN
408.33	21.20	BOTTOM OF SCREEN
408.33	21.20	BOTTOM OF WELL
408.33	21.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	15.87
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	20.87
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-60C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-60

STATE PLANE COORDINATE: X 2317546.99E Y 789810.43N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (75 gal.)

LOGGED BY: H. Mendygral DATE STARTED: 08/09/04 DATE FINISHED: 08/09/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

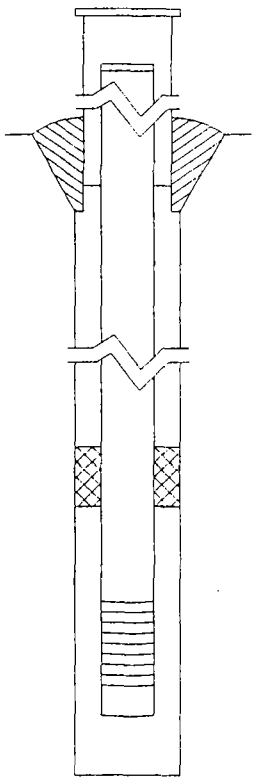
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.56	0	TOP OF PROTECTIVE CASING
429.21	0.35	TOP OF RISER PIPE
429.56	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.56	3.00	TOP OF SEAL
408.56	21.00	TOP OF SANDPACK
407.56	22.00	TOP OF SCREEN
392.86	36.70	BOTTOM OF SCREEN
392.56	37.00	BOTTOM OF WELL
385.56	44.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.65
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	36.65
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-61A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-61

STATE PLANE COORDINATE: X 2317046.71E Y 789496.96N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/12/04 DATE FINISHED: 08/12/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

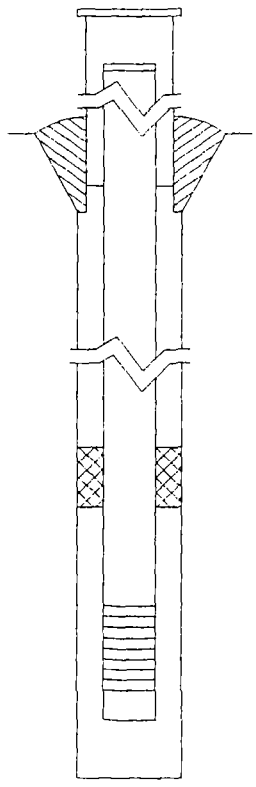
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.28	0	TOP OF PROTECTIVE CASING
429.98	0.30	TOP OF RISER PIPE
430.28	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.28	3.00	TOP OF SEAL
424.28	6.00	TOP OF SANDPACK
423.78	6.50	TOP OF SCREEN
419.78	10.50	BOTTOM OF SCREEN
419.78	10.50	BOTTOM OF WELL
408.48	21.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.2
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	10.20
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-61B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-61

STATE PLANE COORDINATE: X 2317046.86E Y 789497.04N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/12/04 DATE FINISHED: 08/12/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

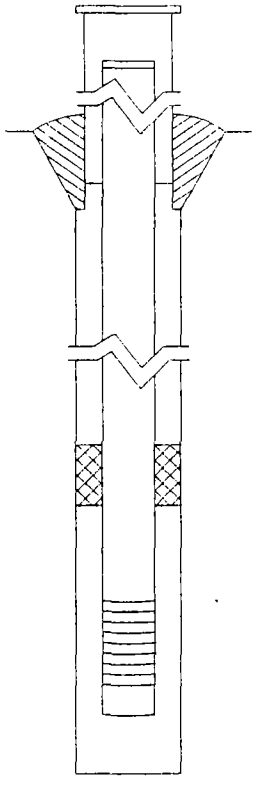
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.28	0	TOP OF PROTECTIVE CASING
429.98	0.30	TOP OF RISER PIPE
430.28	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.28	3.00	TOP OF SEAL
413.58	16.70	TOP OF SANDPACK
412.58	17.70	TOP OF SCREEN
408.58	21.70	BOTTOM OF SCREEN
408.58	21.70	BOTTOM OF WELL
408.48	21.80	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	17.4
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	21.40
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-61C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-61

STATE PLANE COORDINATE: X 2317042.58E Y 789496.80N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (50 gal.)

LOGGED BY: H. Mendygral DATE STARTED: 08/12/04 DATE FINISHED: 08/12/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

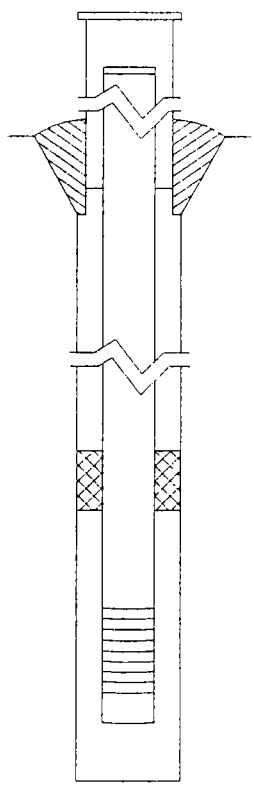
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.33	0	TOP OF PROTECTIVE CASING
430.00	0.33	TOP OF RISER PIPE
430.33	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.33	3.00	TOP OF SEAL
408.83	21.50	TOP OF SANDPACK
408.33	22.00	TOP OF SCREEN
393.63	36.70	BOTTOM OF SCREEN
393.33	37.00	BOTTOM OF WELL
386.33	44.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.67
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	36.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-62A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-62

STATE PLANE COORDINATE: X 2317369.64E Y 789495.56N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford. Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

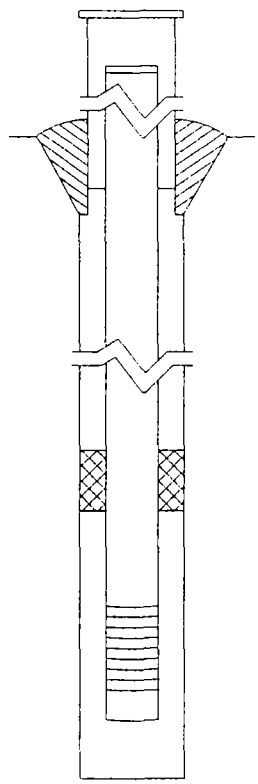
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.43	0	TOP OF PROTECTIVE CASING
429.11	0.32	TOP OF RISER PIPE
429.43	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.43	3.00	TOP OF SEAL
423.93	5.50	TOP OF SANDPACK
423.43	6.00	TOP OF SCREEN
419.43	10.00	BOTTOM OF SCREEN
419.43	10.00	BOTTOM OF WELL
410.93	18.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	5.68
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	9.68
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-62B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-62

STATE PLANE COORDINATE: X 2317369.77E Y 789495.45N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

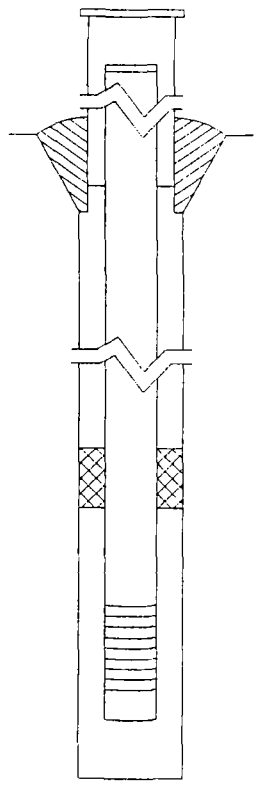
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.43	0	TOP OF PROTECTIVE CASING
429.11	0.32	TOP OF RISER PIPE
429.43	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.43	3.00	TOP OF SEAL
414.93	14.50	TOP OF SANDPACK
413.93	15.50	TOP OF SCREEN
410.93	18.50	BOTTOM OF SCREEN
410.93	18.50	BOTTOM OF WELL
410.93	18.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	15.18
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	18.18
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-62C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-62

STATE PLANE COORDINATE: X 2317366.57E Y 789495.05N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal)

LOGGED BY: G. Tiernan DATE STARTED: 08/16/04 DATE FINISHED: 08/16/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

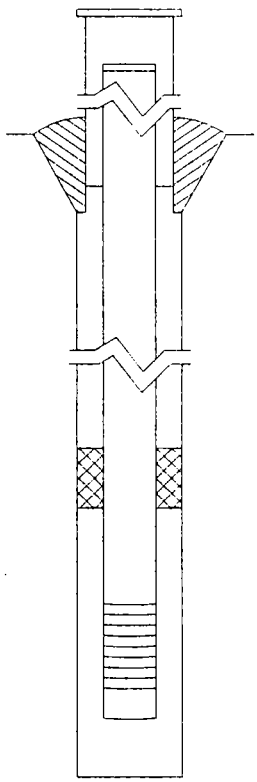
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.39	0	TOP OF PROTECTIVE CASING
428.94	0.45	TOP OF RISER PIPE
429.39	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.39	3.00	TOP OF SEAL
408.39	21.00	TOP OF SANDPACK
407.39	22.00	TOP OF SCREEN
392.69	36.70	BOTTOM OF SCREEN
392.39	37.00	BOTTOM OF WELL
392.39	37.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.55
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	36.55
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-63A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-63

STATE PLANE COORDINATE: X 2317594.34E Y 789498.78N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

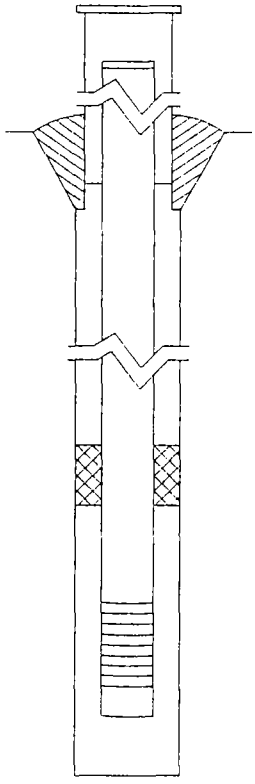
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.53	0	TOP OF PROTECTIVE CASING
429.26	0.27	TOP OF RISER PIPE
429.53	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.53	3.00	TOP OF SEAL
423.53	6.00	TOP OF SANDPACK
423.03	6.50	TOP OF SCREEN
419.03	10.50	BOTTOM OF SCREEN
419.03	10.50	BOTTOM OF WELL
409.33	20.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.23
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	10.23
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-63B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-63

STATE PLANE COORDINATE: X 2317594.44E Y 789489.59N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

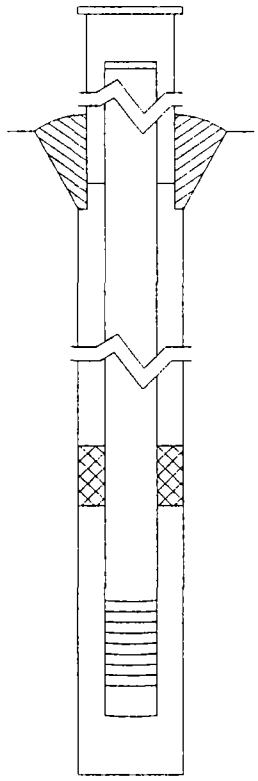
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.53	0	TOP OF PROTECTIVE CASING
429.26	0.27	TOP OF RISER PIPE
429.53	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.53	3.00	TOP OF SEAL
415.33	14.20	TOP OF SANDPACK
414.33	15.20	TOP OF SCREEN
409.33	20.20	BOTTOM OF SCREEN
409.33	20.20	BOTTOM OF WELL
409.33	20.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	14.93
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	19.93
SCREEN SLOT SIZE **	0.01

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-63C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-63

STATE PLANE COORDINATE: X 2317589.66E Y 789490.44N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: C. Clark

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (25 gal.)

LOGGED BY: C. Clark DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

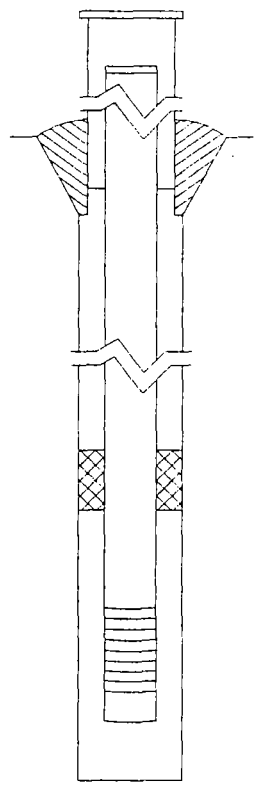
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.62	0	TOP OF PROTECTIVE CASING
429.29	0.33	TOP OF RISER PIPE
429.62	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.62	3.00	TOP OF SEAL
408.62	21.00	TOP OF SANDPACK
407.62	22.00	TOP OF SCREEN
392.92	36.70	BOTTOM OF SCREEN
392.62	37.00	BOTTOM OF WELL
392.12	37.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.67
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	36.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-64A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-64

STATE PLANE COORDINATE: X 2317571.58E Y 789662.24N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

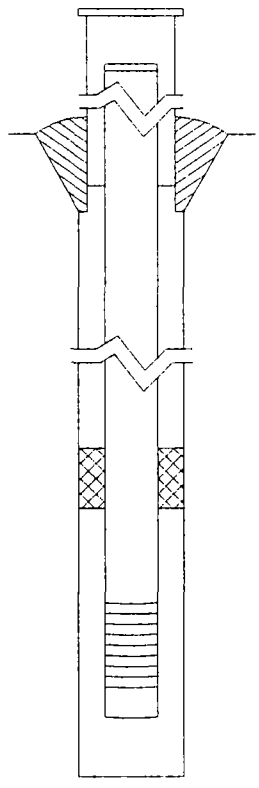
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.01	0	TOP OF PROTECTIVE CASING
428.73	0.28	TOP OF RISER PIPE
429.01	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.01	3.00	TOP OF SEAL
423.51	5.50	TOP OF SANDPACK
423.01	6.00	TOP OF SCREEN
419.01	10.00	BOTTOM OF SCREEN
419.01	10.00	BOTTOM OF WELL
407.01	22.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	5.72
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	9.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-64B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-64

STATE PLANE COORDINATE: X 2317571.62E Y 789661.99N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: S. Doxtader DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

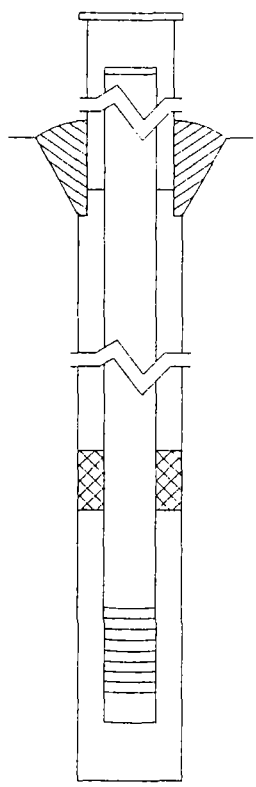
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.01	0	TOP OF PROTECTIVE CASING
428.74	0.27	TOP OF RISER PIPE
429.01	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
426.01	3.00	TOP OF SEAL
413.01	16.00	TOP OF SANDPACK
412.01	17.00	TOP OF SCREEN
407.01	22.00	BOTTOM OF SCREEN
407.01	22.00	BOTTOM OF WELL
407.01	22.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	16.73
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	21.73
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-64C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-64

STATE PLANE COORDINATE: X 2317577.75E Y 789662.38N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: S. Doxtader

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (50 gal.)

LOGGED BY: S. Doxtader DATE STARTED: 08/06/04 DATE FINISHED: 08/06/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

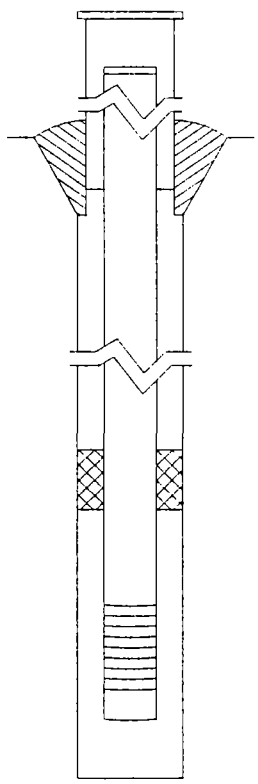
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
428.96	0	TOP OF PROTECTIVE CASING
428.69	0.27	TOP OF RISER PIPE
428.96	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
425.96	3.00	TOP OF SEAL
407.96	21.00	TOP OF SANDPACK
406.96	22.00	TOP OF SCREEN
392.26	36.70	BOTTOM OF SCREEN
391.96	37.00	BOTTOM OF WELL
384.96	44.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	21.73
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	36.73
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-65A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-65

STATE PLANE COORDINATE: X 2316994.62E Y 789074.94N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

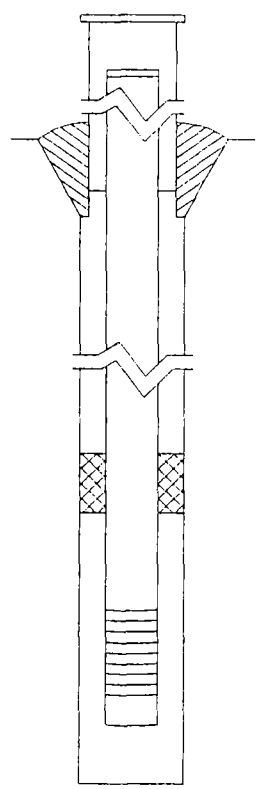
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.76	0	TOP OF PROTECTIVE CASING
431.41	0.35	TOP OF RISER PIPE
431.76	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.76	3.00	TOP OF SEAL
422.86	8.90	TOP OF SANDPACK
421.96	9.80	TOP OF SCREEN
414.96	16.80	BOTTOM OF SCREEN
414.96	16.80	BOTTOM OF WELL
406.26	25.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	9.45
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	7.0
TOTAL LENGTH OF CASING (ft)	16.45
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-65B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-65

STATE PLANE COORDINATE: X 2316994.50E Y 789074.63N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

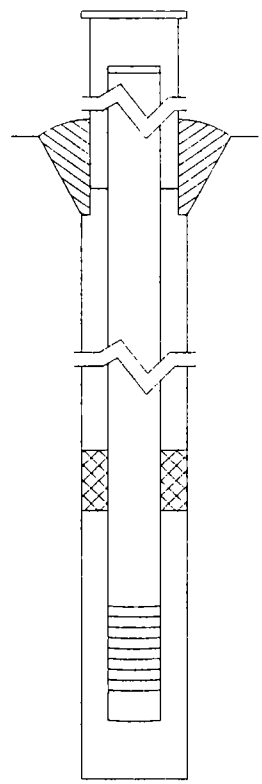
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.76	0	TOP OF PROTECTIVE CASING
431.44	0.32	TOP OF RISER PIPE
431.76	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.76	3.00	TOP OF SEAL
411.76	20.00	TOP OF SANDPACK
411.26	20.50	TOP OF SCREEN
406.26	25.50	BOTTOM OF SCREEN
406.26	25.50	BOTTOM OF WELL
406.26	25.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	20.18
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	5.0
TOTAL LENGTH OF CASING (ft)	25.18
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-65C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-65

STATE PLANE COORDINATE: X 2316994.82E Y 789072.75N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (100 gal.)

LOGGED BY: J. Campbell DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

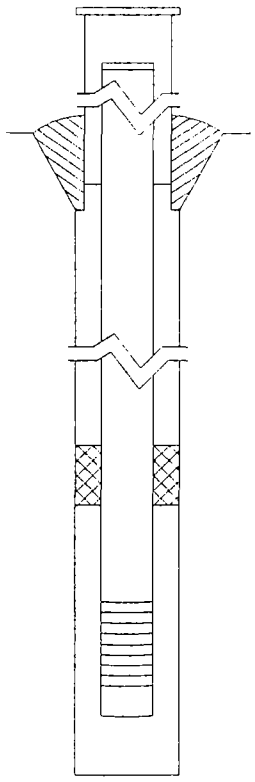
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
431.83	0	TOP OF PROTECTIVE CASING
431.54	0.29	TOP OF RISER PIPE
431.83	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.83	3.00	TOP OF SEAL
407.83	24.00	TOP OF SANDPACK
406.83	25.00	TOP OF SCREEN
392.13	39.70	BOTTOM OF SCREEN
391.83	40.00	BOTTOM OF WELL
386.83	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	24.71
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	39.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-66A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-66

STATE PLANE COORDINATE: X 2317429.90E Y 788860.08N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Service Inc. DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/23/04 DATE FINISHED: 08/23/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

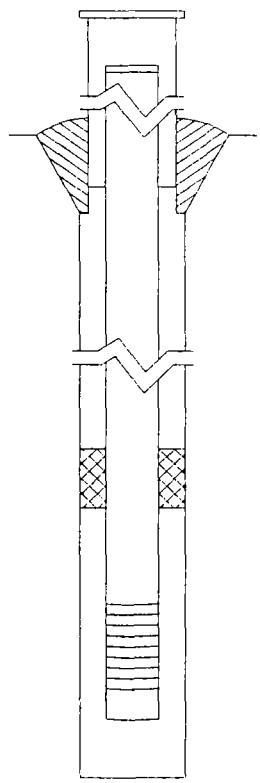
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.10	0	TOP OF PROTECTIVE CASING
430.81	0.29	TOP OF RISER PIPE
431.10	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.10	3.00	TOP OF SEAL
420.10	11.00	TOP OF SANDPACK
419.10	12.00	TOP OF SCREEN
416.10	15.00	BOTTOM OF SCREEN
416.10	15.00	BOTTOM OF WELL
405.10	26.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	11.71
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.0
TOTAL LENGTH OF CASING (ft)	14.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-66B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-66

STATE PLANE COORDINATE: X 2317429.71E Y 788860.33N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Service Inc. DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/23/04 DATE FINISHED: 08/23/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

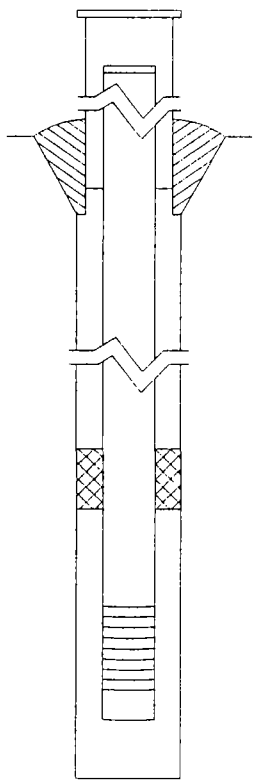
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.10	0	TOP OF PROTECTIVE CASING
430.82	0.28	TOP OF RISER PIPE
431.10	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.10	3.00	TOP OF SEAL
413.40	17.70	TOP OF SANDPACK
412.10	19.00	TOP OF SCREEN
405.10	26.00	BOTTOM OF SCREEN
405.10	26.00	BOTTOM OF WELL
405.10	26.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.72
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	7.0
TOTAL LENGTH OF CASING (ft)	25.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-66C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-66

STATE PLANE COORDINATE: X 2317425.79E Y 788860.33N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (100 gal.)

LOGGED BY: H. Mendygral DATE STARTED: 08/20/04 DATE FINISHED: 08/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

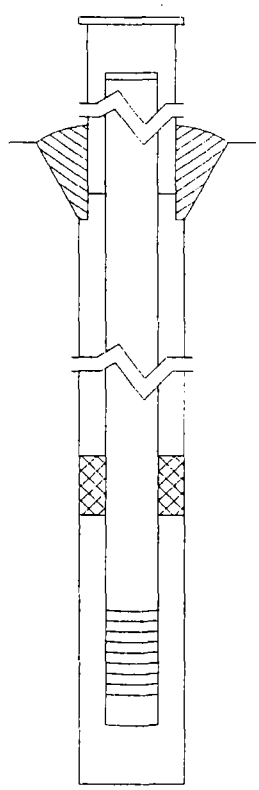
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.12	0	TOP OF PROTECTIVE CASING
430.79	0.33	TOP OF RISER PIPE
431.12	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
428.12	3.00	TOP OF SEAL
407.12	24.00	TOP OF SANDPACK
406.12	25.00	TOP OF SCREEN
391.42	39.70	BOTTOM OF SCREEN
391.12	40.00	BOTTOM OF WELL
386.12	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	24.67
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	39.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-67A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-67

STATE PLANE COORDINATE: X 2317851.11E Y 789079.55N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/20/04 DATE FINISHED: 08/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

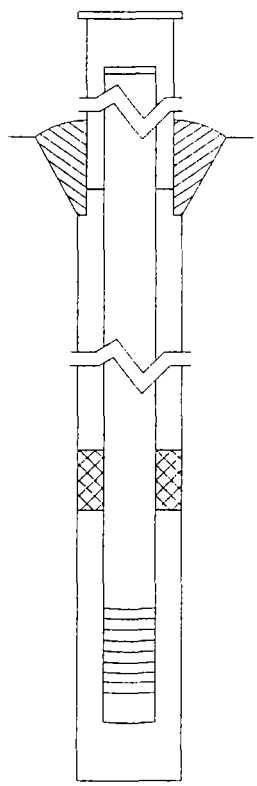
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: .01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.64	0	TOP OF PROTECTIVE CASING
430.29	0.35	TOP OF RISER PIPE
430.64	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.64	3.00	TOP OF SEAL
425.14	5.50	TOP OF SANDPACK
424.24	6.40	TOP OF SCREEN
420.24	10.40	BOTTOM OF SCREEN
420.24	10.40	BOTTOM OF WELL
404.64	26.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.05
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.0
TOTAL LENGTH OF CASING (ft)	10.05
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-67B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-67

STATE PLANE COORDINATE: X 2317851.24E Y 789079.43N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Philip Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/20/04 DATE FINISHED: 08/20/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

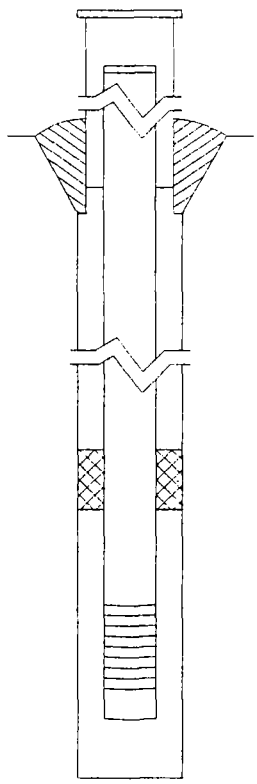
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.64	0	TOP OF PROTECTIVE CASING
430.31	0.33	TOP OF RISER PIPE
430.64	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.64	3.00	TOP OF SEAL
414.64	16.00	TOP OF SANDPACK
413.64	17.00	TOP OF SCREEN
404.64	26.00	BOTTOM OF SCREEN
404.64	26.00	BOTTOM OF WELL
404.64	26.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	1
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	16.67
BOTTOM OF SCREEN TO END CAP (ft)	0.0
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.0
TOTAL LENGTH OF CASING (ft)	25.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: MP-67C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: MP-67

STATE PLANE COORDINATE: X 2317850.18E Y 789083.74N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, & Tilly ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (50 gal.)

LOGGED BY: J. Campbell DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: M. Germann DATE: 09/20/04

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

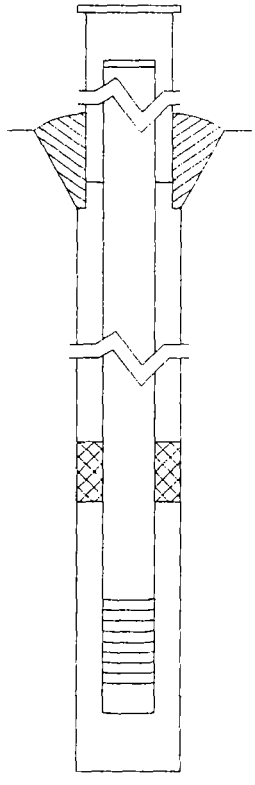
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 01

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.54	0	TOP OF PROTECTIVE CASING
430.19	0.35	TOP OF RISER PIPE
430.54	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
--	--	STATIC WATER LEVEL (AFTER COMPLETION)
427.54	3.00	TOP OF SEAL
406.54	24.00	TOP OF SANDPACK
405.54	25.00	TOP OF SCREEN
390.84	39.70	BOTTOM OF SCREEN
390.54	40.00	BOTTOM OF WELL
385.54	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	24.65
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	39.65
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

APPENDIX C-2

MONITORING WELLS

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-38A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-38

STATE PLANE COORDINATE: X 2316446.87E Y 791598.14N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/17/04 DATE FINISHED: 08/17/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 9/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

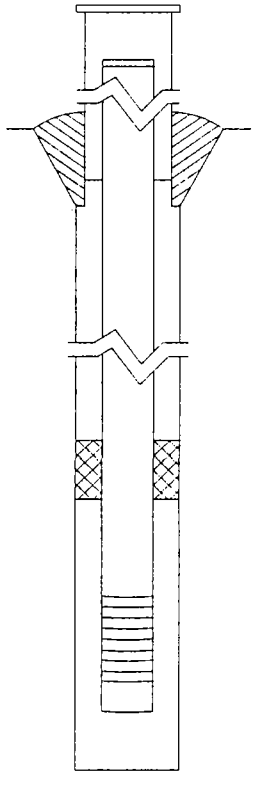
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.46	0	TOP OF PROTECTIVE CASING
430.06	0.40	TOP OF RISER PIPE
430.46	0	GROUND SURFACE
427.46	3.00	TOP OF ANNULAR SEALANT
	----	STATIC WATER LEVEL (AFTER COMPLETION)
424.76	5.70	TOP OF SEAL
421.46	9.00	TOP OF SANDPACK
420.46	10.00	TOP OF SCREEN
413.76	16.70	BOTTOM OF SCREEN
413.46	17.00	BOTTOM OF WELL
413.46	17.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	9.6
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.7
TOTAL LENGTH OF CASING (ft)	16.60
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-38B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-38

STATE PLANE COORDINATE: X 2316447.63E Y 791602.49N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/17/04 DATE FINISHED: 08/17/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 9/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

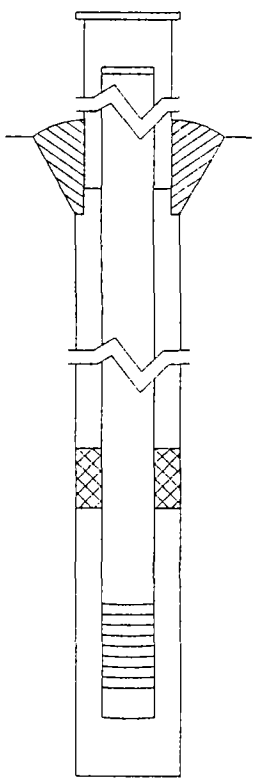
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.43	0	TOP OF PROTECTIVE CASING
430.24	0.19	TOP OF RISER PIPE
430.43	0	GROUND SURFACE
427.43	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
410.93	19.50	TOP OF SEAL
407.93	22.50	TOP OF SANDPACK
406.83	23.60	TOP OF SCREEN
405.13	25.30	BOTTOM OF SCREEN
404.83	25.60	BOTTOM OF WELL
404.83	25.60	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.41
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	1.7
TOTAL LENGTH OF CASING (ft)	25.41
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-38C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-38

STATE PLANE COORDINATE: X 2316448.39E Y 791606.92N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/17/04 DATE FINISHED: 08/17/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

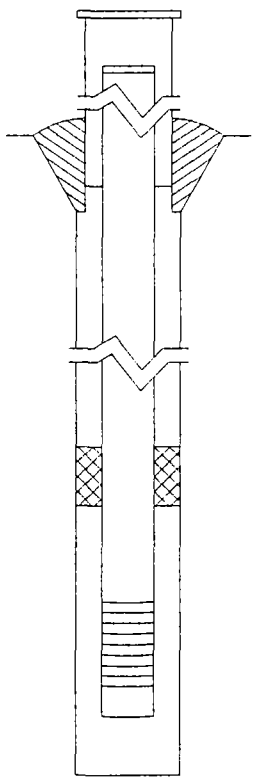
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.43	----	TOP OF PROTECTIVE CASING
430.01	0.42	TOP OF RISER PIPE
430.43	0	GROUND SURFACE
427.43	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
401.73	28.70	TOP OF SEAL
398.73	31.70	TOP OF SANDPACK
398.23	32.20	TOP OF SCREEN
388.53	41.90	BOTTOM OF SCREEN
388.23	42.20	BOTTOM OF WELL
388.23	42.20	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	31.78
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	41.78
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-39A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-39

STATE PLANE COORDINATE: X 2316262.90E Y 791060.33N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/31/04 DATE FINISHED: 08/31/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/10/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

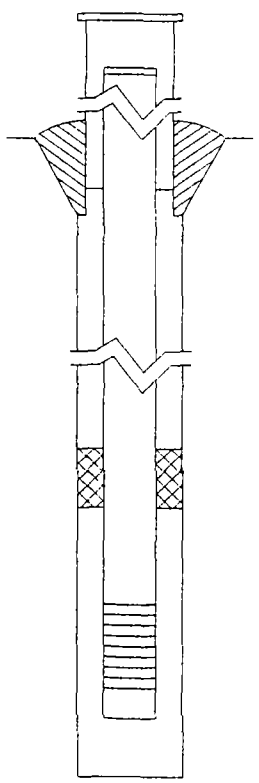
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
426.74	0	TOP OF PROTECTIVE CASING
426.46	0.28	TOP OF RISER PIPE
426.74	0	GROUND SURFACE
NA	NA	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
423.74	3.00	TOP OF SEAL
414.74	12.00	TOP OF SANDPACK
413.74	13.00	TOP OF SCREEN
406.04	20.70	BOTTOM OF SCREEN
405.74	21.00	BOTTOM OF WELL
405.74	21.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	12.72
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	7.7
TOTAL LENGTH OF CASING (ft)	20.72
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-39B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-39

STATE PLANE COORDINATE: X 2316262.80E Y 791064.20N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/31/04 DATE FINISHED: 08/31/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/10/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

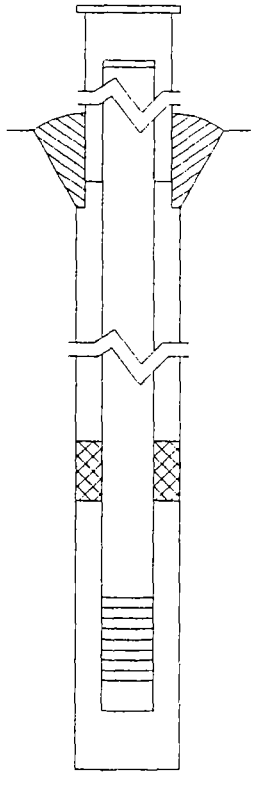
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
426.85	0	TOP OF PROTECTIVE CASING
426.50	0.35	TOP OF RISER PIPE
426.85	0	GROUND SURFACE
423.85	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
409.05	17.80	TOP OF SEAL
404.95	21.90	TOP OF SANDPACK
404.25	22.60	TOP OF SCREEN
397.25	29.60	BOTTOM OF SCREEN
396.85	30.00	BOTTOM OF WELL
396.85	30.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	22.25
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	7.0
TOTAL LENGTH OF CASING (ft)	29.65
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-39C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-39

STATE PLANE COORDINATE: X 2316262.86E Y 791067.84N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (25 gal.)

LOGGED BY: H. Mendygral DATE STARTED: 08/30/04 DATE FINISHED: 08/30/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

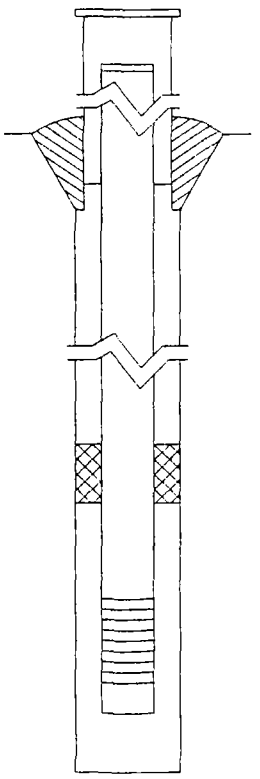
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
426.79	0	TOP OF PROTECTIVE CASING
426.46	0.33	TOP OF RISER PIPE
426.79	0	GROUND SURFACE
423.79	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
399.79	27.00	TOP OF SEAL
395.29	31.50	TOP OF SANDPACK
394.79	32.00	TOP OF SCREEN
385.09	41.70	BOTTOM OF SCREEN
384.79	42.00	BOTTOM OF WELL
383.79	43.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	31.17
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	41.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-40A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-40

STATE PLANE COORDINATE: X 2316354.50E Y 790700.41N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/23/04 DATE FINISHED: 08/23/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

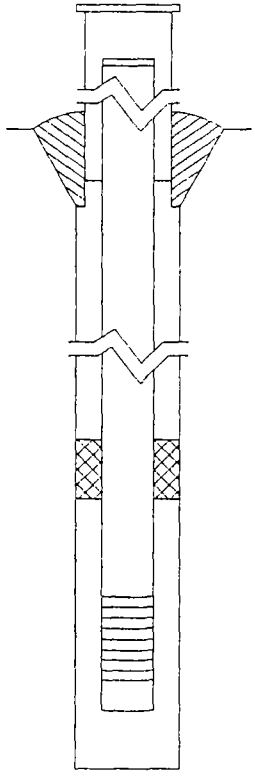
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.27	0	TOP OF PROTECTIVE CASING
425.01	0.26	TOP OF RISER PIPE
425.27	0	GROUND SURFACE
NA	NA	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
422.27	3.00	TOP OF SEAL
417.27	8.00	TOP OF SANDPACK
416.27	9.00	TOP OF SCREEN
412.57	12.70	BOTTOM OF SCREEN
412.27	13.00	BOTTOM OF WELL
412.27	13.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	8.74
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	3.7
TOTAL LENGTH OF CASING (ft)	12.74
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-40B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-40

STATE PLANE COORDINATE: X 2316353.20E Y 790692.37N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/25/04 DATE FINISHED: 08/25/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

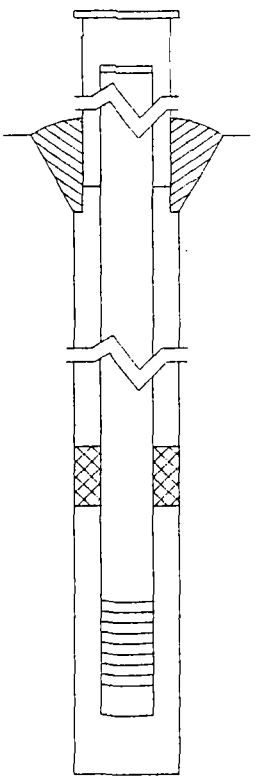
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.17	0	TOP OF PROTECTIVE CASING
424.86	0.31	TOP OF RISER PIPE
425.17	0	GROUND SURFACE
422.17	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
412.17	13.00	TOP OF SEAL
408.67	16.50	TOP OF SANDPACK
407.67	17.50	TOP OF SCREEN
400.47	24.70	BOTTOM OF SCREEN
400.17	25.00	BOTTOM OF WELL
400.17	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	17.19
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	7.2
TOTAL LENGTH OF CASING (ft)	24.69
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-40C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-40

STATE PLANE COORDINATE: X 2316353.97E Y 790695.95N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal.)

LOGGED BY: G. Tiernan DATE STARTED: 08/24/04 DATE FINISHED: 08/24/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

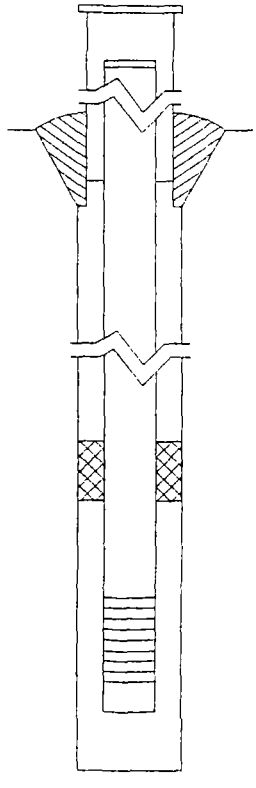
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.26	0	TOP OF PROTECTIVE CASING
424.75	0.51	TOP OF RISER PIPE
425.26	0	GROUND SURFACE
422.26	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
405.26	20.00	TOP OF SEAL
402.26	23.00	TOP OF SANDPACK
401.26	24.00	TOP OF SCREEN
386.56	38.70	BOTTOM OF SCREEN
386.26	39.00	BOTTOM OF WELL
386.26	39.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.49
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	38.49
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-41A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-41

STATE PLANE COORDINATE: X 2316658.78E Y 789984.47N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/20/04 DATE FINISHED: 08/20/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

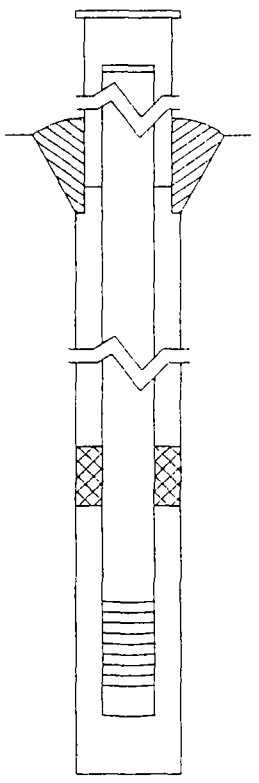
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.71	0	TOP OF PROTECTIVE CASING
425.42	0.29	TOP OF RISER PIPE
425.71	0	GROUND SURFACE
422.71	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
414.71	11.00	TOP OF SEAL
411.71	14.00	TOP OF SANDPACK
410.71	15.00	TOP OF SCREEN
407.72	17.70	BOTTOM OF SCREEN
407.71	18.00	BOTTOM OF WELL
406.71	19.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	14.71
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.7
TOTAL LENGTH OF CASING (ft)	17.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-41B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-41

STATE PLANE COORDINATE: X 2316655.74E Y 789980.68N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

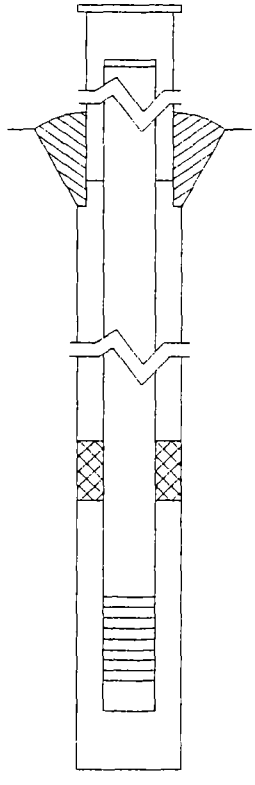
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.91	0	TOP OF PROTECTIVE CASING
425.62	0.29	TOP OF RISER PIPE
425.91	0	GROUND SURFACE
422.91	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
411.41	14.50	TOP OF SEAL
407.91	18.00	TOP OF SANDPACK
407.41	18.50	TOP OF SCREEN
394.21	31.70	BOTTOM OF SCREEN
393.91	32.00	BOTTOM OF WELL
393.91	32.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.21
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	13.2
TOTAL LENGTH OF CASING (ft)	31.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-41C

SITE NAME: *Village of Hartford, Illinois* BOREHOLE #: HMW-41

STATE PLANE COORDINATE: X 2316662.51E Y 789980.76N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: *Hollow Stem Auger* *DRILLING FLUIDS (TYPE):* *Water (50 gal.)*

LOGGED BY: M. Lake DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

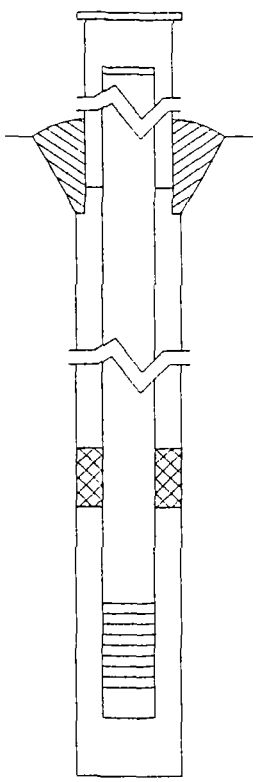
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
426.04	0	TOP OF PROTECTIVE CASING
425.75	0.29	TOP OF RISER PIPE
426.04	0	GROUND SURFACE
423.04	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
396.04	30.00	TOP OF SEAL
392.54	33.50	TOP OF SANDPACK
392.04	34.00	TOP OF SCREEN
377.34	48.70	BOTTOM OF SCREEN
377.04	49.00	BOTTOM OF WELL
375.44	50.60	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	33.71
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	48.71
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-42A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-42

STATE PLANE COORDINATE: X 2317011.10E Y 789593.29N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

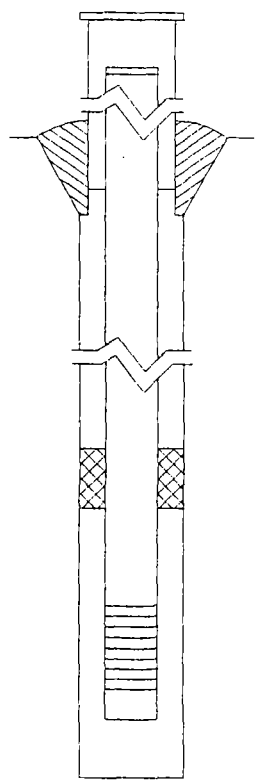
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
431.72	0	TOP OF PROTECTIVE CASING
431.39	0.33	TOP OF RISER PIPE
431.72	0	GROUND SURFACE
428.72	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
417.82	13.90	TOP OF SEAL
414.82	16.90	TOP OF SANDPACK
413.82	17.90	TOP OF SCREEN
405.62	26.10	BOTTOM OF SCREEN
405.22	26.50	BOTTOM OF WELL
405.22	26.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	17.57
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.2
TOTAL LENGTH OF CASING (ft)	26.17
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-42B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-42

STATE PLANE COORDINATE: X 2317011.17E Y 789597.40N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal.)

LOGGED BY: M. Lake DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

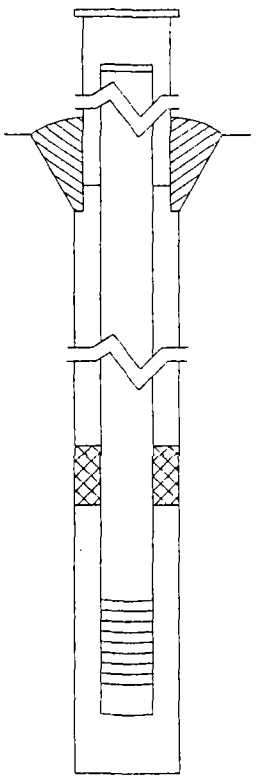
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.80	0	TOP OF PROTECTIVE CASING
431.46	0.34	TOP OF RISER PIPE
431.80	0	GROUND SURFACE
428.80	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
410.80	21.00	TOP OF SEAL
407.80	24.00	TOP OF SANDPACK
406.80	25.00	TOP OF SCREEN
392.10	39.70	BOTTOM OF SCREEN
391.80	40.00	BOTTOM OF WELL
390.80	41.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	24.66
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	39.66
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-43A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-43

STATE PLANE COORDINATE: X 2317780.55E Y 789562.17N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: H. Mendygral DATE STARTED: 08/23/04 DATE FINISHED: 08/23/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

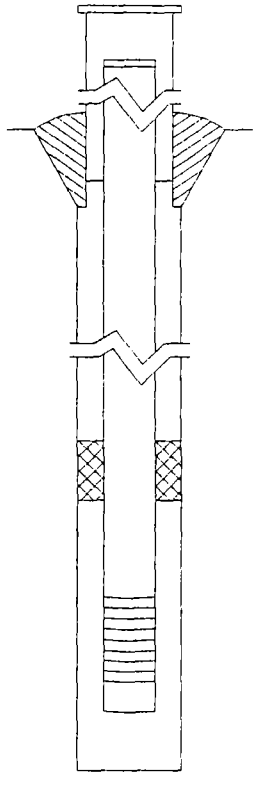
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.15	0	TOP OF PROTECTIVE CASING
428.73	0.42	TOP OF RISER PIPE
429.15	0	GROUND SURFACE
NA	NA	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
426.15	3.00	TOP OF SEAL
418.85	10.30	TOP OF SANDPACK
417.85	11.30	TOP OF SCREEN
411.65	17.50	BOTTOM OF SCREEN
411.35	17.80	BOTTOM OF WELL
411.15	18.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	10.88
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.2
TOTAL LENGTH OF CASING (ft)	17.58
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-43B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-43

STATE PLANE COORDINATE: X 2317780.08E Y 789564.73N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/25/04 DATE FINISHED: 08/25/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

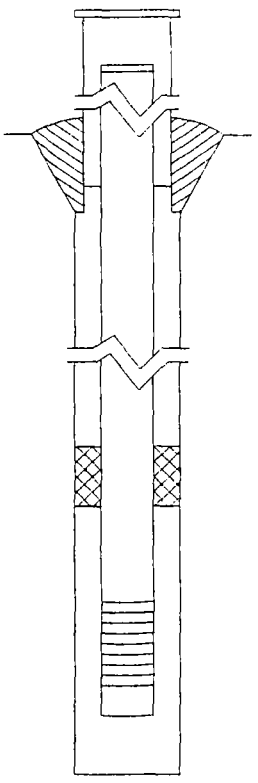
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.19	0	TOP OF PROTECTIVE CASING
428.94	0.25	TOP OF RISER PIPE
429.19	0	GROUND SURFACE
426.19	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
422.69	6.50	TOP OF SEAL
409.59	19.60	TOP OF SANDPACK
408.89	20.30	TOP OF SCREEN
406.89	22.30	BOTTOM OF SCREEN
406.49	22.70	BOTTOM OF WELL
406.49	22.70	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	20.05
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	2.0
TOTAL LENGTH OF CASING (ft)	22.45
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-43C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-43

STATE PLANE COORDINATE: X 2317779.81E Y 789568.56N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: H. Mendygral

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (75 gal.)

LOGGED BY: H. Mendygral DATE STARTED: 08/23/04 DATE FINISHED: 08/23/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

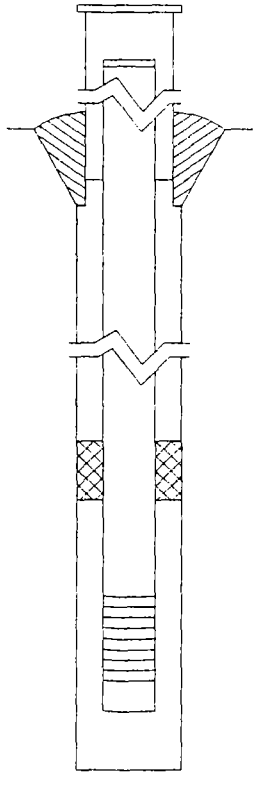
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.19	0	TOP OF PROTECTIVE CASING
428.80	0.39	TOP OF RISER PIPE
429.19	0	GROUND SURFACE
426.19	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
402.49	26.70	TOP OF SEAL
399.19	30.00	TOP OF SANDPACK
398.19	31.00	TOP OF SCREEN
388.49	40.70	BOTTOM OF SCREEN
388.19	41.00	BOTTOM OF WELL
384.19	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	30.61
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	40.61
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-44A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-44

STATE PLANE COORDINATE: X 2317677.94E Y 790138.21N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/25/04 DATE FINISHED: 08/25/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

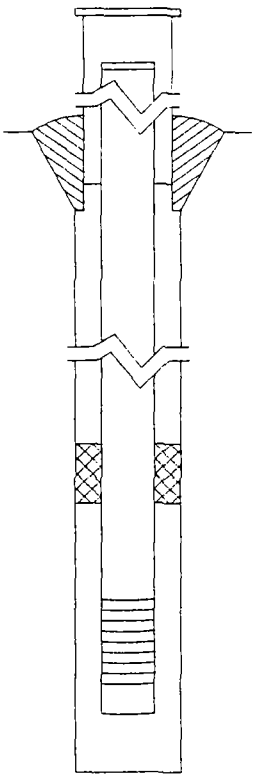
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.85	0	TOP OF PROTECTIVE CASING
429.50	0.35	TOP OF RISER PIPE
429.85	0	GROUND SURFACE
NA	NA	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
426.85	3.00	TOP OF SEAL
423.75	6.10	TOP OF SANDPACK
422.75	7.10	TOP OF SCREEN
413.05	16.80	BOTTOM OF SCREEN
412.75	17.10	BOTTOM OF WELL
412.75	17.10	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	6.75
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	16.75
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-44B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-44

STATE PLANE COORDINATE: X 2317680.40E Y 790129.60N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Mueller

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Mueller DATE STARTED: 08/26/04 DATE FINISHED: 08/26/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

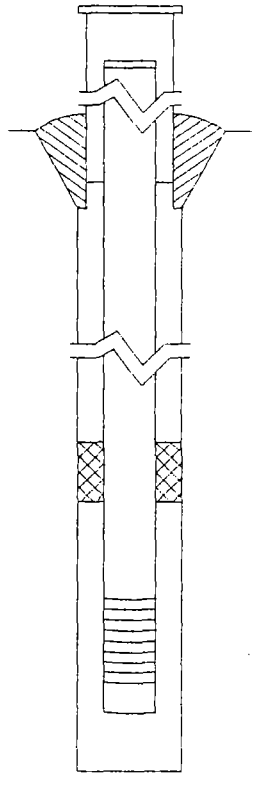
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.83	0	TOP OF PROTECTIVE CASING
429.46	0.37	TOP OF RISER PIPE
429.83	0	GROUND SURFACE
426.83	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
414.83	15.00	TOP OF SEAL
411.33	18.50	TOP OF SANDPACK
410.83	19.00	TOP OF SCREEN
406.13	23.70	BOTTOM OF SCREEN
405.83	24.00	BOTTOM OF WELL
405.83	24.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	18.63
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.7
TOTAL LENGTH OF CASING (ft)	23.63
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-44C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-44

STATE PLANE COORDINATE: X 2317681.76E Y 790122.87N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Mueller

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Mueller DATE STARTED: 08/26/04 DATE FINISHED: 08/26/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

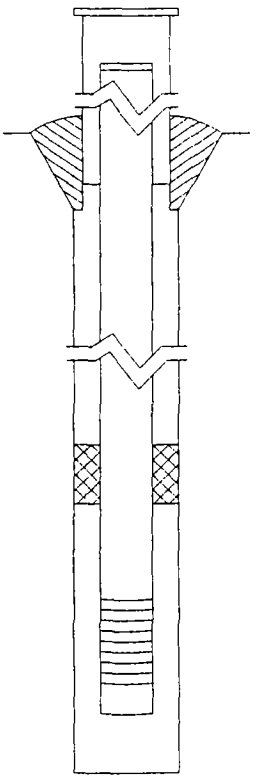
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.78	0	TOP OF PROTECTIVE CASING
429.44	0.34	TOP OF RISER PIPE
429.78	0	GROUND SURFACE
426.78	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
406.88	22.90	TOP OF SEAL
403.38	26.40	TOP OF SANDPACK
402.58	27.20	TOP OF SCREEN
387.68	42.10	BOTTOM OF SCREEN
387.28	42.50	BOTTOM OF WELL
387.28	42.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	26.86
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.9
TOTAL LENGTH OF CASING (ft)	42.16
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-45A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-45

STATE PLANE COORDINATE: X 2316717.00E Y 791398.86N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/23/04 DATE FINISHED: 08/23/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

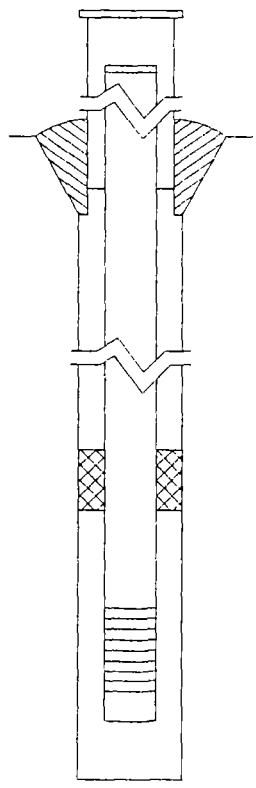
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.63	0	TOP OF PROTECTIVE CASING
431.17	0.46	TOP OF RISER PIPE
431.63	0	GROUND SURFACE
428.63	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
424.13	7.50	TOP OF SEAL
421.13	10.50	TOP OF SANDPACK
420.17	11.00	TOP OF SCREEN
413.93	17.70	BOTTOM OF SCREEN
413.63	18.00	BOTTOM OF WELL
413.63	18.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	10.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	10.54
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.7
TOTAL LENGTH OF CASING (ft)	17.54
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-45B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-45

STATE PLANE COORDINATE: X 2316727.22E Y 791398.11N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/23/04 DATE FINISHED: 08/23/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

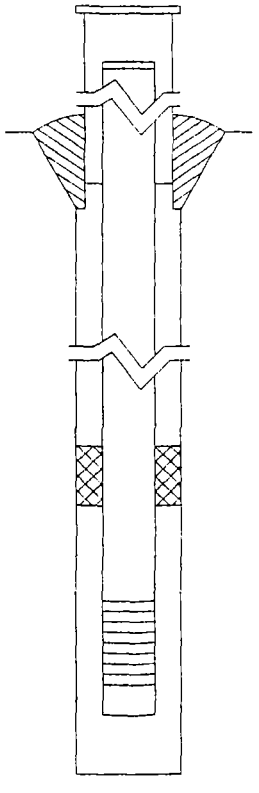
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
431.56	0	TOP OF PROTECTIVE CASING
431.22	0.34	TOP OF RISER PIPE
431.56	0	GROUND SURFACE
428.56	3.00	TOP OF ANNULAR SEALANT
----	----	STATIC WATER LEVEL (AFTER COMPLETION)
411.56	20.00	TOP OF SEAL
408.56	23.00	TOP OF SANDPACK
408.06	23.50	TOP OF SCREEN
403.36	28.20	BOTTOM OF SCREEN
403.06	28.50	BOTTOM OF WELL
403.06	28.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.16
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.7
TOTAL LENGTH OF CASING (ft)	28.16
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-45C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-45

STATE PLANE COORDINATE: X 2316721.27E Y 791398.23N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal.)

LOGGED BY: G. Tiernan DATE STARTED: 08/20/04 DATE FINISHED: 08/20/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

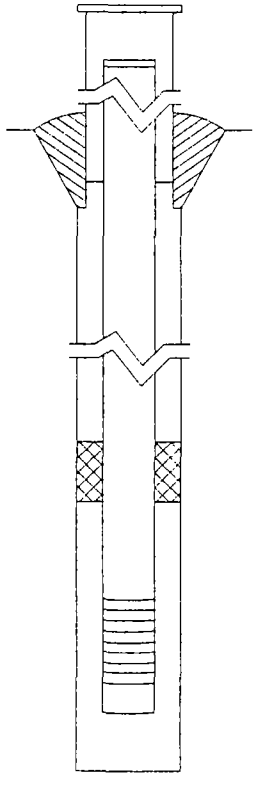
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.56	0	TOP OF PROTECTIVE CASING
430.87	0.69	TOP OF RISER PIPE
431.56	0	GROUND SURFACE
428.53	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
405.06	26.50	TOP OF SEAL
402.06	29.50	TOP OF SANDPACK
401.56	30.00	TOP OF SCREEN
386.86	44.70	BOTTOM OF SCREEN
386.56	45.00	BOTTOM OF WELL
386.56	45.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.31
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	44.31
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-46A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-46

STATE PLANE COORDINATE: X 2316602.73E Y 791594.82N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

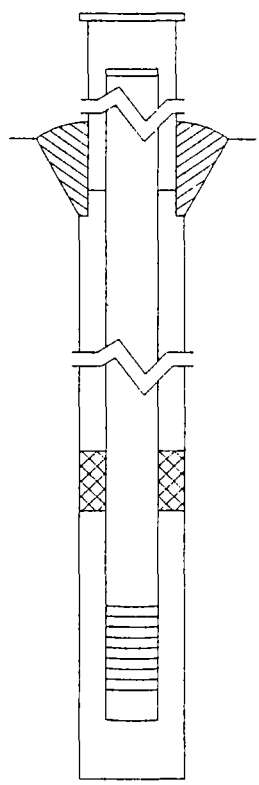
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
431.04	0	TOP OF PROTECTIVE CASING
430.51	0.53	TOP OF RISER PIPE
431.04	0	GROUND SURFACE
428.04	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
424.04	7.00	TOP OF SEAL
421.04	10.00	TOP OF SANDPACK
419.94	11.10	TOP OF SCREEN
413.24	17.80	BOTTOM OF SCREEN
412.94	18.10	BOTTOM OF WELL
412.94	18.10	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	10.7
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.7
TOTAL LENGTH OF CASING (ft)	17.70
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-46B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-46

STATE PLANE COORDINATE: X 2316601.93E Y 791601.60N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

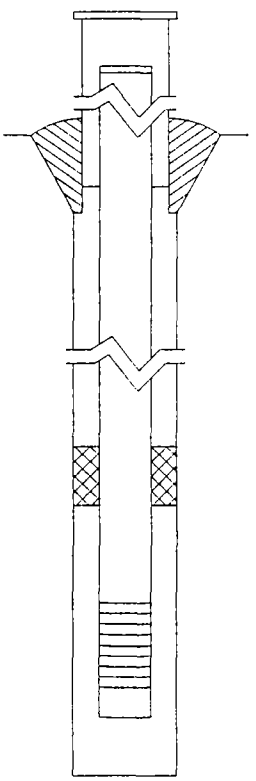
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.98	0	TOP OF PROTECTIVE CASING
430.61	0.37	TOP OF RISER PIPE
430.98	0	GROUND SURFACE
427.98	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
410.98	20.00	TOP OF SEAL
407.98	23.00	TOP OF SANDPACK
406.98	24.00	TOP OF SCREEN
405.28	25.70	BOTTOM OF SCREEN
404.98	26.00	BOTTOM OF WELL
404.98	26.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	23.63
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	1.7
TOTAL LENGTH OF CASING (ft)	25.63
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-46C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-46

STATE PLANE COORDINATE: X 2316601.13E Y 791606.83N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

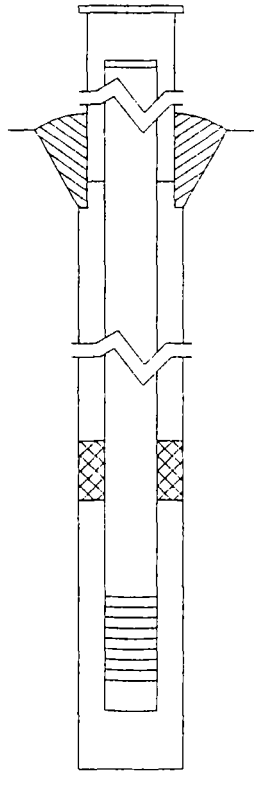
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.87	0	TOP OF PROTECTIVE CASING
430.49	0.38	TOP OF RISER PIPE
430.87	0	GROUND SURFACE
427.87	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
403.37	27.50	TOP OF SEAL
400.67	30.20	TOP OF SANDPACK
399.67	31.20	TOP OF SCREEN
389.97	40.90	BOTTOM OF SCREEN
389.67	41.20	BOTTOM OF WELL
389.37	41.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	30.82
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	40.82
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-47A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-47

STATE PLANE COORDINATE: X 2316789.30E Y 791596.62N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gals.)

LOGGED BY: G. Tiernan DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

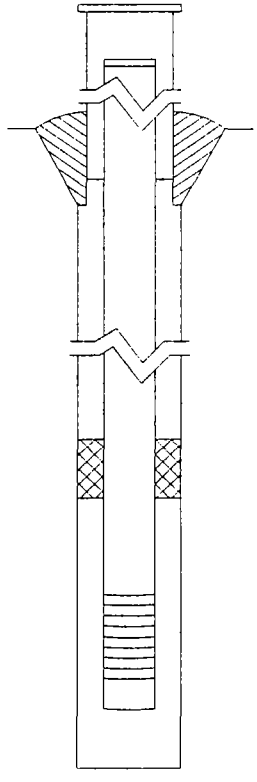
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.73	0	TOP OF PROTECTIVE CASING
430.50	0.23	TOP OF RISER PIPE
430.73	0	GROUND SURFACE
427.73	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
421.73	9.00	TOP OF SEAL
418.73	12.00	TOP OF SANDPACK
417.73	13.00	TOP OF SCREEN
411.03	19.70	BOTTOM OF SCREEN
410.73	20.00	BOTTOM OF WELL
410.73	20.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	12.77
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	6.7
TOTAL LENGTH OF CASING (ft)	19.77
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-47B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-47

STATE PLANE COORDINATE: X 2316789.47E Y 791601.62N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

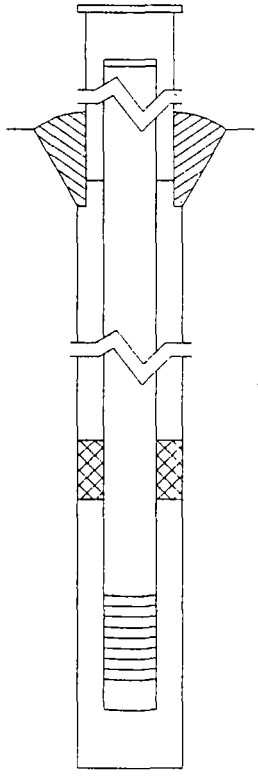
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.79	0	TOP OF PROTECTIVE CASING
430.13	0.66	TOP OF RISER PIPE
430.79	0	GROUND SURFACE
427.79	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
413.29	17.50	TOP OF SEAL
410.29	20.50	TOP OF SANDPACK
409.79	21.00	TOP OF SCREEN
408.09	22.70	BOTTOM OF SCREEN
407.79	23.00	BOTTOM OF WELL
407.79	23.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	20.34
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	1.7
TOTAL LENGTH OF CASING (ft)	22.34
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-47C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-47

STATE PLANE COORDINATE: X 2316789.67E Y 791607.38N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal.)

LOGGED BY: G. Tiernan DATE STARTED: 08/19/04 DATE FINISHED: 08/19/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

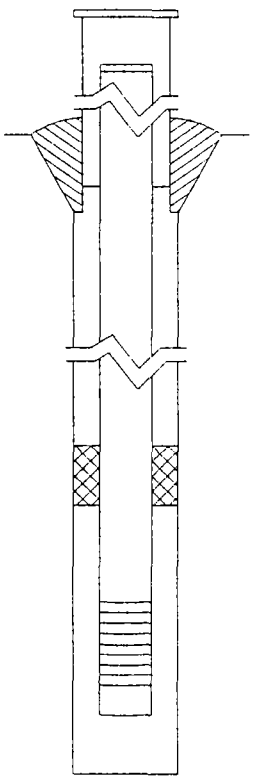
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.81	0	TOP OF PROTECTIVE CASING
430.61	0.20	TOP OF RISER PIPE
430.81	0	GROUND SURFACE
427.81	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
400.31	30.50	TOP OF SEAL
397.31	33.50	TOP OF SANDPACK
396.31	34.50	TOP OF SCREEN
386.61	44.20	BOTTOM OF SCREEN
386.31	44.50	BOTTOM OF WELL
386.31	44.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	34.3
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	44.30
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-48A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-48

STATE PLANE COORDINATE: X 2317171.36E Y 791553.40N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

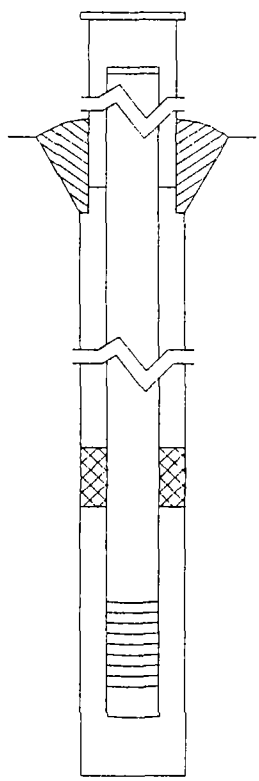
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
429.46	0	TOP OF PROTECTIVE CASING
429.16	0.30	TOP OF RISER PIPE
429.46	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
426.96	2.50	TOP OF SEAL
423.96	5.50	TOP OF SANDPACK
423.46	6.00	TOP OF SCREEN
414.76	14.70	BOTTOM OF SCREEN
414.46	15.00	BOTTOM OF WELL
413.96	15.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	5.7
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.7
TOTAL LENGTH OF CASING (ft)	14.70
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-48B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-48

STATE PLANE COORDINATE: X 2317172.12E Y 791550.99N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (40 gal.)

LOGGED BY: J. Campbell DATE STARTED: 08/18/04 DATE FINISHED: 08/18/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

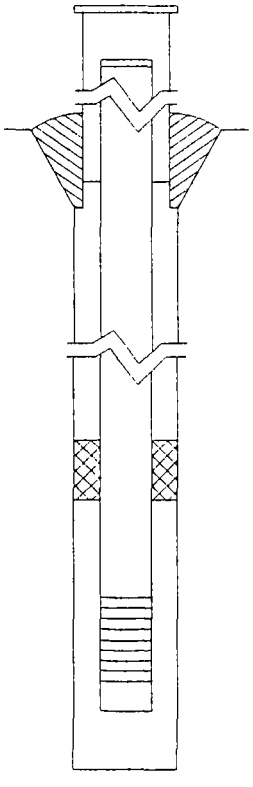
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.42	0	TOP OF PROTECTIVE CASING
429.18	0.24	TOP OF RISER PIPE
429.42	0	GROUND SURFACE
426.42	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
412.92	16.50	TOP OF SEAL
409.92	19.50	TOP OF SANDPACK
408.92	20.50	TOP OF SCREEN
400.22	29.20	BOTTOM OF SCREEN
399.92	29.50	BOTTOM OF WELL
399.92	29.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	20.26
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.7
TOTAL LENGTH OF CASING (ft)	29.26
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-48C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-48

STATE PLANE COORDINATE: X 2317172.90E Y 791547.14N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: J. Campbell DATE STARTED: 08/17/04 DATE FINISHED: 08/17/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

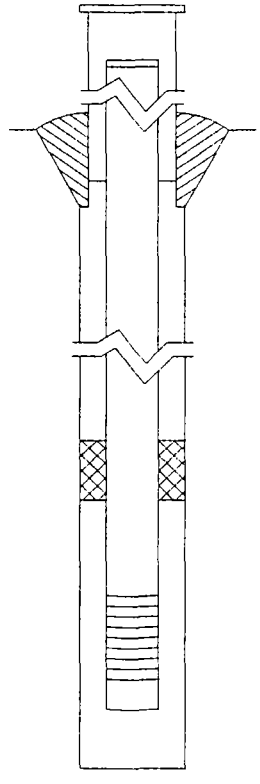
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.34	0	TOP OF PROTECTIVE CASING
429.10	0.24	TOP OF RISER PIPE
429.34	0	GROUND SURFACE
426.34	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
401.54	27.80	TOP OF SEAL
397.84	31.50	TOP OF SANDPACK
397.34	32.00	TOP OF SCREEN
388.64	40.70	BOTTOM OF SCREEN
388.34	41.00	BOTTOM OF WELL
388.34	41.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	31.76
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.7
TOTAL LENGTH OF CASING (ft)	40.76
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-48D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-48

STATE PLANE COORDINATE: X 2317173.96E Y 791544.04N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: J. Campbell

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (200 gal.)

LOGGED BY: J. Campbell DATE STARTED: 08/17/04 DATE FINISHED: 08/17/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

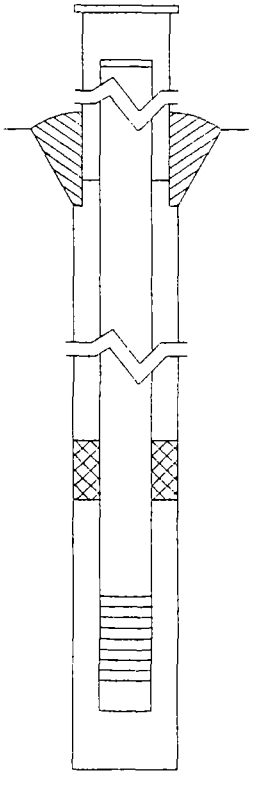
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
429.34	0	TOP OF PROTECTIVE CASING
428.98	0.36	TOP OF RISER PIPE
429.34	0	GROUND SURFACE
426.34	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
390.54	38.80	TOP OF SEAL
386.84	42.50	TOP OF SANDPACK
386.34	43.00	TOP OF SCREEN
376.64	52.70	BOTTOM OF SCREEN
376.34	53.00	BOTTOM OF WELL
371.34	58.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	42.64
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	52.64
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-49A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-49

STATE PLANE COORDINATE: X 2316589.57E Y 791907.79N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/25/04 DATE FINISHED: 08/25/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD:

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

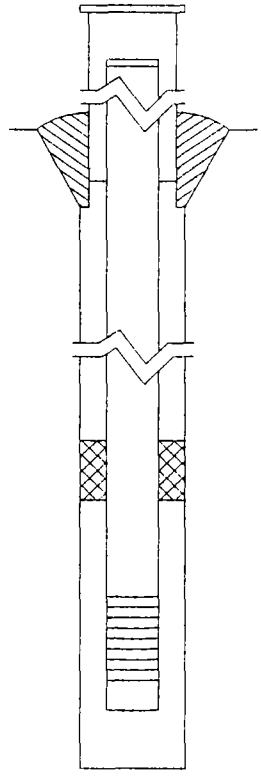
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
430.48	0	TOP OF PROTECTIVE CASING
430.21	0.27	TOP OF RISER PIPE
430.48	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
427.48	3.00	TOP OF SEAL
419.98	10.50	TOP OF SANDPACK
418.98	11.50	TOP OF SCREEN
417.28	13.20	BOTTOM OF SCREEN
416.98	13.50	BOTTOM OF WELL
416.98	13.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER: Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	11.23
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	1.7
TOTAL LENGTH OF CASING (ft)	13.23
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-49B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-49

STATE PLANE COORDINATE: X 2316592.17E Y 791905.78N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/26/04 DATE FINISHED: 08/26/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

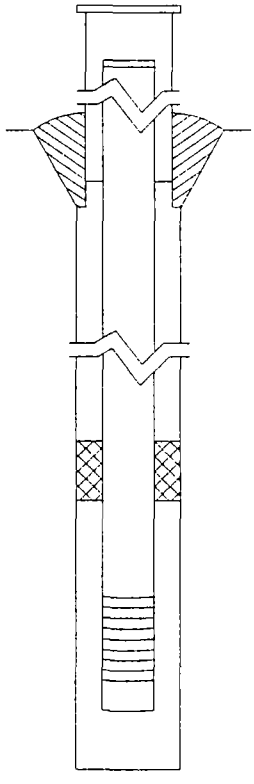
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.49	0	TOP OF PROTECTIVE CASING
430.23	0.26	TOP OF RISER PIPE
430.49	0	GROUND SURFACE
427.49	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
410.99	19.50	TOP OF SEAL
408.39	22.10	TOP OF SANDPACK
407.39	23.10	TOP OF SCREEN
406.69	23.80	BOTTOM OF SCREEN
406.39	24.10	BOTTOM OF WELL
405.49	25.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	22.84
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	0.7
TOTAL LENGTH OF CASING (ft)	23.84
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-49C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-49

STATE PLANE COORDINATE: X 2316586.12E Y 791910.72N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (25 gal.)

LOGGED BY: M. Lake DATE STARTED: 08/26/04 DATE FINISHED: 08/26/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

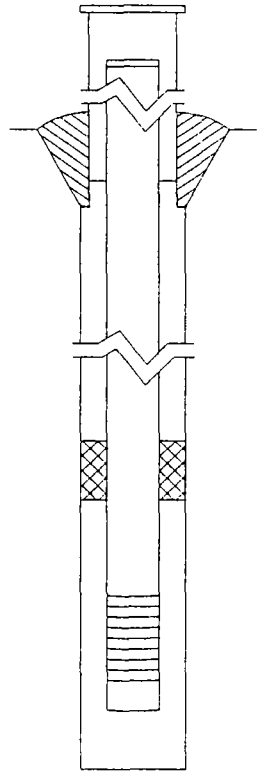
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.49	0	TOP OF PROTECTIVE CASING
430.21	0.28	TOP OF RISER PIPE
430.49	0	GROUND SURFACE
427.49	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
403.99	26.50	TOP OF SEAL
400.99	29.50	TOP OF SANDPACK
400.59	29.90	TOP OF SCREEN
391.29	39.20	BOTTOM OF SCREEN
390.99	39.50	BOTTOM OF WELL
390.49	40.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	29.62
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.3
TOTAL LENGTH OF CASING (ft)	39.22
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-49D

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-49

STATE PLANE COORDINATE: X 2316582.59E Y 791913.91N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: MRK DRILLER: J. Barker

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Mueller

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (75 gal.)

LOGGED BY: M. Mueller DATE STARTED: 08/25/04 DATE FINISHED: 08/25/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

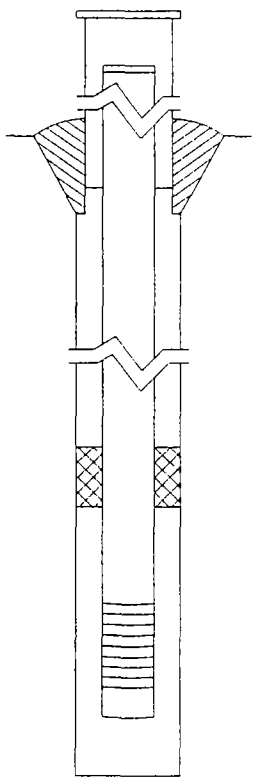
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
430.53	0	TOP OF PROTECTIVE CASING
430.33	0.20	TOP OF RISER PIPE
430.53	0	GROUND SURFACE
427.53	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
393.03	37.50	TOP OF SEAL
390.03	40.50	TOP OF SANDPACK
389.53	41.00	TOP OF SCREEN
379.93	50.60	BOTTOM OF SCREEN
379.53	51.00	BOTTOM OF WELL
379.53	51.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	40.8
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.6
TOTAL LENGTH OF CASING (ft)	50.80
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-50A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-50

STATE PLANE COORDINATE: X 2317599.79E Y 791292.84N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/25/04 DATE FINISHED: 08/25/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

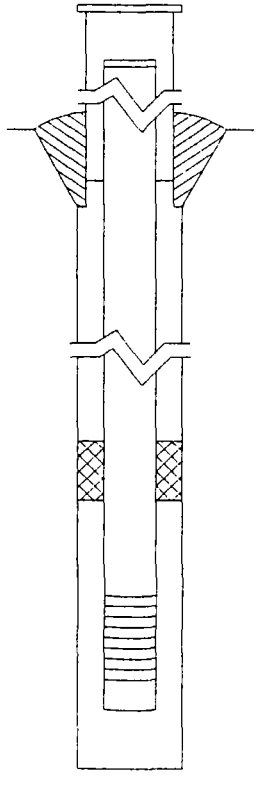
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
435.09	3.5 AGS	TOP OF PROTECTIVE CASING
434.41	2.82 AGS	TOP OF RISER PIPE
431.59	0	GROUND SURFACE
428.59	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
418.29	13.30	TOP OF SEAL
415.29	16.30	TOP OF SANDPACK
414.29	17.30	TOP OF SCREEN
404.99	26.60	BOTTOM OF SCREEN
404.59	27.00	BOTTOM OF WELL
404.59	27.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	3.5
RISER PIPE LENGTH (ft)	20.12
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.3
TOTAL LENGTH OF CASING (ft)	29.82
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-50B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-50

STATE PLANE COORDINATE: X 2317605.08E Y 791274.64N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/25/04 DATE FINISHED: 08/25/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

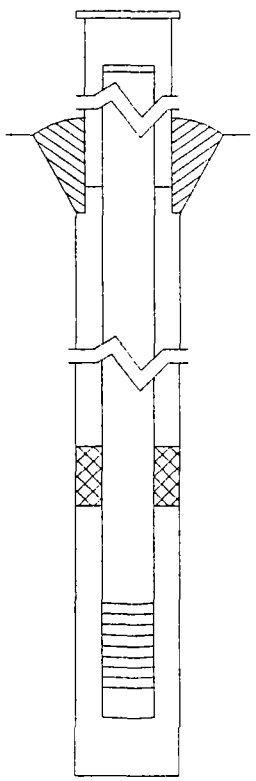
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
434.66	3.5 AGS	TOP OF PROTECTIVE CASING
434.15	2.99 AGS	TOP OF RISER PIPE
431.16	0	GROUND SURFACE
428.16	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
400.16	31.00	TOP OF SEAL
397.16	34.00	TOP OF SANDPACK
396.16	35.00	TOP OF SCREEN
391.56	39.60	BOTTOM OF SCREEN
391.16	40.00	BOTTOM OF WELL
391.16	40.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	3.5
RISER PIPE LENGTH (ft)	37.99
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.6
TOTAL LENGTH OF CASING (ft)	42.99
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-50C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-50

STATE PLANE COORDINATE: X 2317602.19E Y 791284.92N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Mueller

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (300 gal.)

LOGGED BY: M. Mueller DATE STARTED: 08/24/04 DATE FINISHED: 08/24/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

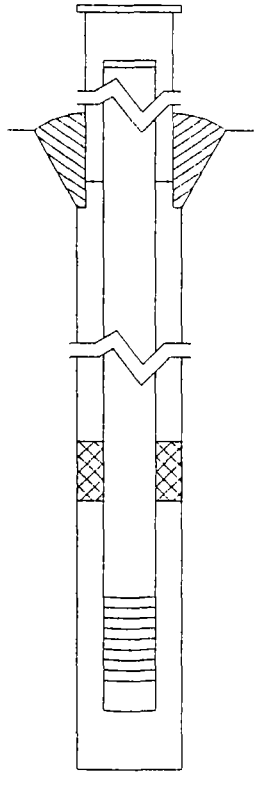
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
434.90	3.5 AGS	TOP OF PROTECTIVE CASING
434.29	2.89 AGS	TOP OF RISER PIPE
431.40	0	GROUND SURFACE
428.40	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
389.90	41.50	TOP OF SEAL
386.90	44.50	TOP OF SANDPACK
386.40	45.00	TOP OF SCREEN
376.80	54.60	BOTTOM OF SCREEN
376.40	55.00	BOTTOM OF WELL
372.40	59.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	3.5
RISER PIPE LENGTH (ft)	47.89
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.6
TOTAL LENGTH OF CASING (ft)	57.89
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-51A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-51

STATE PLANE COORDINATE: X 2316421.39E Y 790450.28N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/24/04 DATE FINISHED: 08/24/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

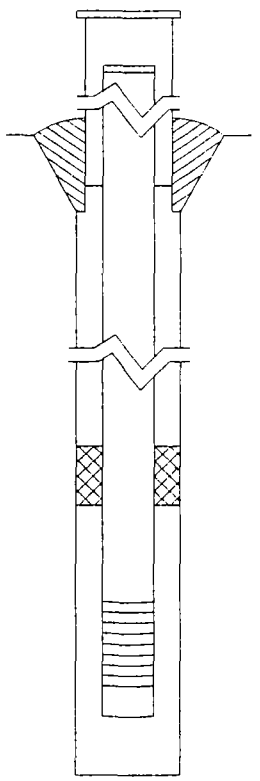
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.84	0	TOP OF PROTECTIVE CASING
425.46	0.38	TOP OF RISER PIPE
425.84	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
422.84	3.00	TOP OF SEAL
417.34	8.50	TOP OF SANDPACK
416.44	9.40	TOP OF SCREEN
412.14	13.70	BOTTOM OF SCREEN
411.84	14.00	BOTTOM OF WELL
411.84	14.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	9.02
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.3
TOTAL LENGTH OF CASING (ft)	13.62
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-51B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-51

STATE PLANE COORDINATE: X 2316425.20E Y 790450.49N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: M. Lake DATE STARTED: 08/24/04 DATE FINISHED: 08/24/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

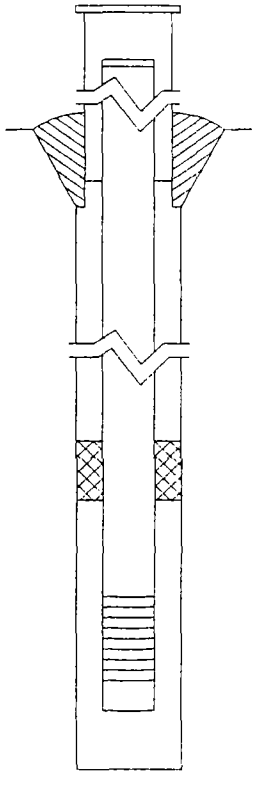
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.74	0	TOP OF PROTECTIVE CASING
425.51	0.23	TOP OF RISER PIPE
425.74	0	GROUND SURFACE
422.74	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
414.24	11.50	TOP OF SEAL
411.24	14.50	TOP OF SANDPACK
410.24	15.50	TOP OF SCREEN
400.54	25.20	BOTTOM OF SCREEN
400.24	25.50	BOTTOM OF WELL
400.24	25.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	15.27
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	9.7
TOTAL LENGTH OF CASING (ft)	25.27
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-51C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-51

STATE PLANE COORDINATE: X 2316429.02E Y 790450.54N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Phillips Environmental Services DRILLER: J. Bignall

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: M. Lake

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (10 gal.)

LOGGED BY: M. Lake DATE STARTED: 08/24/04 DATE FINISHED: 08/24/04

REPORT FORM COMPLETED BY: *S. Peterson* *DATE:* *09/13/2004*

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

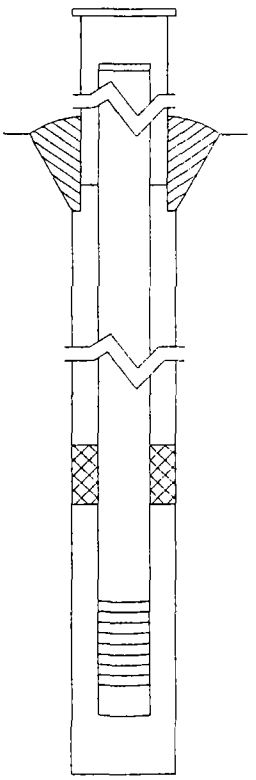
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
425.69	0	TOP OF PROTECTIVE CASING
425.42	0.27	TOP OF RISER PIPE
425.69	0	GROUND SURFACE
422.69	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
401.69	24.00	TOP OF SEAL
398.69	27.00	TOP OF SANDPACK
398.19	27.50	TOP OF SCREEN
383.49	42.20	BOTTOM OF SCREEN
383.19	42.50	BOTTOM OF WELL
382.69	43.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	27.23
BOTTOM OF SCREEN TO END CAP (ft)	0.3
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.7
TOTAL LENGTH OF CASING (ft)	42.23
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-52A

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-52

STATE PLANE COORDINATE: X 2317799.30E Y 789433.32N (or) LATITUDE: _____ LONGITUDE: _____

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/27/04 DATE FINISHED: 08/27/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: N/A

INSTALLATION METHOD: _____

SETTING TIME: _____

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME: _____

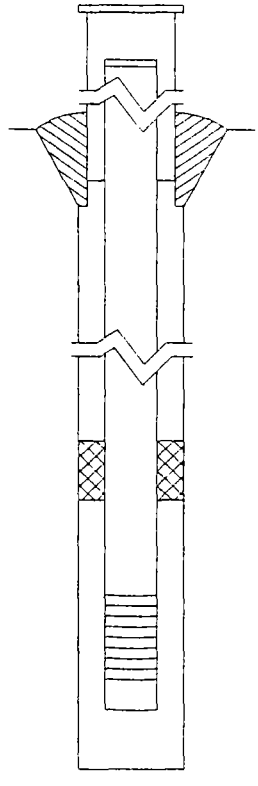
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
428.13	0	TOP OF PROTECTIVE CASING
427.80	0.33	TOP OF RISER PIPE
428.13	0	GROUND SURFACE
N/A	N/A	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
425.13	3.00	TOP OF SEAL
417.33	10.80	TOP OF SANDPACK
416.33	11.80	TOP OF SCREEN
408.03	20.10	BOTTOM OF SCREEN
407.63	20.50	BOTTOM OF WELL
407.63	20.50	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	11.47
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	8.3
TOTAL LENGTH OF CASING (ft)	20.17
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-52B

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-52

STATE PLANE COORDINATE: X 2317798.66E Y 789437.89N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): None

LOGGED BY: G. Tiernan DATE STARTED: 08/26/04 DATE FINISHED: 08/26/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

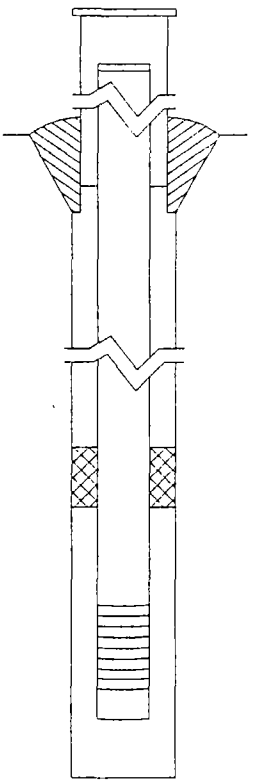
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS) (.01 ft)	
428.14	0	TOP OF PROTECTIVE CASING
427.81	0.33	TOP OF RISER PIPE
428.14	0	GROUND SURFACE
425.14	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
409.14	19.00	TOP OF SEAL
406.14	22.00	TOP OF SANDPACK
405.64	22.50	TOP OF SCREEN
401.54	26.60	BOTTOM OF SCREEN
401.14	27.00	BOTTOM OF WELL
401.14	27.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	22.17
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	4.1
TOTAL LENGTH OF CASING (ft)	26.67
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

Illinois Environmental Protection Agency Well Completion Report

SITE #: 1190505040 COUNTY: Madison WELL #: HMW-52C

SITE NAME: Village of Hartford, Illinois BOREHOLE #: HMW-52

STATE PLANE COORDINATE: X 2317797.84E Y 789442.19N (or) LATITUDE: LONGITUDE:

SURVEYED BY: Crawford, Murphy, and Tilly Inc. ILL REGISTRATION #: 035-002214

DRILLING CONTRACTOR: Terra Drill DRILLER: T. Marlo

CONSULTING FIRM: Clayton Group Services, Inc. GEOLOGIST: G. Tiernan

DRILLING METHOD: Hollow Stem Auger DRILLING FLUIDS (TYPE): Water (230 gal.)

LOGGED BY: G. Tiernan DATE STARTED: 08/26/04 DATE FINISHED: 08/26/04

REPORT FORM COMPLETED BY: S. Peterson DATE: 09/13/2004

ANNULAR SPACE DETAILS

TYPE OF SURFACE SEAL: Concrete

TYPE OF ANNULAR SEALANT: Grout

INSTALLATION METHOD: Tremie Pipe

SETTING TIME:

TYPE OF BENTONITE SEAL-

GRANULAR, PELLET, SLURRY, CHIPS (CIRCLE ONE)

INSTALLATION METHOD: Poured

SETTING TIME:

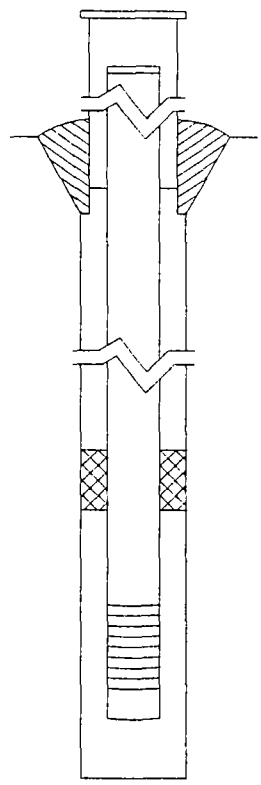
TYPE OF SAND PACK: Industrial Quartz

GRAIN SIZE: 1

INSTALLATION METHOD: Poured

TYPE OF BACKFILL MATERIAL: Not Applicable (IF APPLICABLE)

INSTALLATION METHOD: Not Applicable



ELEVATIONS (MSL) *	DEPTHS (BGS)	(.01 ft)
428.21	0	TOP OF PROTECTIVE CASING
427.83	0.38	TOP OF RISER PIPE
428.21	0	GROUND SURFACE
425.21	3.00	TOP OF ANNULAR SEALANT
---	----	STATIC WATER LEVEL (AFTER COMPLETION)
407.21	21.00	TOP OF SEAL
404.21	24.00	TOP OF SANDPACK
403.21	25.00	TOP OF SCREEN
388.61	39.60	BOTTOM OF SCREEN
388.21	40.00	BOTTOM OF WELL
378.21	50.00	BOTTOM OF BOREHOLE

* REFERENCED TO A NATIONAL GEODETIC VERTICAL DATUM

WELL CONSTRUCTION MATERIALS

(CIRCLE ONE)

PROTECTIVE CASING	SS304, SS316, PTFE, PVC OR OTHER:	Steel
RISER PIPE ABOVE W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
RISER PIPE BELOW W.T.	SS304, SS316, PTFE, PVC OR OTHER:	
SCREEN	SS304, SS316, PTFE, PVC OR OTHER:	

CASING MEASUREMENTS

DIAMETER OF BOREHOLE (in.)	8.5
ID OF RISER PIPE (in)	2
PROTECTIVE CASING LENGTH (ft)	1
RISER PIPE LENGTH (ft)	24.62
BOTTOM OF SCREEN TO END CAP (ft)	0.4
SCREEN LENGTH (1st SLOT TO LAST SLOT) (ft)	14.6
TOTAL LENGTH OF CASING (ft)	39.62
SCREEN SLOT SIZE **	0.010"

** HAND-SLOTTED WELL SCREENS ARE UNACCEPTABLE

APPENDIX D

FPH SIMULATION DISTILLATION REPORT

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-001	**Sample ID:**	Dup-02/040908			**Sample Rcvd:**
Sample Date: 9/8/04	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	26	Deg F	ASTM D-2887	9/13/04	DM
5 % off	83	Deg F			
10 % off	98	Deg F			
15 % off	130	Deg F			
20 % off	143	Deg F			
25 % off	163	Deg F			
30 % off	188	Deg F			
35 % off	198	Deg F			
40 % off	210	Deg F			
45 % off	232	Deg F			
50 % off	238	Deg F			
55 % off	251	Deg F			
60 % off	282	Deg F			
65 % off	290	Deg F			
70 % off	314	Deg F			
75 % off	332	Deg F			
80 % off	349	Deg F			
85 % off	380	Deg F			
90 % off	416	Deg F			
95 % off	485	Deg F			
FBP	645	Deg F			
Density	0.7530	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.56	cSt @ 40 C	ASTM D-445	9/15/04	JM
Sample Number: 143976-002	**Sample ID:**	MP-37DP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 6:45:00 PM	**Description:**				9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-002	**Sample ID:**	MP-37DP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 6:45:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	21	Deg F	ASTM D-2887	9/13/04	DM
5 % off	82	Deg F			
10 % off	97	Deg F			
15 % off	128	Deg F			
20 % off	142	Deg F			
25 % off	162	Deg F			
30 % off	187	Deg F			
35 % off	198	Deg F			
40 % off	208	Deg F			
45 % off	231	Deg F			
50 % off	238	Deg F			
55 % off	250	Deg F			
60 % off	282	Deg F			
65 % off	289	Deg F			
70 % off	311	Deg F			
75 % off	331	Deg F			
80 % off	348	Deg F			
85 % off	378	Deg F			
90 % off	415	Deg F			
95 % off	484	Deg F			
FBP	643	Deg F			
Density	0.7524	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.57	cSt @ 40 C	ASTM D-445	9/15/04	JM

Sample Number: 143976-003	**Sample ID:**	MP-45CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 6:35:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-003	**Sample ID:**	MP-45CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 6:35:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	32	Deg F	ASTM D-2887	9/13/04	DM
5 % off	108	Deg F			
10 % off	143	Deg F			
15 % off	168	Deg F			
20 % off	191	Deg F			
25 % off	198	Deg F			
30 % off	206	Deg F			
35 % off	213	Deg F			
40 % off	232	Deg F			
45 % off	238	Deg F			
50 % off	249	Deg F			
55 % off	270	Deg F			
60 % off	287	Deg F			
65 % off	295	Deg F			
70 % off	316	Deg F			
75 % off	330	Deg F			
80 % off	340	Deg F			
85 % off	363	Deg F			
90 % off	387	Deg F			
95 % off	419	Deg F			
FBP	514	Deg F			
Density	0.7580	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.59	cSt @ 40 C	ASTM D-445	9/15/04	JM

Sample Number: 143976-004	**Sample ID:**	MP-32BP/040909		**Sample Rcvd:**
Sample Date: 9/9/04 8:15:00 AM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-004	**Sample ID:** MP-32BP/040909				**Sample Rcvd:**
Sample Date: 9/9/04 8:15:00 AM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	76	Deg F	ASTM D-2887	9/13/04	DM
5 % off	137	Deg F			
10 % off	164	Deg F			
15 % off	189	Deg F			
20 % off	197	Deg F			
25 % off	204	Deg F			
30 % off	211	Deg F			
35 % off	220	Deg F			
40 % off	237	Deg F			
45 % off	241	Deg F			
50 % off	250	Deg F			
55 % off	267	Deg F			
60 % off	287	Deg F			
65 % off	292	Deg F			
70 % off	303	Deg F			
75 % off	326	Deg F			
80 % off	338	Deg F			
85 % off	350	Deg F			
90 % off	373	Deg F			
95 % off	403	Deg F			
FBP	492	Deg F			
Density	0.7659	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.59	cSt @ 40 C	ASTM D-445	9/15/04	JM
Sample Number: 143976-005	**Sample ID:** MP-35DP/040908				**Sample Rcvd:**
Sample Date: 9/8/04 6:25:00 PM	**Description:**				9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-005	**Sample ID:**	MP-35DP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 6:25:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	80	Deg F	ASTM D-2887	9/13/04	DM
5 % off	137	Deg F			
10 % off	165	Deg F			
15 % off	191	Deg F			
20 % off	199	Deg F			
25 % off	207	Deg F			
30 % off	217	Deg F			
35 % off	236	Deg F			
40 % off	240	Deg F			
45 % off	251	Deg F			
50 % off	277	Deg F			
55 % off	288	Deg F			
60 % off	294	Deg F			
65 % off	306	Deg F			
70 % off	326	Deg F			
75 % off	337	Deg F			
80 % off	347	Deg F			
85 % off	367	Deg F			
90 % off	390	Deg F			
95 % off	420	Deg F			
FBP	558	Deg F			
Density	0.7730	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.61	cSt @ 40 C	ASTM D-445	9/15/04	JM

Sample Number: 143976-006	**Sample ID:**	HMW-46CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 6:10:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-006	**Sample ID:**	HMW-46CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 6:10:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	76	Deg F	ASTM D-2887	9/13/04	DM
5 % off	130	Deg F			
10 % off	168	Deg F			
15 % off	199	Deg F			
20 % off	231	Deg F			
25 % off	276	Deg F			
30 % off	300	Deg F			
35 % off	334	Deg F			
40 % off	361	Deg F			
45 % off	387	Deg F			
50 % off	409	Deg F			
55 % off	429	Deg F			
60 % off	447	Deg F			
65 % off	465	Deg F			
70 % off	485	Deg F			
75 % off	504	Deg F			
80 % off	525	Deg F			
85 % off	550	Deg F			
90 % off	579	Deg F			
95 % off	617	Deg F			
FBP	727	Deg F			
Density	0.8032	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	1.08	cSt @ 40 C	ASTM D-445	9/15/04	JM

Sample Number: 143976-007	**Sample ID:**	MP-49CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 5:45:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-007	**Sample ID:**	MP-49CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 5:45:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	13	Deg F	ASTM D-2887	9/14/04	DM
5 % off	76	Deg F			
10 % off	85	Deg F			
15 % off	103	Deg F			
20 % off	134	Deg F			
25 % off	127	Deg F			
30 % off	175	Deg F			
35 % off	194	Deg F			
40 % off	201	Deg F			
45 % off	208	Deg F			
50 % off	218	Deg F			
55 % off	236	Deg F			
60 % off	241	Deg F			
65 % off	262	Deg F			
70 % off	286	Deg F			
75 % off	296	Deg F			
80 % off	324	Deg F			
85 % off	338	Deg F			
90 % off	366	Deg F			
95 % off	400	Deg F			
FBP	505	Deg F			
Density	0.7359	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.52	cSt @ 40 C	ASTM D-445	9/15/04	JM

Sample Number: 143976-008	**Sample ID:**	MP-55CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 3:50:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-008	**Sample ID:** MP-55CP/040908				**Sample Rcvd:**
Sample Date: 9/8/04 3:50:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	24	Deg F	ASTM D-2887	9/14/04	DM
5 % off	82	Deg F			
10 % off	96	Deg F			
15 % off	124	Deg F			
20 % off	142	Deg F			
25 % off	166	Deg F			
30 % off	192	Deg F			
35 % off	203	Deg F			
40 % off	225	Deg F			
45 % off	237	Deg F			
50 % off	252	Deg F			
55 % off	284	Deg F			
60 % off	295	Deg F			
65 % off	325	Deg F			
70 % off	342	Deg F			
75 % off	373	Deg F			
80 % off	407	Deg F			
85 % off	450	Deg F			
90 % off	508	Deg F			
95 % off	576	Deg F			
FBP	697	Deg F			
Density	0.7606	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.63	cSt @ 40 C	ASTM D-445	9/16/04	JM

Sample Number: 143976-009 **Sample ID:** DUP-01/040908 **Sample Rcvd:**
Sample Date: **Description:** 9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-009		**Sample ID: DUP-01/040908**			**Sample Rcvd:**
Sample Date:		**Description:**			**9/13/04**
Simulated Distillation-Distillates					
IBP	21	Deg F	ASTM D-2887	9/14/04	DM
5 % off	81	Deg F			
10 % off	95	Deg F			
15 % off	125	Deg F			
20 % off	143	Deg F			
25 % off	166	Deg F			
30 % off	192	Deg F			
35 % off	203	Deg F			
40 % off	226	Deg F			
45 % off	237	Deg F			
50 % off	252	Deg F			
55 % off	284	Deg F			
60 % off	295	Deg F			
65 % off	325	Deg F			
70 % off	341	Deg F			
75 % off	372	Deg F			
80 % off	407	Deg F			
85 % off	450	Deg F			
90 % off	507	Deg F			
95 % off	575	Deg F			
FBP	693	Deg F			
Density	0.7609	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.63	cSt @ 40 C	ASTM D-445	9/16/04	JM

Sample Number: 143976-010 **Sample ID: MP-52C/040908** **Sample Rcvd:**
Sample Date: 9/8/04 4:00:00 PM **Description:** **9/13/04**

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-010		**Sample ID: MP-52C/040908**			**Sample Rcvd:**
Sample Date: 9/8/04 4:00:00 PM		**Description:**			**9/13/04**
Simulated Distillation-Distillates					
IBP	11	Deg F	ASTM D-2887	9/14/04	DM
5 % off	35	Deg F			
10 % off	84	Deg F			
15 % off	96	Deg F			
20 % off	122	Deg F			
25 % off	139	Deg F			
30 % off	162	Deg F			
35 % off	185	Deg F			
40 % off	196	Deg F			
45 % off	205	Deg F			
50 % off	214	Deg F			
55 % off	235	Deg F			
60 % off	241	Deg F			
65 % off	262	Deg F			
70 % off	286	Deg F			
75 % off	297	Deg F			
80 % off	325	Deg F			
85 % off	339	Deg F			
90 % off	369	Deg F			
95 % off	404	Deg F			
FBP	486	Deg F			
Density	0.7324	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.50	cSt @ 40 C	ASTM D-445	9/15/04	JM
Sample Number: 143976-011		**Sample ID: MP-47CP/040908**			**Sample Rcvd:**
Sample Date: 9/8/04 4:15:00 PM		**Description:**			**9/13/04**

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-011	**Sample ID:**	MP-47CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 4:15:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	26	Deg F	ASTM D-2887	9/14/04	DM
5 % off	82	Deg F			
10 % off	97	Deg F			
15 % off	126	Deg F			
20 % off	141	Deg F			
25 % off	163	Deg F			
30 % off	188	Deg F			
35 % off	199	Deg F			
40 % off	212	Deg F			
45 % off	234	Deg F			
50 % off	239	Deg F			
55 % off	259	Deg F			
60 % off	285	Deg F			
65 % off	294	Deg F			
70 % off	323	Deg F			
75 % off	337	Deg F			
80 % off	362	Deg F			
85 % off	393	Deg F			
90 % off	437	Deg F			
95 % off	517	Deg F			
FBP	666	Deg F			
Density	0.7543	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.58	cSt @ 40 C	ASTM D-445	9/16/04	JM

Sample Number: 143976-012	**Sample ID:**	MP-29CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 4:30:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-012	**Sample ID:**	MP-29CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 4:30:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	78	Deg F	ASTM D-2887	9/14/04	DM
5 % off	333	Deg F			
10 % off	379	Deg F			
15 % off	403	Deg F			
20 % off	420	Deg F			
25 % off	435	Deg F			
30 % off	446	Deg F			
35 % off	456	Deg F			
40 % off	468	Deg F			
45 % off	480	Deg F			
50 % off	490	Deg F			
55 % off	499	Deg F			
60 % off	511	Deg F			
65 % off	522	Deg F			
70 % off	534	Deg F			
75 % off	548	Deg F			
80 % off	565	Deg F			
85 % off	582	Deg F			
90 % off	604	Deg F			
95 % off	635	Deg F			
FBP	716	Deg F			
Density	0.8480	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	2.16	cSt @ 40 C	ASTM D-445	9/16/04	JM

Sample Number: 143976-013	**Sample ID:**	MP-39CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 5:33:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-013	**Sample ID:**	MP-39CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 5:33:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	29	Deg F	ASTM D-2887	9/14/04	DM
5 % off	83	Deg F			
10 % off	98	Deg F			
15 % off	128	Deg F			
20 % off	141	Deg F			
25 % off	161	Deg F			
30 % off	178	Deg F			
35 % off	195	Deg F			
40 % off	204	Deg F			
45 % off	215	Deg F			
50 % off	234	Deg F			
55 % off	239	Deg F			
60 % off	251	Deg F			
65 % off	281	Deg F			
70 % off	289	Deg F			
75 % off	300	Deg F			
80 % off	326	Deg F			
85 % off	339	Deg F			
90 % off	363	Deg F			
95 % off	396	Deg F			
FBP	511	Deg F			
Density	0.7501	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.51	cSt @ 40 C	ASTM D-445	9/15/04	JM

Sample Number: 143976-014	**Sample ID:**	HMW-44CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 3:40:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-014	**Sample ID:**	HMW-44CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 3:40:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	16	Deg F	ASTM D-2887	9/14/04	DM
5 % off	81	Deg F			
10 % off	94	Deg F			
15 % off	124	Deg F			
20 % off	145	Deg F			
25 % off	168	Deg F			
30 % off	193	Deg F			
35 % off	204	Deg F			
40 % off	230	Deg F			
45 % off	238	Deg F			
50 % off	259	Deg F			
55 % off	285	Deg F			
60 % off	296	Deg F			
65 % off	327	Deg F			
70 % off	347	Deg F			
75 % off	381	Deg F			
80 % off	412	Deg F			
85 % off	452	Deg F			
90 % off	506	Deg F			
95 % off	571	Deg F			
FBP	685	Deg F			
Density	0.7594	gm/mL @ 60 F	ASTM D-4052	9/14/04	DBC
Kinematic Viscosity	0.63	cSt @ 40 C	ASTM D-445	9/16/04	JM

Sample Number: 143976-015	**Sample ID:**	HMW-48CP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 4:55:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-015	**Sample ID:**	HMW-48CP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 4:55:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	127	Deg F	ASTM D-2887	9/14/04	DM
5 % off	249	Deg F			
10 % off	335	Deg F			
15 % off	374	Deg F			
20 % off	400	Deg F			
25 % off	418	Deg F			
30 % off	435	Deg F			
35 % off	449	Deg F			
40 % off	460	Deg F			
45 % off	476	Deg F			
50 % off	488	Deg F			
55 % off	499	Deg F			
60 % off	513	Deg F			
65 % off	526	Deg F			
70 % off	541	Deg F			
75 % off	557	Deg F			
80 % off	573	Deg F			
85 % off	592	Deg F			
90 % off	614	Deg F			
95 % off	647	Deg F			
FBP	762	Deg F			
Density	0.8460	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	2.00	cSt @ 40 C	ASTM D-445	9/14/04	JM

Sample Number: 143976-016	**Sample ID:**	MP-29DP/040908		**Sample Rcvd:**
Sample Date: 9/8/04 4:25:00 PM	**Description:**			9/13/04

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst
Sample Number: 143976-016	**Sample ID:**	MP-29DP/040908			**Sample Rcvd:**
Sample Date: 9/8/04 4:25:00 PM	**Description:**				9/13/04
Simulated Distillation-Distillates					
IBP	70	Deg F	ASTM D-2887	9/14/04	DM
5 % off	96	Deg F			
10 % off	131	Deg F			
15 % off	154	Deg F			
20 % off	178	Deg F			
25 % off	199	Deg F			
30 % off	221	Deg F			
35 % off	246	Deg F			
40 % off	280	Deg F			
45 % off	292	Deg F			
50 % off	322	Deg F			
55 % off	337	Deg F			
60 % off	362	Deg F			
65 % off	390	Deg F			
70 % off	415	Deg F			
75 % off	443	Deg F			
80 % off	471	Deg F			
85 % off	500	Deg F			
90 % off	536	Deg F			
95 % off	583	Deg F			
FBP	686	Deg F			
Density	0.7804	gm/mL @ 60 F	ASTM D-4052	9/13/04	DBC
Kinematic Viscosity	0.77	cSt @ 40 C	ASTM D-445	9/16/04	JM

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

HEIDI MENDYGRAL
CLAYTON GROUP SERVICES
3140 FINLAY ROAD
DOWNERS GROVE, IL 60515

Date Reported: 10/11/04
Date Received: 9/13/04

Analytical Report

Test	Result	Units	Method	Date	Analyst

Approved By: _____
Jean Waits
Supervising Chemist

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal, or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

Core Lab
PETROLEUM SERVICES

8210 Mosley Rd.
Houston, TX 77075
713-943-9776 Telephone
713-943-3846 Facsimile

Clayton Group Services
3140 Finlay Road
Downers Grove, IL 60515
ATTN: Heidi Mendygral

Analysis	Units	Method	Dup-02/040908	MP-37DP 040908	MP-45CP 040908	MP-32BP/040909	MP-35DP/040908	HMW-46CP 040908	MP-49CP 040908	MP-55CP 040908	DUP-01 040908	MP-52C 040908
			143976-1	143976-2	143976-3	143976-4	143976-5	143976-6	143976-7	143976-8	143976-9	143976-10
Density	gm/mL @ 60° F	ASTM D-4052	0.7530	0.7524	0.7580	0.7659	0.7730	0.8032	0.7359	0.7606	0.7609	0.7324
Kinematic Viscosity	cSt @ 40° C	ASTM D-445	0.56	0.57	0.59	0.59	0.61	1.08	0.52	0.63	0.63	0.50
Simulated Distillation	°F	ASTM D-2887										
IBP			26	21	32	76	80	76	13	24	21	11
5 % off			83	82	108	137	137	130	76	82	81	35
10 % off			98	97	143	164	165	168	85	96	95	84
15 % off			130	128	168	189	191	199	103	124	125	96
20 % off			143	142	191	197	199	231	134	142	143	122
25 % off			163	162	198	204	207	276	127	166	166	139
30 % off			188	187	206	211	217	300	175	192	192	162
35 % off			198	198	213	220	236	334	194	203	203	185
40 % off			210	208	232	237	240	361	201	225	226	196
45 % off			232	231	238	241	251	387	208	237	237	205
50 % off			238	238	249	250	277	409	218	252	252	214
55 % off			251	250	270	267	288	429	236	284	284	235
60 % off			282	282	287	287	294	447	241	295	295	241
65 % off			290	289	295	292	306	465	262	325	325	262
70 % off			314	311	316	303	326	485	286	342	341	286
75 % off			332	331	330	326	337	504	296	373	372	297
80 % off			349	348	340	338	347	525	324	407	407	325
85 % off			380	378	363	350	367	550	338	450	450	339
90 % off			416	415	387	373	390	579	366	508	507	369
95 % off			485	484	419	403	420	617	400	576	575	404
FBP			645	643	514	492	558	727	505	697	693	486

Core Lab
PETROLEUM SERVICES

8210 Mosley Rd.
Houston, TX 77075
713-943-9776 Telephone
713-943-3846 Facsimile

CORE LABORATORIES

Clayton Group Services
3140 Finlay Road
Downers Grove, IL 60515
ATTN: Heidi Mendygral

Analysis	Units	Method	MP-47CP 040908	MP-29CP 040908	MP-39CP 040908	HMW-44CP 040908	HMW-48CP 040908	MP-29DP 040908
			143976-11	143976-12	143976-13	143976-14	143976-15	143976-16
Density	gm/mL @ 60° F	ASTM D-4052	0.7543	0.8480	0.7501	0.7594	0.8460	0.7804
Kinematic Viscosity	cSt @ 40° C	ASTM D-445	0.58	2.16	0.51	0.63	2.00	0.77
Simulated Distillation	°F	ASTM D-2887						
IBP			26	78	29	16	127	70
5 % off			82	333	83	81	249	96
10 % off			97	379	98	94	335	131
15 % off			126	403	128	124	374	154
20 % off			141	420	141	145	400	178
25 % off			163	435	161	168	418	199
30 % off			188	446	178	193	435	221
35 % off			199	456	195	204	449	246
40 % off			212	468	204	230	460	280
45 % off			234	480	215	238	476	292
50 % off			239	490	234	259	488	322
55 % off			259	499	239	285	499	337
60 % off			285	511	251	296	513	362
65 % off			294	522	281	327	526	390
70 % off			323	534	289	347	541	415
75 % off			337	548	300	381	557	443
80 % off			362	565	326	412	573	471
85 % off			393	582	339	452	592	500
90 % off			437	604	363	506	614	536
95 % off			517	635	396	571	647	583
FBP			666	716	511	685	762	686

Core Lab
Houston TX

Clayton GROUP SERVICES

REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT
Date Results Requested: Standard
Rush Charges Authorized? ☐ Yes ☐ No
☐ Fax or ☐ E-mail Results
E-mail address: Kconise@claytongsp.com

For Clayton Use Only
Clayton Lab Project No.

REPORT RESULTS TO
Name: Heidi Mendyral
Company: Clayton Group Services
Mailing Address: 3140 Finley Rd
City, State, Zip: Downers Grove, IL 60515
Telephone No.: 630-795-3200 FAX No.: 630-795-1130

Client Job No.: 15-C3095.14-006
Dept.:

Purchase Order No.:

SEND INVOICE TO
Name:
Company: Dept.:
Address:
City, State, Zip:

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.)

* Explanation of Preservative

Samples are:
(check if applicable)
☐ Drinking Water
☐ Groundwater
☐ Wastewater

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	Simulated Distillation	Viscosity	Density								FOR LAB USE ONLY
mp-55Cp1040908	9/8/04	1550	W		1	X	X	X								
Dup-01/040908		NA	W		1	X	X	X								
mp-52c/040908		1600	W		1	X	X	X								
mp-47Cp/040908		1615	W		1	X	X	X								
mp-29cp/040908		1630	W		1	X	X	X								
mp-39Cp/040908		1733	W		1	X	X	X								
HMW-44Cp/040908		1540	W		1	X	X	X								
HMW-48Cp/040908		1655	W		1	X	X	X								
mp-29Dp/040908		1625	W		1	X	X	X								

CHAIN OF CUSTODY
Collected by: Heidi Mendyral (print) — Collector's Signature: Heidi Mendyral
Relinquished by: Heidi Mendyral — Date/Time 9/8/04 — Received by: — Date/Time
Relinquished by: — Date/Time — Received by: — Date/Time
Method of Shipment: — Received at Lab by: AM. [illegible] — Date/Time 9-13-04/11:5[illegible]
Authorized by: _____ Date _____
(Client Signature MUST Accompany Request)
Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)

Please return completed form and samples to one of the Clayton Group Services, Inc. labs listed below:

Detroit Regional Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
FAX (248) 344-2655

Atlanta Regional Lab
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
FAX (770) 423-4990

Seattle Regional Lab
4636 E. Marginal Way S., Suite 215
Seattle, WA 98134
(800) 568-7755
(206) 763-7364
FAX (206) 763-4189

DISTRIBUTION:
White = Clayton Laboratory
Yellow = Clayton Accounting
Pink = Client Copy

9/97 20K

Core Lab
Houston TX

Clayton GROUP SERVICES

REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT
Date Results Requested: Hardcopy
Rush Charges Authorized? ☐ Yes ☐ No
☐ Fax or ☐ E-mail Results
E-mail address: kcamino@claytongp.com

For Clayton Use Only
Clayton Lab Project No.

REPORT RESULTS TO
Name: Heidi Mendygral
Company: Clayton Group
Mailing Address: 3140 Finley RD
City, State, Zip: Downers Grove, IL 60515
Telephone No. 630-795-3200 FAX No. 630-795-1130
Client Job No. 15-03095.14-066
Dept.

SEND INVOICE TO
Purchase Order No.
Name
Company
Dept.
Address
City, State, Zip

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.)

* Explanation of Preservative

Samples are:
(check if applicable)
☐ Drinking Water
☐ Groundwater
☐ Wastewater

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	Simulated Distillation	Viscosity	Density								FOR LAB USE ONLY
Dup-02\040908	9/8/04	NA	W		1	X	X	X								
mp-37 Dp\040908	9/8/04	1845	W		1	X	X	X								
mp-45cp\040908	9/8/04	1835	W		1	X	X	X								
mp-32 Bp\040909	9/9/04	815	W		1	X	X	X								
mp-35 Dp\040908	9/8/04	1825	W		1	X	X	X								
4MW-46Cp\040908	9/8/04	1810	W		1	X	X	X								
mp-49Cp\040908	9/8/04	1745	W		1	X	X	X								

CHAIN OF CUSTODY
Collected by: Heidi Mendygral (print)
Collector's Signature: Heidi Mendygral
Relinquished by: Heidi Mendygral Date/Time 8/9/04
Received by: Date/Time
Relinquished by: Date/Time
Received by: Date/Time
Method of Shipment:
Received at Lab by: [illegible] Date/Time 9/9/04 1150
Authorized by: _____ Date _____
(Client Signature MUST Accompany Request)
Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)

Please return completed form and samples to one of the Clayton Group Services, Inc. labs listed below:

Detroit Regional Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
FAX (248) 344-2655

Atlanta Regional Lab
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
FAX (770) 423-4990

Seattle Regional Lab
4636 E. Marginal Way S., Suite 215
Seattle, WA 98134
(800) 568-7755
(206) 763-7364
FAX (206) 763-4189

DISTRIBUTION:
White = Clayton Laboratory
Yellow = Clayton Accounting
Pink = Client Copy

9/97 20K

APPENDIX E

BAIL-DOWN ACTIVITY DATA FORMS

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-44C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/23/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	27.20-42.10	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 4 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	12:42:00	0	31.63	29.14	41.55	2.49	9.92

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	13:00:00	0.0	31.22	29.28	41.55	1.94	10.33
9/23/2004		0.5	31.34	29.23	41.55	2.11	10.21
9/23/2004		1.0	31.40	29.20	41.55	2.20	10.15
9/23/2004		1.5	31.44	29.19	41.55	2.25	10.11
9/23/2004		2.0	31.46	29.18	41.55	2.28	10.09
9/23/2004		2.5	31.49	29.16	41.55	2.33	10.06
9/23/2004		3.0	31.51	29.16	41.55	2.35	10.04
9/23/2004		3.5	31.53	29.16	41.55	2.37	10.02
9/23/2004		4.0	31.55	29.16	41.55	2.39	10.00
9/23/2004		4.5	31.60	29.13	41.55	2.47	9.95
9/23/2004		5.0	31.61	29.13	41.55	2.48	9.94
9/23/2004		5.5	31.62	29.13	41.55	2.49	9.93
9/23/2004		6.0	31.64	29.13	41.55	2.51	9.91
9/23/2004		6.5	31.66	29.12	41.55	2.54	9.89
9/23/2004		7.0	31.66	29.12	41.55	2.54	9.89
9/23/2004		7.5	31.67	29.12	41.55	2.55	9.88
9/23/2004		8.0	31.68	29.11	41.55	2.57	9.87
9/23/2004		8.5	31.68	29.11	41.55	2.57	9.87
9/23/2004		9.0	31.69	29.11	41.55	2.58	9.86
9/23/2004		9.5	31.70	29.10	41.55	2.60	9.85
9/23/2004		10.0	31.70	29.10	41.55	2.60	9.85
End Of Test							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-44C(2)
Project Location:	Hartford, IL	Start Date:	9/24/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	27.20-42.10	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 1 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/24/2004	11:06:00	0	31.72	29.14	41.55	2.58	9.83

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/24/2004	11:41:00	0	31.22	29.31	41.55	1.91	10.33
9/24/2004		0.5	31.28	29.30	41.55	1.98	10.27
9/24/2004		1.0	31.33	29.28	41.55	2.05	10.22
9/24/2004		1.5	31.37	29.26	41.55	2.11	10.18
9/24/2004		2.0	31.41	29.25	41.55	2.16	10.14
9/24/2004		2.5	31.45	29.24	41.55	2.21	10.10
9/24/2004		3.0	31.49	29.23	41.55	2.26	10.06
9/24/2004		3.5	31.50	29.21	41.55	2.29	10.05
9/24/2004		4.0	31.55	29.19	41.55	2.36	10.00
9/24/2004		4.5	31.58	29.19	41.55	2.39	9.97
9/24/2004		5.0	31.59	29.19	41.55	2.40	9.96
9/24/2004		6.0	31.61	29.18	41.55	2.43	9.94
9/24/2004		7.0	31.64	29.17	41.55	2.47	9.91
9/24/2004		8.0	31.67	29.16	41.55	2.51	9.88
9/24/2004		9.0	31.68	29.16	41.55	2.52	9.87
9/24/2004		10.0	31.69	29.16	41.55	2.53	9.86
9/24/2004		12.0	31.70	29.15	41.55	2.55	9.85
9/24/2004		14.0	31.72	29.14	41.55	2.58	9.83
9/24/2004	11:57:00	16.0	31.72	29.14	41.55	2.58	9.83
END OF TEST							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-46C
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	31.20-40.90	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 0.5 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	12:57:00	0	32.93	32.73	45.40	0.20	12.47

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	13:06:00	0.0	32.78	32.77	45.40	0.01	12.62
9/22/2004		0.5	32.78	32.76	45.40	0.02	12.62
9/22/2004		1.0	32.78	32.75	45.40	0.03	12.62
9/22/2004		1.5	32.78	32.75	45.40	0.03	12.62
9/22/2004		2.0	32.78	32.74	45.40	0.04	12.62
9/22/2004		2.5	32.77	32.73	45.40	0.04	12.63
9/22/2004		3.0	32.77	32.73	45.40	0.04	12.63
9/22/2004		3.5	32.78	32.73	45.40	0.05	12.62
9/22/2004		4.0	32.77	32.73	45.40	0.04	12.63
9/22/2004		4.5	32.78	32.73	45.40	0.05	12.62
9/22/2004		5.0	32.78	32.73	45.40	0.05	12.62
9/22/2004		6.0	32.77	32.73	45.40	0.04	12.63
9/22/2004		7.0	32.77	32.73	45.40	0.04	12.63
9/22/2004		8.0	32.78	32.73	45.40	0.05	12.62
9/22/2004		9.0	32.78	32.73	45.40	0.05	12.62
9/22/2004		10.0	32.77	32.73	45.40	0.04	12.63
9/22/2004		12.0	32.78	32.73	45.40	0.05	12.62
9/22/2004		14.0	32.78	32.73	45.40	0.05	12.62
9/22/2004		20.0	32.78	32.73	45.40	0.05	12.62
9/22/2004		30.0	32.77	32.73	45.40	0.04	12.63
9/22/2004		86.0	32.76	32.72	45.40	0.04	12.64
9/22/2004	16:38:00	214.0	32.75	32.71	45.40	0.04	12.65
9/23/2004	8:51:00	1187.0	32.70	32.68	45.40	0.02	12.70
9/23/2004		1361.0	32.69	32.63	45.40	0.06	12.71

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-46C
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	17:11:00	1687.0	32.59	32.56	45.40	0.03	12.81
9/24/2004	9:02:00	2638.0	32.56	32.53	45.40	0.03	12.84
End of Test							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-48B
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/23/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	20.50-29.20	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 0.5 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	11:37:00	0	15.11	15.06	29.22	0.05	14.11

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	11:41:00	0.0	15.61	15.60	29.22	0.01	13.61
9/22/2004		0.5	15.54	15.53	29.22	0.01	13.68
9/22/2004		1.0	15.48	15.46	29.22	0.02	13.74
9/22/2004		1.5	15.44	15.42	29.22	0.02	13.78
9/22/2004		2.0	15.39	15.38	29.22	0.01	13.83
9/22/2004		2.5	15.36	15.34	29.22	0.02	13.86
9/22/2004		3.0	15.34	15.31	29.22	0.03	13.88
9/22/2004		3.5	15.31	15.29	29.22	0.02	13.91
9/22/2004		4.0	15.30	15.28	29.22	0.02	13.92
9/22/2004		4.5	15.28	15.26	29.22	0.02	13.94
9/22/2004		5.0	15.25	15.22	29.22	0.03	13.97
9/22/2004		6.0	15.20	15.18	29.22	0.02	14.02
9/22/2004		7.0	15.19	15.15	29.22	0.04	14.03
9/22/2004		8.0	15.17	15.13	29.22	0.04	14.05
9/22/2004		9.0	15.15	15.12	29.22	0.03	14.07
9/22/2004		10.0	15.15	15.11	29.22	0.04	14.07
9/22/2004		11.0	15.14	15.10	29.22	0.04	14.08
9/22/2004		12.0	15.12	15.09	29.22	0.03	14.10
9/22/2004		13.0	15.12	15.08	29.22	0.04	14.10
9/22/2004		14.0	15.12	15.07	29.22	0.05	14.10
9/22/2004		15.0	15.11	15.07	29.22	0.04	14.11
9/22/2004		16.0	15.10	15.06	29.22	0.04	14.12
9/22/2004		17.0	15.09	15.05	29.22	0.04	14.13
9/22/2004		18.0	15.09	15.05	29.22	0.04	14.13

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-48B
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/23/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004		19.0	15.10	15.05	29.22	0.05	14.12
9/22/2004		20.0	15.10	15.04	29.22	0.06	14.12
9/22/2004	12:02:00	21.0	15.09	15.04	29.22	0.05	14.13
9/24/2004	8:42:00	1261.0	15.16	15.13	29.22	0.03	14.06
End of Test							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-48C
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	32.00-40.70	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 1 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	9:10:00	0	31.82	27.71	40.96	4.11	9.14

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	9:22:20	0.0	30.45	30.32	40.96	0.13	10.51
9/22/2004		0.5	30.08	29.96	40.96	0.12	10.88
9/22/2004		1.0	29.91	29.68	40.96	0.23	11.05
9/22/2004		1.5	29.68	29.50	40.96	0.18	11.28
9/22/2004		2.0	29.54	29.31	40.96	0.23	11.42
9/22/2004		2.5	29.38	29.15	40.96	0.23	11.58
9/22/2004		3.0	29.27	29.02	40.96	0.25	11.69
9/22/2004		3.5	29.16	28.93	40.96	0.23	11.80
9/22/2004		4.0	29.08	28.84	40.96	0.24	11.88
9/22/2004		4.5	29.05	28.78	40.96	0.27	11.91
9/22/2004		5.0	28.96	28.72	40.96	0.24	12.00
9/22/2004		5.5	28.92	28.67	40.96	0.25	12.04
9/22/2004		6.0	28.89	28.64	40.96	0.25	12.07
9/22/2004		6.5	28.87	28.61	40.96	0.26	12.09
9/22/2004		7.0	28.84	28.57	40.96	0.27	12.12
9/22/2004		8.0	28.82	28.53	40.96	0.29	12.14
9/22/2004		9.0	28.76	28.51	40.96	0.25	12.20
9/22/2004		10.0	28.75	28.47	40.96	0.28	12.21
9/22/2004		11.0	28.74	28.46	40.96	0.28	12.22
9/22/2004		12.0	28.72	28.43	40.96	0.29	12.24
9/22/2004		14.0	28.69	28.42	40.96	0.27	12.27
9/22/2004		16.0	28.69	28.41	40.96	0.28	12.27
9/22/2004		18.0	28.68	28.40	40.96	0.28	12.28
9/22/2004		20.0	28.67	28.39	40.96	0.28	12.29

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	HMW-48C
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004		22.0	28.66	28.39	40.96	0.27	12.30
9/22/2004		24.0	28.67	28.38	40.96	0.29	12.29
9/22/2004		26.0	28.64	28.38	40.96	0.26	12.32
9/22/2004		28.0	28.64	28.37	40.96	0.27	12.32
9/22/2004		30.0	28.64	28.37	40.96	0.27	12.32
9/22/2004		35.0	28.64	28.36	40.96	0.28	12.32
9/22/2004		40.0	28.67	28.38	40.96	0.29	12.29
9/22/2004		45.0	28.69	28.36	40.96	0.33	12.27
9/22/2004		50.0	28.68	28.37	40.96	0.31	12.28
9/22/2004		55.0	28.68	28.36	40.96	0.32	12.28
9/22/2004		60.0	28.68	28.36	40.96	0.32	12.28
9/22/2004		70.0	28.65	28.36	40.96	0.29	12.31
9/22/2004		80.0	28.67	28.35	40.96	0.32	12.29
9/22/2004		90.0	28.70	28.35	40.96	0.35	12.26
9/22/2004		100.0	28.69	28.34	40.96	0.35	12.27
9/22/2004		110.0	28.69	28.34	40.96	0.35	12.27
9/22/2004		120.0	28.68	28.34	40.96	0.34	12.28
9/22/2004		163.0	28.68	28.33	40.96	0.35	12.28
9/22/2004		261	28.68	28.30	40.96	0.38	12.28
9/22/2004		321	28.75	28.28	40.96	0.47	12.21
9/22/2004	16:51:20	449	28.72	28.23	40.96	0.49	12.24
9/23/2004	8:43:00	1401	29.14	28.25	40.96	0.89	11.82
9/23/2004	11:41:00	1579	28.96	28.20	40.96	0.76	12.00
9/23/2004	17:03:00	1901	29.18	28.13	40.96	1.05	11.78
9/24/2004	8:45:00	2843	29.58	28.18	40.96	1.40	11.38
END OF TEST							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-29C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	21.60-28.30	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 0.5 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	9:01:00	0	23.28	22.80	28.37	0.48	5.09

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	9:08:00	0.0	23.37	23.35	28.37	0.02	5.00
9/23/2004		0.5	23.35	23.31	28.37	0.04	5.02
9/23/2004		1.0	23.34	23.29	28.37	0.05	5.03
9/23/2004		1.5	23.32	23.28	28.37	0.04	5.05
9/23/2004		2.0	23.31	23.27	28.37	0.04	5.06
9/23/2004		2.5	23.31	23.27	28.37	0.04	5.06
9/23/2004		3.0	23.29	23.25	28.37	0.04	5.08
9/23/2004		3.5	23.29	23.24	28.37	0.05	5.08
9/23/2004		4.0	23.29	23.24	28.37	0.05	5.08
9/23/2004		4.5	23.28	23.23	28.37	0.05	5.09
9/23/2004		5.0	23.27	23.23	28.37	0.04	5.10
9/23/2004		6.0	23.25	23.21	28.37	0.04	5.12
9/23/2004		7.0	23.24	23.20	28.37	0.04	5.13
9/23/2004		8.0	23.23	23.19	28.37	0.04	5.14
9/23/2004		9.0	23.22	23.19	28.37	0.03	5.15
9/23/2004		10.0	23.20	23.17	28.37	0.03	5.17
9/23/2004		12.0	23.19	23.15	28.37	0.04	5.18
9/23/2004		14.0	23.18	23.14	28.37	0.04	5.19
9/23/2004		16.0	23.16	23.13	28.37	0.03	5.21
9/23/2004		21.0	23.13	23.10	28.37	0.03	5.24
9/23/2004		26.0	23.10	23.07	28.37	0.03	5.27
9/23/2004		31.0	23.08	23.06	28.37	0.02	5.29
9/23/2004		36.0	23.06	23.03	28.37	0.03	5.31
9/23/2004		51.0	23.02	23.00	28.37	0.02	5.35

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-29C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004		62.0	22.99	22.98	28.37	0.01	5.38
9/23/2004		77.0	22.95	22.92	28.37	0.03	5.42
9/23/2004		150.0	22.87	22.85	28.37	0.02	5.50
9/23/2004		207.0	22.86	22.85	28.37	0.01	5.51
9/23/2004		292.0	22.80	22.79	28.37	0.01	5.57
9/23/2004		377.0	22.79	22.78	28.37	0.01	5.58
9/23/2004	17:00:00	472.0	22.77	22.76	28.37	0.01	5.60
9/24/2004	8:53:00	1425.0	22.87	22.86	28.37	0.01	5.50
End of Test							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-29D
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/23/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	31.50-41.20	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 1 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	15:28:00	0	32.34	30.66	41.00	1.68	8.66

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004	15:37:00	0.0	31.18	30.95	41.00	0.23	9.82
9/22/2004		0.5	31.35	30.93	41.00	0.42	9.65
9/22/2004		1.0	31.49	30.94	41.00	0.55	9.51
9/22/2004		1.5	31.47	30.93	41.00	0.54	9.53
9/22/2004		2.0	31.48	30.92	41.00	0.56	9.52
9/22/2004		2.5	31.50	30.92	41.00	0.58	9.50
9/22/2004		3.0	31.52	30.90	41.00	0.62	9.48
9/22/2004		3.5	31.55	30.89	41.00	0.66	9.45
9/22/2004		4.0	31.56	30.88	41.00	0.68	9.44
9/22/2004		4.5	31.59	30.87	41.00	0.72	9.41
9/22/2004		5.0	31.65	30.86	41.00	0.79	9.35
9/22/2004		6.0	31.69	30.85	41.00	0.84	9.31
9/22/2004		7.0	31.75	30.84	41.00	0.91	9.25
9/22/2004		8.0	31.80	30.82	41.00	0.98	9.20
9/22/2004		9.0	31.84	30.81	41.00	1.03	9.16
9/22/2004		10.0	31.86	30.80	41.00	1.06	9.14
9/22/2004		12.0	31.90	30.78	41.00	1.12	9.10
9/22/2004		14.0	31.94	30.77	41.00	1.17	9.06
9/22/2004		16.0	31.99	30.76	41.00	1.23	9.01
9/22/2004		18.0	32.01	30.75	41.00	1.26	8.99
9/22/2004		20.0	32.06	30.74	41.00	1.32	8.94
9/22/2004		22.0	32.06	30.74	41.00	1.32	8.94
9/22/2004		24.0	32.08	30.73	41.00	1.35	8.92
9/22/2004		26.0	32.09	30.72	41.00	1.37	8.91

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-29D
Project Location:	Hartford, IL	Start Date:	9/22/2004
Project No.:	15-03095	End Date:	9/23/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/22/2004		28.0	32.11	30.72	41.00	1.39	8.89
9/22/2004		30.0	32.13	30.72	41.00	1.41	8.87
9/22/2004		35.0	32.18	30.72	41.00	1.46	8.82
9/22/2004		40.0	32.20	30.70	41.00	1.50	8.80
9/22/2004		45.0	32.24	30.68	41.00	1.56	8.76
9/22/2004		50.0	32.26	30.67	41.00	1.59	8.74
9/22/2004		55.0	32.25	30.68	41.00	1.57	8.75
9/22/2004	16:55:00	78.0	32.34	30.65	41.00	1.69	8.66
9/23/2004	9:00:00	1043.0	32.13	30.74	41.00	1.39	8.87
END OF TEST							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-29D (2)
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/23/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	31.50-41.20	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 0.75 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	9:45:00	0	32.18	30.73	41.00	1.45	8.82

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	9:52:00	0.0	30.97	30.97	41.00	0.00	10.03
9/23/2004		0.5	30.97	30.93	41.00	0.04	10.03
9/23/2004		1.0	31.10	30.92	41.00	0.18	9.90
9/23/2004		1.5	31.50	30.91	41.00	0.59	9.50
9/23/2004		2.0	31.52	30.90	41.00	0.62	9.48
9/23/2004		2.5	31.57	30.90	41.00	0.67	9.43
9/23/2004		3.0	31.59	30.89	41.00	0.70	9.41
9/23/2004		3.5	31.62	30.88	41.00	0.74	9.38
9/23/2004		4.0	31.66	30.87	41.00	0.79	9.34
9/23/2004		4.5	31.70	30.85	41.00	0.85	9.30
9/23/2004		5.0	31.74	30.85	41.00	0.89	9.26
9/23/2004		6.0	31.81	30.82	41.00	0.99	9.19
9/23/2004		7.0	31.83	30.82	41.00	1.01	9.17
9/23/2004		8.0	31.87	30.81	41.00	1.06	9.13
9/23/2004		9.0	31.91	30.80	41.00	1.11	9.09
9/23/2004		10.0	31.94	30.78	41.00	1.16	9.06
9/23/2004		12.0	31.99	30.77	41.00	1.22	9.01
9/23/2004		14.0	32.02	30.75	41.00	1.27	8.98
9/23/2004		16.0	32.05	30.74	41.00	1.31	8.95
9/23/2004		18.0	32.08	30.74	41.00	1.34	8.92
9/23/2004		20.0	32.08	30.73	41.00	1.35	8.92
9/23/2004		22.0	32.09	30.72	41.00	1.37	8.91
9/23/2004		24.0	32.11	30.71	41.00	1.40	8.89
9/23/2004		26.0	32.13	30.71	41.00	1.42	8.87

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-29D (2)
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/23/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004		28.0	32.16	30.70	41.00	1.46	8.84
9/23/2004		30.0	32.17	30.70	41.00	1.47	8.83
9/23/2004		32.0	32.17	30.69	41.00	1.48	8.83
9/23/2004	10:26:00	34.0	32.19	30.69	41.00	1.50	8.81
End Of Test							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-39C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	29.00-43.70	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 1 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	10:45:00	0	34.59	32.94	44.33	1.65	9.74

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	10:55:00	0	33.93	33.74	44.33	0.19	10.40
9/23/2004		0.5	33.75	33.53	44.33	0.22	10.58
9/23/2004		1.0	33.73	33.46	44.33	0.27	10.60
9/23/2004		1.5	33.71	33.43	44.33	0.28	10.62
9/23/2004		2.0	33.68	33.40	44.33	0.28	10.65
9/23/2004		2.5	33.65	33.36	44.33	0.29	10.68
9/23/2004		3.0	33.64	33.34	44.33	0.30	10.69
9/23/2004		3.5	33.61	33.33	44.33	0.28	10.72
9/23/2004		4.0	33.60	33.33	44.33	0.27	10.73
9/23/2004		4.5	33.60	33.32	44.33	0.28	10.73
9/23/2004		5.0	33.59	33.30	44.33	0.29	10.74
9/23/2004		6.0	33.60	33.30	44.33	0.30	10.73
9/23/2004		7.0	33.59	33.29	44.33	0.30	10.74
9/23/2004		8.0	33.59	33.29	44.33	0.30	10.74
9/23/2004		9.0	33.59	33.28	44.33	0.31	10.74
9/23/2004		10.0	33.60	33.28	44.33	0.32	10.73
9/23/2004		12.0	33.61	33.28	44.33	0.33	10.72
9/23/2004		14.0	33.60	33.26	44.33	0.34	10.73
9/23/2004		16.0	33.61	33.26	44.33	0.35	10.72
9/23/2004		18.0	33.61	33.25	44.33	0.36	10.72
9/23/2004		20.0	33.62	33.26	44.33	0.36	10.71
9/23/2004		25.0	33.62	33.25	44.33	0.37	10.71
9/23/2004		30.0	33.63	33.26	44.33	0.37	10.70
9/23/2004		35.0	33.61	33.27	44.33	0.34	10.72

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Premcor	Well ID:	MP-39C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004		54.0	33.61	33.25	44.33	0.36	10.72
9/23/2004		95.0	33.61	33.23	44.33	0.38	10.72
9/23/2004		180.0	33.56	33.20	44.33	0.36	10.77
9/23/2004		275.0	33.59	33.21	44.33	0.38	10.74
9/23/2004	17:15:00	380.0	33.58	33.21	44.33	0.37	10.75
9/24/2004	9:10:00	1335.0	33.69	33.19	44.33	0.50	10.64
END OF TEST							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-45C
Project Location:	Hartford, IL	Start Date:	9/24/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	29.00-43.70	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 2 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/24/2004	12:57:00	0	32.23	30.26	44.17	1.97	11.94

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/24/2004	13:11:00	0.0	31.00	30.66	44.17	0.34	13.17
9/24/2004		0.5	31.01	30.65	44.17	0.36	13.16
9/24/2004		1.0	31.01	30.65	44.17	0.36	13.16
9/24/2004		1.5	30.99	30.65	44.17	0.34	13.18
9/24/2004		2.0	31.02	30.66	44.17	0.36	13.15
9/24/2004		2.5	31.02	30.65	44.17	0.37	13.15
9/24/2004		3.0	30.99	30.65	44.17	0.34	13.18
9/24/2004		3.5	31.00	30.65	44.17	0.35	13.17
9/24/2004		4.0	31.02	30.65	44.17	0.37	13.15
9/24/2004		4.5	31.03	30.64	44.17	0.39	13.14
9/24/2004		5.0	31.03	30.65	44.17	0.38	13.14
9/24/2004		6.0	31.02	30.65	44.17	0.37	13.15
9/24/2004		7.0	31.02	30.65	44.17	0.37	13.15
9/24/2004		8.0	31.03	30.64	44.17	0.39	13.14
9/24/2004		10.0	31.04	30.64	44.17	0.40	13.13
9/24/2004		12.0	31.05	30.64	44.17	0.41	13.12
9/24/2004		14.0	30.99	30.64	44.17	0.35	13.18
9/24/2004		16.0	31.03	30.63	44.17	0.40	13.14
9/24/2004		18.0	31.02	30.63	44.17	0.39	13.15
9/24/2004		20.0	31.04	30.63	44.17	0.41	13.13
9/24/2004		25.0	31.02	30.63	44.17	0.39	13.15
9/24/2004		30.0	31.05	30.62	44.17	0.43	13.12
9/24/2004		40.0	31.07	30.62	44.17	0.45	13.10
9/24/2004		50.0	31.08	30.61	44.17	0.47	13.09

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-45C
Project Location:	Hartford, IL	Start Date:	9/24/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/24/2004		60.0	31.04	30.61	44.17	0.43	13.13
9/24/2004		85.0	31.09	30.59	44.17	0.50	13.08
9/24/2004		115.0	31.14	30.58	44.17	0.56	13.03
9/24/2004	15:36:00	145.0	31.17	30.57	44.17	0.60	13.00
End of Test							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Premcor	Well ID:	MP-47C
Project Location:	Hartford, IL	Start Date:	9/24/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Person:	B. Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	23.55-38.35	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 3 gals.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/24/2004	9:45:00	0	31.58	29.16	38.37	2.42	6.79

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	10:00:00	0	30.33	29.61	38.37	0.72	8.04
9/23/2004		0.5	30.34	29.57	38.37	0.77	8.03
9/23/2004		1.0	30.35	29.56	38.37	0.79	8.02
9/23/2004		1.5	30.37	29.56	38.37	0.81	8.00
9/23/2004		2.0	30.37	29.56	38.37	0.81	8.00
9/23/2004		2.5	30.41	29.55	38.37	0.86	7.96
9/23/2004		3.0	30.44	29.53	38.37	0.91	7.93
9/23/2004		3.5	30.44	29.53	38.37	0.91	7.93
9/23/2004		4.0	30.44	29.53	38.37	0.91	7.93
9/23/2004		4.5	30.46	29.52	38.37	0.94	7.91
9/23/2004		5.0	30.48	29.52	38.37	0.96	7.89
9/23/2004		6.0	30.51	29.51	38.37	1.00	7.86
9/23/2004		7.0	30.49	29.51	38.37	0.98	7.88
9/23/2004		8.0	30.49	29.51	38.37	0.98	7.88
9/23/2004		9.0	30.49	29.51	38.37	0.98	7.88
9/23/2004		10.0	30.51	29.50	38.37	1.01	7.86
9/23/2004		12.0	30.50	29.50	38.37	1.00	7.87
9/23/2004		14.0	30.52	29.49	38.37	1.03	7.85
9/23/2004		16.0	30.53	29.49	38.37	1.04	7.84
9/23/2004		18.0	30.53	29.49	38.37	1.04	7.84
9/23/2004		20.0	30.55	29.49	38.37	1.07	7.82
9/23/2004		25.0	30.53	29.49	38.37	1.04	7.84
9/23/2004		30.0	30.54	29.48	38.37	1.06	7.83
9/23/2004	10:40:00	40.0	30.56	29.47	38.37	1.09	7.81

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Premcor	Well ID:	MP-47C
Project Location:	Hartford, IL	Start Date:	9/24/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	10:55:00	55.0	30.57	29.47	38.37	1.10	7.80
9/23/2004		82.0	32.84	29.28	38.37	3.56	5.53
9/23/2004	12:02:00	122.0	32.84	29.97	38.37	2.87	5.53
END OF TEST							

Notes: FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-48B
Project Location:	Hartford, IL	Start Date:	9/28/2004
Project No.:	15-03095	End Date:	9/29/2004
Field Personnel:	N. Bolivar and A. Smith		
WELL INFORMATION		**PURGE INFORMATION**	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	28.50-43.20	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/28/2004	14:17:00	0	30.66	29.83	30.78	0.83	0.12

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/28/2004	15:07:00	0.95	30.72	30.25	30.78	0.47	0.06
9/28/2004		1.38	30.72	30.25	30.78	0.47	0.06
9/28/2004		1.68	30.71	30.24	30.78	0.47	0.07
9/28/2004		1.97	30.71	30.24	30.78	0.47	0.07
9/28/2004		2.27	30.71	30.24	30.78	0.47	0.07
9/28/2004		2.63	30.70	30.24	30.78	0.46	0.08
9/28/2004		2.98	30.71	30.23	30.78	0.48	0.07
9/28/2004		3.35	30.69	30.23	30.78	0.46	0.09
9/28/2004		3.82	30.69	30.22	30.78	0.47	0.09
9/28/2004		4.17	30.69	30.22	30.78	0.47	0.09
9/28/2004		4.48	30.68	30.22	30.78	0.46	0.10
9/28/2004		5.90	30.67	30.20	30.78	0.47	0.11
9/28/2004		7.18	30.66	30.19	30.78	0.47	0.12
9/28/2004		8.57	30.64	30.18	30.78	0.46	0.14
9/28/2004		9.90	30.63	30.18	30.78	0.45	0.15
9/28/2004		11.25	30.61	30.17	30.78	0.44	0.17
9/28/2004		12.40	30.60	30.07	30.78	0.53	0.18
9/28/2004		13.53	30.58	30.16	30.78	0.42	0.20
9/28/2004		13.97	30.57	30.15	30.78	0.42	0.21
9/28/2004		15.22	30.56	30.15	30.78	0.41	0.22
9/28/2004		19.65	30.54	30.14	30.78	0.40	0.24
9/28/2004		24.93	30.51	30.12	30.78	0.39	0.27
9/28/2004		30.30	30.48	30.11	30.78	0.37	0.30
9/28/2004		35.68	30.46	30.10	30.78	0.36	0.32

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Premcor	Well ID:	MP-55C
Project Location:	Hartford, IL	Start Date:	9/28/2004
Project No.:	15-03095	End Date:	9/29/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/28/2004		41.13	30.44	30.08	30.78	0.36	0.34
9/28/2004		46.42	30.42	30.08	30.78	0.34	0.36
9/28/2004		51.72	30.41	30.07	30.78	0.34	0.37
9/28/2004		57.23	30.40	30.07	30.78	0.33	0.38
9/28/2004	16:14:00	67.23	30.36	30.03	30.78	0.33	0.42
9/29/2004	8:35:00	981.00	30.36	30.00	30.78	0.36	0.42
END OF TEST							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-53C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	29.30-44.00	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 1.5 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	15:49:00	0	32.46	30.76	44.71	1.70	12.25

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	16:00:00	0	31.46	31.08	44.71	0.38	13.25
9/23/2004		0.5	31.51	31.08	44.71	0.43	13.20
9/23/2004		1.0	31.51	31.08	44.71	0.43	13.20
9/23/2004		1.5	31.51	31.07	44.71	0.44	13.20
9/23/2004		2.0	31.52	31.07	44.71	0.45	13.19
9/23/2004		2.5	31.53	31.07	44.71	0.46	13.18
9/23/2004		3.0	31.54	31.07	44.71	0.47	13.17
9/23/2004		3.5	31.54	31.07	44.71	0.47	13.17
9/23/2004		4.0	31.53	31.07	44.71	0.46	13.18
9/23/2004		4.5	31.55	31.07	44.71	0.48	13.16
9/23/2004		5.0	31.55	31.06	44.71	0.49	13.16
9/23/2004		6.0	31.51	31.06	44.71	0.45	13.20
9/23/2004		7.0	31.56	31.06	44.71	0.50	13.15
9/23/2004		8.0	31.55	31.06	44.71	0.49	13.16
9/23/2004		9.0	31.59	31.06	44.71	0.53	13.12
9/23/2004		10.0	31.56	31.06	44.71	0.50	13.15
9/23/2004		12.0	31.59	31.06	44.71	0.53	13.12
9/23/2004		14.0	31.60	31.06	44.71	0.54	13.11
9/23/2004		16.0	31.61	31.05	44.71	0.56	13.10
9/23/2004		23.0	31.60	31.04	44.71	0.56	13.11
9/23/2004		28.0	31.63	31.05	44.71	0.58	13.08
9/23/2004		33.0	31.62	31.05	44.71	0.57	13.09
9/23/2004		38.0	31.63	31.04	44.71	0.59	13.08
9/23/2004		48.0	31.64	31.04	44.71	0.60	13.07

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Premcor	Well ID:	MP-53C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	17:19:00	79.0	31.65	31.03	44.71	0.62	13.06
9/24/2004	9:22:00	1042.0	31.74	31.06	44.71	0.68	12.97
9/24/2004	14:29:00	1349.0	31.65	31.02	44.71	0.63	13.06
END OF TEST							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Hartford Work Group	Well ID:	MP-55C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004
Field Personnel:	B.Hoekman & S. Peterson		

WELL INFORMATION		PURGE INFORMATION	
Stick-up:	Flush Mount	Purging Method:	Bailer
Casing ID:	2"	Pump Make, Size, or Type:	N/A
Screened Interval:	28.50-43.20	Tube/Pump Intake Depth:	N/A
Borehole ID:	8.5	Pump Rate:	N/A (Bailed ≈ 3 gal.)

PRE-TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	14:21:00	0	32.88	29.20	43.26	3.68	10.38

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004	14:13:00	0	30.97	29.86	43.26	1.11	12.29
9/23/2004		0.5	31.02	29.81	43.26	1.21	12.24
9/23/2004		1.0	31.04	29.79	43.26	1.25	12.22
9/23/2004		1.5	31.14	29.78	43.26	1.36	12.12
9/23/2004		2.0	31.18	29.77	43.26	1.41	12.08
9/23/2004		2.5	31.22	29.76	43.26	1.46	12.04
9/23/2004		3.0	31.23	29.74	43.26	1.49	12.03
9/23/2004		3.5	31.27	29.74	43.26	1.53	11.99
9/23/2004		4.0	31.29	29.73	43.26	1.56	11.97
9/23/2004		4.5	31.30	29.73	43.26	1.57	11.96
9/23/2004		5.0	31.32	29.72	43.26	1.60	11.94
9/23/2004		6.0	31.35	29.71	43.26	1.64	11.91
9/23/2004		7.0	31.36	29.70	43.26	1.66	11.90
9/23/2004		8.0	31.38	29.69	43.26	1.69	11.88
9/23/2004		9.0	31.39	29.69	43.26	1.70	11.87
9/23/2004		10.0	31.39	29.69	43.26	1.70	11.87
9/23/2004		12.0	31.42	29.68	43.26	1.74	11.84
9/23/2004		14.0	31.42	29.68	43.26	1.74	11.84
9/23/2004		16.0	31.45	29.67	43.26	1.78	11.81
9/23/2004		18.0	31.47	29.67	43.26	1.80	11.79
9/23/2004		20.0	31.47	29.67	43.26	1.80	11.79
9/23/2004		25.0	31.49	29.65	43.26	1.84	11.77
9/23/2004		30.0	31.53	29.65	43.26	1.88	11.73
9/23/2004		35.0	31.57	29.62	43.26	1.95	11.69

BAIL-DOWN RECOVERY TEST FORM

ILR000128249 -- Madison County -- LPC1190505040
The Hartford Area Hydrocarbon Plume Site
The Hartford Working Group / Hartford, Illinois

PROJECT INFORMATION			
Project Name:	Premcor	Well ID:	MP-55C
Project Location:	Hartford, IL	Start Date:	9/23/2004
Project No.:	15-03095	End Date:	9/24/2004

TEST INFORMATION

Date	Time (24 Hour)	Time Elapsed (Minutes)	Depth to Water (FT-BTOC)	Depth to FPH (FT-BTOC)	Total Depth (FT-BTOC)	FPH Thickness (Feet)	Linear Feet of Water in Well
9/23/2004		40.0	31.57	29.63	43.26	1.94	11.69
9/23/2004		63.0	31.64	29.59	43.26	2.05	11.62
9/23/2004		107.0	31.80	29.55	43.26	2.25	11.46
9/23/2004	17:24:00	172.0	32.02	29.48	43.26	2.54	11.24
9/24/2004	9:17:00	1125.0	32.88	29.29	43.26	3.59	10.38
END OF TEST							

Notes:
BGS = Below ground surface
FPH = Free phase hydrocarbon
BTOC = Below top of casing
N/A = Not applicable

APPENDIX F

GAUGING TABLES

Appendix F-1:	**Groundwater Elevations/Apparent Product Thickness – Hartford, Illinois**
Appendix F-2:	**Groundwater Elevations/Apparent Product Thickness – Wells Outside of Hartford, Illinois 2004**
Appendix F-3:	**Groundwater Elevations/Apparent Product Thickness – Premcor Facility, 2004**

Clayton
GROUP SERVICES

APPENDIX F-1

GROUNDWATER ELEVATIONS/APPARENT PRODUCT THICKNESS – HARTFORD, ILLINOIS

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
IEPA-4	02/09/04	430.35	32.74	34.12	397.61	396.23	1.38	397.29
	03/15/04	430.35	31.58	32.42	398.77	397.93	0.84	398.58
	04/20/04	430.35	30.35	31.71	400.00	398.64	1.36	399.69
	05/27/04	430.35	30.50	31.83	399.85	398.52	1.33	399.54
	06/03/04	430.35	29.03	30.38	401.32	399.97	1.35	401.01
	06/10/04	430.35	27.66	29.38	402.69	400.97	1.72	402.29
	06/17/04	430.35	27.15	29.44	403.20	400.91	2.29	402.67
	06/23/04	430.35	26.49	29.08	403.86	401.27	2.59	403.26
	06/30/04	430.35	26.39	28.92	403.96	401.43	2.53	403.38
	07/09/04	430.35	27.22	29.69	403.13	400.66	2.47	402.56
	07/14/04	430.35	27.68	29.92	402.67	400.43	2.24	402.15
	07/20/04	430.35	27.94	29.95	402.41	400.40	2.01	401.95
	07/28/04	430.35	28.57	30.30	401.78	400.05	1.73	401.38
	08/03/04	430.35	28.77	30.53	401.58	399.82	1.76	401.18
	08/11/04	430.35	29.04	30.78	401.31	399.57	1.74	400.91
	08/19/04	430.35	29.56	31.32	400.79	399.03	1.76	400.39
	08/27/04	430.35	30.08	31.84	400.27	398.51	1.76	399.87
	09/03/04	430.35	29.50	31.24	400.85	399.11	1.74	400.45
	09/20/04	430.35	30.41	32.16	399.94	398.19	1.75	399.54
HB-07[2]	01/27/04	432.32	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED
HB-16[3]	03/15/04	432.32	--	--	--	--	--	--
	05/27/04	432.32	--	--	--	--	--	--
	06/10/04	432.32	--	--	--	--	--	--
	06/17/04	432.32	--	--	--	--	--	--
	06/23/04	432.32	--	--	--	--	--	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HB-16[3]	06/30/04	432.32	--	--	--	--	--	--
	07/08/07	432.32	--	--	--	--	--	--
	07/14/04	432.32	--	--	--	--	--	--
	07/20/04	432.32	--	--	--	--	--	--
	07/28/04	432.32	--	--	--	--	--	--
	08/03/04	432.32	--	--	--	--	--	--
	04/20/04	431.42	32.15	32.86	399.27	398.56	0.71	399.11
	06/03/04	431.42	29.76	30.43	401.66	400.99	0.67	401.51
	06/17/04	431.42	28.43	30.27	402.99	401.15	1.84	402.57
	06/23/04	431.42	27.40	29.72	404.02	401.70	2.32	403.49
	07/08/04	431.42	28.87	31.67	402.55	399.75	2.80	401.91
	07/20/04	431.42	28.84	32.53	402.58	398.89	3.69	401.73
	08/03/04	431.42	29.82	33.48	401.60	397.94	3.66	400.76
	08/11/04	431.42	30.24	33.54	401.18	397.88	3.30	400.42
	08/19/04	431.42	31.33	33.44	400.09	397.98	2.11	399.60
HB-27[2]	02/18/04	425.83	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED
HB-30	02/18/04	431.08	33.75	34.83	397.33	396.25	1.08	397.08
	04/20/04	431.08	31.03	32.25	400.05	398.83	1.22	399.77
	05/27/04	431.08	30.73	31.50	400.35	399.58	0.77	400.17
	06/03/04	431.08	29.53	30.79	401.55	400.29	1.26	401.26
	06/17/04	431.08	27.55	30.22	403.53	400.86	2.67	402.92
	06/23/04	431.08	26.88	30.26	404.20	400.82	3.38	403.42
	07/08/04	431.08	27.58	30.68	403.50	400.40	3.10	402.79
	07/14/04	431.08	28.13	30.86	402.95	400.22	2.73	402.32
	07/20/04	431.08	28.34	30.93	402.74	400.15	2.59	402.14

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HB-30	07/28/04	431.08	29.21	31.04	401.87	400.04	1.83	401.45
	08/03/04	431.08	NA	29.44	NA	401.64	0.00	401.64
	08/03/04	431.08	29.65	31.48	401.43	399.60	1.83	401.01
	08/19/04	431.08	30.24	31.97	400.84	399.11	1.73	400.44
	09/03/04	431.08	30.06	31.60	401.02	399.48	1.54	400.67
	09/21/04	431.08	31.05	32.33	400.03	398.75	1.28	399.74
HB-31[3]	01/27/04	431.49	NA	35.43	NA	396.06	0.00	396.06
	04/21/04	431.49	NA	33.25	NA	398.24	0.00	398.24
	05/27/04	431.49	NA	32.14	NA	399.35	0.00	399.35
	06/03/04	431.49	NA	29.95	NA	401.54	0.00	401.54
	06/17/04	431.49	NA	28.77	NA	402.72	0.00	402.72
	06/23/04	431.49	NA	27.91	NA	403.58	0.00	403.58
	06/30/04	431.49	NA	28.00	NA	403.49	0.00	403.49
	07/09/04	431.49	NA	29.44	NA	402.05	0.00	402.05
	07/14/04	431.49	NA	29.88	NA	401.61	0.00	401.61
	07/20/04	431.49	NA	30.06	NA	401.43	0.00	401.43
	07/28/04	431.49	NA	30.95	NA	400.54	0.00	400.54
	08/03/04	431.49	NA	31.23	NA	400.26	0.00	400.26
	08/11/04	431.49	NA	31.54	NA	399.95	0.00	399.95
	08/19/04	431.49	NA	32.43	NA	399.06	0.00	399.06
	09/21/04	431.49	NA	33.25	NA	398.24	0.00	398.24
HB-32[4]	01/27/04	433.33	NA	36.94	NA	396.39	0.00	396.39
	02/17/04	433.33	NA	37.62	NA	395.71	0.00	395.71
	02/18/04	433.33	NA	37.58	NA	395.75	0.00	395.75
	02/19/04	433.33	NA	37.42	NA	395.91	0.00	395.91

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HB-32[4]	03/05/04	433.33	NA	36.94	NA	396.39	0.00	396.39
	03/09/04	433.33	NA	35.97	NA	397.36	0.00	397.36
	03/15/04	433.33	NA	35.11	NA	398.22	0.00	398.22
	04/20/04	433.33	NA	34.59	NA	398.74	0.00	398.74
	05/19/04	433.33	NA	35.02	NA	398.31	0.00	398.31
	05/20/04	433.33	NA	34.97	NA	398.36	0.00	398.36
	05/20/04	433.33	NA	34.92	NA	398.41	0.00	398.41
	05/21/04	433.33	NA	34.84	NA	398.49	0.00	398.49
	05/21/04	433.33	NA	34.76	NA	398.57	0.00	398.57
	05/24/04	433.33	NA	34.47	NA	398.86	0.00	398.86
	05/24/04	433.33	NA	24.29	NA	409.04	0.00	409.04
	05/25/04	433.33	NA	34.29	NA	399.04	0.00	399.04
	05/25/04	433.33	NA	34.22	NA	399.11	0.00	399.11
	05/26/04	433.33	NA	34.16	NA	399.17	0.00	399.17
	05/26/04	433.33	NA	34.08	NA	399.25	0.00	399.25
	05/27/04	433.33	NA	33.77	NA	399.56	0.00	399.56
	05/27/04	433.33	NA	33.58	NA	399.75	0.00	399.75
	05/28/04	433.33	NA	33.46	NA	399.87	0.00	399.87
	06/01/04	433.33	NA	32.23	NA	401.10	0.00	401.10
	06/02/04	433.33	NA	32.28	NA	401.05	0.00	401.05
	06/02/04	433.33	NA	32.23	NA	401.10	0.00	401.10
	06/03/04	433.33	NA	32.20	NA	401.13	0.00	401.13
	06/04/04	433.33	NA	31.80	NA	401.53	0.00	401.53
	06/10/04	433.33	NA	31.06	NA	402.27	0.00	402.27
	06/17/04	433.33	NA	30.87	NA	402.46	0.00	402.46

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HB-32[4]	06/23/04	433.33	NA	30.20	NA	403.13	0.00	403.13
	06/30/04	433.33	NA	30.10	NA	403.23	0.00	403.23
	07/09/04	433.33	NA	31.38	NA	401.95	0.00	401.95
	07/14/04	433.33	NA	31.68	NA	401.65	0.00	401.65
	07/20/04	433.33	NA	31.95	NA	401.38	0.00	401.38
	07/28/04	433.33	NA	32.66	NA	400.67	0.00	400.67
	08/03/04	433.33	NA	32.91	NA	400.42	0.00	400.42
	08/11/04	433.33	NA	33.24	NA	400.09	0.00	400.09
	08/19/04	433.33	NA	34.11	NA	399.22	0.00	399.22
	08/27/04	433.33	NA	34.24	NA	399.09	0.00	399.09
	09/03/04	433.33	NA	33.00	NA	400.33	0.00	400.33
	09/21/04	433.33	NA	34.82	NA	398.51	0.00	398.51
HB-33[4]	03/15/04	430.23	NA	30.46	NA	399.77	0.00	399.77
	04/21/04	430.23	NA	29.48	NA	400.75	0.00	400.75
	05/20/04	430.23	NA	30.43	NA	399.80	0.00	399.80
	05/20/04	430.23	NA	30.43	NA	399.80	0.00	399.80
	05/21/04	430.23	NA	30.33	NA	399.90	0.00	399.90
	05/21/04	430.23	NA	30.24	NA	399.99	0.00	399.99
	05/24/04	430.23	NA	29.86	NA	400.37	0.00	400.37
	05/24/04	430.23	NA	29.72	NA	400.51	0.00	400.51
	05/25/04	430.23	NA	29.54	NA	400.69	0.00	400.69
	05/25/04	430.23	NA	29.56	NA	400.67	0.00	400.67
	05/26/04	430.23	NA	29.63	NA	400.60	0.00	400.60
	05/27/04	430.23	NA	29.03	NA	401.20	0.00	401.20
	05/27/04	430.23	NA	28.82	NA	401.41	0.00	401.41

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HB-33[4]	05/28/04	430.23	NA	28.57	NA	401.66	0.00	401.66
	06/01/04	430.23	NA	28.37	NA	401.86	0.00	401.86
	06/02/04	430.23	NA	28.52	NA	401.71	0.00	401.71
	06/02/04	430.23	NA	28.53	NA	401.70	0.00	401.70
	06/03/04	430.23	NA	28.56	NA	401.67	0.00	401.67
	06/03/04	430.23	NA	28.41	NA	401.82	0.00	401.82
	06/04/04	430.23	NA	38.19	NA	392.04	0.00	392.04
	06/10/04	430.23	NA	26.77	NA	403.46	0.00	403.46
	06/17/04	430.23	NA	26.35	NA	403.88	0.00	403.88
	06/23/04	430.23	NA	25.52	NA	404.71	0.00	404.71
	06/30/04	430.23	NA	25.33	NA	404.90	0.00	404.90
	07/09/04	430.23	NA	26.09	NA	404.14	0.00	404.14
	07/14/04	430.23	NA	26.23	NA	404.00	0.00	404.00
	07/20/04	430.23	NA	26.70	NA	403.53	0.00	403.53
	07/28/04	430.23	NA	27.15	NA	403.08	0.00	403.08
	08/03/04	430.23	NA	27.03	NA	403.20	0.00	403.20
	08/11/04	430.23	NA	27.30	NA	402.93	0.00	402.93
	08/19/04	430.23	NA	27.84	NA	402.39	0.00	402.39
	08/27/04	430.23	NA	28.19	NA	402.04	0.00	402.04
	09/03/04	430.23	NA	26.88	NA	403.35	0.00	403.35
	09/21/04	430.23	NA	28.59	NA	401.64	0.00	401.64
HB-37	01/27/04	431.77	33.94	34.27	397.83	397.50	0.33	397.75
	03/15/04	431.77	33.00	33.01	398.77	398.76	0.01	398.77
	04/21/04	431.77	NA	32.03	NA	399.74	0.00	399.74
	05/27/04	431.77	NA	31.65	NA	400.12	0.00	400.12

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HB-37	06/03/04	431.77	NA	30.33	NA	401.44	0.00	401.44
	06/10/04	431.77	29.11	29.12	402.66	402.65	0.01	402.66
	06/17/04	431.77	NA	28.93	NA	402.84	0.00	402.84
	06/23/04	431.77	NA	28.16	NA	403.61	0.00	403.61
	06/30/04	431.77	NA	27.95	NA	403.82	0.00	403.82
	07/08/04	431.77	NA	28.74	NA	403.03	0.00	403.03
	07/14/04	431.77	NA	29.16	NA	402.61	0.00	402.61
	07/20/04	431.77	NA	29.47	NA	402.30	0.00	402.30
	07/28/04	431.77	NA	30.14	NA	401.63	0.00	401.63
	08/03/04	431.77	NA	30.40	NA	401.37	0.00	401.37
	08/11/04	431.77	NA	30.69	NA	401.08	0.00	401.08
	08/19/04	431.77	31.33	31.34	400.44	400.43	0.01	400.44
	08/27/04	431.77	NA	31.80	NA	399.97	0.00	399.97
	09/03/04	431.77	NA	29.92	NA	401.85	0.00	401.85
	09/21/04	431.77	NA	32.22	NA	399.55	0.00	399.55
HB-38	02/18/04	429.92	NA	32.11	NA	397.81	0.00	397.81
	03/15/04	429.92	NA	30.44	NA	399.48	0.00	399.48
	04/21/04	429.92	NA	29.36	NA	400.56	0.00	400.56
	05/27/04	429.92	NA	29.09	NA	400.83	0.00	400.83
	06/17/04	429.92	NA	26.68	NA	403.24	0.00	403.24
	06/23/04	429.92	NA	25.81	NA	404.11	0.00	404.11
	06/30/04	429.92	NA	25.51	NA	404.41	0.00	404.41
	07/08/04	429.92	NA	26.09	NA	403.83	0.00	403.83
	07/14/04	429.92	NA	26.52	NA	403.40	0.00	403.40
	07/20/04	429.92	NA	26.79	NA	403.13	0.00	403.13

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HB-38	07/28/04	429.92	NA	27.43	NA	402.49	0.00	402.49
	08/03/04	429.92	NA	27.73	NA	402.19	0.00	402.19
	08/11/04	429.92	NA	28.02	NA	401.90	0.00	401.90
	08/19/04	429.92	NA	28.62	NA	401.30	0.00	401.30
	08/26/04	429.92	NA	29.10	NA	400.82	0.00	400.82
	09/03/04	429.92	NA	28.47	NA	401.45	0.00	401.45
	09/21/04	429.92	NA	29.58	NA	400.34	0.00	400.34
HMW-01	01/27/04	429.97	NA	19.78	NA	410.19	0.00	410.19
	02/03/04	429.97	NA	20.10	NA	409.87	0.00	409.87
	02/16/04	429.97	NA	20.07	NA	409.90	0.00	409.90
	02/19/04	429.97	NA	20.02	NA	409.95	0.00	409.95
	02/24/04	429.97	NA	20.31	NA	409.66	0.00	409.66
	03/05/04	429.97	NA	19.95	NA	410.02	0.00	410.02
	03/15/04	429.97	NA	19.15	NA	410.82	0.00	410.82
	04/20/04	429.97	NA	19.50	NA	410.47	0.00	410.47
	05/27/04	429.97	NA	16.21	NA	413.76	0.00	413.76
	06/03/04	429.97	NA	17.55	NA	412.42	0.00	412.42
	06/10/04	429.97	NA	18.12	NA	411.85	0.00	411.85
	06/17/04	429.97	NA	18.74	NA	411.23	0.00	411.23
	06/23/04	429.97	NA	18.18	NA	411.79	0.00	411.79
	06/30/04	429.97	NA	19.14	NA	410.83	0.00	410.83
	07/09/04	429.97	NA	19.37	NA	410.60	0.00	410.60
	07/14/04	429.97	NA	19.84	NA	410.13	0.00	410.13
	07/20/04	429.97	NA	20.29	NA	409.68	0.00	409.68
	07/28/04	429.97	NA	20.76	NA	409.21	0.00	409.21

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-01	08/03/04	429.97	NA	20.37	NA	409.60	0.00	409.60
	08/11/04	429.97	NA	20.76	NA	409.21	0.00	409.21
	08/16/04	429.97	29.95	29.96	400.02	400.01	0.01	400.02
	08/27/04	429.97	NA	21.06	NA	408.91	0.00	408.91
	09/03/04	429.97	NA	21.13	NA	408.84	0.00	408.84
	09/20/04	429.97	21.49	21.50	408.48	408.47	0.01	408.48
HMW-02	01/27/04	429.65	32.11	32.88	397.54	396.77	0.77	397.36
	02/03/04	429.65	32.30	33.28	397.35	396.37	0.98	397.12
	02/16/04	429.65	32.51	34.11	397.14	395.54	1.60	396.77
	02/17/04	429.65	32.56	34.14	397.09	395.51	1.58	396.73
	02/18/04	429.65	32.51	34.15	397.14	395.50	1.64	396.76
	02/19/04	429.65	32.41	34.07	397.24	395.58	1.66	396.86
	02/24/04	429.65	32.57	34.26	397.08	395.39	1.69	396.69
	02/27/04	429.65	32.48	33.99	397.17	395.66	1.51	396.82
	03/01/04	429.65	32.34	33.38	397.31	396.27	1.04	397.07
	03/02/04	429.65	32.48	33.70	397.17	395.95	1.22	396.89
	03/03/04	429.65	32.48	33.75	397.17	395.90	1.27	396.88
	03/04/04	429.65	32.23	33.31	397.42	396.34	1.08	397.17
	03/05/04	429.65	32.35	33.19	397.30	396.46	0.84	397.11
	03/08/04	429.65	31.98	32.52	397.67	397.13	0.54	397.55
	03/09/04	429.65	31.90	32.45	397.75	397.20	0.55	397.62
	03/15/04	429.65	31.03	31.58	398.62	398.07	0.55	398.49
	03/16/04	429.65	30.91	31.46	398.74	398.19	0.55	398.61
	03/17/04	429.65	30.88	31.42	398.77	398.23	0.54	398.65
	03/18/04	429.65	30.88	31.44	398.77	398.21	0.56	398.64

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-02	03/19/04	429.65	30.48	31.50	399.17	398.15	1.02	398.94
	03/23/04	429.65	30.80	31.31	398.85	398.34	0.51	398.73
	03/24/04	429.65	30.77	31.32	398.88	398.33	0.55	398.75
	03/30/04	429.65	30.55	31.10	399.10	398.55	0.55	398.97
	03/31/04	429.65	30.47	31.01	399.18	398.64	0.54	399.06
	04/01/04	429.65	30.29	30.91	399.36	398.74	0.62	399.22
	04/20/04	429.65	29.96	30.65	399.69	399.00	0.69	399.53
	05/27/04	429.65	29.54	30.01	400.11	399.64	0.47	400.00
	06/03/04	429.65	28.27	28.73	401.38	400.92	0.46	401.27
	06/10/04	429.65	26.52	27.54	403.13	402.11	1.02	402.90
	06/17/04	429.65	26.98	27.45	402.67	402.20	0.47	402.56
	06/23/04	429.65	26.26	26.70	403.39	402.95	0.44	403.29
	06/30/04	429.65	26.09	26.50	403.56	403.15	0.41	403.47
	07/09/04	429.65	27.13	27.63	402.52	402.02	0.50	402.41
	07/14/04	429.65	27.45	27.88	402.20	401.77	0.43	402.10
	07/20/04	429.65	27.72	28.19	401.93	401.46	0.47	401.82
	07/28/04	429.65	28.35	28.79	401.30	400.86	0.44	401.20
	08/03/04	429.65	28.55	28.98	401.10	400.67	0.43	401.00
	08/11/04	429.65	28.88	29.49	400.77	400.16	0.61	400.63
	08/19/04	429.65	29.61	30.06	400.04	399.59	0.45	399.94
	08/27/04	429.65	29.91	30.38	399.74	399.27	0.47	399.63
	09/03/04	429.65	28.87	29.35	400.78	400.30	0.48	400.67
	09/20/04	429.65	30.26	30.74	399.39	398.91	0.48	399.28
HMW-03	01/27/04	428.72	NA	28.61	NA	400.11	0.00	400.11
	03/09/04	428.72	NA	29.43	NA	399.29	0.00	399.29

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-03	03/15/04	428.72	NA	28.03	NA	400.69	0.00	400.69
	04/20/04	428.72	NA	26.60	NA	402.12	0.00	402.12
	06/03/04	428.72	NA	24.98	NA	403.74	0.00	403.74
	06/10/04	428.72	NA	23.68	NA	405.04	0.00	405.04
	06/23/04	428.72	NA	22.95	NA	405.77	0.00	405.77
	06/30/04	428.72	NA	22.67	NA	406.05	0.00	406.05
	07/08/04	428.72	NA	23.23	NA	405.49	0.00	405.49
	07/14/04	428.72	NA	23.60	NA	405.12	0.00	405.12
	07/20/04	428.72	NA	23.97	NA	404.75	0.00	404.75
	07/28/04	428.72	NA	24.97	NA	403.75	0.00	403.75
	08/03/04	428.72	NA	25.24	NA	403.48	0.00	403.48
	08/11/04	428.72	NA	25.56	NA	403.16	0.00	403.16
	08/19/04	428.72	NA	26.06	NA	402.66	0.00	402.66
	08/27/04	428.72	NA	26.85	NA	401.87	0.00	401.87
	09/03/04	428.72	NA	26.56	NA	402.16	0.00	402.16
	09/20/04	428.72	NA	27.52	NA	401.20	0.00	401.20
HMW-04	01/27/04	428.96	10.93	10.94	418.03	418.02	0.01	418.03
	03/09/04	428.96	NA	11.20	NA	417.76	0.00	417.76
	03/15/04	428.96	NA	11.00	NA	417.96	0.00	417.96
	04/20/04	428.96	NA	12.01	NA	416.95	0.00	416.95
	06/03/04	428.96	NA	7.57	NA	421.39	0.00	421.39
	06/10/04	428.96	NA	8.15	NA	420.81	0.00	420.81
	06/17/04	428.96	NA	8.73	NA	420.23	0.00	420.23
	06/23/04	428.96	NA	6.84	NA	422.12	0.00	422.12
	06/30/04	428.96	NA	8.03	NA	420.93	0.00	420.93

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-04	07/08/04	428.96	NA	8.06	NA	420.90	0.00	420.90
	07/14/04	428.96	NA	8.84	NA	420.12	0.00	420.12
	07/20/04	428.96	NA	9.97	NA	418.99	0.00	418.99
	07/28/04	428.96	NA	11.31	NA	417.65	0.00	417.65
	08/03/04	428.96	NA	10.87	NA	418.09	0.00	418.09
	08/11/04	428.96	NA	11.19	NA	417.77	0.00	417.77
	08/19/04	428.96	NA	12.28	NA	416.68	0.00	416.68
	08/25/04	428.96	NA	12.59	NA	416.37	0.00	416.37
	09/03/04	428.96	NA	12.82	NA	416.14	0.00	416.14
	09/20/04	428.96	NA	14.99	NA	413.97	0.00	413.97
HMW-07[4]	01/27/04	429.12	NA	24.76	NA	404.36	0.00	404.36
	02/17/04	429.12	NA	24.94	NA	404.18	0.00	404.18
	02/19/04	429.12	NA	24.86	NA	404.26	0.00	404.26
	03/15/04	429.12	NA	24.68	NA	404.44	0.00	404.44
	04/20/04	429.12	NA	24.49	NA	404.63	0.00	404.63
	05/27/04	429.12	NA	24.01	NA	405.11	0.00	405.11
	06/03/04	429.12	NA	23.53	NA	405.59	0.00	405.59
	06/10/04	429.12	NA	23.18	NA	405.94	0.00	405.94
	06/17/04	429.12	NA	22.70	NA	406.42	0.00	406.42
	06/23/04	429.12	NA	22.26	NA	406.86	0.00	406.86
	06/30/04	429.12	NA	22.31	NA	406.81	0.00	406.81
	07/08/04	429.12	NA	22.40	NA	406.72	0.00	406.72
	07/14/04	429.12	NA	22.60	NA	406.52	0.00	406.52
	07/20/04	429.12	NA	23.07	NA	406.05	0.00	406.05
	07/28/04	429.12	NA	23.63	NA	405.49	0.00	405.49

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-07[4]	08/03/04	429.12	NA	23.51	NA	405.61	0.00	405.61
	08/11/04	429.12	NA	23.79	NA	405.33	0.00	405.33
	08/19/04	429.12	NA	24.07	NA	405.05	0.00	405.05
	08/25/04	429.12	24.21	24.22	404.91	404.90	0.01	404.91
	09/03/04	429.12	NA	24.18	NA	404.94	0.00	404.94
	09/20/04	429.12	NA	24.49	NA	404.63	0.00	404.63
HMW-08[4]	01/27/04	429.74	32.85	34.15	396.89	395.59	1.30	396.59
	02/19/04	429.74	33.21	35.71	396.53	394.03	2.50	395.96
	03/04/04	429.74	32.85	34.41	396.89	395.33	1.56	396.53
	03/05/04	429.74	33.01	34.30	396.73	395.44	1.29	396.43
	03/08/04	429.74	32.20	33.27	397.54	396.47	1.07	397.29
	03/09/04	429.74	32.10	33.01	397.64	396.73	0.91	397.43
	03/15/04	429.74	31.12	32.72	398.62	397.02	1.60	398.25
	04/20/04	429.74	30.43	32.86	399.31	396.88	2.43	398.75
	05/19/04	429.74	30.95	32.75	398.79	396.99	1.80	398.38
	05/20/04	429.74	30.93	32.64	398.81	397.10	1.71	398.42
	05/20/04	429.74	30.90	32.62	398.84	397.12	1.72	398.44
	05/20/04	429.74	30.84	32.66	398.90	397.08	1.82	398.48
	05/20/04	429.74	30.84	32.65	398.90	397.09	1.81	398.48
	05/21/04	429.74	30.79	32.53	398.95	397.21	1.74	398.55
	05/21/04	429.74	30.75	32.49	398.99	397.25	1.74	398.59
	05/21/04	429.74	30.74	32.49	399.00	397.25	1.75	398.60
	05/21/04	429.74	30.67	32.54	399.07	397.20	1.87	398.64
	05/24/04	429.74	30.29	32.40	399.45	397.34	2.11	398.96
	05/24/04	429.74	30.19	32.30	399.55	397.44	2.11	399.06

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-08[4]	05/24/04	429.74	30.13	32.23	399.61	397.51	2.10	399.13
	05/25/04	429.74	30.18	32.29	399.56	397.45	2.11	399.07
	05/25/04	429.74	30.17	32.26	399.57	397.48	2.09	399.09
	05/25/04	429.74	30.15	32.24	399.59	397.50	2.09	399.11
	05/25/04	429.74	30.16	32.24	399.58	397.50	2.08	399.10
	05/26/04	429.74	30.14	32.23	399.60	397.51	2.09	399.12
	05/26/04	429.74	29.87	31.96	399.87	397.78	2.09	399.39
	05/27/04	429.74	29.61	31.73	400.13	398.01	2.12	399.64
	05/27/04	429.74	29.44	31.55	400.30	398.19	2.11	399.81
	05/28/04	429.74	29.28	31.39	400.46	398.35	2.11	399.97
	06/01/04	429.74	28.03	30.14	401.71	399.60	2.11	401.22
	06/01/04	429.74	28.06	30.16	401.68	399.58	2.10	401.20
	06/02/04	429.74	28.12	30.23	401.62	399.51	2.11	401.13
	06/02/04	429.74	28.07	30.18	401.67	399.56	2.11	401.18
	06/03/04	429.74	28.02	30.13	401.72	399.61	2.11	401.23
	06/03/04	429.74	27.83	29.94	401.91	399.80	2.11	401.42
	06/04/04	429.74	27.63	29.74	402.11	400.00	2.11	401.62
	06/10/04	429.74	26.90	29.00	402.84	400.74	2.10	402.36
	06/17/04	429.74	26.72	28.80	403.02	400.94	2.08	402.54
	06/23/04	429.74	26.07	28.14	403.67	401.60	2.07	403.19
	06/30/04	429.74	25.98	28.01	403.76	401.73	2.03	403.29
	07/08/04	429.74	27.19	29.25	402.55	400.49	2.06	402.08
	07/14/04	429.74	26.76	32.55	402.98	397.19	5.79	401.65
	07/20/04	429.74	27.05	32.64	402.69	397.10	5.59	401.40
	07/28/04	429.74	27.98	32.66	401.76	397.08	4.68	400.68

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-08[4]	08/03/04	429.74	28.25	32.75	401.49	396.99	4.50	400.46
	08/11/04	429.74	28.77	32.67	400.97	397.07	3.90	400.07
	08/19/04	429.74	29.80	32.95	399.94	396.79	3.15	399.22
	08/25/04	429.74	30.17	32.96	399.57	396.78	2.79	398.93
	09/03/04	429.74	28.82	31.78	400.92	397.96	2.96	400.24
	09/20/04	429.74	30.54	33.05	399.20	396.69	2.51	398.62
HMW-09	01/27/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	02/03/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	02/16/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	02/19/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	02/24/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	03/08/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	03/15/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	04/20/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	05/27/04	430.23	NA	23.18	NA	407.05	0.00	407.05
	06/03/04	430.23	NA	23.19	NA	407.04	0.00	407.04
	06/10/04	430.23	NA	23.18	NA	407.05	0.00	407.05
	06/17/04	430.23	NA	23.17	NA	407.06	0.00	407.06
	06/23/04	430.23	NA	23.18	NA	407.05	0.00	407.05
	06/30/04	430.23	NA	23.18	NA	407.05	0.00	407.05
	07/09/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	07/14/04	430.23	NA	23.19	NA	407.04	0.00	407.04
	07/20/04	430.23	NA	23.18	NA	407.05	0.00	407.05
	07/28/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	08/03/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-09	08/11/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	08/19/04	430.23	DRY	DRY	DRY	DRY	DRY	DRY
	08/25/04	430.23	NA	23.16	NA	407.07	0.00	407.07
	09/03/04	430.23	NA	DRY	DRY	DRY	DRY	DRY
HMW-10	01/27/04	430.20	32.57	34.17	397.63	396.03	1.60	397.26
	02/03/04	430.20	32.78	34.68	397.42	395.52	1.90	396.98
	02/16/04	430.20	33.11	35.18	397.09	395.02	2.07	396.61
	02/17/04	430.20	33.13	35.26	397.07	394.94	2.13	396.58
	02/18/04	430.20	33.11	35.17	397.09	395.03	2.06	396.62
	02/19/04	430.20	33.00	35.03	397.20	395.17	2.03	396.73
	02/24/04	430.20	32.16	35.24	398.04	394.96	3.08	397.33
	02/27/04	430.20	33.05	34.86	397.15	395.34	1.81	396.73
	03/01/04	430.20	32.88	34.21	397.32	395.99	1.33	397.01
	03/02/04	430.20	33.05	34.61	397.15	395.59	1.56	396.79
	03/03/04	430.20	33.03	34.52	397.17	395.68	1.49	396.83
	03/04/04	430.20	32.80	33.91	397.40	396.29	1.11	397.14
	03/05/04	430.20	32.78	33.93	397.42	396.27	1.15	397.16
	03/08/04	430.20	32.42	33.37	397.78	396.83	0.95	397.56
	03/09/04	430.20	32.30	33.23	397.90	396.97	0.93	397.69
	03/15/04	430.20	31.52	32.10	398.68	398.10	0.58	398.55
	03/16/04	430.20	31.41	32.07	398.79	398.13	0.66	398.64
	03/17/04	430.20	31.40	32.07	398.80	398.13	0.67	398.65
	03/18/04	430.20	31.42	32.14	398.78	398.06	0.72	398.61
	03/19/04	430.20	31.51	32.18	398.69	398.02	0.67	398.54
	03/23/04	430.20	31.34	32.08	398.86	398.12	0.74	398.69

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-10	03/24/04	430.20	31.32	32.14	398.88	398.06	0.82	398.69
	03/30/04	430.20	31.09	31.75	399.11	398.45	0.66	398.96
	03/31/04	430.20	31.01	31.74	399.19	398.46	0.73	399.02
	04/01/04	430.20	30.84	31.59	399.36	398.61	0.75	399.19
	04/20/04	430.20	30.47	31.76	399.73	398.44	1.29	399.43
	05/27/04	430.20	30.09	30.79	400.11	399.41	0.70	399.95
	06/03/04	430.20	28.27	31.13	401.93	399.07	2.86	401.27
	06/10/04	430.20	26.73	31.07	403.47	399.13	4.34	402.47
	06/17/04	430.20	26.58	31.03	403.62	399.17	4.45	402.60
	06/23/04	430.20	25.63	31.02	404.57	399.18	5.39	403.33
	06/30/04	430.20	25.42	31.03	404.78	399.17	5.61	403.49
	07/08/04	430.20	26.77	31.85	403.43	398.35	5.08	402.26
	07/14/04	430.20	27.18	31.16	403.02	399.04	3.98	402.10
	07/20/04	430.20	27.53	30.86	402.67	399.34	3.33	401.90
	07/28/04	430.20	28.39	31.06	401.81	399.14	2.67	401.20
	08/03/04	430.20	28.72	31.01	401.48	399.19	2.29	400.95
	08/11/04	430.20	29.08	31.13	401.12	399.07	2.05	400.65
	08/19/04	430.20	29.97	31.39	400.23	398.81	1.42	399.90
	08/25/04	430.20	30.34	31.55	399.86	398.65	1.21	399.58
	09/03/04	430.20	29.14	30.90	401.06	399.30	1.76	400.66
	09/20/04	430.20	30.67	31.86	399.53	398.34	1.19	399.26
HMW-13	01/27/04	430.81	NA	18.67	NA	412.14	0.00	412.14
	02/03/04	430.81	NA	18.69	NA	412.12	0.00	412.12
	02/16/04	430.81	NA	18.68	NA	412.13	0.00	412.13
	02/19/04	430.81	NA	18.71	NA	412.10	0.00	412.10

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-13	03/15/04	430.81	NA	18.71	NA	412.10	0.00	412.10
	04/20/04	430.81	NA	18.70	NA	412.11	0.00	412.11
	05/27/04	431.81	NA	18.67	NA	413.14	0.00	413.14
	06/03/04	431.81	NA	18.67	NA	413.14	0.00	413.14
	06/10/04	431.81	NA	18.67	NA	413.14	0.00	413.14
	06/17/04	431.81	NA	18.71	NA	413.10	0.00	413.10
	06/23/04	431.81	NA	18.71	NA	413.10	0.00	413.10
	06/30/04	431.81	NA	18.72	NA	413.09	0.00	413.09
	07/08/04	431.81	NA	18.69	NA	413.12	0.00	413.12
	07/14/04	431.81	NA	18.68	NA	413.13	0.00	413.13
	07/20/04	431.81	NA	18.69	NA	413.12	0.00	413.12
	07/28/04	431.81	NA	18.68	NA	413.13	0.00	413.13
	08/03/04	431.81	NA	18.70	NA	413.11	0.00	413.11
	08/11/04	431.81	NA	18.67	NA	413.14	0.00	413.14
	08/19/04	431.81	NA	18.67	NA	413.14	0.00	413.14
	08/27/04	431.81	NA	18.69	NA	413.12	0.00	413.12
	09/03/04	431.81	NA	DRY	DRY	DRY	DRY	DRY
	09/21/04	431.81	NA	18.68	NA	413.13	0.00	413.13
HMW-14	01/27/04	430.86	33.63	34.96	397.23	395.90	1.33	396.92
	02/03/04	430.86	33.80	35.70	397.06	395.16	1.90	396.62
	02/16/04	430.86	34.21	36.02	396.65	394.84	1.81	396.23
	02/19/04	430.86	34.11	36.00	396.75	394.86	1.89	396.32
	03/04/04	430.86	33.75	34.75	397.11	396.11	1.00	396.88
	03/08/04	430.86	33.35	33.49	397.51	397.37	0.14	397.48
	03/15/04	430.86	32.18	32.42	398.68	398.44	0.24	398.62

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-14	03/18/04	430.86	32.12	32.58	398.74	398.28	0.46	398.63
	03/19/04	430.86	32.21	32.72	398.65	398.14	0.51	398.53
	03/30/04	430.86	31.81	32.20	399.05	398.66	0.39	398.96
	03/31/04	430.86	31.55	31.94	399.31	398.92	0.39	399.22
	04/20/04	430.86	31.43	32.44	399.43	398.42	1.01	399.20
	05/27/04	430.86	NA	30.89	NA	399.97	0.00	399.97
	06/03/04	430.86	29.04	30.09	401.82	400.77	1.05	401.58
	06/10/04	430.86	28.18	28.20	402.68	402.66	0.02	402.68
	06/17/04	430.86	27.86	28.47	403.00	402.39	0.61	402.86
	06/23/04	430.86	26.84	28.68	404.02	402.18	1.84	403.60
	06/30/04	430.86	26.75	28.58	404.11	402.28	1.83	403.69
	07/08/04	430.86	27.91	29.50	402.95	401.36	1.59	402.58
	07/14/04	430.86	28.35	29.79	402.51	401.07	1.44	402.18
	07/20/04	430.86	28.66	30.18	402.20	400.68	1.52	401.85
	07/28/04	430.86	29.58	30.44	401.28	400.42	0.86	401.08
	08/03/04	430.86	29.78	30.77	401.08	400.09	0.99	400.85
	08/11/04	430.86	30.10	31.14	400.76	399.72	1.04	400.52
	08/19/04	430.86	30.88	32.01	399.98	398.85	1.13	399.72
	08/27/04	430.86	31.29	31.71	399.57	399.15	0.42	399.47
	09/03/04	430.86	30.21	30.37	400.65	400.49	0.16	400.61
	09/21/04	430.86	31.82	32.25	399.04	398.61	0.43	398.94
HMW-18	01/27/04	431.58	34.55	36.12	397.03	395.46	1.57	396.67
	03/15/04	431.58	33.11	34.04	398.47	397.54	0.93	398.26
	04/21/04	431.58	32.61	33.06	398.97	398.52	0.45	398.87
	05/27/04	431.58	31.73	32.56	399.85	399.02	0.83	399.66

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-18	06/03/04	431.58	29.88	30.94	401.70	400.64	1.06	401.46
	06/10/04	431.58	28.33	30.30	403.25	401.28	1.97	402.80
	06/17/04	431.58	27.97	30.46	403.61	401.12	2.49	403.04
	06/23/04	431.58	27.00	29.58	404.58	402.00	2.58	403.99
	06/30/04	431.58	26.89	30.24	404.69	401.34	3.35	403.92
	07/09/04	431.58	28.34	31.54	403.24	400.04	3.20	402.50
	07/14/04	431.58	28.75	31.44	402.83	400.14	2.69	402.21
	07/20/04	431.58	29.13	31.65	402.45	399.93	2.52	401.87
	07/28/04	431.58	29.98	31.84	401.60	399.74	1.86	401.17
	08/03/04	431.58	30.36	32.17	401.22	399.41	1.81	400.80
	08/11/04	431.58	30.70	32.44	400.88	399.14	1.74	400.48
	08/19/04	431.58	31.59	33.00	399.99	398.58	1.41	399.67
	08/26/04	431.58	31.98	33.01	399.60	398.57	1.03	399.36
	09/03/04	431.58	30.88	31.89	400.70	399.69	1.01	400.47
	09/21/04	431.58	32.57	33.17	399.01	398.41	0.60	398.87
HMW-19	01/27/04	431.80	34.90	35.72	396.90	396.08	0.82	396.71
	03/15/04	431.80	33.08	33.09	398.72	398.71	0.01	398.72
	04/21/04	431.80	32.29	33.29	399.51	398.51	1.00	399.28
	05/27/04	431.80	31.72	32.13	400.08	399.67	0.41	399.99
	06/03/04	431.80	30.31	32.45	401.49	399.35	2.14	401.00
	06/10/04	431.80	27.99	30.87	403.81	400.93	2.88	403.15
	06/17/04	431.80	28.10	29.41	403.70	402.39	1.31	403.40
	06/23/04	431.80	27.59	28.08	404.21	403.72	0.49	404.10
	06/30/04	431.80	27.49	28.09	404.31	403.71	0.60	404.17
	07/09/04	431.80	28.12	31.32	403.68	400.48	3.20	402.94

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-19	07/14/04	431.80	28.58	31.30	403.22	400.50	2.72	402.59
	07/20/04	431.80	29.03	31.33	402.77	400.47	2.30	402.24
	07/28/04	431.80	29.98	31.38	401.82	400.42	1.40	401.50
	08/03/04	431.80	30.44	31.49	401.36	400.31	1.05	401.12
	08/11/04	431.80	30.83	31.58	400.97	400.22	0.75	400.80
	08/19/04	431.80	31.75	32.09	400.05	399.71	0.34	399.97
	08/26/04	431.80	32.14	32.44	399.66	399.36	0.30	399.59
	09/03/04	431.80	30.80	31.58	401.00	400.22	0.78	400.82
	09/21/04	431.80	32.49	33.09	399.31	398.71	0.60	399.17
HMW-20	01/27/04	430.65	32.91	33.86	397.74	396.79	0.95	397.52
	03/15/04	430.65	31.24	32.88	399.41	397.77	1.64	399.03
	04/21/04	430.65	30.00	33.31	400.65	397.34	3.31	399.89
	05/27/04	430.65	29.53	32.75	401.12	397.90	3.22	400.38
	06/03/04	430.65	27.51	32.97	403.14	397.68	5.46	401.88
	06/10/04	430.65	26.42	32.91	404.23	397.74	6.49	402.74
	06/17/04	430.65	26.24	32.87	404.41	397.78	6.63	402.89
	06/23/04	430.65	25.21	31.91	405.44	398.74	6.70	403.90
	06/30/04	430.65	24.91	32.75	405.74	397.90	7.84	403.94
	07/08/04	430.65	25.93	32.73	404.72	397.92	6.80	403.16
	07/14/04	430.65	26.50	32.70	404.15	397.95	6.20	402.72
	07/20/04	430.65	26.87	32.67	403.78	397.98	5.80	402.45
	07/28/04	430.65	27.75	32.60	402.90	398.05	4.85	401.78
	08/03/04	430.65	27.99	32.67	402.66	397.98	4.68	401.58
	08/11/04	430.65	28.45	32.65	402.20	398.00	4.20	401.23
	08/19/04	430.65	29.36	32.66	401.29	397.99	3.30	400.53

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-20	08/25/04	430.65	29.68	32.65	400.97	398.00	2.97	400.29
	09/03/04	430.65	28.82	32.53	401.83	398.12	3.71	400.98
	09/21/04	430.65	30.44	32.60	400.21	398.05	2.16	399.71
HMW-21[4]	01/27/04	430.05	NA	21.93	NA	408.12	0.00	408.12
	02/17/04	430.05	NA	22.06	NA	407.99	0.00	407.99
	02/19/04	430.05	NA	22.00	NA	408.05	0.00	408.05
	03/15/04	430.05	NA	21.70	NA	408.35	0.00	408.35
	04/20/04	430.05	NA	21.42	NA	408.63	0.00	408.63
	05/27/04	430.05	NA	20.35	NA	409.70	0.00	409.70
	06/03/04	430.05	NA	19.76	NA	410.29	0.00	410.29
	06/10/04	430.05	NA	19.81	NA	410.24	0.00	410.24
	06/17/04	430.05	NA	19.66	NA	410.39	0.00	410.39
	06/23/04	430.05	NA	18.68	NA	411.37	0.00	411.37
	06/30/04	430.05	NA	19.15	NA	410.90	0.00	410.90
	07/09/04	430.05	NA	18.90	NA	411.15	0.00	411.15
	07/14/04	430.05	NA	19.38	NA	410.67	0.00	410.67
	07/20/04	430.05	NA	19.74	NA	410.31	0.00	410.31
	07/28/04	430.05	NA	20.19	NA	409.86	0.00	409.86
	08/03/04	430.05	NA	19.75	NA	410.30	0.00	410.30
	08/11/04	430.05	NA	20.24	NA	409.81	0.00	409.81
	08/19/04	430.05	NA	20.59	NA	409.46	0.00	409.46
	08/27/04	430.05	NA	20.78	NA	409.27	0.00	409.27
	09/03/04	430.05	NA	20.87	NA	409.18	0.00	409.18
	09/21/04	430.05	NA	21.41	NA	408.64	0.00	408.64

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-22[4]	01/27/04	430.15	33.20	35.00	396.95	395.15	1.80	396.54
	02/17/04	430.15	33.70	36.42	396.45	393.73	2.72	395.82
	02/18/04	430.15	33.70	36.36	396.45	393.79	2.66	395.84
	02/19/04	430.15	33.51	36.24	396.64	393.91	2.73	396.01
	03/05/04	430.15	33.38	34.92	396.77	395.23	1.54	396.42
	03/08/04	430.15	32.64	33.48	397.51	396.67	0.84	397.32
	03/09/04	430.15	32.54	33.26	397.61	396.89	0.72	397.44
	03/15/04	430.15	31.59	32.74	398.56	397.41	1.15	398.30
	04/20/04	430.15	31.25	31.42	398.90	398.73	0.17	398.86
	05/20/04	430.15	31.47	32.30	398.68	397.85	0.83	398.49
	05/20/04	430.15	31.29	32.71	398.86	397.44	1.42	398.53
	05/21/04	430.15	31.22	32.65	398.93	397.50	1.43	398.60
	05/21/04	430.15	31.10	32.64	399.05	397.51	1.54	398.70
	05/24/04	430.15	30.71	32.59	399.44	397.56	1.88	399.01
	05/24/04	430.15	30.52	32.59	399.63	397.56	2.07	399.15
	05/25/04	430.15	30.56	32.57	399.59	397.58	2.01	399.13
	05/25/04	430.15	30.47	32.56	399.68	397.59	2.09	399.20
	05/26/04	430.15	30.42	32.54	399.73	397.61	2.12	399.24
	05/26/04	430.15	30.21	32.49	399.94	397.66	2.28	399.42
	05/27/04	430.15	29.88	32.51	400.27	397.64	2.63	399.67
	05/27/04	430.15	29.68	32.54	400.47	397.61	2.86	399.81
	05/28/04	430.15	29.52	32.48	400.63	397.67	2.96	399.95
	06/01/04	430.15	27.93	32.44	402.22	397.71	4.51	401.18
	06/02/04	430.15	28.02	32.44	402.13	397.71	4.42	401.11
	06/02/04	430.15	27.94	32.44	402.21	397.71	4.50	401.18

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-22[4]	06/03/04	430.15	27.90	32.41	402.25	397.74	4.51	401.21
	06/03/04	430.15	27.66	32.41	402.49	397.74	4.75	401.40
	06/04/04	430.15	27.41	32.40	402.74	397.75	4.99	401.59
	06/10/04	430.15	26.43	32.39	403.72	397.76	5.96	402.35
	06/17/04	430.15	26.39	32.71	403.76	397.44	6.32	402.31
	06/23/04	430.15	25.44	32.05	404.71	398.10	6.61	403.19
	06/30/04	430.15	25.31	32.01	404.84	398.14	6.70	403.30
	**07/09/04	430.15	28.10	28.15	402.05	402.00	0.05	402.04
	07/14/04	430.15	27.24	32.55	402.91	397.60	5.31	401.69
	07/20/04	430.15	28.38	29.56	401.77	400.59	1.18	401.50
	07/28/04	430.15	28.59	32.16	401.56	397.99	3.57	400.74
	08/03/04	430.15	28.64	32.56	401.51	397.59	3.92	400.61
	08/11/04	430.15	29.91	30.14	400.24	400.01	0.23	400.19
	08/19/04	430.15	30.86	30.87	399.29	399.28	0.01	399.29
	08/27/04	430.15	30.50	32.59	399.65	397.56	2.09	399.17
	09/03/04	430.15	29.00	32.23	401.15	397.92	3.23	400.41
	09/21/04	430.15	NA	31.57	NA	398.58	0.00	398.58
HMW-25	01/27/04	427.45	NA	29.96	NA	397.49	0.00	397.49
	03/15/04	427.45	NA	27.31	NA	400.14	0.00	400.14
	04/21/04	427.45	NA	27.34	NA	400.11	0.00	400.11
	05/27/04	427.45	NA	25.93	NA	401.52	0.00	401.52
	06/03/04	427.45	NA	23.70	NA	403.75	0.00	403.75
	06/10/04	427.45	NA	22.52	NA	404.93	0.00	404.93
	06/17/04	427.45	NA	22.26	NA	405.19	0.00	405.19
	06/23/04	427.45	NA	21.41	NA	406.04	0.00	406.04

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-25	06/30/04	427.45	NA	21.51	NA	405.94	0.00	405.94
	07/09/04	427.45	NA	23.03	NA	404.42	0.00	404.42
	07/14/04	427.45	NA	23.62	NA	403.83	0.00	403.83
	07/20/04	427.45	NA	24.00	NA	403.45	0.00	403.45
	07/28/04	427.45	NA	24.96	NA	402.49	0.00	402.49
	08/03/04	427.45	NA	25.47	NA	401.98	0.00	401.98
	08/11/04	427.45	NA	25.90	NA	401.55	0.00	401.55
	08/17/04	427.45	NA	26.65	NA	400.80	0.00	400.80
	08/26/04	427.45	NA	27.33	NA	400.12	0.00	400.12
	09/03/04	427.45	NA	25.60	NA	401.85	0.00	401.85
	09/21/04	427.45	NA	27.77	NA	399.68	0.00	399.68
HMW-26	01/27/04	425.20	NA	27.15	NA	398.05	0.00	398.05
	03/15/04	425.20	NA	26.03	NA	399.17	0.00	399.17
	04/21/04	425.20	NA	24.64	NA	400.56	0.00	400.56
	05/27/04	425.20	NA	24.31	NA	400.89	0.00	400.89
	06/03/04	425.20	NA	23.13	NA	402.07	0.00	402.07
	06/10/04	425.20	NA	21.87	NA	403.33	0.00	403.33
	06/17/04	425.20	NA	21.33	NA	403.87	0.00	403.87
	06/23/04	425.20	NA	20.61	NA	404.59	0.00	404.59
	06/30/04	425.20	NA	20.24	NA	404.96	0.00	404.96
	07/09/04	425.20	NA	20.79	NA	404.41	0.00	404.41
	** 7/14/04	425.20	NA	24.15	NA	401.05	0.00	401.05
	07/20/04	425.20	NA	21.41	NA	403.79	0.00	403.79
	07/28/04	425.20	NA	22.05	NA	403.15	0.00	403.15
	08/03/04	425.20	NA	22.45	NA	402.75	0.00	402.75

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-26	08/11/04	425.20	NA	22.90	NA	402.30	0.00	402.30
	08/17/04	425.20	NA	25.29	NA	399.91	0.00	399.91
	08/26/04	425.20	NA	24.06	NA	401.14	0.00	401.14
	09/03/04	425.20	NA	23.45	NA	401.75	0.00	401.75
	09/21/04	425.20	NA	24.59	NA	400.61	0.00	400.61
HMW-27	01/27/04	430.75	NA	32.21	NA	398.54	0.00	398.54
	03/15/04[4]	430.75	NA	31.38	NA	399.37	0.00	399.37
	04/22/04[4]	430.75	NA	29.90	NA	400.85	0.00	400.85
	05/27/04[4]	430.75	NA	29.57	NA	401.18	0.00	401.18
	06/03/04[4]	430.75	NA	28.71	NA	402.04	0.00	402.04
	06/10/04[4]	430.75	NA	27.76	NA	402.99	0.00	402.99
	06/17/04[4]	430.75	NA	27.04	NA	403.71	0.00	403.71
	06/23/04[4]	430.75	NA	26.21	NA	404.54	0.00	404.54
	06/30/04[4]	430.75	NA	25.64	NA	405.11	0.00	405.11
	07/09/04	430.75	NA	25.99	NA	404.76	0.00	404.76
	07/14/04	430.75	NA	26.37	NA	404.38	0.00	404.38
	07/20/04[5]	430.75	NA	26.73	NA	404.02	0.00	404.02
	07/28/04[5]	430.75	NA	27.26	NA	403.49	0.00	403.49
	08/03/04[5]	430.75	NA	27.65	NA	403.10	0.00	403.10
	08/11/04[5]	430.75	NA	28.10	NA	402.65	0.00	402.65
	08/17/04[5]	430.75	NA	28.40	NA	402.35	0.00	402.35
	08/25/04[5]	430.75	NA	29.09	NA	401.66	0.00	401.66

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-27	09/03/04[5]	430.75	NA	28.92	NA	401.83	0.00	401.83
	09/21/04[5]	430.75	NA	29.74	NA	401.01	0.00	401.01
HMW-28	01/27/04	430.97	NA	32.05	NA	398.92	0.00	398.92
	02/17/04	430.97	--	--	--	--	--	--
	03/15/04	430.97	NA	30.58	NA	400.39	0.00	400.39
	04/21/04	430.97	NA	29.69	NA	401.28	0.00	401.28
	05/27/04	430.97	NA	29.31	NA	401.66	0.00	401.66
	06/03/04	430.97	NA	28.86	NA	402.11	0.00	402.11
	06/10/04	430.97	NA	26.77	NA	404.20	0.00	404.20
	06/17/04	430.97	NA	26.35	NA	404.62	0.00	404.62
	06/23/04	430.97	NA	25.60	NA	405.37	0.00	405.37
	06/30/04	430.97	NA	25.28	NA	405.69	0.00	405.69
	07/08/04	430.97	NA	25.91	NA	405.06	0.00	405.06
	07/14/04	430.97	NA	26.42	NA	404.55	0.00	404.55
	07/20/04	430.97	NA	26.72	NA	404.25	0.00	404.25
	07/28/04	430.97	NA	27.39	NA	403.58	0.00	403.58
	08/03/04	430.97	NA	27.81	NA	403.16	0.00	403.16
	08/11/04	430.97	NA	28.24	NA	402.73	0.00	402.73
	08/17/04	430.97	NA	28.68	NA	402.29	0.00	402.29
	08/26/04	430.97	NA	29.46	NA	401.51	0.00	401.51
	09/03/04	430.97	NA	28.69	NA	402.28	0.00	402.28
	09/21/04	430.97	NA	29.93	NA	401.04	0.00	401.04
HMW-29	01/27/04	429.99	NA	30.64	NA	399.35	0.00	399.35
	03/15/04	429.99	NA	30.12	NA	399.87	0.00	399.87
	04/21/04	429.99	NA	28.70	NA	401.29	0.00	401.29

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-29	05/27/04	429.99	NA	28.34	NA	401.65	0.00	401.65
	06/03/04	429.99	NA	27.93	NA	402.06	0.00	402.06
	06/10/04	429.99	NA	26.75	NA	403.24	0.00	403.24
	06/17/04	429.99	NA	26.22	NA	403.77	0.00	403.77
	06/23/04	429.99	NA	25.46	NA	404.53	0.00	404.53
	06/30/04	429.99	NA	24.88	NA	405.11	0.00	405.11
	07/08/04	429.99	NA	25.15	NA	404.84	0.00	404.84
	07/14/04	429.99	NA	25.54	NA	404.45	0.00	404.45
	07/20/04	429.99	NA	25.73	NA	404.26	0.00	404.26
	07/28/04	429.99	NA	26.25	NA	403.74	0.00	403.74
	08/03/04	429.99	NA	26.54	NA	403.45	0.00	403.45
	08/11/04	429.99	NA	26.93	NA	403.06	0.00	403.06
	08/17/04	429.99	NA	27.11	NA	402.88	0.00	402.88
	08/26/04	429.99	NA	27.83	NA	402.16	0.00	402.16
	09/03/04	429.99	NA	27.61	NA	402.38	0.00	402.38
	09/21/04	429.99	NA	28.30	NA	401.69	0.00	401.69
HMW-30[4]	04/20/04	430.07	NA	31.29	NA	398.78	0.00	398.78
	05/20/04	430.07	NA	31.54	NA	398.53	0.00	398.53
	05/20/04	430.07	NA	31.55	NA	398.52	0.00	398.52
	05/21/04	430.07	NA	31.48	NA	398.59	0.00	398.59
	05/21/04	430.07	NA	31.39	NA	398.68	0.00	398.68
	05/24/04	430.07	NA	31.08	NA	398.99	0.00	398.99
	05/24/04	430.07	NA	30.92	NA	399.15	0.00	399.15
	05/25/04	430.07	NA	30.93	NA	399.14	0.00	399.14
	05/25/04	430.07	NA	30.86	NA	399.21	0.00	399.21

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-30[4]	05/26/04	430.07	NA	30.76	NA	399.31	0.00	399.31
	05/26/04	430.07	NA	30.63	NA	399.44	0.00	399.44
	05/27/04	430.07	NA	30.39	NA	399.68	0.00	399.68
	05/27/04	430.07	NA	30.21	NA	399.86	0.00	399.86
	05/28/04	430.07	NA	30.10	NA	399.97	0.00	399.97
	06/01/03	430.07	NA	28.87	NA	401.20	0.00	401.20
	06/02/04	430.07	NA	28.93	NA	401.14	0.00	401.14
	06/02/04	430.07	NA	28.89	NA	401.18	0.00	401.18
	06/03/04	430.07	NA	28.84	NA	401.23	0.00	401.23
	06/03/04	430.07	NA	28.67	NA	401.40	0.00	401.40
	06/04/04	430.07	NA	28.47	NA	401.60	0.00	401.60
	06/10/04	430.07	NA	27.72	NA	402.35	0.00	402.35
	06/17/04	430.07	NA	27.52	NA	402.55	0.00	402.55
	06/23/04	430.07	NA	27.87	NA	402.20	0.00	402.20
	06/30/04	430.07	NA	26.76	NA	403.31	0.00	403.31
	07/08/04	430.07	NA	27.95	NA	402.12	0.00	402.12
	07/14/04	430.07	NA	28.38	NA	401.69	0.00	401.69
	07/20/04	430.07	NA	28.63	NA	401.44	0.00	401.44
	07/28/04	430.07	NA	29.35	NA	400.72	0.00	400.72
	08/03/04	430.07	NA	29.56	NA	400.51	0.00	400.51
	08/11/04	430.07	NA	29.92	NA	400.15	0.00	400.15
	08/19/04	430.07	NA	30.80	NA	399.27	0.00	399.27
	08/27/04	430.07	30.92	30.98	399.15	399.09	0.06	399.14
	09/02/04	430.07	29.66	29.67	400.41	400.40	0.01	400.41
	09/21/04	430.07	31.48	31.55	398.59	398.52	0.07	398.57

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-31[4]	04/20/04	430.09	NA	31.27	NA	398.82	0.00	398.82
	05/20/04	430.09	NA	31.63	NA	398.46	0.00	398.46
	05/20/04	430.09	NA	31.57	NA	398.52	0.00	398.52
	05/21/04	430.09	NA	31.51	NA	398.58	0.00	398.58
	05/21/04	430.09	NA	31.42	NA	398.67	0.00	398.67
	05/24/04	430.09	NA	31.10	NA	398.99	0.00	398.99
	05/24/04	430.09	NA	30.95	NA	399.14	0.00	399.14
	05/25/04	430.09	NA	30.96	NA	399.13	0.00	399.13
	05/25/04	430.09	NA	30.88	NA	399.21	0.00	399.21
	05/26/04	430.09	NA	30.79	NA	399.30	0.00	399.30
	05/26/04	430.09	NA	30.67	NA	399.42	0.00	399.42
	05/27/04	430.09	NA	30.42	NA	399.67	0.00	399.67
	05/27/04	430.09	NA	30.24	NA	399.85	0.00	399.85
	05/28/04	430.09	NA	30.13	NA	399.96	0.00	399.96
	06/01/04	430.09	NA	28.92	NA	401.17	0.00	401.17
	06/02/04	430.09	NA	28.97	NA	401.12	0.00	401.12
	06/02/04	430.09	NA	28.93	NA	401.16	0.00	401.16
	06/03/04	430.09	NA	28.88	NA	401.21	0.00	401.21
	06/03/04	430.09	NA	28.72	NA	401.37	0.00	401.37
	06/04/04	430.09	NA	28.51	NA	401.58	0.00	401.58
	06/10/04	430.09	NA	27.77	NA	402.32	0.00	402.32
	06/17/04	430.09	NA	27.57	NA	402.52	0.00	402.52
	06/23/04	430.09	NA	26.92	NA	403.17	0.00	403.17
	06/30/04	430.09	NA	26.86	NA	403.23	0.00	403.23
	07/08/04	430.09	NA	27.98	NA	402.11	0.00	402.11

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-31[4]	07/14/04	430.09	NA	28.41	NA	401.68	0.00	401.68
	07/20/04	430.09	NA	28.66	NA	401.43	0.00	401.43
	07/28/04	430.09	NA	29.38	NA	400.71	0.00	400.71
	08/03/04	430.09	NA	29.58	NA	400.51	0.00	400.51
	08/11/04	430.09	NA	29.94	NA	400.15	0.00	400.15
	08/19/04	430.09	NA	30.83	NA	399.26	0.00	399.26
	08/27/04	430.09	NA	30.95	NA	399.14	0.00	399.14
	09/02/04	430.09	NA	29.70	NA	400.39	0.00	400.39
	09/21/04	430.09	NA	31.53	NA	398.56	0.00	398.56
HMW-32[4]	04/20/04	430.01	NA	31.11	NA	398.90	0.00	398.90
	05/20/04	430.01	NA	31.29	NA	398.72	0.00	398.72
	05/20/04	430.01	NA	31.30	NA	398.71	0.00	398.71
	05/20/04	430.01	NA	31.25	NA	398.76	0.00	398.76
	05/20/04	430.01	NA	31.24	NA	398.77	0.00	398.77
	05/20/04	430.01	NA	31.25	NA	398.76	0.00	398.76
	05/21/04	430.01	NA	31.19	NA	398.82	0.00	398.82
	05/21/04	430.01	NA	31.16	NA	398.85	0.00	398.85
	05/21/04	430.01	NA	31.15	NA	398.86	0.00	398.86
	05/21/04	430.01	NA	31.14	NA	398.87	0.00	398.87
	05/21/04	430.01	NA	31.10	NA	398.91	0.00	398.91
	05/24/04	430.01	NA	30.88	NA	399.13	0.00	399.13
	05/24/04	430.01	NA	30.79	NA	399.22	0.00	399.22
	05/24/04	430.01	NA	30.75	NA	399.26	0.00	399.26
	05/24/04	430.01	NA	30.72	NA	399.29	0.00	399.29
	05/25/04	430.01	NA	30.73	NA	399.28	0.00	399.28

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-32[4]	05/25/04	430.01	NA	30.73	NA	399.28	0.00	399.28
	05/25/04	430.01	NA	30.72	NA	399.29	0.00	399.29
	05/25/04	430.01	NA	30.70	NA	399.31	0.00	399.31
	05/26/04	430.01	NA	30.57	NA	399.44	0.00	399.44
	05/26/04	430.01	NA	30.44	NA	399.57	0.00	399.57
	05/27/04	430.01	NA	29.70	NA	400.31	0.00	400.31
	05/27/04	430.01	NA	29.65	NA	400.36	0.00	400.36
	05/27/04	430.01	NA	29.47	NA	400.54	0.00	400.54
	05/28/04	430.01	NA	29.49	NA	400.52	0.00	400.52
	05/28/04	430.01	NA	29.43	NA	400.58	0.00	400.58
	06/01/04	430.01	NA	27.98	NA	402.03	0.00	402.03
	06/01/04	430.01	27.99	28.00	402.02	402.01	0.01	402.02
	06/02/04	430.01	28.07	28.09	401.94	401.92	0.02	401.94
	06/02/04	430.01	28.09	28.12	401.92	401.89	0.03	401.91
	06/02/04	430.01	28.11	28.12	401.90	401.89	0.01	401.90
	06/03/04	430.01	NA	28.09	NA	401.92	0.00	401.92
	06/03/04	430.01	NA	28.05	NA	401.96	0.00	401.96
	06/03/04	430.01	NA	27.89	NA	402.12	0.00	402.12
	06/04/04	430.01	NA	27.68	NA	402.33	0.00	402.33
	06/04/04	430.01	NA	27.66	NA	402.35	0.00	402.35
	06/10/04	430.01	NA	26.82	NA	403.19	0.00	403.19
	06/17/04	430.01	NA	25.73	NA	404.28	0.00	404.28
	06/23/04	430.01	NA	25.09	NA	404.92	0.00	404.92
	06/30/04	430.01	NA	25.10	NA	404.91	0.00	404.91
	07/08/04	430.01	NA	26.06	NA	403.95	0.00	403.95

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-32[4]	07/14/04	430.01	NA	27.38	NA	402.63	0.00	402.63
	07/20/04	430.01	NA	27.50	NA	402.51	0.00	402.51
	07/28/04	430.01	NA	28.39	NA	401.62	0.00	401.62
	08/03/04	430.01	NA	29.55	NA	400.46	0.00	400.46
	08/11/04	430.01	NA	29.09	NA	400.92	0.00	400.92
	08/19/04	430.01	NA	30.10	NA	399.91	0.00	399.91
	08/27/04	430.01	NA	30.26	NA	399.75	0.00	399.75
	09/02/04	430.01	NA	28.91	NA	401.10	0.00	401.10
	09/21/04	430.01	NA	30.95	NA	399.06	0.00	399.06
HMW-33[4]	04/20/04	430.13	NA	31.27	NA	398.86	0.00	398.86
	05/20/04	430.13	31.40	32.60	398.73	397.53	1.20	398.45
	05/20/04	430.13	31.36	32.52	398.77	397.61	1.16	398.50
	05/20/04	430.13	31.31	32.48	398.82	397.65	1.17	398.55
	05/20/04	430.13	31.32	32.50	398.81	397.63	1.18	398.54
	05/21/04	430.13	31.27	32.41	398.86	397.72	1.14	398.60
	05/21/04	430.13	31.25	32.36	398.88	397.77	1.11	398.62
	05/21/04	430.13	31.24	32.35	398.89	397.78	1.11	398.63
	05/21/04	430.13	31.23	32.35	398.90	397.78	1.12	398.64
	05/21/04	430.13	31.21	32.23	398.92	397.90	1.02	398.69
	05/24/04	430.13	30.81	32.23	399.32	397.90	1.42	398.99
	05/24/04	430.13	30.72	32.16	399.41	397.97	1.44	399.08
	05/24/04	430.13	30.64	32.11	399.49	398.02	1.47	399.15
	05/25/04	430.13	30.62	32.25	399.51	397.88	1.63	399.14
	05/25/04	430.13	30.62	32.24	399.51	397.89	1.62	399.14
	05/25/04	430.13	30.62	32.23	399.51	397.90	1.61	399.14

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-33[4]	05/25/04	430.13	30.60	32.23	399.53	397.90	1.63	399.16
	05/26/04	430.13	30.47	32.18	399.66	397.95	1.71	399.27
	05/26/04	430.13	30.31	32.09	399.82	398.04	1.78	399.41
	05/27/04	430.13	30.02	31.99	400.11	398.14	1.97	399.66
	05/27/04	430.13	29.99	31.97	400.14	398.16	1.98	399.68
	05/27/04	430.13	29.79	31.97	400.34	398.16	2.18	399.84
	05/28/04	430.13	29.65	31.94	400.48	398.19	2.29	399.95
	06/01/04	430.13	28.65	31.98	401.48	398.15	3.33	400.71
	06/01/04	430.13	28.05	32.10	402.08	398.03	4.05	401.15
	06/02/04	430.13	28.12	32.13	402.01	398.00	4.01	401.09
	06/02/04	430.13	28.13	32.16	402.00	397.97	4.03	401.07
	06/02/04	430.13	28.11	31.97	402.02	398.16	3.86	401.13
	06/03/04	430.13	28.05	31.94	402.08	398.19	3.89	401.19
	06/03/04	430.13	28.27	30.44	401.86	399.69	2.17	401.36
	06/04/04	430.13	27.73	31.45	402.40	398.68	3.72	401.54
	06/04/04	430.13	27.67	31.46	402.46	398.67	3.79	401.59
	06/10/04	430.13	26.57	32.24	403.56	397.89	5.67	402.26
	06/17/04	430.13	26.26	32.30	403.87	397.83	6.04	402.48
	06/23/04	430.13	25.42	32.40	404.71	397.73	6.98	403.10
	06/30/04	430.13	25.24	32.49	404.89	397.64	7.25	403.22
	07/08/04	430.13	26.61	29.11	403.52	401.02	2.50	402.95
	07/14/04	430.13	28.49	28.79	401.64	401.34	0.30	401.57
	07/20/04	430.13	28.47	28.94	401.66	401.19	0.47	401.55
	07/28/04	430.13	29.18	30.09	400.95	400.04	0.91	400.74
	08/03/04	430.13	28.81	32.19	401.32	397.94	3.38	400.54

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-33[4]	08/11/04	430.13	29.15	32.88	400.98	397.25	3.73	400.12
	08/19/04	430.13	30.18	33.09	399.95	397.04	2.91	399.28
	08/27/04	430.13	30.59	32.35	399.54	397.78	1.76	399.14
	09/02/04	430.13	29.65	30.18	400.48	399.95	0.53	400.36
	09/21/04	430.13	31.25	32.52	398.88	397.61	1.27	398.59
HMW-34	06/18/04	--	26.18	29.69	--	--	3.51	--
	06/23/04	--	25.37	30.24	--	--	4.87	--
	06/30/04	--	25.18	30.18	--	--	5.00	--
	07/09/04	--	26.40	30.45	--	--	4.05	--
	07/14/04	--	28.82	30.77	--	--	1.95	--
	07/20/04	--	27.14	30.82	--	--	3.68	--
	07/28/04	--	28.02	30.71	--	--	2.69	--
	08/03/04	--	28.26	30.83	--	--	2.57	--
	08/25/04	--	29.92	31.40	--	--	1.48	--
	09/02/04	--	28.78	30.48	--	--	1.70	--
	09/20/04	429.83	30.27	31.68	399.56	398.15	1.41	399.24
HMW-35	06/18/04	--	NA	27.07	--	--	0.00	--
	06/23/04	--	NA	26.58	--	--	0.00	--
	06/30/04	--	NA	26.42	--	--	0.00	--
	07/09/04	--	NA	27.42	--	--	0.00	--
	07/14/04	--	NA	27.78	--	--	0.00	--
	07/20/04	--	NA	28.03	--	--	0.00	--
	07/28/04	--	NA	28.68	--	--	0.00	--
	08/03/04	--	NA	28.89	--	--	0.00	--
	08/25/04	--	30.26	30.27	--	--	0.01	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-35	09/02/04	--	NA	29.28	--	--	0.00	--
	09/20/04	429.81	30.59	30.60	399.22	399.21	0.01	399.22
	06/18/04	--	27.18	27.20	--	--	0.02	--
	06/23/04	--	NA	26.69	--	--	0.00	--
	06/30/04	--	26.10	27.82	--	--	1.72	--
	07/09/04	--	26.26	31.47	--	--	5.21	--
	07/14/04	--	26.60	31.71	--	--	5.11	--
	07/20/04	--	26.95	31.71	--	--	4.76	--
	07/28/04	--	27.80	31.65	--	--	3.85	--
	08/03/04	--	28.12	31.61	--	--	3.49	--
	08/25/04	--	29.79	32.05	--	--	2.26	--
	09/03/04	--	28.99	30.20	--	--	1.21	--
	09/20/04	429.91	30.35	31.77	399.56	398.14	1.42	399.23
HMW-37	06/18/04	--	26.86	26.90	--	--	0.04	--
	06/23/04	--	26.35	26.42	--	--	0.07	--
	06/30/04	--	26.03	26.74	--	--	0.71	--
	07/09/04	--	26.89	28.26	--	--	1.37	--
	07/14/04	--	27.13	28.78	--	--	1.65	--
	07/20/04	--	27.33	28.58	--	--	1.25	--
	07/28/04	--	27.86	30.13	--	--	2.27	--
	08/03/04	--	28.06	30.41	--	--	2.35	--
	08/25/04	--	29.50	31.52	--	--	2.02	--
	09/03/04	--	28.43	30.50	--	--	2.07	--
	09/20/04	429.61	29.88	31.72	399.73	397.89	1.84	399.31

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-38 A	08/31/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.06	NA	DRY	--	--	0.00	--
HMW-38 B	09/01/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.24	NA	25.19	NA	405.05	0.00	405.05
HMW-38 C	08/27/04	--	NA	31.65	--	--	0.00	--
	09/01/04	--	NA	29.68	--	--	0.00	--
	09/20/04	430.01	NA	32.37	NA	397.64	0.00	397.64
HMW-39 A	09/01/04	--	NA	DRY	--	--	0.00	--
	09/21/04	426.46	NA	DRY	NA	--	0.00	--
HMW-39 B	09/21/04	426.50	NA	23.80	NA	402.70	0.00	402.70
HMW-39 C	09/01/04	--	NA	25.74	--	--	0.00	--
	09/21/04	426.46	NA	28.50	NA	397.96	0.00	397.96
HMW-40 A	08/30/04	--	NA	DRY	--	--	0.00	--
	09/21/04	425.01	NA	DRY	NA	--	0.00	--
HMW-40 B	08/30/04	--	NA	DRY	--	--	0.00	--
	09/21/04	424.86	NA	24.29	NA	400.57	0.00	400.57
HMW-40 C	09/01/04	--	NA	23.85	--	--	0.00	--
	09/21/04	424.75	NA	26.31	NA	398.44	0.00	398.44
HMW-41 A	08/31/04	--	NA	DRY	--	--	0.00	--
	09/21/04	425.42	DRY	DRY	--	--	--	--
HMW-41 B	09/01/04	--	NA	24.14	--	--	0.00	--
	09/21/04	425.91	NA	25.41	NA	400.50	0.00	400.50
HMW-41 C	09/01/04	--	NA	24.63	--	--	0.00	--
	09/21/04	426.75	NA	26.03	NA	400.72	0.00	400.72

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-42 A	08/31/04	--	NA	DRY	--	--	0.00	--
	09/21/04	431.39	NA	DRY	NA	--	0.00	--
HMW-42 B	09/01/04	--	NA	29.93	--	--	0.00	--
	09/21/04	431.46	NA	30.66	NA	400.80	0.00	400.80
HMW-43 A	08/30/04	--	NA	DRY	--	--	0.00	--
	09/21/04	428.73	NA	17.36	NA	411.37	0.00	411.37
HMW-43 B	08/30/04	--	NA	DRY	--	--	0.00	--
	09/21/04	428.94	NA	22.33	NA	406.61	0.00	406.61
HMW-43 C	09/01/04	--	NA	27.64	--	--	0.00	--
	09/21/04	428.80	NA	28.64	NA	400.16	0.00	400.16
HMW-44 A	08/30/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.50	NA	DRY	NA	--	0.00	--
HMW-44 B	08/30/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.46	NA	DRY	NA	--	0.00	--
HMW-44 C	09/01/04	--	27.71	31.25	--	--	3.54	--
	09/21/04	429.44	29.04	31.74	400.40	397.70	2.70	399.78
HMW-45 A	08/31/04	--	NA	DRY	--	--	0.00	--
	09/20/04	431.17	NA	DRY	NA	--	0.00	--
HMW-45 B	09/01/04	--	NA	DRY	--	--	0.00	--
	09/20/04	431.22	NA	27.23	NA	403.99	0.00	403.99
HMW-45 C	09/01/04	--	NA	30.03	--	--	0.00	--
	09/20/04	430.87	32.77	32.80	398.10	398.07	0.03	398.09
HWM-46 A	08/31/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.51	NA	DRY	NA	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-46 B	09/01/00	--	NA	DRY	--	--	0.00	--
	09/20/04	430.61	NA	24.38	NA	406.23	0.00	406.23
HMW-46 C	09/01/00	--	NA	30.16	--	--	0.00	--
	09/20/04	430.49	31.65	32.88	398.84	397.61	1.23	398.56
HMW-47 A	09/01/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.50	NA	19.29	NA	411.21	0.00	411.21
HMW-47 B	09/01/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.13	NA	21.51	NA	408.62	0.00	408.62
HMW-47 C	09/20/04	430.61	NA	32.60	NA	398.01	0.00	398.01
HMW-48 A	09/02/04	--	NA	12.40	--	--	0.00	--
	09/20/04	429.16	NA	13.84	NA	415.32	0.00	415.32
HMW-48 B	09/20/04	429.18	14.68	14.77	414.50	414.41	0.09	414.48
HMW-48 C	09/20/04	429.10	27.54	31.36	401.56	397.74	3.82	400.68
HMW-48 D	09/20/04	428.98	NA	30.53	NA	398.45	0.00	398.45
HMW-49 A	08/30/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.21	NA	12.95	NA	417.26	0.00	417.26
HMW-49 B	09/20/04	430.23	NA	23.35	NA	406.88	0.00	406.88
HMW-49 C	09/01/00	--	NA	30.81	--	--	0.00	--
	09/20/04	430.21	NA	31.21	NA	399.00	0.00	399.00
HMW-49 D	09/20/04	430.33	NA	32.73	NA	397.60	0.00	397.60
HMW-50 A	09/22/04	434.41	NA	17.45	NA	416.96	0.00	416.96
HMW-50 B	09/22/04	434.15	NA	31.66	NA	402.49	0.00	402.49
HMW-50 C	09/01/00	--	NA	33.84	--	--	0.00	--
	09/22/04	434.29	NA	35.31	NA	398.98	0.00	398.98

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-51 A	08/31/04	--	NA	DRY	--	--	0.00	--
	09/21/04	425.46	NA	DRY	NA	--	0.00	--
HMW-51 B	08/31/04	--	NA	DRY	--	--	0.00	--
	09/21/04	425.51	NA	24.72	NA	400.79	0.00	400.79
HMW-51 C	09/01/00	--	NA	24.36	--	--	0.00	--
	09/21/04	425.42	NA	26.53	NA	398.89	0.00	398.89
HMW-52 A	08/31/04	--	NA	DRY	--	--	0.00	--
	09/21/04	427.80	NA	20.07	NA	407.73	0.00	407.73
HMW-52 B	08/31/04	--	NA	DRY	--	--	0.00	--
	09/21/04	427.81	NA	26.66	NA	401.15	0.00	401.15
HMW-52 C	09/21/04	427.83	NA	27.24	NA	400.59	0.00	400.59
RW-1	01/27/04	433.78	NA	36.18	NA	397.60	0.00	397.60
	03/15/04	433.78	NA	34.72	NA	399.06	0.00	399.06
	04/21/04	433.78	NA	33.93	NA	399.85	0.00	399.85
	05/27/04	433.78	NA	33.14	NA	400.64	0.00	400.64
	06/03/04	433.78	NA	31.73	NA	402.05	0.00	402.05
	06/10/04	433.78	NA	30.56	NA	403.22	0.00	403.22
	06/24/04	433.78	NA	29.41	NA	404.37	0.00	404.37
	06/30/04	433.78	NA	29.30	NA	404.48	0.00	404.48
	07/09/04	433.78	NA	30.38	NA	403.40	0.00	403.40
	07/14/04	433.78	NA	30.75	NA	403.03	0.00	403.03
	07/20/04	433.78	NA	31.07	NA	402.71	0.00	402.71
	07/28/04	433.78	NA	31.80	NA	401.98	0.00	401.98
	08/03/04	433.78	NA	32.15	NA	401.63	0.00	401.63

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-1	08/11/04	433.78	NA	32.49	NA	401.29	0.00	401.29
	08/19/04	433.78	NA	33.24	NA	400.54	0.00	400.54
	08/27/04	433.78	NA	33.68	NA	400.10	0.00	400.10
	09/02/04	433.78	NA	32.60	NA	401.18	0.00	401.18
	09/21/04	433.78	NA	34.16	NA	399.62	0.00	399.62
RW-2	01/27/04	431.99	34.39	35.95	397.60	396.04	1.56	397.24
	02/03/04	431.99	34.60	36.35	397.39	395.64	1.75	396.99
	02/16/04	431.99	34.91	37.00	397.08	394.99	2.09	396.60
	02/17/04	431.99	35.12	36.61	396.87	395.38	1.49	396.53
	02/18/04	431.99	35.07	36.59	396.92	395.40	1.52	396.57
	02/19/04	431.99	34.97	36.33	397.02	395.66	1.36	396.71
	02/23/04	431.99	35.16	36.32	396.83	395.67	1.16	396.56
	02/24/04	431.99	35.21	36.22	396.78	395.77	1.01	396.55
	02/27/04	431.99	34.90	36.31	397.09	395.68	1.41	396.77
	03/01/04	431.99	34.80	35.58	397.19	396.41	0.78	397.01
	03/02/04	431.99	35.21	35.44	396.78	396.55	0.23	396.73
	03/03/04	431.99	35.14	35.37	396.85	396.62	0.23	396.80
	03/04/04	431.99	34.60	35.50	397.39	396.49	0.90	397.18
	03/05/04	431.99	34.79	35.17	397.20	396.82	0.38	397.11
	03/08/04	431.99	34.40	34.61	397.59	397.38	0.21	397.54
	03/09/04	431.99	34.24	34.61	397.75	397.38	0.37	397.66
	03/11/04	431.99	33.77	34.02	398.22	397.97	0.25	398.16
	03/15/04	431.99	33.37	33.50	398.62	398.49	0.13	398.59

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-2	03/16/04	431.99	33.27	33.41	398.72	398.58	0.14	398.69
	03/17/04	431.99	33.21	33.58	398.78	398.41	0.37	398.69
	03/18/04	431.99	33.31	33.35	398.68	398.64	0.04	398.67
	03/19/04	431.99	33.40	33.61	398.59	398.38	0.21	398.54
	03/23/04	431.99	33.25	33.27	398.74	398.72	0.02	398.74
	03/24/04	431.99	33.28	33.32	398.71	398.67	0.04	398.70
	03/30/04	431.99	32.89	33.29	399.10	398.70	0.40	399.01
	03/31/04	431.99	32.89	33.14	399.10	398.85	0.25	399.04
	04/01/04	431.99	32.67	33.24	399.32	398.75	0.57	399.19
	04/20/04	431.99	32.28	33.68	399.71	398.31	1.40	399.39
	05/27/04	431.99	31.80	32.79	400.19	399.20	0.99	399.96
	06/03/04	431.99	30.27	32.16	401.72	399.83	1.89	401.29
	06/10/04	431.99	28.90	31.74	403.09	400.25	2.84	402.44
	06/17/04	431.99	28.59	31.94	403.40	400.05	3.35	402.63
	06/23/04	431.99	27.64	32.16	404.35	399.83	4.52	403.31
	06/30/04	431.99	27.45	32.14	404.54	399.85	4.69	403.46
	07/09/04	431.99	28.60	32.80	403.39	399.19	4.20	402.42
	07/14/04	431.99	29.06	32.78	402.93	399.21	3.72	402.07
	07/20/04	431.99	29.39	32.74	402.60	399.25	3.35	401.83
	07/28/04	431.99	30.30	32.77	401.69	399.22	2.47	401.12
	08/03/04	431.99	30.53	32.88	401.46	399.11	2.35	400.92
	08/11/04	431.99	30.86	32.90	401.13	399.09	2.04	400.66
	08/19/04	431.99	31.68	33.41	400.31	398.58	1.73	399.91
	08/25/04	431.99	32.04	33.61	399.95	398.38	1.57	399.59

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-2	09/02/04	431.99	31.02	32.35	400.97	399.64	1.33	400.66
	09/20/04	431.99	32.44	33.90	399.55	398.09	1.46	399.21
RW-3[4]	01/27/04	433.35	36.46	38.30	396.89	395.05	1.84	396.47
	02/03/04	433.35	36.82	38.54	396.53	394.81	1.72	396.13
	02/17/04	433.35	37.16	39.03	396.19	394.32	1.87	395.76
	02/18/04	433.35	37.50	37.71	395.85	395.64	0.21	395.80
	02/19/04	433.35	37.32	37.51	396.03	395.84	0.19	395.99
	02/24/04	433.35	37.31	37.89	396.04	395.46	0.58	395.91
	03/05/04	433.35	36.61	38.11	396.74	395.24	1.50	396.40
	03/08/04	433.35	35.95	36.28	397.40	397.07	0.33	397.32
	03/15/04	433.35	35.06	35.22	398.29	398.13	0.16	398.25
	04/20/04	433.35	34.34	35.48	399.01	397.87	1.14	398.75
	05/19/04	433.35	35.88	35.48	397.47	397.87	-0.40	397.56
	05/20/04	433.35	NA	35.88	NA	397.47	0.00	397.47
	05/20/04	433.88	NA	35.88	NA	398.00	0.00	398.00
	05/20/04	433.88	NA	35.88	NA	398.00	0.00	398.00
	05/20/04	433.88	NA	35.88	NA	398.00	0.00	398.00
	05/21/04	433.35	NA	35.87	NA	397.48	0.00	397.48
	05/21/04	433.35	NA	35.78	NA	397.57	0.00	397.57
	05/21/04	433.35	NA	35.77	NA	397.58	0.00	397.58
	05/24/04	433.35	35.59	35.72	397.76	397.63	0.13	397.73
	05/24/04	433.35	35.34	35.46	398.01	397.89	0.12	397.98
	05/24/04	433.35	35.33	35.38	398.02	397.97	0.05	398.01

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-3[4]	05/24/04	433.35	35.30	35.34	398.05	398.01	0.04	398.04
	05/24/04	433.35	NA	30.31	NA	403.04	0.00	403.04
	05/24/04	433.35	NA	35.30	NA	398.05	0.00	398.05
	05/25/04	433.35	NA	35.30	NA	398.05	0.00	398.05
	05/25/04	433.35	NA	35.30	NA	398.05	0.00	398.05
	05/26/04	433.35	NA	35.28	NA	398.07	0.00	398.07
	05/26/04	433.35	NA	30.22	NA	403.13	0.00	403.13
	05/26/04	433.35	NA	30.17	NA	403.18	0.00	403.18
	05/26/04	433.35	NA	29.79	NA	403.56	0.00	403.56
	05/26/04	433.35	NA	31.95	NA	401.40	0.00	401.40
	05/26/04	433.35	NA	31.88	NA	401.47	0.00	401.47
	05/26/04	433.35	NA	30.36	NA	402.99	0.00	402.99
	05/26/04	433.35	NA	29.89	NA	403.46	0.00	403.46
	05/26/04	433.35	NA	29.86	NA	403.49	0.00	403.49
	05/27/04	433.35	NA	29.72	NA	403.63	0.00	403.63
	05/27/04	433.95	NA	34.50	NA	399.45	0.00	399.45
	05/27/04	433.95	NA	34.50	NA	399.45	0.00	399.45
	05/27/04	433.95	NA	34.46	NA	399.49	0.00	399.49
	05/27/04	433.35	NA	35.44	NA	397.91	0.00	397.91
	05/28/04	433.35	NA	34.43	NA	398.92	0.00	398.92
	05/28/04	433.35	NA	34.35	NA	399.00	0.00	399.00
	05/28/04	433.35	NA	34.17	NA	399.18	0.00	399.18
	06/01/04	433.35	NA	32.74	NA	400.61	0.00	400.61

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-3[4]	06/01/04	433.35	NA	32.78	NA	400.57	0.00	400.57
	06/01/04	433.35	NA	32.81	NA	400.54	0.00	400.54
	06/01/04	433.35	NA	32.96	NA	400.39	0.00	400.39
	06/02/04	433.35	NA	32.98	NA	400.37	0.00	400.37
	06/02/04	433.35	NA	33.22	NA	400.13	0.00	400.13
	06/02/04	433.35	NA	32.20	NA	401.15	0.00	401.15
	06/02/04	433.35	NA	33.19	NA	400.16	0.00	400.16
	06/03/04	433.35	NA	32.19	NA	401.16	0.00	401.16
	06/03/04	433.35	NA	33.07	NA	400.28	0.00	400.28
	06/04/04	433.35	NA	32.88	NA	400.47	0.00	400.47
	06/04/04	433.35	NA	32.70	NA	400.65	0.00	400.65
	06/10/04	433.35	32.00	33.01	401.35	400.34	1.01	401.12
	06/17/04	433.35	30.83	30.95	402.52	402.40	0.12	402.49
	06/23/04	433.35	30.18	30.24	403.17	403.11	0.06	403.16
	06/30/04	433.35	30.07	30.14	403.28	403.21	0.07	403.26
	07/08/04	433.35	31.38	31.44	401.97	401.91	0.06	401.96
	07/14/04	433.35	31.69	31.77	401.66	401.58	0.08	401.64
	07/20/04	433.35	31.94	32.03	401.41	401.32	0.09	401.39
	07/28/04	433.35	32.63	32.80	400.72	400.55	0.17	400.68
	08/03/04	433.35	32.86	33.06	400.49	400.29	0.20	400.44
	08/11/04	433.35	33.21	33.47	400.14	399.88	0.26	400.08
	08/19/04	433.35	34.08	34.35	399.27	399.00	0.27	399.21
	08/27/04	433.35	34.20	34.46	399.15	398.89	0.26	399.09

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-3[4]	09/02/04	433.35	32.89	33.35	400.46	400.00	0.46	400.35
	09/21/04	433.35	34.74	35.13	398.61	398.22	0.39	398.52
RW-4[4]	05/27/04	429.65	NA	29.93	NA	399.72	0.00	399.72
	05/27/04	429.65	NA	29.77	NA	399.88	0.00	399.88
	05/28/04	429.65	NA	29.62	NA	400.03	0.00	400.03
	06/01/04	429.65	NA	28.29	NA	401.36	0.00	401.36
	06/02/04	429.65	NA	28.35	NA	401.30	0.00	401.30
	06/02/04	429.65	NA	28.34	NA	401.31	0.00	401.31
	06/03/04	429.65	NA	28.31	NA	401.34	0.00	401.34
	06/03/04	429.65	NA	28.18	NA	401.47	0.00	401.47
	06/04/04	429.65	NA	27.95	NA	401.70	0.00	401.70
	06/10/04	429.65	NA	27.24	NA	402.41	0.00	402.41
	06/17/04	429.65	NA	27.06	NA	402.59	0.00	402.59
	06/23/04	429.65	NA	26.32	NA	403.33	0.00	403.33
	06/30/04	429.65	NA	26.22	NA	403.43	0.00	403.43
	07/08/04	429.65	NA	27.53	NA	402.12	0.00	402.12
	07/14/04	429.65	NA	27.79	NA	401.86	0.00	401.86
	07/20/04	429.65	NA	28.12	NA	401.53	0.00	401.53
	07/28/04	429.65	NA	28.85	NA	400.80	0.00	400.80
	08/03/04	429.65	NA	29.11	NA	400.54	0.00	400.54
	08/11/04	429.65	NA	29.39	NA	400.26	0.00	400.26
	08/19/04	429.65	30.28	30.29	399.37	399.36	0.01	399.37
	08/25/04	429.65	NA	30.44	NA	399.21	0.00	399.21

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-4[4]	09/02/04	429.65	NA	29.38	NA	400.27	0.00	400.27
	09/21/04	429.65	NA	30.94	NA	398.71	0.00	398.71
RW-4A*	06/23/04	--	NA	27.42	--	--	0.00	--
	06/30/04	--	26.43	26.88	--	--	0.45	--
	07/08/04	--	26.40	32.75	--	--	6.35	--
	07/14/04	--	26.76	32.84	--	--	6.08	--
	07/20/04	--	27.12	32.83	--	--	5.71	--
RW-5	06/18/04	--	26.68	29.72	--	--	3.04	--
	06/23/04	--	26.23	29.16	--	--	2.93	--
	06/30/04	--	26.23	28.90	--	--	2.67	--
	07/09/04	--	26.23	30.15	--	--	3.92	--
	07/14/04	--	26.23	29.30	--	--	3.07	--
	07/20/04	--	26.23	29.08	--	--	2.85	--
	07/28/04	--	26.23	29.99	--	--	3.76	--
	08/03/04	--	26.23	29.53	--	--	3.30	--
	08/11/04	--	26.23	30.00	--	--	3.77	--
	08/19/04	--	30.14	31.00	--	--	0.86	--
	08/25/04	--	30.45	31.41	--	--	0.96	--
MP-5S	01/27/04	429.83	NA	9.26	NA	420.57	0.00	420.57
	03/15/04	429.83	NA	DRY	--	--	0.00	--
	04/20/04	429.83	NA	DRY	--	--	0.00	--
	07/08/04	429.83	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-5D	01/27/04	430.09	NA	21.33	NA	408.76	0.00	408.76
	03/15/04	430.09	NA	20.63	NA	409.46	0.00	409.46
	04/20/04	430.09	NA	20.38	NA	409.71	0.00	409.71
MP-6S	01/27/04	430.15	NA	DRY	--	--	0.00	--
	02/17/04	430.15	NA	DRY	--	--	0.00	--
	03/15/04	430.15	NA	DRY	--	--	0.00	--
	04/20/04	430.15	NA	DRY	--	--	0.00	--
MP-6D	01/27/04	430.13	NA	21.31	NA	408.82	0.00	408.82
	03/15/04	430.13	NA	20.70	NA	409.43	0.00	409.43
	04/20/04	430.13	NA	20.40	NA	409.73	0.00	409.73
MP-7S	01/27/04	430.17	NA	7.21	NA	422.96	0.00	422.96
	03/15/04	430.17	--	NA	DRY	--	--	--
	04/20/04	430.17	NA	5.41	NA	424.76	0.00	424.76
MP-7D	01/27/04	430.16	NA	21.38	NA	408.78	0.00	408.78
	03/15/04	430.16	NA	20.78	NA	409.38	0.00	409.38
	04/20/04	430.16	NA	20.64	NA	409.52	0.00	409.52
MP-8S	01/27/04	430.20	NA	DRY	--	--	0.00	--
	02/17/04	430.20	NA	DRY	--	--	0.00	--
	03/15/04	430.20	NA	DRY	--	--	0.00	--
	04/20/04	430.20	NA	DRY	--	--	0.00	--
MP-8D	04/21/04	430.14	21.64	21.73	408.50	408.41	0.09	408.48
	07/14/04	430.14	19.63	19.66	410.51	410.48	0.03	410.50

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-9S	01/27/04	430.05	NA	8.19	NA	421.86	0.00	421.86
	03/15/04	430.05	NA	8.41	NA	421.64	0.00	421.64
	04/20/04	430.05	NA	7.76	NA	422.29	0.00	422.29
	07/14/04	430.05	NA	4.32	NA	425.73	0.00	425.73
MP-9D	01/27/04	430.00	21.40	21.41	408.60	408.59	0.01	408.60
	03/15/04	430.00	20.92	20.93	409.08	409.07	0.01	409.08
	04/21/04	430.00	20.89	20.90	409.11	409.10	0.01	409.11
	07/14/04	430.00	18.72	19.92	411.28	410.08	1.20	411.00
MP-10S	01/27/04	430.53	NA	DRY	--	--	0.00	--
	02/17/04	430.53	NA	DRY	--	--	0.00	--
	03/15/04	430.53	NA	DRY	--	--	0.00	--
	04/21/04	430.53	NA	DRY	--	--	0.00	--
	07/08/04	430.53	NA	DRY	--	--	0.00	--
	07/14/04	430.53	NA	DRY	--	--	0.00	--
	07/20/04	430.53	NA	DRY	--	--	0.00	--
MP-10D	01/27/04	430.37	NA	19.70	NA	410.67	0.00	410.67
	03/15/04	430.37	NA	19.58	NA	410.79	0.00	410.79
	04/21/04	430.37	NA	19.27	NA	411.10	0.00	411.10
	07/14/04	430.37	NA	17.62	NA	412.75	0.00	412.75
MP-11S	01/27/04	431.19	NA	DRY	--	--	0.00	--
	03/15/04	431.19	NA	DRY	--	--	0.00	--
	04/21/04	431.19	NA	DRY	--	--	0.00	--
	07/08/04	431.19	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-11S	07/14/04	431.19	NA	DRY	--	--	0.00	--
	07/20/04	431.19	NA	DRY	--	--	0.00	--
MP-11D	01/27/04	431.19	NA	19.82	NA	411.37	0.00	411.37
	03/15/04	431.19	NA	19.72	NA	411.47	0.00	411.47
	04/21/04	431.19	NA	19.62	NA	411.57	0.00	411.57
	07/14/04	431.19	NA	17.87	NA	413.32	0.00	413.32
MP-12S	03/15/04	431.70	NA	DRY	--	--	0.00	--
	04/21/04	431.70	NA	DRY	--	--	0.00	--
	07/08/04	431.70	NA	DRY	--	--	0.00	--
	07/14/04	431.70	NA	DRY	--	--	0.00	--
	07/20/04	431.70	NA	DRY	--	--	0.00	--
MP-12D	03/15/04	431.63	NA	19.56	NA	412.07	0.00	412.07
	04/21/04	431.63	NA	19.50	NA	412.13	0.00	412.13
	07/14/04	431.63	NA	17.95	NA	413.68	0.00	413.68
MP-13S	01/27/04	429.20	NA	7.97	NA	421.23	0.00	421.23
	03/15/04	429.20	--	DRY	--	0.00	--	--
	04/21/04	429.20	NA	8.38	NA	420.82	0.00	420.82
	07/14/04	429.20	NA	7.84	NA	421.36	0.00	421.36
MP-13D	01/27/04	429.30	NA	DRY	--	--	0.00	--
	03/15/04	429.30	NA	DRY	--	--	0.00	--
	04/21/04	429.30	NA	DRY	--	--	0.00	--
	07/14/04	429.30	NA	26.20	NA	403.10	0.00	403.10
	07/20/04	429.30	--	--	--	--	--	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-14S	03/15/04	429.51	NA	DRY	--	--	0.00	--
	04/21/04	429.51	NA	9.04	NA	420.47	0.00	420.47
	07/14/04	429.51	NA	8.17	NA	421.34	0.00	421.34
MP-14D	03/15/04	429.51	NA	DRY	--	--	0.00	--
	04/21/04	429.51	NA	DRY	--	--	0.00	--
	07/14/04	429.51	NA	DRY	--	--	0.00	--
MP-15S	01/27/04	429.63	NA	6.01	NA	423.62	0.00	423.62
	03/15/04	429.63	NA	DRY	--	--	0.00	--
	04/21/04	429.63	NA	9.04	NA	420.59	0.00	420.59
	07/08/04	429.63	NA	DRY	--	--	0.00	--
	07/14/04	429.63	NA	DRY	--	--	0.00	--
MP-15D	02/17/04	429.58	NA	DRY	--	--	0.00	--
	03/15/04	429.58	NA	DRY	--	--	0.00	--
	04/21/04	429.58	NA	DRY	--	--	0.00	--
	07/08/04	429.58	NA	DRY	--	--	0.00	--
	07/14/04	429.58	NA	DRY	--	--	0.00	--
	07/20/04	429.58	NA	DRY	--	--	0.00	--
MP-16S	03/15/04	429.75	NA	DRY	--	--	0.00	--
	04/21/04	429.75	NA	DRY	--	--	0.00	--
MP-16S	07/08/04	429.75	NA	DRY	--	--	0.00	--
	07/14/04	429.75	NA	DRY	--	--	0.00	--
	07/20/04	429.75	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-16D	01/27/04	429.77	NA	DRY	--	--	0.00	--
	02/17/04	429.77	NA	DRY	--	--	0.00	--
	03/05/04	429.77	NA	DRY	--	--	0.00	--
	04/21/04	429.77	NA	DRY	--	--	0.00	--
	07/08/04	429.77	NA	DRY	--	--	0.00	--
	07/14/04	429.77	NA	DRY	--	--	0.00	--
	07/20/04	429.77	NA	DRY	--	--	0.00	--
MP-25	06/18/04	--	NA	23.25	--	--	0.00	--
	06/23/04	--	NA	25.78	--	--	0.00	--
	06/30/04	--	NA	25.97	--	--	0.00	--
	07/14/04	--	NA	26.48	--	--	0.00	--
MP-26	06/18/04	--	NA	22.89	--	--	0.00	--
	06/23/04	--	NA	24.63	--	--	0.00	--
	06/30/04	--	NA	25.06	--	--	0.00	--
	07/14/04	--	NA	25.37	--	--	0.00	--
MP-27	06/18/04	--	22.50	22.58	--	--	0.08	--
	06/23/04	--	25.29	25.63	--	--	0.34	--
	06/30/04	--	25.36	25.71	--	--	0.35	--
	07/14/04	--	26.16	26.68	--	--	0.52	--
MP-28	06/18/04	--	NA	16.12	--	--	0.00	--
	06/23/04	--	NA	16.89	--	--	0.00	--
	*** 06/30/04	--	NA	18.03	--	--	0.00	--
	*** 09/02/04	429.80	--	--	--	--	--	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-29 A	08/03/04	--	NA	10.81	--	--	0.00	--
	08/11/04	--	NA	11.30	--	--	0.00	--
	08/19/04	--	NA	11.54	--	--	0.00	--
	08/25/04	--	NA	11.68	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/20/04	429.39	NA	11.87	NA	417.52	0.00	417.52
MP-29 B	08/03/04	--	NA	18.90	--	--	0.00	--
	08/11/04	--	NA	19.71	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	--	--
	09/02/04	--	NA	DRY	--	--	--	--
	09/20/04	429.43	NA	20.32	NA	409.11	0.00	409.11
MP-29 C	08/19/04	--	21.17	21.58	--	--	0.41	--
	08/25/04	--	21.72	22.23	--	--	0.51	--
	09/02/04	--	22.28	22.64	--	--	0.36	--
	09/20/04	429.39	22.63	23.16	406.76	406.23	0.53	406.64
MP-29 D	07/29/04	--	28.28	30.36	--	--	2.08	--
	08/03/04	--	28.21	32.56	--	--	4.35	--
	08/11/04	--	28.64	32.67	--	--	4.03	--
	08/19/04	--	29.32	33.01	--	--	3.69	--
	08/25/04	--	30.07	32.64	--	--	2.57	--
	09/02/04	--	28.36	32.51	--	--	4.15	--
	09/20/04	429.47	30.52	32.25	398.95	397.22	1.73	398.55

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-30 A	08/12/04	--	NA	DRY	--	--	--	--
	08/19/04	--	NA	DRY	--	--	--	--
	08/26/04	--	NA	18.47	--	--	--	--
	09/02/04	--	NA	DRY	--	--	--	--
	09/21/04	431.20	NA	DRY	NA	--	0.00	--
MP-30 B	08/12/04	--	NA	25.80	--	--	0.00	--
	08/19/04	--	NA	26.19	--	--	0.00	--
	08/26/04	--	NA	26.36	--	--	0.00	--
	09/02/04	--	NA	36.55	--	--	0.00	--
	09/21/04	431.21	NA	27.00	NA	404.21	0.00	404.21
MP-30 C	08/12/04	--	NA	32.00	--	--	0.00	--
	08/19/04	--	NA	32.00	--	--	0.00	--
	08/26/04	--	NA	32.12	--	--	0.00	--
	09/02/04	--	NA	30.73	--	--	0.00	--
	09/21/04	431.13	NA	32.66	NA	398.47	0.00	398.47
MP-31 A	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	426.71	NA	DRY	NA	--	0.00	--
MP-31 B	08/12/04	--	NA	15.45	--	--	0.00	--
	08/19/04	--	NA	15.54	--	--	0.00	--
	08/26/04	--	NA	15.66	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-31 B	09/02/04	--	NA	15.75	--	--	0.00	--
	09/21/04	426.79	NA	15.90	NA	410.89	0.00	410.89
MP-31 C	08/12/04	--	NA	29.03	--	--	0.00	--
	08/19/04	--	NA	27.89	--	--	0.00	--
	08/26/04	--	NA	28.00	--	--	0.00	--
	09/02/04	--	NA	26.38	--	--	0.00	--
	09/21/04	426.98	NA	28.48	NA	398.50	0.00	398.50
MP-32 A	08/12/04	--	NA	13.65	--	--	0.00	--
	08/19/04	--	NA	13.68	--	--	0.00	--
	08/26/04	--	NA	13.70	--	--	0.00	--
	09/02/04	--	NA	13.75	--	--	0.00	--
	09/21/04	429.68	NA	13.80	NA	415.88	0.00	415.88
MP-32 B	08/12/04	--	NA	29.35	--	--	0.00	--
	08/19/04	--	30.08	30.39	--	--	0.31	--
	08/26/04	--	NA	30.65	--	--	0.00	--
	09/02/04	--	29.23	29.56	--	--	0.33	--
	09/21/04	429.68	NA	30.86	NA	398.82	0.00	398.82
MP-32 C	08/12/04	--	NA	29.75	--	--	0.00	--
	08/19/04	--	NA	30.55	--	--	0.00	--
	08/26/04	--	NA	30.68	--	--	0.00	--
	09/02/04	--	NA	29.20	--	--	0.00	--
	09/21/04	429.72	NA	38.30	NA	391.42	0.00	391.42

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-33 A	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.05	NA	DRY	NA	--	0.00	--
MP-33 B	08/12/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	14.09	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.09	NA	DRY	--	--	--	--
MP-33 C	08/12/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.09	NA	DRY	--	--	--	--
MP-33 D	08/12/04	--	NA	30.03	--	--	0.00	--
	08/19/04	--	NA	30.83	--	--	0.00	--
	08/26/04	--	NA	30.97	--	--	0.00	--
	09/02/04	--	NA	29.54	--	--	0.00	--
	09/21/04	430.09	NA	31.51	NA	398.58	0.00	398.58
MP-34 A	08/03/04	--	NA	16.63	--	--	0.00	--
	08/11/04	--	--	15.66	--	--	--	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	15.61	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-34 A	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.73	NA	DRY	NA	--	0.00	--
MP-34 B	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	--	DRY	--	--	--	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.74	NA	DRY	NA	--	0.00	--
MP-34 C	08/03/04	--	NA	30.13	--	--	0.00	--
	08/11/04	--	--	30.51	--	--	--	--
	08/19/04	--	31.24	31.34	--	--	0.10	--
	08/26/04	--	31.41	31.54	--	--	0.13	--
	09/02/04	--	NA	30.08	--	--	0.00	--
	09/21/04	430.62	31.93	32.02	398.69	398.60	0.09	398.67
MP-35 A	08/19/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	9.86	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.39	NA	DRY	NA	--	0.00	--
MP-35 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	17.05	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-35 B	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.41	NA	DRY	NA	--	0.00	--
MP-35 C	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.44	NA	DRY	NA	--	0.00	--
MP-35 D	07/29/04	--	29.11	31.30	--	--	2.19	--
	08/03/04	--	29.44	31.63	--	--	2.19	--
	08/11/04	--	29.78	31.93	--	--	2.15	--
	08/19/04	--	30.65	32.43	--	--	1.78	--
	08/25/04	--	31.00	32.88	--	--	1.88	--
	09/02/04	--	29.81	30.61	--	--	0.80	--
	09/21/04	430.43	31.30	33.27	399.13	397.16	1.97	398.68
MP-36 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	431.91	NA	DRY	NA	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-36 B	07/29/04	--	NA	23.56	--	--	0.00	--
	08/03/04	--	NA	23.35	--	--	0.00	--
	08/11/04	--	NA	23.64	--	--	0.00	--
	08/19/04	--	NA	23.85	--	--	0.00	--
	08/25/04	--	NA	24.00	--	--	0.00	--
	09/02/04	--	NA	24.10	--	--	0.00	--
	09/21/04	431.98	NA	24.46	NA	407.52	0.00	407.52
MP-36 C	07/29/04	--	NA	31.11	--	--	0.00	--
	08/03/04	--	NA	31.45	--	--	0.00	--
	08/11/04	--	NA	31.76	--	--	0.00	--
	08/19/04	--	32.51	32.63	--	--	0.12	--
	08/25/04	--	32.86	33.00	--	--	0.14	--
	09/02/04	--	31.46	31.58	--	--	0.12	--
	09/22/04	431.99	33.24	33.40	398.75	398.59	0.16	398.71
MP-37 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/20/04	429.33	NA	DRY	--	--	0.00	--
MP-37 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	22.55	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-37 B	08/11/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/20/04	428.99	NA	DRY	--	--	0.00	--
MP-37 C	07/29/04	--	NA	21.96	--	--	0.00	--
	08/03/04	--	NA	22.63	--	--	0.00	--
	08/11/04	--	NA	23.50	--	--	0.00	--
	08/19/04	--	NA	23.65	--	--	0.00	--
	08/25/04	--	NA	23.69	--	--	0.00	--
	09/02/04	--	NA	23.71	--	--	0.00	--
	09/21/04	429.07	NA	23.81	NA	405.26	0.00	405.26
MP-37 D	07/29/04	--	27.21	30.90	--	--	3.69	--
	08/03/04	--	27.53	31.25	--	--	3.72	--
	08/11/04	--	27.85	31.49	--	--	3.64	--
	08/19/04	--	29.01	30.30	--	--	1.29	--
	08/25/04	--	29.40	31.13	--	--	1.73	--
	09/02/04	--	28.44	29.04	--	--	0.60	--
	09/21/04	429.04	30.03	30.78	399.01	398.26	0.75	398.84
MP-38 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/12/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-38 A	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	427.17	NA	DRY	NA	--	0.00	--
MP-38 B	07/29/04	--	NA	23.14	--	--	0.00	--
	08/03/04	--	NA	23.16	--	--	0.00	--
	08/12/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	23.14	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	427.03	NA	DRY	NA	--	0.00	--
MP-38 C	07/29/04	--	NA	25.91	--	--	0.00	--
	08/03/04	--	NA	26.38	--	--	0.00	--
	08/12/04	--	NA	26.76	--	--	0.00	--
	08/19/04	--	NA	27.60	--	--	0.00	--
	08/26/04	--	NA	27.84	--	--	0.00	--
	09/02/04	--	NA	26.25	--	--	0.00	--
	09/21/04	426.91	NA	28.40	NA	398.51	0.00	398.51
MP-39 A	07/29/04	--	NA	12.80	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/12/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-39 A	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	432.09	NA	DRY	NA	--	0.00	--
MP-39 B	07/29/04	--	NA	18.37	--	--	0.00	--
	08/03/04	--	NA	18.41	--	--	0.00	--
	08/12/04	--	NA	18.85	--	--	0.00	--
	08/19/04	--	NA	19.55	--	--	0.00	--
	08/26/04	--	NA	20.20	--	--	0.00	--
	09/02/04	--	NA	20.28	--	--	0.00	--
	09/21/04	432.10	NA	21.57	NA	410.53	0.00	410.53
MP-39C	07/29/04	--	30.93	31.24	--	--	0.31	--
	08/03/04	--	30.92	32.88	--	--	1.96	--
	08/11/04	--	31.25	33.30	--	--	2.05	--
	08/19/04	--	32.05	33.86	--	--	1.81	--
	08/26/04	--	32.40	34.12	--	--	1.72	--
	09/02/04	--	31.41	32.03	--	--	0.62	--
	09/21/04	432.07	32.89	34.56	399.18	397.51	1.67	398.80
MP-40 A	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	10.57	--	--	0.00	--
	09/02/04	--	NA	10.63	--	--	0.00	--
	09/21/04	432.76	NA	10.60	NA	422.16	0.00	422.16
MP-40 B	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-40 B	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	432.78	NA	DRY	NA	--	0.00	--
MP-40 C	08/19/04	--	NA	31.38	--	--	0.00	--
	08/26/04	--	NA	31.63	--	--	0.00	--
	09/02/04	--	NA	30.36	--	--	0.00	--
	09/21/04	432.77	NA	32.12	NA	400.65	0.00	400.65
MP-41 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/27/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	431.24	NA	DRY	NA	--	0.00	--
MP-41 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/27/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	431.23	NA	DRY	NA	--	0.00	--
MP-41 C	07/29/04	--	NA	29.90	--	--	0.00	--
	08/03/04	--	NA	30.27	--	--	0.00	--
	08/11/04	--	30.56	30.58	--	--	0.02	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-41 C	08/19/04	--	31.36	31.37	--	--	0.01	--
	08/27/04	--	31.59	31.60	--	--	0.01	--
	09/02/04	--	NA	30.45	--	--	0.00	--
	09/21/04	431.09	NA	32.12	NA	398.97	0.00	398.97
MP-42 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.21	NA	DRY	NA	--	0.00	--
MP-42 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/20/04	430.20	NA	DRY	NA	--	0.00	--
MP-42 C	07/29/04	--	29.22	29.68	--	--	0.46	--
	08/03/04	--	29.46	30.09	--	--	0.63	--
	08/11/04	--	29.70	30.60	--	--	0.90	--
	08/18/04	--	30.06	31.72	--	--	1.66	--
	08/25/04	--	30.63	32.01	--	--	1.38	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-42 C	09/02/04	--	29.70	30.45	--	--	0.75	--
	09/20/04	430.32	31.07	32.10	399.25	398.22	1.03	399.01
MP-43 A	08/12/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	426.75	NA	DRY	NA	--	0.00	--
MP-43 B	08/12/04	--	NA	DRY	--	--	0.00	--
	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	426.72	NA	DRY	NA	--	0.00	--
MP-43 C	08/12/04	--	NA	25.98	--	--	0.00	--
	08/19/04	--	NA	26.80	--	--	0.00	--
	08/26/04	--	NA	27.05	--	--	0.00	--
	09/02/04	--	NA	25.58	--	--	0.00	--
	09/21/04	426.39	NA	27.57	NA	398.82	0.00	398.82
MP-44 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.64	NA	DRY	NA	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-44 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.54	NA	DRY	NA	--	0.00	--
MP-44 C	07/29/04	--	NA	24.41	--	--	0.00	--
	08/03/04	--	NA	24.39	--	--	0.00	--
	08/11/04	--	NA	24.36	--	--	0.00	--
	08/18/04	--	NA	24.31	--	--	0.00	--
	08/25/04	--	NA	24.30	--	--	0.00	--
	09/02/04	--	NA	24.63	--	--	0.00	--
	09/21/04	430.54	NA	24.42	NA	406.12	0.00	406.12
MP-44 D	07/29/04	--	NA	29.33	--	--	0.00	--
	08/03/04	--	NA	29.65	--	--	0.00	--
	08/11/04	--	NA	29.99	--	--	0.00	--
	08/18/04	--	30.54	30.55	--	--	0.01	--
	08/25/04	--	31.02	31.03	--	--	0.01	--
	09/02/04	--	NA	29.91	--	--	0.00	--
	09/21/04	430.62	NA	31.53	NA	399.09	0.00	399.09
MP-45 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-45 A	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.04	NA	DRY	NA	--	0.00	--
MP-45 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.04	NA	DRY	NA	--	0.00	--
MP-45 C	07/29/04	--	28.38	29.38	--	--	1.00	--
	08/03/04	--	28.72	29.56	--	--	0.84	--
	08/11/04	--	29.02	29.04	--	--	0.02	--
	08/18/04	--	29.54	30.55	--	--	1.01	--
	08/25/04	--	29.91	31.43	--	--	1.52	--
	09/02/04	--	29.10	29.70	--	--	0.60	--
	09/21/04	429.93	30.18	32.61	399.75	397.32	2.43	399.19
MP-46 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-46 A	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.67	NA	DRY	NA	--	0.00	--
MP-46 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.65	NA	DRY	NA	--	0.00	--
MP-46 C	07/29/04	--	27.99	29.54	--	--	1.55	--
	08/03/04	--	28.14	29.87	--	--	1.73	--
	08/11/04	--	28.39	28.40	--	--	0.01	--
	08/18/04	--	29.86	31.21	--	--	1.35	--
	08/25/04	--	29.37	30.48	--	--	1.11	--
	09/02/04	--	28.80	29.31	--	--	0.51	--
	09/21/04	429.60	29.82	32.01	399.78	397.59	2.19	399.28
MP-47 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-47 A	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.12	NA	DRY	NA	--	0.00	--
MP-47 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.11	NA	DRY	NA	--	0.00	--
MP-47 C	07/29/04	--	27.19	29.27	--	--	2.08	--
	08/03/04	--	27.42	29.51	--	--	2.09	--
	08/11/04	--	27.72	29.86	--	--	2.14	--
	08/18/04	--	28.16	30.56	--	--	2.40	--
	08/25/04	--	28.65	31.04	--	--	2.39	--
	09/02/04	--	28.02	29.35	--	--	1.33	--
	09/21/04	429.01	29.07	31.51	399.94	397.50	2.44	399.38
MP-48 A	08/11/04	--	NA	19.05	--	--	0.00	--
	08/19/04	--	NA	18.95	--	--	0.00	--
	08/26/04	--	NA	18.95	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.29	NA	18.98	NA	410.31	0.00	410.31
MP-48 B	08/11/04	--	28.41	28.85	--	--	0.44	--
	08/19/04	--	29.05	29.75	--	--	0.70	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-48 B	08/26/04	--	29.46	30.17	--	--	0.71	--
	09/02/04	--	28.30	28.32	--	--	0.02	--
	09/21/04	429.29	29.91	30.69	399.38	398.60	0.78	399.20
MP-48 C	08/11/04	--	28.92	28.93	--	--	0.01	--
	08/19/04	--	29.70	29.72	--	--	0.02	--
	08/26/04	--	29.97	29.98	--	--	0.01	--
	09/02/04	--	28.58	28.59	--	--	0.01	--
	09/21/04	429.49	30.47	30.49	399.02	399.00	0.02	399.02
MP-49 A	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	10.87	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	432.81	--	--	--	--	--	--
MP-49 B	08/19/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	432.82	NA	DRY	NA	--	0.00	--
MP-49 C	08/19/04	--	30.84	32.25	--	--	1.41	--
	08/26/04	--	31.12	32.49	--	--	1.37	--
	09/02/04	--	30.34	30.67	--	--	0.33	--
	09/21/04	432.80	31.64	32.71	401.16	400.09	1.07	400.91
MP-50 A	08/18/04	--	NA	8.08	--	--	0.00	--
	08/26/04	--	NA	8.65	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-50 A	09/02/04	--	NA	9.00	--	--	0.00	--
	09/21/04	430.38	NA	9.83	NA	420.55	0.00	420.55
MP-50 B	07/29/04	--	NA	24.03	--	--	0.00	--
	08/03/04	--	NA	23.31	--	--	0.00	--
	08/11/04	--	NA	23.88	--	--	0.00	--
	08/18/04	--	NA	24.01	--	--	0.00	--
	08/26/04	--	NA	23.82	--	--	0.00	--
	09/02/04	--	NA	23.72	--	--	0.00	--
	09/21/04	430.24	NA	DRY	NA	--	0.00	--
MP-50 C	07/29/04	--	28.11	31.05	--	--	2.94	--
	08/03/04	--	28.55	31.22	--	--	2.67	--
	08/11/04	--	28.96	31.18	--	--	2.22	--
	08/18/04	--	29.71	31.25	--	--	1.54	--
	08/26/04	--	30.28	31.38	--	--	1.10	--
	09/02/04	--	28.97	30.79	--	--	1.82	--
	09/21/04	430.23	30.80	32.03	399.43	398.20	1.23	399.15
MP-51 A	08/18/04	--	NA	7.45	--	--	0.00	--
	08/26/14	--	NA	8.39	--	--	0.00	--
	09/02/04	--	NA	8.90	--	--	0.00	--
	09/21/04	430.90	NA	DRY	NA	--	0.00	--
MP-51 B	07/29/04	--	NA	14.69	--	--	0.00	--
	08/03/04	--	NA	14.38	--	--	0.00	--
	08/11/04	--	NA	14.53	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-51 B	08/18/04	--	NA	14.68	--	--	0.00	--
	08/26/04	--	NA	14.85	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.91	NA	DRY	NA	--	0.00	--
MP-51 C	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.93	NA	DRY	NA	--	0.00	--
MP-51 D	07/29/04	--	29.92	31.49	--	--	1.57	--
	08/03/04	--	29.19	31.64	--	--	2.45	--
	08/11/04	--	29.50	31.93	--	--	2.43	--
	08/18/04	--	29.98	32.45	--	--	2.47	--
	08/26/04	--	30.54	32.74	--	--	2.20	--
	09/02/04	--	29.97	29.98	--	--	0.01	--
	09/21/04	430.99	30.93	33.56	400.06	397.43	2.63	399.46
MP-52 A	07/29/04	--	NA	9.88	--	--	0.00	--
	08/03/04	--	NA	9.93	--	--	0.00	--
	08/11/04	--	NA	9.91	--	--	0.00	--
	08/18/04	--	NA	9.87	--	--	0.00	--
	08/26/04	--	NA	9.85	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-52 A	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.96	NA	9.80	NA	420.16	0.00	420.16
MP-52 B	07/29/04	--	NA	21.80	--	--	0.00	--
	08/03/04	--	NA	22.08	--	--	0.00	--
	08/11/04	--	NA	22.25	--	--	0.00	--
	08/18/04	--	NA	22.41	--	--	0.00	--
	08/26/04	--	NA	22.49	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.97	NA	DRY	NA	--	0.00	--
MP-52 C	07/29/04	--	28.30	28.74	--	--	0.44	--
	08/03/04	--	28.28	30.20	--	--	1.92	--
	08/11/04	--	28.34	31.05	--	--	2.71	--
	08/18/04	--	29.03	31.22	--	--	2.19	--
	08/26/04	--	29.67	31.48	--	--	1.81	--
	09/02/04	--	28.74	30.16	--	--	1.42	--
	09/21/04	429.99	30.31	31.44	399.68	398.55	1.13	399.42
MP-53 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.59	NA	DRY	NA	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-53 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.60	NA	DRY	NA	--	0.00	--
MP-53 C	07/29/04	--	28.50	30.93	--	--	2.43	--
	08/03/04	--	28.83	30.94	--	--	2.11	--
	08/11/04	--	29.24	30.99	--	--	1.75	--
	08/18/04	--	29.75	31.37	--	--	1.62	--
	08/25/04	--	30.27	31.71	--	--	1.44	--
	09/02/04	--	29.60	29.61	--	--	0.01	--
	09/21/04	430.64	30.74	32.42	399.90	398.22	1.68	399.51
MP-54 A	07/29/04	--	--	--	--	--	--	--
	08/03/04	--	NA	DRY	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/27/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.00	NA	DRY	NA	--	0.00	--
MP-54 B	07/29/04	--	--	--	--	--	--	--
	08/03/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-54 B	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/27/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.99	NA	DRY	NA	--	0.00	--
MP-54 C	08/03/04	--	NA	28.81	--	--	0.00	--
	08/11/04	--	NA	29.11	--	--	0.00	--
	08/18/04	--	NA	29.55	--	--	0.00	--
	08/25/04	--	29.62	31.28	--	--	1.66	--
	09/02/04	--	28.80	30.20	--	--	1.40	--
	09/21/04	430.06	30.15	31.86	399.91	398.20	1.71	399.52
MP-55 A	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	16.87	--	--	0.00	--
	08/11/04	--	NA	16.88	--	--	0.00	--
	08/18/04	--	NA	16.86	--	--	0.00	--
	08/25/04	--	NA	16.85	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.65	NA	16.86	NA	412.79	0.00	412.79
MP-55 B	07/29/04	--	NA	DRY	--	--	0.00	--
	08/03/04	--	NA	23.79	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-55 B	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.64	NA	DRY	NA	--	0.00	--
MP-55 C	07/29/04	--	27.20	30.97	--	--	3.77	--
	08/03/04	--	27.51	31.09	--	--	3.58	--
	08/11/04	--	27.85	31.32	--	--	3.47	--
	08/18/04	--	28.12	32.17	--	--	4.05	--
	08/25/04	--	28.58	32.58	--	--	4.00	--
	09/02/04	--	28.50	29.44	--	--	0.94	--
	09/21/04	429.67	29.11	32.98	400.56	396.69	3.87	399.67
MP-56 A	08/03/04	--	NA	10.60	--	--	0.00	--
	08/11/04	--	NA	10.56	--	--	0.00	--
	08/18/04	--	NA	10.55	--	--	0.00	--
	08/25/04	--	NA	10.55	--	--	0.00	--
	09/02/04	--	NA	10.60	--	--	0.00	--
	09/21/04	430.25	NA	DRY	NA	--	0.00	--
MP-56 B	08/03/04	--	NA	25.71	--	--	0.00	--
	08/11/04	--	NA	26.04	--	--	0.00	--
	08/18/04	--	26.18	26.22	--	--	0.04	--
	08/25/04	--	26.76	26.80	--	--	0.04	--
	09/02/04	--	26.97	26.98	--	--	0.01	--
	09/21/04	430.25	NA	DRY	NA	--	0.00	--
MP-56 C	08/03/04	--	NA	28.72	--	--	0.00	--
	08/11/04	--	NA	28.72	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-56 C	08/18/04	--	29.39	29.79	--	--	0.40	--
	08/25/04	--	29.81	30.36	--	--	0.55	--
	09/02/04	--	29.00	29.01	--	--	0.01	--
	09/21/04	430.15	30.31	31.02	399.84	399.13	0.71	399.68
MP-57 A	08/03/04	--	NA	14.65	--	--	0.00	--
	08/11/04	--	NA	14.67	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	14.68	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.05	NA	DRY	NA	--	0.00	--
MP-57 B	08/03/04	--	NA	24.25	--	--	0.00	--
	08/11/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.04	NA	DRY	NA	--	0.00	--
MP-57 C	08/11/04	--	NA	27.93	--	--	0.00	--
	08/18/04	--	NA	28.37	--	--	0.00	--
	08/25/04	--	NA	28.84	--	--	0.00	--
	09/02/04	--	NA	28.13	--	--	0.00	--
	09/21/04	428.99	NA	29.37	NA	399.62	0.00	399.62
MP-58 A	08/12/04	--	NA	9.70	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-58 A	08/25/04	--	NA	9.72	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	430.29	NA	9.86	NA	420.43	0.00	420.43
MP-58 B	08/12/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04		NA	DRY	--	--	0.00	--
	09/21/04	430.29	NA	DRY	NA	--	0.00	--
MP-58 C	08/12/04	--	NA	28.85	--	--	0.00	--
	08/18/04	--	NA	29.27	--	--	0.00	--
	08/25/04	--	NA	29.80	--	--	0.00	--
	09/02/04	--	NA	29.13	--	--	0.00	--
	09/21/04	430.33	NA	30.30	NA	400.03	0.00	400.03
MP-59 A	08/18/04	--	NA	8.75	--	--	0.00	--
	08/25/04	--	NA	8.66	--	--	0.00	--
	09/02/04	--	NA	8.66	--	--	0.00	--
	09/21/04	429.97	NA	8.62	NA	421.35	0.00	421.35
MP-59 B	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.88	NA	DRY	NA	--	0.00	--
MP-59 C	08/18/04	--	NA	28.81	--	--	0.00	--
	08/25/04	--	29.33	29.34	--	--	0.01	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-59 C	09/02/04	--	NA	28.51	--	--	0.00	--
	09/21/04	429.90	29.86	29.91	400.04	399.99	0.05	400.03
MP-60 A	08/12/04	--	NA	9.62	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	9.64	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.21	NA	9.68	NA	419.53	0.00	419.53
MP-60 B	08/12/04	--	NA	DRY	--	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/25/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.20	NA	DRY	NA	--	0.00	--
MP-60 C	08/12/04	--	NA	27.88	--	--	0.00	--
	08/18/04	--	NA	28.37	--	--	0.00	--
	08/25/04	--	28.73	28.74	--	--	0.01	--
	09/02/04	--	NA	28.08	--	--	0.00	--
	09/21/04	429.21	NA	29.25	NA	399.96	0.00	399.96
MP-61 A	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	10.11	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.98	NA	10.11	NA	419.87	0.00	419.87
MP-61 B	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-61 B	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.88	NA	DRY	NA	--	0.00	--
MP-61 C	08/18/04	--	NA	27.95	--	--	0.00	--
	08/26/04	--	NA	28.58	--	--	0.00	--
	09/02/04	--	NA	28.38	--	--	0.00	--
	09/21/04	430.00	NA	29.15	NA	400.85	0.00	400.85
MP-62 A	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.11	NA	DRY	NA	--	0.00	--
MP-62 B	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.11	NA	DRY	NA	--	0.00	--
MP-62 C	08/18/04	--	NA	27.44	--	--	0.00	--
	08/26/04	--	NA	28.03	--	--	0.00	--
	09/02/04	--	NA	27.40	--	--	0.00	--
	09/21/04	428.94	NA	28.49	NA	400.45	0.00	400.45
MP-63 A	08/11/04	--	--	DRY	--	--	--	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	9.66	--	--	0.00	--
	09/02/04	--	NA	9.66	--	--	0.00	--
	09/21/04	429.26	NA	9.56	NA	419.70	0.00	419.70

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-63 B	08/11/04	--	NA	DRY	--	--	--	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	429.26	NA	DRY	NA	--	0.00	--
MP-63 C	08/11/04	--	NA	27.40	--	--	--	--
	08/18/04	--	NA	27.83	--	--	0.00	--
	08/26/04	--	NA	28.42	--	--	0.00	--
	09/02/04	--	NA	27.88	--	--	0.00	--
	09/21/04	429.29	NA	28.88	NA	400.41	0.00	400.41
MP-64 A	08/12/04	--	NA	8.96	--	--	--	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	8.78	--	--	0.00	--
	09/02/04	--	NA	8.72	--	--	0.00	--
	09/21/04	428.73	NA	8.63	NA	420.10	0.00	420.10
MP-64 B	08/12/04	--	NA	DRY	NA	--	0.00	--
	08/18/04	--	NA	DRY	--	--	0.00	--
	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	428.74	NA	DRY	NA	--	0.00	--
MP-64 C	08/12/04	--	NA	26.88	--	--	0.00	--
	08/18/04	--	NA	27.22	--	--	0.00	--
	08/26/04	--	27.77	27.78	--	--	0.01	--

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-64 C	09/02/04	--	NA	27.29	--	--	0.00	--
	09/21/04	428.69	NA	28.25	NA	400.44	0.00	400.44
MP-65 A	08/26/04	--	NA	16.28	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	0.00	--
	09/21/04	431.41	NA	DRY	NA	--	0.00	--
MP-65 B	08/26/04	--	NA	DRY	--	--	--	--
	09/02/04	--	NA	DRY	--	--	--	--
	09/21/04	431.44	NA	DRY	NA	--	0.00	--
MP-65 C	08/26/04	--	NA	30.08	--	--	0.00	--
	09/02/04	--	NA	29.19	--	--	0.00	--
	09/21/04	431.54	NA	30.58	NA	400.96	0.00	400.96
MP-66 A	08/26/04	--	14.22	14.23	--	--	0.01	--
	09/02/04	--	NA	DRY	--	--	--	--
	09/21/04	430.81	NA	DRY	NA	--	0.00	--
MP-66 B	08/26/04	--	NA	25.17	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	--	--
	09/21/04	430.82	NA	DRY	NA	--	0.00	--
MP-66 C	08/26/04	--	NA	28.71	--	--	0.00	--
	09/02/04	--	NA	28.51	--	--	--	--
	09/21/04	430.79	NA	29.29	NA	401.50	0.00	401.50
MP-67 A	08/26/04	--	NA		--	--	0.00	--
	09/02/04	--	NA	9.48	--	--	--	--
	09/21/04	430.29	NA	9.54	NA	420.75	0.00	420.75

TABLE F-1
2004 Groundwater Elevations/Apparent Product Thickness
Village of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-67 B	08/26/04	--	NA	DRY	--	--	0.00	--
	09/02/04	--	NA	DRY	--	--	--	--
	09/21/04	430.31	NA	DRY	NA	--	0.00	--
MP-67 C	08/26/04	--	NA	28.93	--	--	--	--
	09/02/04	--	NA	28.53	--	--	--	--
	09/21/04	430.19	NA	29.49	NA	400.70	0.00	400.70

NOTES:

NA = Not Applicable * = Well contains product recovery pump ** = Depth to water anomaly

-- = No data *** = Well contains air monitoring equipment

SG = Specific gravity of hydrocarbon determined to be an average of 0.77 in the Village for data recorded during and after 09/03.

[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]

[2] HB-07 is obstructed at approximately 9 ft below top of casing (TOC); HB-27 is obstructed at approximately 14 ft below TOC.

[3] Located on private property. Access requires permission of owner; therefore, data may not be available for all gauging events.

[4] MiniTROLL (automatic well gauging probe) installed in HMW-27 (by ENSR in 2/04) was used to obtain gauging data on this date.

[5] MiniTROLL (automatic well gauging probe) installed in HMW-27 (by Clayton in 7/04) was used to obtain gauging data on this date.

MP-5 through 28 installed as vacuum monitoring probes by Clayton in 7/03 and are not appropriate for determining groundwater flow.

HMW-25 through HMW-29 installed by Clayton in 12/03.

HMW-30 through 33 and RW-4 installed as pilot test wells by Clayton in 3/04 and are not appropriate for determining groundwater flow.

Remaining wells installed by others.

TOC elevations surveyed to USGS datum by CMT.

All gauging data between 2/3/04 and 4/1/04 (obtained as part of product recovery tests conducted at RW-2 & RW-3) do not present static conditions.

Clayton
GROUP SERVICES

APPENDIX F-2

GROUNDWATER ELEVATIONS/APPARENT PRODUCT THICKNESS – WELLS OUTSIDE OF HARTFORD, ILLINOIS 2004

TABLE F-2
2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
P-47	01/27/04	428.20	NA	33.53	NA	394.67	0.00	394.67
	04/20/04	428.20	NA	31.90	NA	396.30	0.00	396.30
P-51	01/27/04	426.62	NA	32.25	NA	394.37	0.00	394.37
	04/20/04	426.62	NA	30.57	NA	396.05	0.00	396.05
P-76	01/28/04	433.28	NA	34.54	NA	398.74	0.00	398.74
	04/22/04	433.28	NA	30.24	NA	403.04	0.00	403.04
	07/13/04	433.28	NA	25.57	NA	407.71	0.00	407.71
P-77	01/28/04	434.57	NA	37.61	NA	396.96	0.00	396.96
	04/22/04	434.57	NA	35.83	NA	398.74	0.00	398.74
	07/13/04	434.57	NA	33.00	NA	401.57	0.00	401.57
P-78	01/28/04	433.29	NA	36.08	NA	397.21	0.00	397.21
	04/22/04	433.29	NA	34.24	NA	399.05	0.00	399.05
	07/13/04	433.29	NA	31.75	NA	401.54	0.00	401.54
P-79	01/28/04	432.65	NA	35.44	NA	397.21	0.00	397.21
	04/22/04	432.65	NA	33.69	NA	398.96	0.00	398.96
	07/13/04	432.65	--	--	--	--	--	--
P-80	01/28/04	433.04	NA	35.32	NA	397.72	0.00	397.72
	04/22/04	433.04	NA	33.59	NA	399.45	0.00	399.45
	07/13/04	433.04	NA	30.82	NA	402.22	0.00	402.22
P-81	01/28/04	433.20	NA	34.22	NA	398.98	0.00	398.98
	04/22/04	433.20	NA	32.42	NA	400.78	0.00	400.78
	07/13/04	433.20	NA	29.58	NA	403.62	0.00	403.62
P-104	01/28/04	432.67	NA	14.51	NA	418.16	0.00	418.16
	04/22/04	432.67	NA	13.68	NA	418.99	0.00	418.99
	07/13/04	432.67	NA	11.99	NA	420.68	0.00	420.68
P-105	01/28/04	432.54	NA	31.24	NA	401.30	0.00	401.30
	04/22/04	432.54	NA	30.23	NA	402.31	0.00	402.31
	07/13/04	432.54	NA	27.65	NA	404.89	0.00	404.89

TABLE F-2
2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
P-106	01/28/04	432.64	NA	35.31	NA	397.33	0.00	397.33
	04/22/04	432.64	NA	33.44	NA	399.20	0.00	399.20
	07/13/04	432.64	NA	30.55	NA	402.09	0.00	402.09
P-107	01/28/04	431.83	NA	29.12	NA	402.71	0.00	402.71
	04/22/04	431.83	NA	27.82	NA	404.01	0.00	404.01
	07/13/04	431.83	NA	24.47	NA	407.36	0.00	407.36
P-129	01/28/04	433.23	NA	34.32	NA	398.91	0.00	398.91
	07/13/04	433.23	--	--	--	--	--	--
P-130	01/28/04	431.67	--	--	--	--	--	--
	07/13/04	431.67	NA	11.3	NA	420.37	0.00	420.37
P-131	01/28/04	432.54	NA	11.38	NA	421.16	0.00	421.16
	04/22/04	432.54	NA	12.69	NA	419.85	0.00	419.85
	07/13/04	432.54	NA	10.01	NA	422.53	0.00	422.53
P-132	01/28/04	432.08	NA	28.53	NA	403.55	0.00	403.55
	04/22/04	432.08	NA	27.57	NA	404.51	0.00	404.51
	07/13/04	432.08	NA	23.95	NA	408.13	0.00	408.13
P-133	01/28/04	430.94	NA	13.57	NA	417.37	0.00	417.37
	04/22/04	430.94	NA	18.18	NA	412.76	0.00	412.76
	07/13/04	430.94	NA	13.95	NA	416.99	0.00	416.99
P-134	01/28/04	432.46	NA	11.86	NA	420.60	0.00	420.60
	04/22/04	432.46	NA	12.63	NA	419.83	0.00	419.83
	07/13/04	432.46	NA	10.62	NA	421.84	0.00	421.84
SP-1	01/28/04	429.00	--	--	--	--	--	--
	04/22/04	429.00	NA	10.53	NA	418.47	0.00	418.47
	07/13/04	429.00	NA	7.41	NA	421.59	0.00	421.59
SP-2B	01/28/04	429.10	NA	26.66	NA	402.44	0.00	402.44
	04/22/04	429.10	NA	25.76	NA	403.34	0.00	403.34
	07/13/04	429.10	NA	21.58	NA	407.52	0.00	407.52

TABLE F-2
2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-3	01/28/04	--	NA	9.91	NA	--	0.00	--
	04/22/04	--	NA	12.87	NA	--	0.00	--
	07/13/04	--	NA	10.23	NA	--	0.00	--
SP-5	01/28/04	431.22	NA	10.01	NA	421.21	0.00	421.21
	04/22/04	431.22	NA	12.66	NA	418.56	0.00	418.56
	07/13/04	431.22	NA	8.59	NA	422.63	0.00	422.63
SP-6	01/28/04	433.03	NA	10.56	NA	422.47	0.00	422.47
	04/22/04	433.03	NA	12.62	NA	420.41	0.00	420.41
	07/13/04	433.03	NA	10.54	NA	422.49	0.00	422.49
SP-7	01/28/04	428.99	NA	8.47	NA	420.52	0.00	420.52
	04/22/04	428.99	NA	10.16	NA	418.83	0.00	418.83
	07/13/04	428.99	NA	7.00	NA	421.99	0.00	421.99
SP-8	01/28/04	429.03	NA	8.28	NA	420.75	0.00	420.75
	04/22/04	429.03	NA	9.52	NA	419.51	0.00	419.51
	07/13/04	429.03	NA	6.8	NA	422.23	0.00	422.23
SP-9	01/28/04	432.62	NA	10.62	NA	422.00	0.00	422.00
	04/22/04	432.62	NA	11.88	NA	420.74	0.00	420.74
	07/13/04	432.62	NA	9.95	NA	422.67	0.00	422.67
SP-10	01/28/04	432.59	NA	10.75	NA	421.84	0.00	421.84
	04/22/04	432.59	NA	11.56	NA	421.03	0.00	421.03
	07/13/04	432.59	NA	9.40	NA	423.19	0.00	423.19
SP-11	01/28/04	432.41	NA	10.27	NA	422.14	0.00	422.14
	04/22/04	432.41	NA	12.58	NA	419.83	0.00	419.83
	07/13/04	432.41	NA	10.27	NA	422.14	0.00	422.14
SP-12	01/28/04	432.35	NA	29.61	NA	402.74	0.00	402.74
	04/22/04	432.35	NA	28.68	NA	403.67	0.00	403.67
	07/13/04	432.35	NA	24.76	NA	407.59	0.00	407.59

TABLE F-2
2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-13	01/28/04	432.48	NA	33.82	NA	398.66	0.00	398.66
	04/22/04	432.48	NA	33.16	NA	399.32	0.00	399.32
	07/13/04	432.48	NA	30.13	NA	402.35	0.00	402.35
SP-14	01/28/04	428.92	NA	28.51	NA	400.41	0.00	400.41
	04/22/04	428.92	NA	27.02	NA	401.90	0.00	401.90
	07/13/04	428.92	--	--	--	--	--	--
SP-15	01/28/04	428.69	NA	9.18	NA	419.51	0.00	419.51
	04/22/04	428.69	NA	10.87	NA	417.82	0.00	417.82
	07/13/04	428.69	NA	7.01	NA	421.68	0.00	421.68
SP-16	01/28/04	429.38	NA	8.91	NA	420.47	0.00	420.47
	04/22/04	429.38	NA	11.24	NA	418.14	0.00	418.14
	07/13/04	429.38	NA	7.5	NA	421.88	0.00	421.88
SP-17	01/28/04	428.19	NA	9.06	NA	419.13	0.00	419.13
	04/22/04	428.19	NA	9.72	NA	418.47	0.00	418.47
	07/13/04	428.19	NA	6.43	NA	421.76	0.00	421.76
SP-18	01/28/04	431.07	NA	31.43	NA	399.64	0.00	399.64
	04/22/04	431.07	NA	30.27	NA	400.80	0.00	400.80
	07/13/04	431.07	NA	26.53	NA	404.54	0.00	404.54
SP-19	01/28/04	430.89	NA	13.95	NA	416.94	0.00	416.94
	04/22/04	430.89	NA	15.8	NA	415.09	0.00	415.09
	07/13/04	430.89	NA	10.7	NA	420.19	0.00	420.19
SP-20	01/28/04	431.10	NA	12.42	NA	418.68	0.00	418.68
	04/22/04	431.10	NA	15.32	NA	415.78	0.00	415.78
	07/13/04	431.10	NA	9.79	NA	421.31	0.00	421.31
SP-21	01/28/04	431.65	NA	14.38	NA	417.27	0.00	417.27
	04/22/04	431.65	NA	17.22	NA	414.43	0.00	414.43
	07/13/04	431.65	NA	10.86	NA	420.79	0.00	420.79

TABLE F-2
2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-22	01/28/04	430.36	NA	9.98	NA	420.38	0.00	420.38
	04/22/04	430.36	NA	12.38	NA	417.98	0.00	417.98
	07/13/04	430.36	NA	8.31	NA	422.05	0.00	422.05
SP-23	01/28/04	430.67	NA	10.19	NA	420.48	0.00	420.48
	04/22/04	430.67	NA	13.24	NA	417.43	0.00	417.43
	07/13/04	430.67	NA	8.68	NA	421.99	0.00	421.99
SP-24	01/28/04	428.86	NA	8.29	NA	420.57	0.00	420.57
	04/22/04	428.86	NA	9.98	NA	418.88	0.00	418.88
	07/13/04	428.86	NA	23.03	NA	405.83	0.00	405.83
SP-25	01/28/04	428.61	NA	8.13	NA	420.48	0.00	420.48
	04/22/04	428.61	NA	10.14	NA	418.47	0.00	418.47
	07/13/04	428.61	NA	6.62	NA	421.99	0.00	421.99
SP-26	01/28/04	429.84	NA	9.41	NA	420.43	0.00	420.43
	04/22/04	429.84	NA	11.13	NA	418.71	0.00	418.71
	07/13/04	429.84	NA	7.89	NA	421.95	0.00	421.95
SP-27	01/28/04	431.90	NA	11.28	NA	420.62	0.00	420.62
	04/22/04	431.90	NA	13.5	NA	418.40	0.00	418.40
	07/13/04	431.90	NA	10.38	NA	421.52	0.00	421.52
SP-28	01/28/04	432.19	NA	10.63	NA	421.56	0.00	421.56
	04/22/04	432.19	NA	13.65	NA	418.54	0.00	418.54
	** 7/13/04	432.19	NA	11.31	NA	420.88	0.00	420.88
SP-29	01/28/04	431.78	NA	11.16	NA	420.62	0.00	420.62
	04/22/04	431.78	NA	12.44	NA	419.34	0.00	419.34
	07/13/04	431.78	NA	9.58	NA	422.20	0.00	422.20
SP-30	01/28/04	431.83	12.05	12.06	419.78	419.77	0.01	419.78
	04/22/04	431.83	NA	14.34	NA	417.49	0.00	417.49
	07/13/04	431.83	10.28	10.32	421.55	421.51	0.04	421.54

TABLE F-2
2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-31	01/28/04	429.77	NA	10.19	NA	419.58	0.00	419.58
	04/22/04	429.77	NA	11.22	NA	418.55	0.00	418.55
	07/13/04	429.77	NA	7.85	NA	421.92	0.00	421.92
SP-32	01/28/04	430.42	NA	10.84	NA	419.58	0.00	419.58
	04/22/04	430.42	NA	12.43	NA	417.99	0.00	417.99
	07/13/04	430.42	NA	8.67	NA	421.75	0.00	421.75
SP-33	01/28/04	430.95	NA	10.52	NA	420.43	0.00	420.43
	04/22/04	430.95	NA	12.85	NA	418.10	0.00	418.10
	07/13/04	430.95	NA	9.16	NA	421.79	0.00	421.79
SP-34	01/28/04	430.12	NA	10.95	NA	419.17	0.00	419.17
	04/22/04	430.12	NA	11.46	NA	418.66	0.00	418.66
	07/13/04	430.12	NA	8.30	NA	421.82	0.00	421.82
SP-35	01/28/04	431.13	NA	10.70	NA	420.43	0.00	420.43
	04/22/04	431.13	NA	12.42	NA	418.71	0.00	418.71
	07/13/04	431.13	NA	9.16	NA	421.97	0.00	421.97
SP-36	01/28/04	429.41	NA	32.50	NA	396.91	0.00	396.91
	04/22/04	429.41	NA	31.02	NA	398.39	0.00	398.39
	07/13/04	429.41	NA	28.19	NA	401.22	0.00	401.22
SP-37	01/28/04	429.58	NA	24.12	NA	405.46	0.00	405.46
	04/22/04	429.58	NA	25.61	NA	403.97	0.00	403.97
	07/13/04	429.58	NA	19.26	NA	410.32	0.00	410.32
SP-38	01/28/04	430.84	NA	19.38	NA	411.46	0.00	411.46
	04/22/04	430.84	NA	19.96	NA	410.88	0.00	410.88
	07/13/04	430.84	NA	15.47	NA	415.37	0.00	415.37
SP-39	01/28/04	431.92	NA	11.88	NA	420.04	0.00	420.04
	04/22/04	431.92	NA	16.19	NA	415.73	0.00	415.73
	07/13/04	431.92	NA	9.64	NA	422.28	0.00	422.28

TABLE F-2
2004 Groundwater Elevations/Apparent Product Thickness
Wells (P and SP-series) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-40	01/28/04	431.78	NA	28.60	NA	403.18	0.00	403.18
	04/22/04	431.78	NA	28.80	NA	402.98	0.00	402.98
	07/13/04	431.78	NA	23.53	NA	408.25	0.00	408.25
SP-41	01/28/04	431.45	NA	35.33	NA	396.12	0.00	396.12
	04/22/04	431.45	NA	33.97	NA	397.48	0.00	397.48
	07/13/04	431.45	NA	30.60	NA	400.85	0.00	400.85
SP-42	01/28/04	431.71	NA	35.42	NA	396.29	0.00	396.29
	04/22/04	431.71	NA	33.87	NA	397.84	0.00	397.84
	07/13/04	431.71	NA	30.47	NA	401.24	0.00	401.24
SP-43	01/28/04	431.74	NA	29.61	NA	402.13	0.00	402.13
	04/22/04	431.74	NA	27.72	NA	404.02	0.00	404.02
	07/13/04	431.74	NA	21.00	NA	410.74	0.00	410.74
SP-44	01/28/04	431.83	NA	14.11	NA	417.72	0.00	417.72
	04/22/04	431.83	NA	17.20	NA	414.63	0.00	414.63
	** 7/13/04	431.83	10.38	10.61	421.45	421.22	0.23 [2]	421.39

NOTES:

NA = Not Applicable
-- = No data
** = Depth to water anomaly
SG = Specific gravity of hydrocarbon assumed to be 0.74 by others.
[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]
[2] Followup checking found that this reading was in error. There was no FPH detected in this well.
Well SP-4 no longer exists.
TOC elevations (except for SP-42, SP-43, & SP-44) have been rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 7/01 by CMT, Inc.) was completed in 1/04 by CMT. TOC elevations for SP-42, SP-43, and SP-44 were surveyed to USGS datum in 12/03 by CMT.

APPENDIX F-3

GROUNDWATER ELEVATIONS/APPARENT PRODUCT THICKNESS – PREMCOR FACILITY, 2004

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-1	01/27/04	430.22	NA	31.13	NA	399.09	0	399.09
	04/20/04	430.22	NA	29.29	NA	400.93	0	400.93
	05/27/04	430.22	--	--	--	--	--	--
	06/03/04	430.22	--	--	--	--	--	--
	06/10/04	430.22	--	--	--	--	--	--
	06/17/04	430.22	NA	27.84	NA	402.38	0	402.38
	06/23/04	430.22	27.12	27.13	403.1	403.09	0.01	403.10
	06/30/04	430.22	--	--	--	--	--	--
	07/08/04	430.22	NA	26.84	NA	403.38	0	403.38
	07/13/04	430.22	NA	27.00	NA	403.22	0	403.22
	07/20/04	430.22	NA	27.59	NA	402.63	0	402.63
	07/28/04	430.22	NA	28.32	NA	401.90	0	401.90
	08/03/04	430.22	NA	28.21	NA	402.01	0	402.01
	08/11/04	430.22	NA	28.34	NA	401.88	0	401.88
	08/17/04	430.22	NA	28.67	NA	401.55	0	401.55
	08/27/04	430.22	NA	29.38	NA	400.84	0	400.84
	09/02/04	430.22	NA	29.15	NA	401.07	0	401.07
	09/21/04	430.22	NA	29.92	NA	400.30	0	400.30
TH2-88 @P7 Well	01/27/04	--	NA	31.04	NA	--	--	--
	04/20/04	--	NA	29.84	NA	--	--	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	NA	29.89	NA	--	--	--
	06/10/04	--	NA	29.54	NA	--	--	--
	06/17/04	--	NA	29.04	NA	--	--	--
	06/23/04	--	NA	28.77	NA	--	--	--
	06/30/04	--	NA	28.44	NA	--	--	--
	07/08/04	--	--	--	--	--	--	--
	07/14/04	--	NA	28.28	NA	--	--	--
	07/20/04	--	NA	28.32	NA	--	--	--
	07/28/04	--	NA	28.69	NA	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
TH2-88 @P7 Well	08/03/04	--	NA	28.84	NA	--	--	--
	08/11/04	--	NA	29.10	NA	--	--	--
	08/18/04	--	NA	29.47	NA	--	--	--
	08/27/04	--	NA	29.74	NA	--	0	--
	09/02/04	--	NA	28.99	NA	--	0	--
	09/21/04	--	NA	30.06	NA	--	0	--
RB-08P	01/28/04	433.43	23.89	23.90	409.54	409.53	0.01	409.54
	04/20/04	433.43	23.64	23.65	409.79	409.78	0.01	409.79
	05/27/04	433.43	--	--	--	--	--	--
	06/03/04	433.43	--	--	--	--	--	--
	06/10/04	433.43	--	--	--	--	--	--
	06/17/04	433.43	--	--	--	--	--	--
	06/23/04	433.43	28.70	29.27	404.73	404.16	0.57	404.60
	06/30/04	433.43	NA	22.65	NA	410.78	0	410.78
	07/08/04	433.43	--	--	--	--	--	--
	07/14/04	433.43	NA	22.41	NA	411.02	0	411.02
	07/20/04	433.43	--	--	--	--	--	--
	07/28/04	433.43	--	--	--	--	--	--
	08/03/04	433.43	--	--	--	--	--	--
	08/11/04	433.43	NA	23.12	NA	410.31	0	410.31
	08/18/04	433.43	30.27	30.71	403.16	402.72	0.44	403.06
	08/27/04	433.43	30.75	31.08	402.68	402.35	0.33	402.61
	09/02/04	433.43	30.45	31.02	402.98	402.41	0.57	402.85
	09/21/04	433.43	31.26	31.64	402.17	401.79	0.38	402.09
RB-08 Recovery Well	01/28/04	--	32.51	33.32	--	--	0.81	--
	04/20/04	--	30.84	31.16	--	--	0.32	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-08 Recovery Well	06/23/04	--	22.53	22.54	--	--	0.01	--
	06/30/04	--	28.55	29.27	--	--	0.72	--
	07/08/04	--	--	--	--	--	--	--
	07/14/04	--	28.89	29.38	--	--	0.49	--
	07/20/04	--	--	--	--	--	--	--
	07/28/04	--	--	--	--	--	--	--
	08/03/04	--	--	--	--	--	--	--
	08/11/04	--	29.90	30.40	--	--	0.5	--
	08/18/04	--	NA	23.52	--	--	0	--
	08/27/04	--	NA	23.56	--	--	0	--
	09/02/04	--	NA	23.58	--	--	0	--
	09/21/04	--	NA	23.98	--	--	0	--
RB-10*	01/28/04	430.03	31.02	31.25	399.01	398.78	0.23	398.96
	04/21/04	430.03	29.97	30.24	400.06	399.79	0.27	400.00
	05/27/04	430.03	--	--	--	--	--	--
	06/03/04	430.03	--	--	--	--	--	--
	06/10/04	430.03	--	--	--	--	--	--
	06/17/04	430.03	--	--	--	--	--	--
	06/23/04	430.03	--	--	--	--	--	--
	06/30/04	430.03	27.64	29.45	402.39	400.58	1.81	401.99
	07/08/04	430.03	--	--	--	--	--	--
	07/14/04	430.03	--	--	--	--	--	--
	07/20/04	430.03	--	--	--	--	--	--
	07/28/04	430.03	--	--	--	--	--	--
	08/03/04	430.03	--	--	--	--	--	--
	08/11/04	430.03	--	--	--	--	--	--
	08/19/04	430.03	--	--	--	--	--	--
	08/27/04	430.03	--	--	--	--	--	--
	09/02/04	430.03	--	--	--	--	--	--
	09/21/04	430.03	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-13	01/27/04	--	NA	30.52	NA	--	0	--
	04/21/04	--	NA	29.20	NA	--	0	--
	05/27/04	--	NA	29.34	NA	--	0	--
	06/03/04	--	NA	29.69	NA	--	0	--
	06/10/04	--	NA	28.82	NA	--	0	--
	06/17/04	--	NA	28.47	NA	--	0	--
	06/23/04	--	NA	28.08	NA	--	0	--
	06/30/04	--	NA	27.58	NA	--	0	--
	07/08/04	--	NA	27.11	NA	--	0	--
	07/14/04	--	NA	27.13	NA	--	0	--
	07/20/04	--	--	--	--	--	--	--
	07/28/04	--	NA	27.62	NA	--	0	--
	08/03/04	--	NA	27.67	NA	--	0	--
	08/11/04	--	NA	28.07	NA	--	0	--
	08/18/04	--	NA	28.08	NA	--	0	--
	08/27/04	--	NA	28.75	NA	--	0	--
	09/02/04	--	NA	28.95	NA	--	0	--
	09/21/04	--	NA	29.38	NA	--	0	--
RB-22	01/28/04	431.01	NA	31.02	NA	399.99	0	399.99
	04/21/04	431.01	NA	29.86	NA	401.15	0	401.15
	05/27/04	431.01	NA	30.22	NA	400.79	0	400.79
	06/03/04	431.01	NA	29.60	NA	401.41	0	401.41
	06/10/04	431.01	28.91	28.92	402.1	402.09	0.01	402.10
	06/17/04	431.01	--	--	--	--	--	--
	06/23/04	431.01	NA	28.15	NA	402.86	0	402.86
	06/30/04	431.01	NA	27.78	NA	403.23	0	403.23
	07/08/04	431.01	--	--	--	--	--	--
	07/14/04	431.01	NA	27.57	NA	403.44	0	403.44
	07/21/04	431.01	27.55	27.70	403.46	403.31	0.15	403.43
	07/29/04	431.01	NA	28.09	NA	402.92	0	402.92

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-22	08/04/04	431.01	NA	28.51	NA	402.50	0	402.50
	08/11/04	431.01	NA	28.78	NA	402.23	0	402.23
	08/19/04	431.01	NA	29.18	NA	401.83	0	401.83
	08/27/04	431.01	NA	29.50	NA	401.51	0	401.51
	09/02/04	431.01	NA	29.37	NA	401.64	0	401.64
	09/22/04	431.01	NA	29.92	NA	401.09	0	401.09
RB-25	01/27/04	432.11	NA	31.84	NA	400.27	0	400.27
	04/20/04	432.11	NA	31.95	NA	400.16	0	400.16
	05/27/04	432.11	32.10	32.11	400.01	400.00	0.01	400.01
	06/03/04	432.11	NA	31.44	NA	400.67	0	400.67
	06/10/04	432.11	30.48	30.49	401.63	401.62	0.01	401.63
	06/17/04	432.11	NA	30.50	NA	401.61	0	401.61
	06/23/04	432.11	NA	29.79	NA	402.32	0	402.32
	06/30/04	432.11	NA	29.50	NA	402.61	0	402.61
	07/08/04	432.11	NA	29.89	NA	402.22	0	402.22
	07/14/03	432.11	NA	30.15	NA	401.96	0	401.96
	07/20/04	432.11	NA	30.31	NA	401.80	0	401.80
	07/28/04	432.11	NA	30.85	NA	401.26	0	401.26
	08/03/04	432.11	NA	30.85	NA	401.26	0	401.26
	08/11/04	432.11	NA	31.16	NA	400.95	0	400.95
	08/17/04	432.11	NA	31.39	NA	400.72	0	400.72
	08/27/04	432.11	NA	32.02	NA	400.09	0	400.09
	09/02/04	432.11	NA	31.44	NA	400.67	0	400.67
	09/21/04	432.11	NA	32.31	NA	399.80	0	399.80
RB-26	01/27/04	430.03	NA	31.41	NA	398.62	0	398.62
	04/20/04	430.03	NA	29.73	NA	400.30	0	400.30
	05/27/04	430.03	NA	30.40	NA	399.63	0	399.63
	06/03/04	430.03	NA	29.61	NA	400.42	0	400.42
	06/10/04	430.03	NA	28.69	NA	401.34	0	401.34
	06/17/04	430.03	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-26	06/23/04	430.03	NA	28.10	NA	401.93	0	401.93
	06/30/04	430.03	NA	27.77	NA	402.26	0	402.26
	07/08/04	430.03	27.97	27.97	402.06	402.06	0	402.06
	07/14/04	430.03	NA	28.20	NA	401.83	0	401.83
	07/20/04	430.03	NA	28.33	NA	401.70	0	401.70
	07/28/04	430.03	NA	28.84	NA	401.19	0	401.19
	08/03/04	430.03	NA	28.81	NA	401.22	0	401.22
	08/11/04	430.03	NA	29.11	NA	400.92	0	400.92
	08/18/04	430.03	NA	29.53	NA	400.50	0	400.50
	08/27/04	430.03	NA	29.91	NA	400.12	0	400.12
	09/02/04	430.03	NA	29.45	NA	400.58	0	400.58
	09/21/04	430.03	NA	30.20	NA	399.83	0	399.83
RB-29	01/28/04	431.89	13.70	13.88	418.19	418.01	0.18	418.15
	04/20/04	431.89	13.61	13.74	418.28	418.15	0.13	418.25
	05/27/04	431.89	--	--	--	--	--	--
	06/03/04	431.89	--	--	--	--	--	--
	06/10/04	431.89	--	--	--	--	--	--
	06/17/04	431.89	12.76	12.90	419.13	418.99	0.14	419.10
	06/23/04	431.89	12.50	12.61	419.39	419.28	0.11	419.37
	06/30/04	431.89	NA	12.17	NA	419.72	0	419.72
	07/08/04	431.89	12.43	12.62	419.46	419.27	0.19	419.42
	07/14/04	431.89	12.43	12.60	419.46	419.29	0.17	419.42
	07/20/04	431.89	12.69	12.85	419.2	419.04	0.16	419.16
	**7/28/04	431.89	NA	13.22	NA	418.67	0	418.67
	08/03/04	431.89	12.78	12.94	419.11	418.95	0.16	419.07
	08/11/04	431.89	12.69	12.85	419.2	419.04	0.16	419.16
	08/17/04	431.89	12.81	12.97	419.08	418.92	0.16	419.04
	08/27/04	431.89	13.08	13.26	418.81	418.63	0.18	418.77
	09/02/04	431.89	12.97	13.11	418.92	418.78	0.14	418.89
	09/21/04	431.89	13.50	13.65	418.39	418.24	0.15	418.36

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-30	01/28/04	431.89	NA	32.30	NA	399.59	0	399.59
	04/20/04	431.89	NA	31.26	NA	400.63	0	400.63
	05/27/04	431.89	NA	31.44	NA	400.45	0	400.45
	06/03/04	431.89	NA	31.40	NA	400.49	0	400.49
	06/10/04	431.89	NA	30.76	NA	401.13	0	401.13
	06/17/04	431.89	NA	30.64	NA	401.25	0	401.25
	06/23/04	431.89	NA	30.38	NA	401.51	0	401.51
	06/30/04	431.89	NA	29.92	NA	401.97	0	401.97
	07/08/04	431.89	NA	29.93	NA	401.96	0	401.96
	07/14/04	431.89	NA	29.90	NA	401.99	0	401.99
	07/20/04	431.89	NA	29.96	NA	401.93	0	401.93
	07/28/04	431.89	NA	27.38	NA	404.51	0	404.51
	08/03/04	431.89	NA	30.34	NA	401.55	0	401.55
	08/11/04	431.89	NA	30.51	NA	401.38	0	401.38
	08/17/04	431.89	NA	30.54	NA	401.35	0	401.35
	08/27/04	431.89	NA	30.99	NA	400.90	0	400.90
	09/02/04	431.89	NA	30.93	NA	400.96	0	400.96
	09/21/04	431.89	NA	31.33	NA	400.56	0	400.56
RB-35	01/28/04	429.85	29.10	29.54	400.75	400.31	0.44	400.65
	04/21/04	429.85	27.45	28.80	402.4	401.05	1.35	402.10
	05/27/04	429.85	--	--	--	--	--	--
	06/03/04	429.85	--	--	--	--	--	--
	06/10/04	429.85	--	--	--	--	--	--
	06/17/04	429.85	--	--	--	--	--	--
	06/23/04	429.85	--	--	--	--	--	--
	06/30/04	429.85	--	--	--	--	--	--
	07/08/04	429.85	--	--	--	--	--	--
	07/14/04	429.85	--	--	--	--	--	--
	07/20/04	429.85	--	--	--	--	--	--
	07/28/04	429.85	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-35	08/03/04	429.85	--	--	--	--	--	--
	08/11/04	429.85	--	--	--	--	--	--
	08/19/04	429.85	--	--	--	--	--	--
	08/27/04	429.85	--	--	--	--	--	--
	09/02/04	429.85	--	--	--	--	--	--
	09/21/04	429.85	--	--	--	--	--	--
RB-36	01/28/04	429.16	NA	23.32	NA	405.84	0	405.84
	04/20/04	429.16	NA	21.83	NA	407.33	0	407.33
	05/27/04	429.16	--	--	--	--	--	--
	06/03/04	429.16	--	--	--	--	--	--
	06/10/04	429.16	--	--	--	--	--	--
	06/17/04	429.16	NA	21.02	NA	408.14	0	408.14
	06/23/04	429.16	NA	20.91	NA	408.25	0	408.25
	06/30/04	429.16	--	--	--	--	--	--
	07/08/04	429.16	NA	20.80	NA	408.36	0	408.36
	07/13/04	429.16	NA	20.75	NA	408.41	0	408.41
	07/20/04	429.16	NA	20.79	NA	408.37	0	408.37
	07/28/04	429.16	NA	20.97	NA	408.19	0	408.19
	08/03/04	429.16	NA	20.94	NA	408.22	0	408.22
	08/11/04	429.16	NA	21.05	NA	408.11	0	408.11
	08/17/04	429.16	NA	21.06	NA	408.10	0	408.10
	08/27/04	429.16	NA	21.14	NA	408.02	0	408.02
	09/02/04	429.16	NA	21.25	NA	407.91	0	407.91
	09/21/04	429.16	NA	21.55	NA	407.61	0	407.61
RB-37*	01/28/04	428.38	29.32	32.35	399.06	396.03	3.03	398.39
	04/20/04	428.38	27.57	32.11	400.81	396.27	4.54	399.81
	05/27/04	428.38	--	--	--	--	--	--
	06/03/04	428.38	--	--	--	--	--	--
	06/10/04	428.38	--	--	--	--	--	--
	06/17/04	428.38	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-37*	06/23/04	428.38	--	--	--	--	--	--
	06/30/04	428.38	--	--	--	--	--	--
	07/08/04	428.38	--	--	--	--	--	--
	07/13/04	428.38	--	--	--	--	--	--
	07/20/04	428.38	--	--	--	--	--	--
	07/28/04	428.38	--	--	--	--	--	--
	08/03/04	428.38	--	--	--	--	--	--
	08/11/04	428.38	--	--	--	--	--	--
	08/17/04	428.38	--	--	--	--	--	--
	08/27/04	428.38	--	--	--	--	--	--
	09/02/04	428.38	--	--	--	--	--	--
	09/21/04	428.38	--	--	--	--	--	--
RB-38	01/27/04	433.69	NA	35.02	NA	398.67	0	398.67
	04/20/04	433.69	NA	33.94	NA	399.75	0	399.75
	05/27/04	433.69	NA	34.08	NA	399.61	0	399.61
	06/03/04	433.69	NA	34.18	NA	399.51	0	399.51
	06/10/04	433.69	NA	33.55	NA	400.14	0	400.14
	06/17/04	433.69	NA	33.43	NA	400.26	0	400.26
	06/23/04	433.69	NA	33.21	NA	400.48	0	400.48
	06/30/04	433.69	NA	32.85	NA	400.84	0	400.84
	07/08/04	433.69	NA	32.79	NA	400.90	0	400.90
	**7/14/04	433.69	NA	30.70	NA	402.99	0	402.99
	07/20/04	433.69	NA	32.79	NA	400.90	0	400.90
	07/28/04	433.69	NA	33.02	NA	400.67	0	400.67
	08/03/04	433.69	NA	33.05	NA	400.64	0	400.64
	08/11/04	433.69	NA	33.22	NA	400.47	0	400.47
	08/17/04	433.69	NA	33.21	NA	400.48	0	400.48
	08/27/04	433.69	NA	33.68	NA	400.01	0	400.01
	09/02/04	433.69	NA	33.52	NA	400.17	0	400.17
	09/21/04	433.69	NA	33.89	NA	399.80	0	399.80

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-39	01/27/04	431.48	NA	26.90	NA	404.58	0	404.58
	04/20/04	431.48	NA	25.83	NA	405.65	0	405.65
	05/27/04	431.48	NA	24.46	NA	407.02	0	407.02
	06/03/04	431.48	NA	23.73	NA	407.75	0	407.75
	06/10/04	431.48	NA	23.38	NA	408.10	0	408.10
	06/17/04	431.48	NA	23.91	NA	407.57	0	407.57
	06/23/04	431.48	NA	22.51	NA	408.97	0	408.97
	06/30/04	431.48	NA	22.64	NA	408.84	0	408.84
	07/08/04	431.48	NA	22.87	NA	408.61	0	408.61
	07/14/04	431.48	NA	23.40	NA	408.08	0	408.08
	07/20/04	431.48	NA	24.11	NA	407.37	0	407.37
	07/28/04	431.48	NA	25.14	NA	406.34	0	406.34
	08/03/04	431.48	NA	25.14	NA	406.34	0	406.34
	08/11/04	431.48	NA	25.57	NA	405.91	0	405.91
	08/17/04	431.48	NA	25.91	NA	405.57	0	405.57
	08/27/04	431.48	NA	26.89	NA	404.59	0	404.59
	09/02/04	431.48	NA	26.98	NA	404.50	0	404.50
	09/21/04	431.48	NA	27.98	NA	403.50	0	403.50
RB-40	01/27/04	433.50	NA	34.12	NA	399.38	0	399.38
	04/20/04	433.50	NA	33.51	NA	399.99	0	399.99
	05/27/04	433.50	NA	33.57	NA	399.93	0	399.93
	06/03/04	433.50	NA	33.73	NA	399.77	0	399.77
	06/10/04	433.50	NA	33.30	NA	400.20	0	400.20
	06/17/04	433.50	NA	33.21	NA	400.29	0	400.29
	06/23/04	433.50	NA	33.08	NA	400.42	0	400.42
	06/30/04	433.50	NA	32.70	NA	400.80	0	400.80
	07/08/04	433.50	NA	32.68	NA	400.82	0	400.82
	07/13/04	433.50	NA	32.60	NA	400.90	0	400.90
	07/20/04	433.50	NA	32.59	NA	400.91	0	400.91
	07/28/04	433.50	NA	32.74	NA	400.76	0	400.76

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-40	08/03/04	433.50	NA	32.78	NA	400.72	0	400.72
	08/11/04	433.50	NA	32.90	NA	400.60	0	400.60
	08/17/04	433.50	NA	32.87	NA	400.63	0	400.63
	08/27/04	433.50	NA	33.22	NA	400.28	0	400.28
	09/02/04	433.50	NA	33.18	NA	400.32	0	400.32
	09/21/04	433.50	NA	33.43	NA	400.07	0	400.07
RB-41	01/27/04	433.24	NA	33.72	NA	399.52	0	399.52
	04/20/04	433.24	NA	33.34	NA	399.90	0	399.90
	05/27/04	433.24	NA	33.48	NA	399.76	0	399.76
	06/03/04	433.24	NA	33.66	NA	399.58	0	399.58
	06/10/04	433.24	NA	33.32	NA	399.92	0	399.92
	06/17/04	433.24	NA	33.30	NA	399.94	0	399.94
	06/23/04	433.24	NA	33.22	NA	400.02	0	400.02
	06/30/04	433.24	NA	32.94	NA	400.30	0	400.30
	07/08/04	433.24	NA	32.89	NA	400.35	0	400.35
	07/13/04	433.24	NA	32.75	NA	400.49	0	400.49
	07/20/04	433.24	NA	32.80	NA	400.44	0	400.44
	07/28/04	433.24	NA	32.91	NA	400.33	0	400.33
	08/03/04	433.24	NA	32.89	NA	400.35	0	400.35
	08/11/04	433.24	NA	32.99	NA	400.25	0	400.25
	08/17/04	433.24	NA	32.94	NA	400.30	0	400.30
	08/27/04	433.24	NA	33.25	NA	399.99	0	399.99
	09/02/04	433.24	NA	33.22	NA	400.02	0	400.02
	09/21/04	433.24	NA	33.40	NA	399.84	0	399.84
RB-42	01/27/04	428.45	NA	28.33	NA	400.12	0	400.12
	04/20/04	428.45	NA	28.27	NA	400.18	0	400.18
	05/27/04	428.45	NA	28.29	NA	400.16	0	400.16
	06/03/04	428.45	NA	28.52	NA	399.93	0	399.93
	06/10/04	428.45	NA	28.24	NA	400.21	0	400.21
	06/17/04	428.45	NA	28.30	NA	400.15	0	400.15

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-42	06/23/04	428.45	NA	28.21	NA	400.24	0	400.24
	06/30/04	428.45	NA	28.07	NA	400.38	0	400.38
	07/08/04	428.45	NA	28.09	NA	400.36	0	400.36
	07/13/04	428.45	NA	28.00	NA	400.45	0	400.45
	07/20/04	428.45	NA	28.02	NA	400.43	0	400.43
	07/28/04	428.45	NA	28.11	NA	400.34	0	400.34
	08/03/04	428.45	NA	28.02	NA	400.43	0	400.43
	08/11/04	428.45	NA	28.13	NA	400.32	0	400.32
	08/17/04	428.45	NA	28.10	NA	400.35	0	400.35
	08/27/04	428.45	NA	28.38	NA	400.07	0	400.07
	09/02/04	428.45	NA	28.33	NA	400.12	0	400.12
	09/21/04	428.45	NA	28.48	NA	399.97	0	399.97
RB-43	01/27/04	427.95	NA	25.54	NA	402.41	0	402.41
	04/20/04	427.95	NA	25.85	NA	402.10	0	402.10
	05/27/04	427.95	NA	25.48	NA	402.47	0	402.47
	06/03/04	427.95	NA	25.45	NA	402.50	0	402.50
	06/10/04	427.95	NA	25.36	NA	402.59	0	402.59
	06/17/04	427.95	NA	25.09	NA	402.86	0	402.86
	06/23/04	427.95	NA	25.25	NA	402.70	0	402.70
	06/30/04	427.95	NA	25.15	NA	402.80	0	402.80
	07/08/04	427.95	NA	25.17	NA	402.78	0	402.78
	07/13/04	427.95	NA	25.00	NA	402.95	0	402.95
	07/20/04	427.95	NA	25.18	NA	402.77	0	402.77
	07/28/04	427.95	NA	25.34	NA	402.61	0	402.61
	08/03/04	427.95	NA	25.18	NA	402.77	0	402.77
	08/11/04	427.95	NA	25.24	NA	402.71	0	402.71
	08/17/04	427.95	NA	25.27	NA	402.68	0	402.68
	08/27/04	427.95	NA	25.47	NA	402.48	0	402.48
	09/02/04	427.95	NA	25.46	NA	402.49	0	402.49
	09/21/04	427.95	NA	25.65	NA	402.30	0	402.30

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-44	01/27/04	432.95	NA	31.93	NA	401.02	0	401.02
	04/20/04	432.95	NA	30.95	NA	402.00	0	402.00
	05/27/04	432.95	30.54	30.55	402.41	402.40	0.01	402.41
	06/03/04	432.95	NA	30.52	NA	402.43	0	402.43
	06/10/04	432.95	NA	30.33	NA	402.62	0	402.62
	06/17/04	432.95	30.27	30.28	402.68	402.67	0.01	402.68
	06/23/04	432.95	NA	30.02	NA	402.93	0	402.93
	06/30/04	432.95	NA	29.87	NA	403.08	0	403.08
	07/08/04	432.95	NA	29.73	NA	403.22	0	403.22
	07/13/04	432.95	NA	29.60	NA	403.35	0	403.35
	07/20/04	432.95	NA	29.71	NA	403.24	0	403.24
	07/28/04	432.95	NA	29.92	NA	403.03	0	403.03
	08/03/04	432.95	NA	29.83	NA	403.12	0	403.12
	08/11/04	432.95	NA	29.97	NA	402.98	0	402.98
	08/17/04	432.95	NA	30.05	NA	402.90	0	402.90
	08/27/04	432.95	NA	30.33	NA	402.62	0	402.62
	09/02/04	432.95	NA	30.39	NA	402.56	0	402.56
	09/21/04	432.95	NA	30.63	NA	402.32	0	402.32
RB-45	01/27/04	431.92	NA	30.41	NA	401.51	0	401.51
	04/20/04	431.92	NA	30.04	NA	401.88	0	401.88
	05/27/04	431.92	29.79	29.80	402.13	402.12	0.01	402.13
	06/03/04	431.92	29.79	29.80	402.13	402.12	0.01	402.13
	06/10/04	431.92	NA	29.45	NA	402.47	0	402.47
	06/17/04	431.92	NA	29.30	NA	402.62	0	402.62
	06/23/04	431.92	NA	29.03	NA	402.89	0	402.89
	06/30/04	431.92	NA	28.82	NA	403.10	0	403.10
	07/08/04	431.92	NA	28.64	NA	403.28	0	403.28
	07/13/04	431.92	NA	28.55	NA	403.37	0	403.37
	07/20/04	431.92	NA	28.63	NA	403.29	0	403.29
	07/28/04	431.92	NA	28.86	NA	403.06	0	403.06

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-49	01/28/04	429.31	NA	2.80	NA	426.51	0	426.51
	04/21/04	429.31	NA	3.21	NA	426.10	0	426.10
	05/27/04	429.31	NA	2.35	NA	426.96	0	426.96
	06/03/04	429.31	NA	2.57	NA	426.74	0	426.74
	06/10/04	429.31	NA	2.45	NA	426.86	0	426.86
	06/17/04	429.31	--	--	--	--	--	--
	06/23/04	429.31	NA	2.41	NA	426.90	0	426.90
	06/30/04	429.31	NA	2.68	NA	426.63	0	426.63
	07/08/04	429.31	--	--	--	--	--	--
	07/14/04	429.31	NA	2.70	NA	426.61	0	426.61
	07/21/04	429.31	NA	3.05	NA	426.26	0	426.26
	07/29/04	429.31	NA	3.27	NA	426.04	0	426.04
	08/04/04	429.31	NA	2.63	NA	426.68	0	426.68
	08/11/04	429.31	NA	2.94	NA	426.37	0	426.37
	08/19/04	429.31	NA	3.26	NA	426.05	0	426.05
	08/27/04	429.31	NA	2.72	NA	426.59	0	426.59
	09/02/04	429.31	NA	3.23	NA	426.08	0	426.08
	09/22/04	429.31	NA	4.12	NA	425.19	0	425.19
RB-50	01/28/04	431.50	NA	4.80	NA	426.70	0	426.70
	04/21/04	431.50	NA	6.08	NA	425.42	0	425.42
	05/27/04	431.50	2.75	2.76	428.75	428.74	0.01	428.75
	06/03/04	431.50	NA	4.06	NA	427.44	0	427.44
	06/10/04	431.50	4.62	4.63	426.88	426.87	0.01	426.88
	06/17/04	431.50	--	--	--	--	--	--
	06/23/04	431.50	4.10	4.11	427.4	427.39	0.01	427.40
	06/30/04	431.50	NA	5.14	NA	426.36	0	426.36
	07/08/04	431.50	--	--	--	--	--	--
	07/14/04	431.50	NA	5.22	NA	426.28	0	426.28
	07/21/04	431.50	NA	6.20	NA	425.30	0	425.30
	07/29/04	431.50	NA	6.70	NA	424.80	0	424.80

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-50	08/04/04	431.50	NA	5.30	NA	426.20	0	426.20
	08/11/04	431.50	NA	5.90	NA	425.60	0	425.60
	0819/04	431.50	NA	6.69	NA	424.81	0	424.81
	08/27/04	431.50	NA	6.10	NA	425.40	0	425.40
	09/02/04	431.50	NA	6.68	NA	424.82	0	424.82
	09/22/04	431.50	NA	7.89	NA	423.61	0	423.61
RB-51	01/28/04	431.58	NA	31.01	NA	400.57	0	400.57
	04/21/04	431.58	NA	29.24	NA	402.34	0	402.34
	05/27/04	431.58	NA	28.70	NA	402.88	0	402.88
	06/03/04	431.58	NA	27.78	NA	403.80	0	403.80
	06/10/04	431.58	26.90	26.91	404.68	404.67	0.01	404.68
	06/17/04	431.58	--	--	--	--	--	--
	06/23/04	431.58	25.86	25.87	405.72	405.71	0.01	405.72
	06/30/04	431.58	NA	25.60	NA	405.98	0	405.98
	07/08/04	431.58	--	--	--	--	--	--
	07/14/04	431.58	NA	26.26	NA	405.32	0	405.32
	**7/21/2004	431.58	NA	8.81	NA	422.77	0	422.77
	07/29/04	431.58	NA	27.09	NA	404.49	0	404.49
	08/04/04	431.58	NA	27.45	NA	404.13	0	404.13
	08/11/04	431.58	NA	27.81	NA	403.77	0	403.77
	08/19/04	431.58	NA	28.32	NA	403.26	0	403.26
	08/27/04	431.58	NA	28.75	NA	402.83	0	402.83
	09/02/04	431.58	NA	28.29	NA	403.29	0	403.29
	09/22/04	431.58	NA	29.29	NA	402.29	0	402.29
RB-52*	01/28/04	432.02	NA	32.96	NA	399.06	0	399.06
	04/21/04	432.02	NA	31.26	NA	400.76	0	400.76
	05/27/04	432.02	--	--	--	--	--	--
	06/03/04	432.02	--	--	--	--	--	--
	06/10/04	432.02	--	--	--	--	--	--
	06/17/04	432.02	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-52*	06/23/04	432.02	--	--	--	--	--	--
	07/08/04	432.02	--	--	--	--	--	--
	07/14/04	432.02	--	--	--	--	--	--
	07/20/04	432.02	--	--	--	--	--	--
	07/28/04	432.02	--	--	--	--	--	--
	08/03/04	432.02	--	--	--	--	--	--
	08/11/04	432.02	--	--	--	--	--	--
	08/17/04	432.02	--	--	--	--	--	--
	08/27/04	432.02	--	--	--	--	--	--
	09/02/04	432.02	--	--	--	--	--	--
	09/21/04	432.02	--	--	--	--	--	--
RB-53*	01/28/04	433.84	34.55	34.56	399.29	399.28	0.01	399.29
	04/20/04	433.84	NA	32.37	NA	401.47	0	401.47
	05/27/04	433.84	--	--	--	--	--	--
	06/03/04	433.84	--	--	--	--	--	--
	06/10/04	433.84	--	--	--	--	--	--
	06/17/04	433.84	--	--	--	--	--	--
	06/23/04	433.84	--	--	--	--	--	--
	06/30/04	433.84	28.40	31.91	405.44	401.93	3.51	404.67
	07/08/04	433.84	--	--	--	--	--	--
	07/14/04	433.84	--	--	--	--	--	--
	07/20/04	433.84	--	--	--	--	--	--
	07/28/04	433.84	--	--	--	--	--	--
	08/03/04	433.84	--	--	--	--	--	--
	08/11/04	433.84	--	--	--	--	--	--
	08/17/04	433.84	--	--	--	--	--	--
	08/27/04	433.84	--	--	--	--	--	--
	09/02/04	433.84	31.81	32.76	402.03	401.08	0.95	401.82
	09/22/04	433.84	32.40	35.50	401.44	398.34	3.1	400.76

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-54	01/27/04	431.88	NA	20.11	NA	411.77	0	411.77
	04/20/04	431.88	NA	21.58	NA	410.30	0	410.30
	05/27/04	431.88	NA	17.54	NA	414.34	0	414.34
	06/03/04	431.88	NA	16.62	NA	415.26	0	415.26
	06/10/04	431.88	NA	17.63	NA	414.25	0	414.25
	06/17/04	431.88	NA	16.65	NA	415.23	0	415.23
	06/23/04	431.88	NA	15.17	NA	416.71	0	416.71
	06/30/04	431.88	NA	16.89	NA	414.99	0	414.99
	07/08/04	431.88	NA	15.54	NA	416.34	0	416.34
	07/14/04	431.88	NA	17.15	NA	414.73	0	414.73
	07/20/04	431.88	NA	18.33	NA	413.55	0	413.55
	07/28/04	431.88	NA	19.27	NA	412.61	0	412.61
	08/03/04	431.88	NA	17.55	NA	414.33	0	414.33
	08/11/04	431.88	NA	18.99	NA	412.89	0	412.89
	08/19/04	431.88	NA	19.66	NA	412.22	0	412.22
	08/27/04	431.88	NA	19.37	NA	412.51	0	412.51
	09/02/04	431.88	NA	20.03	NA	411.85	0	411.85
	09/21/04	431.88	NA	21.12	NA	410.76	0	410.76
RB-55*	01/28/04	434.21	33.39	33.40	400.82	400.81	0.01	400.82
	04/21/04	434.21	29.97	37.42	404.24	396.79	7.45	402.60
	05/27/04	434.21	--	--	--	--	--	--
	06/03/04	434.21	--	--	--	--	--	--
	06/10/04	434.21	--	--	--	--	--	--
	06/17/04	434.21	--	--	--	--	--	--
	06/23/04	434.21	--	--	--	--	--	--
	07/08/04	434.21	--	--	--	--	--	--
	07/14/04	434.21	--	--	--	--	--	--
	07/20/04	434.21	--	--	--	--	--	--
	07/28/04	434.21	--	--	--	--	--	--
	08/03/04	434.21	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-55*	08/11/04	434.21	--	--	--	--	--	--
	08/17/04	434.21	--	--	--	--	--	--
	08/27/04	434.21	--	--	--	--	--	--
	09/02/04	434.21	--	--	--	--	--	--
	09/21/04	434.21	--	--	--	--	--	--
RB-56*	01/28/04	431.91	32.16	35.64	399.75	396.27	3.48	398.98
	04/21/04	431.91	31.35	33.40	400.56	398.51	2.05	400.11
	05/27/04	431.91	--	--	--	--	--	--
	06/03/04	431.91	--	--	--	--	--	--
	06/10/04	431.91	--	--	--	--	--	--
	06/17/04	431.91	--	--	--	--	--	--
	06/23/04	431.91	--	--	--	--	--	--
	07/08/04	431.91	--	--	--	--	--	--
	07/14/04	431.91	--	--	--	--	--	--
	07/20/04	431.91	--	--	--	--	--	--
	07/28/04	431.91	--	--	--	--	--	--
	08/03/04	431.91	--	--	--	--	--	--
	08/11/04	431.91	--	--	--	--	--	--
	08/17/04	431.91	--	--	--	--	--	--
	08/27/04	431.91	--	--	--	--	--	--
	09/02/04	431.91	--	--	--	--	--	--
	09/21/04	431.91	--	--	--	--	--	--
GB-1	01/27/04	431.55	NA	29.07	NA	402.48	0	402.48
	04/20/04	431.55	NA	29.41	NA	402.14	0	402.14
	05/27/04	431.55	NA	28.83	NA	402.72	0	402.72
	06/03/04	431.55	NA	28.79	NA	402.76	0	402.76
	06/10/04	431.55	NA	28.76	NA	402.79	0	402.79
	06/17/04	431.55	NA	28.83	NA	402.72	0	402.72
	06/23/04	431.55	NA	28.58	NA	402.97	0	402.97
	06/30/04	431.55	NA	28.51	NA	403.04	0	403.04

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
GB-1	07/08/04	431.55	NA	28.37	NA	403.18	0	403.18
	07/13/04	431.55	NA	28.25	NA	403.30	0	403.30
	07/20/04	431.55	NA	28.43	NA	403.12	0	403.12
	07/28/04	431.55	NA	28.63	NA	402.92	0	402.92
	08/03/04	431.55	NA	28.46	NA	403.09	0	403.09
	08/11/04	431.55	NA	28.57	NA	402.98	0	402.98
	08/17/04	431.55	NA	28.67	NA	402.88	0	402.88
	08/27/04	431.55	NA	28.91	NA	402.64	0	402.64
	09/02/04	431.55	NA	28.92	NA	402.63	0	402.63
	09/21/04	431.55	NA	29.15	NA	402.40	0	402.40
GB-6	01/27/04	430.53	NA	29.44	NA	401.09	0	401.09
	04/20/04	430.53	NA	29.62	NA	400.91	0	400.91
	05/27/04	430.53	NA	29.38	NA	401.15	0	401.15
	06/03/04	430.53	NA	29.49	NA	401.04	0	401.04
	06/10/04	430.53	NA	29.32	NA	401.21	0	401.21
	06/17/04	430.53	NA	29.40	NA	401.13	0	401.13
	06/23/04	430.53	NA	29.25	NA	401.28	0	401.28
	06/30/04	430.53	NA	28.48	NA	402.05	0	402.05
	07/08/04	430.53	NA	29.17	NA	401.36	0	401.36
	07/13/04	430.53	NA	29.10	NA	401.43	0	401.43
	07/20/04	430.53	NA	29.17	NA	401.36	0	401.36
	07/28/04	430.53	NA	29.31	NA	401.22	0	401.22
	08/03/04	430.53	NA	29.13	NA	401.40	0	401.40
	08/11/04	430.53	NA	29.28	NA	401.25	0	401.25
	08/17/04	430.53	NA	29.29	NA	401.24	0	401.24
	08/27/04	430.53	NA	29.55	NA	400.98	0	400.98
	09/02/04	430.53	NA	29.52	NA	401.01	0	401.01
	09/21/04	430.53	NA	29.68	NA	400.85	0	400.85
LP-4	01/27/04	432.53	NA	31.64	NA	400.89	0	400.89
	04/20/04	432.53	NA	31.36	NA	401.17	0	401.17

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
LP-4	05/27/04	432.53	NA	31.22	NA	401.31	0	401.31
	06/03/04	432.53	NA	31.29	NA	401.24	0	401.24
	06/10/04	432.53	NA	30.96	NA	401.57	0	401.57
	06/17/04	432.53	NA	30.84	NA	401.69	0	401.69
	06/23/04	432.53	NA	30.68	NA	401.85	0	401.85
	06/30/04	432.53	NA	30.43	NA	402.10	0	402.10
	07/08/04	432.53	NA	30.29	NA	402.24	0	402.24
	07/13/04	432.53	NA	30.10	NA	402.43	0	402.43
	07/20/04	432.53	NA	30.24	NA	402.29	0	402.29
	07/28/04	432.53	NA	30.44	NA	402.09	0	402.09
	08/03/04	432.53	NA	30.46	NA	402.07	0	402.07
	08/11/04	432.53	NA	30.56	NA	401.97	0	401.97
	08/17/04	432.53	NA	30.60	NA	401.93	0	401.93
	08/27/04	432.53	NA	30.93	NA	401.60	0	401.60
	09/02/04	432.53	NA	30.96	NA	401.57	0	401.57
	09/21/04	432.53	NA	31.19	NA	401.34	0	401.34
T-1*	01/28/04	--	29.47	32.50	--	--	3.03	--
	04/21/04	--	28.55	30.61	--	--	2.06	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	25.95	27.85	--	--	1.9	--
	07/08/04	--	--	--	--	--	--	--
	07/13/04	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--
	07/28/04	--	--	--	--	--	--	--
	08/03/04	--	--	--	--	--	--	--
	08/11/04	--	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
T-1*	08/17/04	--	--	--	--	--	--	--
	08/27/04	--	--	--	--	--	--	--
	09/02/04	--	--	--	--	--	--	--
	09/21/04	--	--	--	--	--	--	--
MP-1S	04/21/04	--	NA	24.46	NA	--	0	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	NA	23.14	NA	--	0	
	07/08/04	--	NA	22.91	NA	--	0	
	07/14/04	--	27.60	27.90	--	--	0.3	--
	07/20/04	--	NA	22.96	--	--	0	--
	07/28/04	--	NA	23.12	--	--	0	--
	08/03/04	--	23.15	23.16	--	--	0.01	--
	08/11/04	--	NA	23.30	--	--	0	--
	08/17/04	--	NA	23.34	--	--	0	--
	08/27/04	--	NA	23.42	--	--	0	--
	09/02/04	--	NA	23.57	--	--	0	--
	09/22/04	--	NA	23.90	--	--	0	--
MP-1D	04/21/04	--	30.16	30.20	--	--	0.04	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	26.63	26.95	--	--	0.32	--
	07/08/04	--	26.94	27.20	--	--	0.26	--
	07/14/04	--	NA	23.00	--	--	0	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-1D	07/20/04	--	27.90	28.18	--	--	0.28	--
	07/28/04	--	NA	28.62	--	--	0	--
	08/03/04	--	28.75	28.89	--	--	0.14	--
	08/11/04	--	NA	29.07	--	--	0	--
	08/17/04	--	NA	29.27	--	--	0	--
	08/27/04	--	NA	30.07	--	--	0	--
	09/02/04	--	NA	29.68	--	--	0	--
	09/22/04	--	NA	30.65	--	--	0	--
MP-2S	04/21/04	--	NA	29.67	NA	--	0	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	NA	25.94	NA	--	0	--
	07/08/04	--	26.19	26.20	--	--	0.01	--
	07/14/04	--	NA	26.81	NA	--	0	--
	07/20/04	--	27.13	27.14	--	--	0.01	--
	07/28/04	--	NA	27.74	--	--	0	--
	08/03/04	--	27.67	29.12	--	--	1.45	--
	08/11/04	--	27.90	29.32	--	--	1.42	--
	08/17/04	--	28.11	29.55	--	--	1.44	--
	08/27/04	--	26.99	27.07	--	--	0.08	--
	09/02/04	--	27.01	27.02	--	--	0.01	--
	09/22/04	--	NA	27.01	--	--	0	--
MP-2D	04/21/04	--	NA	27.00	NA	--	0	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-2D	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	25.80	27.00	--	--	1.2	--
	07/08/04	--	26.01	27.00	--	--	0.99	--
	07/14/04	--	26.74	26.99	--	--	0.25	--
	07/20/04	--	26.85	26.98	--	--	0.13	--
	07/28/04	--	NA	26.84	--	--	0	--
	08/03/04	--	26.98	27.03	--	--	0.05	--
	08/11/04	--	26.98	27.02	--	--	0.04	--
	08/17/04	--	26.98	27.02	--	--	0.04	--
	08/27/04	--	28.72	30.52	--	--	1.8	--
	09/02/04	--	28.76	29.89	--	--	1.13	--
	09/22/04	--	29.27	30.99	--	--	1.72	--
MP-3S	04/21/04	--	NA	29.26	NA	--	0	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	NA	25.90	NA	--	0	--
	07/08/04	--	NA	26.12	NA	--	0	--
	07/14/04	--	NA	26.78	NA	--	0	--
	07/20/04	--	NA	27.12	NA	--	0	--
	07/28/04	--	NA	27.76	NA	--	0	--
	08/03/04	--	NA	27.95	NA	--	0	--
	08/11/04	--	NA	28.20	NA	--	0	--
	08/17/04	--	NA	28.38	NA	--	0	--
	08/27/04	--	NA	18.09	NA	--	0	--
	09/02/04	--	NA	18.26	NA	--	0	--
	09/22/04	--	NA	19.02	NA	--	0	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-3D	04/21/04	--	NA	18.66	NA	--	0	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	NA	16.79	NA	--	0	--
	07/08/04	--	NA	16.64	NA	--	0	--
	07/14/04	--	NA	16.85	NA	--	0	--
	07/20/04	--	NA	17.10	NA	--	0	--
	**7/28/2004	--	NA	11.47	NA	--	0	--
	08/03/04	--	NA	17.43	NA	--	0	--
	08/11/04	--	NA	17.62	NA	--	0	--
	08/17/04	--	NA	17.81	NA	--	0	--
	08/27/04	--	NA	30.27	NA	--	0	--
	09/02/04	--	NA	29.98	NA	--	0	--
	09/22/04	--	NA	30.92	NA	--	0	--
MP-4S	04/21/04	--	--	--	--	--	--	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	26.25	26.28	--	--	0.03	--
	07/08/04	--	26.64	26.69	--	--	0.05	--
	07/14/04	--	26.65	29.36	--	--	2.71	--
	07/20/04	--	27.01	29.44	--	--	2.43	--
	07/28/04	--	27.79	29.72	--	--	1.93	--
	08/03/04	--	27.96	29.86	--	--	1.9	--
	08/11/04	--	28.22	30.07	--	--	1.85	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-4S	08/17/04	--	28.50	30.22	--	--	1.72	--
	08/27/04	--	NA	DRY	--	--	--	--
	09/02/04	--	NA	DRY	--	--	--	--
	09/22/04	--	NA	DRY	--	--	--	--
MP-4D	04/21/04	--	--	--	--	--	--	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	NA	25.77	NA	--	0	--
	07/08/04	--	NA	25.48	NA	--	0	--
	07/14/04	--	NA	25.60	NA	--	0	--
	07/20/04	--	NA	25.71	NA	--	0	--
	07/28/04	--	NA	25.94	NA	--	0	--
	08/03/04	--	26.15	26.16	--	--	0.01	--
	08/11/04	--	NA	26.40	--	--	0	--
	08/17/04	--	NA	DRY	--	--	0	--
	08/27/04	--	29.29	30.78	--	--	1.49	--
	09/02/04	--	29.00	30.08	--	--	1.08	--
	09/22/04	--	29.86	31.10	--	--	1.24	--
SVE-1S	04/21/04	--	--	--	--	--	--	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	--	--	--	--	--	--
	07/08/04	--	--	--	--	--	--	--
	07/14/04	--	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SVE-1S	07/20/04	--	--	--	--	--	--	--
	07/28/04	--	--	--	--	--	--	--
	08/03/04	--	--	--	--	--	--	--
	08/11/04	--	--	--	--	--	--	--
	08/17/04	--	--	--	--	--	--	--
	08/27/04	--	25.87	25.88	--	--	0.01	--
	09/02/04	--	27.46	27.47	--	--	0.01	--
	09/22/04	--	NA	26.25	--	--	0	--
SVE-1D*	04/20/04	--	29.65	29.71	--	--	0.06	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	--	--	--	--	--	--
	06/10/04	--	--	--	--	--	--	--
	06/17/04	--	--	--	--	--	--	--
	06/23/04	--	--	--	--	--	--	--
	06/30/04	--	--	--	--	--	--	--
	07/08/04	--	--	--	--	--	--	--
	07/14/04	--	--	--	--	--	--	--
	07/20/04	--	--	--	--	--	--	--
	07/28/04	--	--	--	--	--	--	--
	08/03/04	--	--	--	--	--	--	--
	08/11/04	--	--	--	--	--	--	--
	08/17/04	--	--	--	--	--	--	--
	08/27/04	--	NA	29.68	--	--	0	--
	09/02/04	--	NA	29.34	--	--	0	--
	09/22/04	--	NA	30.47	--	--	0	--
Product Pipeline Sump (sump is 14.5 ft. deep)	04/21/04	--	13.79	13.80	--	--	0.01	--
	05/27/04	--	--	--	--	--	--	--
	06/03/04	--	NA	13.40	NA	--	0	--
	06/10/04	--	13.38	13.39	--	--	0.01	--
	06/17/04	--	--	--	--	--	--	--

TABLE F-3
2004 Groundwater Elevations/Apparent Product Thickness
Wells (RB-series, etc.) Outside of Hartford, Illinois
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
Product Pipeline Sump (sump is 14.5 ft. deep)	06/23/04	--	NA	13.09	--	--	0	--
	06/30/04	--	NA	14.15	--	--	0	--
	07/08/04	--	--	--	--	--	--	--
	07/14/04	--	NA	13.93	--	--	0	--
	07/20/04	--	NA	13.92	--	--	0	--
	07/28/04	--	NA	13.89	--	--	0	--
	08/03/04	--	NA	13.65	--	--	0	--
	08/11/04	--	NA	13.61	--	--	0	--
	08/17/04	--	NA	13.59	--	--	0	--
	08/27/04	--	NA	13.45	--	--	0	--
	09/02/04	--	NA	13.43	--	--	0	--
	09/21/04	--	NA	13.37	--	--	0	--

NOTES:

NA = Not Applicable
-- = No data
[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]
* Well contains product recovery pump.
** = Depth to water anomaly
SG = Specific gravity of hydrocarbon determined to be an average of 0.78 on the Premcor facility for data recorded during and after 9/03.
MP- and SVE-series installed by Clayton in 6/03. MP-series installed as vacuum monitoring probes. SVE-series installed as soil vapor extraction wells. MP- and SVE-series not appropriate for determining groundwater flow.
Remaining wells installed by others.
MP- and SVE-series, and RB-13, T-1, TH2-88@P7 well and RB-08 (recovery well) well TOC elevations to be determined by Illinois-licensed surveyor. TOC elevations rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 6/02 by CMT, Inc.) was completed in 1/04 by CMT.