

Appendix 4
Historic Well Loss Data¹

Assessment of Primrose Creek and
Watershed in Relation to the New Hope
Crushed Stone Quarry Operations

Solebury Township, Pennsylvania

¹ Historic well loss data was previously presented by Uhl, Baron, Rana & Associates' *2006 Well Problems Survey Results, Solebury Township, PA* (February 23, 2007) and was also discussed in Maser (2007).

**CHRONOLOGICAL LISTING OF WELL WATER LOSS INCIDENTS REQUIRING
PUMP LOWERING (L), WELL DEEPENING (D) OR WELL REPLACEMENT (R) IN QUARRY PROXIMITY**

Date Range	Incident No.	Tax Parcel	Street Address	Action #	Date - Well Water Loss Incident and Type of Action	Well Depth (Feet)	Pump Depth (Feet)	Year	Action
Prior to 1975	1	41-18-83-7	7006 Ely Road	First*	Unknown date - Well deepened.	NA	NA		D
	2	41-22-75	2660 Sagan Road	First	1960s - Well deepened (325 ft).	575	500-525		D
	3	41-13-107-1, 96-4	6782, 6790 Phillips Mill Road	First*	1975 - Well replaced (20 ft).	60	NA	1975	R
1975 to 1979	4	41-18-81	6912 Ely Road	First	July 1976 - Well replaced.	780	700	1976	R
	5	41-18-76	6931 Ely Road	First	1976 - Well replaced.	368	NA	1976	R
	6	41-18-82	6958 Ely Road	First*	1976 - Well replaced (185 ft).	210	NA	1976	R
	7	41-28-49	7062 Ely Road	First*	1976 - Pump lowered.	130	100?(b)	1976	R
	8	41-18-86, 86-1	7034 Ely Road	First*	Late 1970s - Pump lowered.	~50-60	~60		L
	9	41-18-79	6830-6852 Phillips Mill Road	First*	1977 - Well 2 went dry.	130	---	1977	O
	10	41-13-97	2856 Sagan Road	First	1979/1980 - Well replaced (120 ft).	360/280*	NA	1979	R
	11	41-18-80	6920 Ely Road	First*	1980 - Well deepened (290 ft).	340	NA	1980	D
	12	41-18-77-1, -4, -5	6859, 6865 Phillips Mill Road	First*	1980 - Well deepened (150 ft).	220	195	1980	D
	13	41-18-73	6953 Ely Road	First*	1981 - Pump lowered (120 ft).	143	~143	1981	L
1980 to 1984	14	41-18-84-3	7018 Ely Road	First	1981/2 - Well replaced (~100 ft).	~255	~240	1981	R
	15	41-13-121-3	6761 Phillips Mill Road	First	1982 - Pump lowered (~75 ft).	120+	120	1982	L
	16	41-13-107-1, 96-4	6782, 6790 Phillips Mill Road	Second*	Apr. 1982 - Well replaced.	NA	162	1982	R
	17	41-13-107-1, 96-4	6782, 6790 Phillips Mill Road	Third*	Nov. 1982 - Pump lowered.	NA	NA	1982	L
	18	41-18-84, 84-5, -6	7010 Ely Road	First	1984 - Well replaced (NA, went dry).	NA	NA	1984	R
	19	41-28-43, 43-1, -3	6925, 6931 Phillips Mill Road	First*	1984 - New barn well deepened.	NA	NA	1984	D
	20	41-18-83-3	6984 Ely Road	First*	Dec. 12, 1984 - Pump lowered (~150 ft).	185	182	1984	L
	21	41-13-96-2	2830 Sagan Road	First*	Jan. 21, 1985 - Well replaced (135 ft).	260	145	1985	R
	22	41-18-83-9	6992 Ely Road	First	Sept. 1985 - Well deepened (130 ft).	430	415	1985	D
	23	41-18-86, 86-1	7034 Ely Road	Second*	Nov. 1986 - Well replaced.	320	NA	1986	R
1985 to 1989	24	41-18-72	6957 Ely Road	First	June 1987 - Well replaced.	305	275	1987	R
	25	41-28-48	7044 Ely Road	First	July 1987 - Well replaced (125 ft).	305	NA	1987	R
	26	41-13-96-9	6629 School Lane	First*	After 1987 - Pump lowered in 1987 well.	NA	NA	1987	L
	27	41-18-82-1	6948 Ely Road	First	1988 - Well replaced.	300+	NA	1988	R
	28	41-13-121	6775 Phillips Mill Road	First*	1988 - Pump lowered.	130	128	1988	L
	29	41-18-77-3	6853 Phillips Mill Road	First	1988 - Pump lowered (90 ft).	158	145	1988	L
	30	41-28-14	6986 Phillips Mill Road	First	July 1988 - Pump lowered (250 ft).	300	275	1988	L
	31	41-18-125-1, -2	7065, 7085 Ely Road	First*	June 2, 1989 - Well replaced.	175	NA	1989	R
	32	41-18-82-2	6962 Ely Road	First*	Before 1989 - Well replaced.	300+	NA	1989	R

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33	41-18-79	6830-6852 Phillips Mill Road	Second*	July 1990 - Well 3 went dry.	200+	NA	1990	O
34	41-18-82	6958 Ely Road	Second	Sept. 14, 1990 - Well replaced.	337	NA	1990	R
35	41-18-82-2	6962 Ely Road	Second	Sept. 1990 - Well replaced.	397	NA	1990	R
36	41-28-49	7062 Ely Road	Second	Dec. 18, 1990 - Well replaced.	400	335	1990	R
37	41-13-96	2774 Sugan Road	First*	1991 - Pump lowered.	200	NA	1991	L
38	41-22-55,75-1,74	2675, 2680 Sugan Road	First	Sept. 1991 - Well deepened (220 ft).	700	640	1991	D
39	41-28-43-1,-3	6925, 6931 Phillips Mill Road	Second	Oct. 1991 - House spring-well replaced.	275	NA	1991	R
40	41-18-75	6939 Ely Road	First*	Dec. 21, 1991 - Well replaced (190 ft).	233	NA	1991	R
41	41-22-6	2744 Sugan Road	First	Dec. 1991 - Well replaced (165 ft).	360	NA	1991	R
42	41-13-121-1	6767 Phillips Mill Road	First	Feb. 10, 1992 - Well replaced.	300	294	1992	R
43	41-18-83-1	6970 Ely Road	First	Sept. 1992 - Well deepened (250 ft).	477	460	1992	D
44	41-18-79	6830-6852 Phillips Mill Road	Third*	Sept. 1992-Well 4 Pump lowered (113 ft).	138	132	1992	L
45	41-22-73	2712 Sugan Road	First*	Sept. 28, 1992 - Well replaced (200 ft).	172	NA	1992	R
46	41-22-73	2712 Sugan Road	Second	Nov. 1992 - Well deepened.	617	400+	1992	D
47	41-18-73	6953 Ely Road	Second	Oct. 28, 1992 - Well deepened.	317	275	1992	D
48	41-18-83-3	6984 Ely Road	Second*	Nov. 3, 1992 - Well deepened.	405	270	1992	D
49	41-18-74	6945 Ely Road	First*	After 1992 - Well deepened (200 ft).	241 ft	NA	1992	D
50	41-13-96-2	2830 Sugan Road	Second*	1993 - Well deepened.	480	NA	1993	D
51	41-28-48-1,48-2	7056 Ely Road	First*	1994 - Well deepened (160 ft).	600	NA	1994	D
52	41-13-121	6775 Phillips Mill Road	Second	1988/1995 - Well replaced/put in use.	210	190		R
53	41-18-79	6830-6852 Phillips Mill Road	Fourth*	February 1995 - Well 4 abandoned.	138	132	1995	O
54	41-13-107-1, 96-4	6782, 6790 Phillips Mill Road	Fourth*	August 1995 - Well replaced.	~200	188	1995	R
55	41-18-83-7	7006 Ely Road	Second	December 1996 - Well deepened.	375	NA	1996	D
56	41-18-83-4	6966 Ely Road	First	1997 - Pump lowered.	275	255	1997	L
57	41-18-83-3	6984 Ely Road	Third	June 30, 1997 - Pump lowered.	405	300	1997	L
58	41-18-125-1,2	7065, 7085 Ely Road	Second	1997 - Well replaced.	~225	NA	1997	R
59	41-13-107-1, 96-4	6782, 6790 Phillips Mill Road	Fifth	1998 - Pump lowered.	~200	NA	1998	L
60	41-18-83-5	6976 Ely Road	First	Dec. 14, 1998 - Well replaced (79 ft).	300	260	1998	R
61	41-18-83-2	6980 Ely Road	First	Jan. 6, 1999 - Well deepened (160 ft).	360	340	1999	D

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62	41-13-96	2774 Sugan Road	Second*	2000 - Pump lowered.	200	NA	2000	L
63	41-13-95-3	2877 Sugan Road	First*	Dec.2000 - Pump lowered (200 ft).	210	208	2000	L
64	41-18-74	6945 Ely Road	Second	May 1, 2001 - Well replaced.	290	240	2001	R
65	41-18-86, 86-1	7034 Ely Road	Third	May 2001 - Pump lowered.	320	300	2001	L
66	41-13-96	2774 Sugan Road	Third*	2001 - Pump lowered again.	200	NA	2001	L
67	41-28-42-1	6961 Phillips Mill Road	First*	Summer 2002 - Pump lowered.	~500	NA	2002	L
68	41-18-80	6920 Ely Road	Second	Mid-2002 - Well replaced.	500	NA	2002	R
69	41-13-95-13	2771 Sugan Road	First*	~July 2002 - Pump lowered.	240	NA	2002	L
70	41-13-96	2774 Sugan Road	Fourth	2002 - Well replaced.	300	NA	2002	R
71	41-18-131	6908 Ely Road	First	Oct. 2002 - Well deepened (350 ft).	500-600	NA	2002	D
72	41-28-48-1,-2	7056 Ely Road	Second	May 8, 2003 - Well replaced.	700	NA	2003	R
73	41-18-75	6939 Ely Road	Second	Oct. 2003 - Well deepened.	600	NA	2003	D
74	41-13-95-13	2771 Sugan Road	Second	July 2004 - Well deepened.	500	NA	2004	D
75	41-13-95-3	2877 Sugan Road	Second	July 2004 - Well deepened.	NA	NA	2004	D
76	41-13-96-2	2830 Sugan Road	Third	July 2004 - Pump lowered..	480	290	2004	L
77	41-13-96-9	6629 School Lane	Second	Nov. 2004 - Pump lowered.	NA	NA	2004	L
78	41-18-77-1	6859 Phillips Mill Road	Second	Sept. 16, 2005 - Well replaced.	235	180	2005	R
79	41-28-42-1	6961 Phillips Mill Road	Second	Sept. 14, 2005 - Well hydrofractured.	580	NA	2005	D
80	41-18-79	Solebury School	Fifth	May 2006 - Well 1 went dry.	157	152	2006	O
				R = well replaced	L = pump lowered		O = well went dry	
D = well deepened								